










## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Introduction

### Overview

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Devices	Page	Applications/ Individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
 <p><b>3VL molded case circuit breakers for line protection</b></p> <p><b>3VL molded case circuit breakers for generator protection</b></p>	<a href="#">2/126 ...</a> <a href="#">2/141,</a> <a href="#">2/150 ...</a> <a href="#">2/167</a>	<p>The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.</p> <p>The overload and short-circuit releases can be used for optimized protection of generators.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.	✓	✓	✓
 <p><b>3VL molded case circuit breakers for motor protection</b></p> <p>Are you IE3 ready?</p> 	<a href="#">2/142 ...</a> <a href="#">2/145</a>	<p>Circuit breakers for motor protection are specifically designed for the characteristic curve of the motor, and have additional functions such as phase failure detection and adjustable trip class.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. IE3 ready	✓	✓	✓
 <p><b>3VL molded case circuit breakers for starter protection</b></p> <p>Are you IE3 ready?</p> 	<a href="#">2/146,</a> <a href="#">2/147</a>	<p>Starter combinations consist of: Motor starter protector + contactor + overload relay. The motor starter protector provides short-circuit protection and the isolating function. The task of the contactor is the operational switching of the feeder. The overload relay provides overload protection, which is specifically designed for the motor.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. IE3 ready	✓	✓	✓
 <p><b>3VL non-automatic circuit breakers, molded case</b></p>	<a href="#">2/146,</a> <a href="#">2/147,</a> <a href="#">2/168,</a> <a href="#">2/169</a>	<p>These circuit breakers are used as feeder circuit breakers, main control switches or disconnectors without overload protection. They have fixed short-circuit releases.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.  Isolating features according to IEC 60947-2 and EN 60947-2.	✓	✓	✓
 <p><b>Auxiliary switches and auxiliary releases for 3VL molded case circuit breakers</b></p>	<a href="#">2/175,</a> <a href="#">2/176</a>	<p>Auxiliary switches, alarm switches, undervoltage releases and shunt releases</p>	As for circuit breakers	✓	✓	✓
 <p><b>Operating mechanisms</b></p>	<a href="#">2/178 ...</a> <a href="#">2/185</a>	<p>The manual operating mechanisms are available in two versions:</p> <ul style="list-style-type: none"> <li>• Front-operated rotary operating mechanism,</li> <li>• Door-coupling rotary operating mechanism</li> </ul> <p>In the case of the motorized operating mechanisms there are also two versions:</p> <ul style="list-style-type: none"> <li>• MO for standard applications</li> <li>• SEO for network synchronization tasks</li> </ul>	As for circuit breakers	✓	✓	✓
 <p><b>Plug-in versions/withdrawable versions</b></p>	<a href="#">2/186 ...</a> <a href="#">2/191</a>	<p>Assembly in plug-in and withdrawable versions allows the 3VL molded case circuit breaker to be replaced quickly without accessing the terminals.</p>	As for circuit breakers	✓	✓	✓

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	<a href="#">2/192</a>	Protection of plant and personnel against damage or injury caused by residual currents and insulation faults.	IEC EN 60947-2 (Annex B)	✓	✓	✓
	<a href="#">Ch. 12</a>	Modular residual current devices (MRCD) monitor residual currents in electrical systems and trip the molded case circuit breaker via an auxiliary release after an adjustable advance warning if the residual current exceeds a defined value.	IEC EN 60947-2 (Annex M)	✓	✓	✓
	<a href="#">2/193 ...</a> <a href="#">2/198</a>	Front connecting bars, rear terminals, box terminals, circular conductor terminals, multiple feed-in terminals, auxiliary conductor terminals, terminal plates, connections with screw terminals, terminal covers for circuit breakers, phase barriers for circuit breakers	As for circuit breakers	✓	✓	✓
	<a href="#">2/199 ...</a> <a href="#">2/204</a>	Locking devices for toggle levers, rear interlocking modules, interlocking modules for Bowden wire interlocking	As for circuit breakers	✓	✓	✓
	<a href="#">Ch. 12</a>	The 3KC ATC5300 and ATC3100 transfer control devices, equipped with two circuit breakers with motorized operating mechanism, serve as a transfer system that automatically or manually switches between two power supply systems in low-voltage power distribution applications.	IEC 60947-6-1 DIN VDE 0660-114 UL 508 CSA 22.2 No. 14	✓	✓	✓
	<a href="#">Ch. 10</a>	Busbar adapters	As for circuit breakers	✓	✓	✓
	<a href="#">2/207</a>	Data transmission through COM20, COM21: COM20 (PROFIBUS) for Electronic Trip Units with communication function, COM21 (MODBUS) for Electronic Trip Units with communication function, powerconfig parameterization software	As for circuit breakers	✓	✓	✓
<b>Further accessories</b>	<a href="#">2/208 ...</a> <a href="#">2/211</a>	Masking frames (cover frames) for door cutouts, to increase degree of protection	As for circuit breakers	✓	✓	✓

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Type		VL160X/3VL1	VL160/3VL2	VL250/3VL3	VL400/3VL4
<b>Molded case circuit breakers</b>					
<b>3VL molded case circuit breakers up to 1600 A</b>					
Rated current $I_n$ at 50 °C ambient temperature	A	16 ... 160	50 ... 160	200 ... 250	200 ... 400
Number of poles		3    4	3    4	3    4	3    4
Rated operational voltage $U_e$ 50/60 Hz AC DC <sup>1)</sup>	V	690 500	690 500 <sup>2)</sup>	690 600	690 600
<b>Trip Units</b>					
Thermal-magnetic		✓	✓	✓	✓
Electronic LCD ETU/ETU		--	✓	✓	✓
PROFIBUS module COM20		--	✓	✓	✓
<b>Dimensions</b>					
		A	B	C	D
	mm	105	139	105	139
	mm	157	157	175	175
	mm	81	81	81	81
	mm	107	107	107	107

#### Breaking capacity $I_{cu}/I_{cs}$ RMS value acc. to IEC 60947-2

##### Standard breaking capacity N<sup>3)</sup>

		VL160X/3VL1	VL160/3VL2	VL250/3VL3	VL400/3VL4
Up to 240 V AC	kA	65/65	65/65	65/65	65/65
Up to 415 V AC	kA	55/55	55/55	55/55	55/55
Up to 440 V AC	kA	25/20	25/20	25/20	35/26
Up to 500/525 V AC	kA	18/14	25/20	25/20	25/20
Up to 690 V AC	kA	8/4 <sup>4)</sup>	12/6	12/6	15/8
Up to 250 V DC <sup>5)</sup>	kA	30/30	32/32	32/32	32/32
Up to 500 V DC <sup>5)</sup>	kA	--	--	--	--
Up to 600 V DC <sup>5)</sup>	kA	--	--	--	--
NEMA breaking capacity <sup>6)</sup>					
Up to 480 V AC	kA	25	25	25	35
Up to 600 V AC	kA	8 <sup>4)</sup>	12	12	20

##### High breaking capacity H<sup>3)</sup>

		VL160X/3VL1	VL160/3VL2	VL250/3VL3	VL400/3VL4
Up to 240 V AC	kA	100/75	100/75	100/75	100/75
Up to 415 V AC	kA	70/70	70/70	70/70	70/70
Up to 440 V AC	kA	42/32	50/38	50/38	50/38
Up to 500/525 V AC	kA	30/23	40/30	40/30	40/30
Up to 690 V AC	kA	12/6 <sup>4)</sup>	12/6	12/6	15/8
Up to 250 V DC <sup>5)</sup>	kA	30/30	32/32	32/32	32/32
Up to 500 V DC <sup>5)</sup>	kA	30/30	32/32	32/32	32/32
Up to 600 V DC <sup>5)</sup>	kA	--	--	--	--
NEMA breaking capacity <sup>6)</sup>					
Up to 480 V AC	kA	42	50	50	50
Up to 600 V AC	kA	12 <sup>4)</sup>	12	12	20

##### Very high breaking capacity L<sup>3)</sup>

		VL160X/3VL1	VL160/3VL2	VL250/3VL3	VL400/3VL4
Up to 240 V AC	kA	--	200/150	200/150	200/150
Up to 415 V AC	kA	--	100/75	100/75	100/75
Up to 440 V AC	kA	--	75/50	75/50	75/50
Up to 500/525 V AC	kA	--	50/38	50/38	50/38
Up to 690 V AC	kA	--	12/6	12/6	15/8
Up to 250 V DC <sup>5)</sup>	kA	--	32/32	32/32	32/32
Up to 500 V DC <sup>5)</sup>	kA	--	32/32	32/32	32/32
Up to 600 V DC <sup>5)</sup>	kA	--	32/32	32/32	32/32
NEMA breaking capacity <sup>6)</sup>					
Up to 480 V AC	kA	--	75	75	75
Up to 600 V AC	kA	--	12	12	20

✓ Available  
-- Not available

<sup>1)</sup> Rated DC voltage applies only for circuit breakers with thermal-magnetic trip unit.

<sup>2)</sup> For PV applications up to  $U_{oc} = 1000$  V DC.

For 3VL molded case circuit breakers according to UL 489, see page 2/214 or see Catalog LV 16.

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VL630/3VL5



VL800/3VL6



VL1250/3VL7



VL1600/3VL8

#### 3VL molded case circuit breakers up to 1600 A

315 ... 630		800		1000 ... 1250		1600	
3	4	3	4	3	4	3	4
690 600	690 600	690 --	690 --	690 --	690 --	690 --	690 --
✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	-- ✓ ✓	-- ✓ ✓	-- ✓ ✓	-- ✓ ✓	-- ✓ ✓
190 279 102 138	253 279 102 138	190 406 114 151	253 406 114 151	229 406 152 207	305 406 152 207	229 406 152 207	305 406 152 207

65/65 55/55 35/26 25/20 20/10 32/32 -- --	65/65 55/55 35/26 25/20 20/10 -- -- --	65/35 55/28 35/26 25/20 20/10 -- -- --	65/35 55/28 35/26 25/20 20/10 -- -- --
25 20	25 20	25 20	25 20

100/75 70/70 50/38 40/30 20/10 32/32 32/32 --	100/75 70/70 50/38 40/30 20/10 -- -- --	100/50 70/35 50/38 40/30 30/15 -- -- --	100/50 70/35 50/38 40/30 30/15 -- -- --
50 30	50 30	50 30	50 30

200/150 100/75 75/50 50/38 20/10 32/32 32/32 32/32	200/150 100/75 75/50 50/38 20/10 -- -- --	200/100 100/50 75/50 50/38 35/17 -- -- --	200/100 100/50 75/50 50/38 35/17 -- -- --
65 35	65 35	65 35	65 35

3) At 240 V AC, 415 V AC, 525 V AC and 690 V AC max. 5 % overvoltage, at 440 V AC and 500 V AC max. 10 % overvoltage, at 250/500/600 V DC max. 5 % overvoltage.

4) Rated current  $I_n \geq 25$  A.

5) The maximum permitted DC voltage for each conducting path needs to be taken into account for DC switching applications; see Technical Information at [www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support); time constant  $t = 15$  ms.

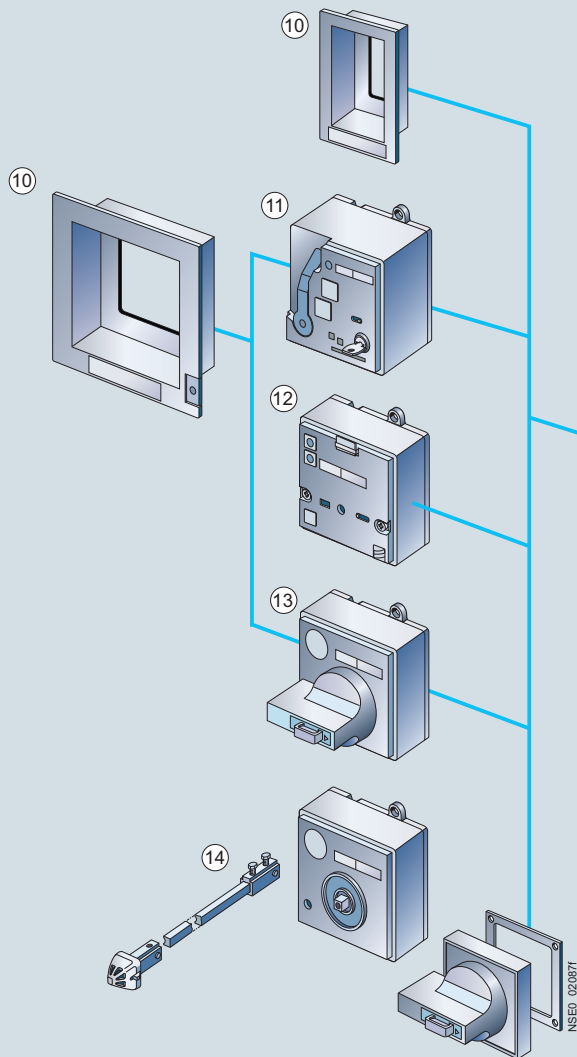
6) The NEMA breaking capacity can be found on the rating plate of each IEC circuit breaker.

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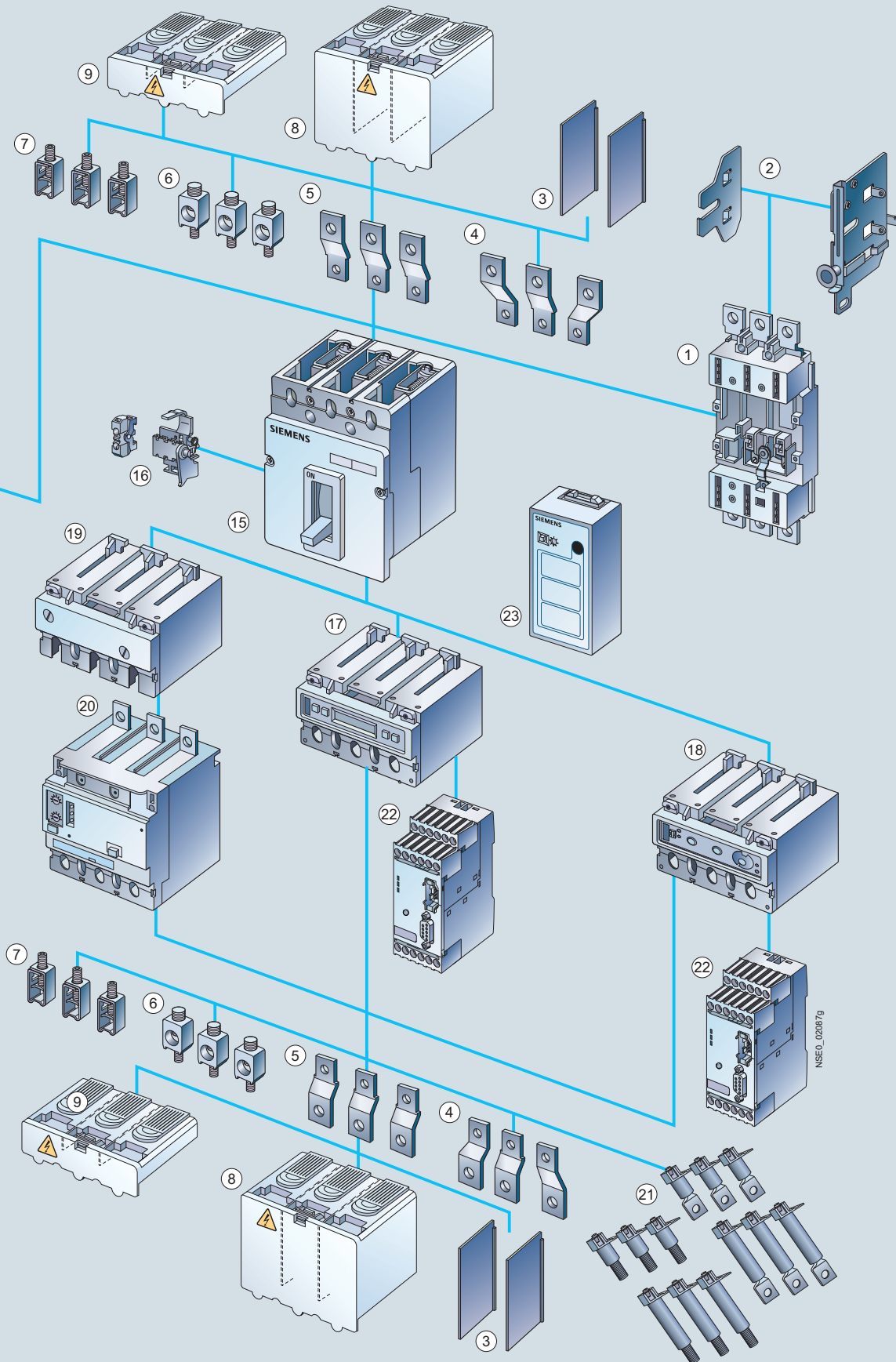


- ① Withdrawable/plug-in bases (pages 2/186 to 2/191)
- ② Side walls of withdrawable unit (pages 2/186 to 2/191)
- ③ Phase barriers (pages 2/193 to 2/198)
- ④ Flared front busbar connecting bars (pages 2/193 to 2/198)
- ⑤ Straight connecting bars (pages 2/193 to 2/198)
- ⑥ Circular conductor terminals for Al/Cu (pages 2/193 to 2/195)
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- ⑩ Masking frames/cover frames for door cutout (pages 2/208 to 2/211)
- ⑪ Motorized operating mechanisms with stored energy mechanism (SEO) (page 2/182)
- ⑫ Motorized operating mechanism (MO) (page 2/182)
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- ⑯ Internal accessories (pages 2/173, 2/174, 2/175 to 2/177)
- ⑰ Electronic Trip Units LCD ETU (pages 2/136, 2/140, 2/144, 2/160 and 2/162)
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- ⑲ Thermal/magnetic overcurrent releases (pages 2/126 to 2/128, 2/146, 2/150 to 2/154, 2/168)
- ⑳ RCD modules (page 2/192)
- ㉑ Rear terminals – flat and round (pages 2/193 to 2/198)
- ㉒ COM20/21 communication modules to the PROFIBUS DP/MODBUS (page 2/207)
- ㉓ Battery power supplies with test function for Electronic Trip Units (pages 2/200 to 2/204)

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### General data

#### Benefits

- The compact design of the 3VL molded case circuit breakers coupled with excellent characteristics fulfills the high demands of today's electrical distribution systems.
- These circuit breakers offer a broad product range, improved technology, space savings and easy operation.
- They are available both in thermal-magnetic (16 A to 630 A) and in electronic versions (63 A to 1,600 A).

#### Communication

The use of modern communication-capable circuit breakers opens up completely new possibilities in terms of start-up, parameterization, diagnostics, maintenance and operation. This allows many different ways of reducing costs and improving productivity in industrial plants, buildings and infrastructure projects to be achieved:

- Fast and reliable parameterization
- Timely information and response can prevent plant stoppages
- Effective diagnostics management

Measured values are the basis for efficient load management, for drawing up power demand profiles and for assigning power to cost centers.

Communication:

- For molded case circuit breakers with communication function, [see pages 2/128 to 2/144, 2/156 to 2/144](#).
- For communication accessories, [see page 2/207](#).
- For more information, [see chapter "Measuring Devices and Power Monitoring"](#) and [see chapter "Software"](#)

#### Application

The different versions of 3VL molded case circuit breakers are suitable for the following applications:

- Incoming and outgoing circuit breakers in distribution systems
- Switching and protection devices for motors, transformers and capacitors
- Disconnecting means with features for stopping and switching off in an emergency (main disconnecting means and EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms and terminal covers.

The 3VL molded case circuit breakers are available in the following versions:

1. For line protection (in 3- and 4-pole versions)  
The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.
2. For motor protection (in 3-pole version)  
The overload and short-circuit releases are designed for optimized protection and direct-on-line starting of induction squirrel-cage motors. The circuit breakers for motor protection are susceptible to phase failure and feature an adjustable trip class. The Electronic Trip Units operate with a microprocessor.
3. For starter combinations (in 3-pole version)  
These circuit breakers are used both for short-circuit protection as well as for isolating functions, which may be required in starter combinations consisting of motor starter protectors, overload relays and motor contactors. These circuit breakers exclusively feature adjustable, instantaneous short-circuit releases.
4. As non-automatic air circuit breakers (in 3- and 4-pole versions)  
These circuit breakers can be used as feeder circuit breakers, main control switches or non-automatic circuit breakers without overload protection. They incorporate an integrated short-circuit self-protection system, eliminating the need for back-up fuses.

#### Breaking capacity

- N** Circuit breakers with standard breaking capacity N ( $I_{cu}$  up to 55 kA at 415 V)
- H** Circuit breakers with high breaking capacity H ( $I_{cu}$  up to 70 kA at 415 V)
- L** Circuit breakers with very high breaking capacity L ( $I_{cu}$  up to 100 kA at 415 V)

These breaking capacities are indicated in the corresponding tables by the symbols shown on orange backgrounds.

#### Standards and specifications

3VL molded case circuit breakers comply with:

IEC 60947-1, EN 60947-1,  
VDE 0660-100,  
IEC 60947-2, EN 60947-2,  
VDE 0660-101.

Isolating features according IEC 60947-2, EN 60947-2.

Disconnecting means (main disconnecting means) according to EN 60204 (VDE 0113).

The 3VL molded case circuit breakers comply in addition with requirements for "disconnecting means with features for stopping and switching off in an emergency" (EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms (red-yellow) and terminal covers.

Please contact Siemens for details of other standards.

The Electronic Trip Units of the circuit breakers for motor protection also fulfill IEC 60947-4-1, VDE 0660-102.

VL160X to VL400 circuit breakers can be equipped with a 3VL RCD module. They then comply with IEC 60947-2 Annex B.

The 3VL RCD module complies with IEC 61000-4-2 to IEC 61000-4-6, IEC 61000-4-11 and EN 55011, Class B (equivalent to CISPR 11) with regard to electromagnetic compatibility.

#### Operating conditions

The 3VL molded case circuit breakers are designed for operation in enclosed areas.

Suitable enclosures must be provided for operation in areas with severe ambient conditions (such as dust, caustic vapors, hazardous gases).

The incoming and outgoing terminals for the circuit breaker can be freely selected. The electrical data remains unaffected.

#### IE3 ready

As from January 2015, the energy-efficiency class IE3 will be mandatory, with a few exceptions only, for three-phase asynchronous motors. This will have an effect on motors, low-voltage power distribution and electrical installation technology, as well as industrial controls.

For use of 3VL molded case circuit breakers in conjunction with highly energy-efficient IE3 motors, please observe the information on dimensioning and configuring, [see "Configuration Manual for SIRIUS Controls with IE3 Motors"](#), at <http://support.automation.siemens.com/WW/view/en/94770820>.

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General data

#### RCD modules

The RCD module is designed for retrofitting to the circuit breaker. It can also be retrofitted by the customer.

The combination of 3VL molded case circuit breaker and RCD module can be fed from the top or bottom.

All 3VL molded case circuit breakers with RCD modules are available with auxiliary switches, alarm switches, undervoltage and shunt releases.

Protection of plant and equipment against overload or damage by ground faults (ground-fault protection).

The RCD module trips the circuit breaker through vectorial summation current formation for all phase currents if the vectorial sum of the currents in the poles (= the ground fault current) overshoots the pre-set response and delay time values. AC currents and pulsating DC currents are measured (CBR, design A according to EN 60947-2).

#### Main connections, basic equipment and options



Main connections (for conductor cross-sections, [see below](#))

Circuit breakers	Connection overview and further options				
	Box terminals	Screw terminals with metric thread for flat connection	Circular conductor terminal/multiple feed-in terminals	Rear terminals	Front-accessible connecting bars
VL160X	□	□	x	x	x
VL160	□	□	x	x	x
VL250	□	□	x	x	x
VL400	x	○	x <sup>2)3)</sup>	x	x
VL630	x <sup>1)</sup>	○	x <sup>2)</sup>	x	x
VL800	--	○	x <sup>2)</sup>	x	x
VL1250	--	○	x <sup>2)</sup>	x	x
VL1600	--	x	--	x	○

○ Scope of supply  
□ Optional scope of supply  
x Available  
-- Not available

<sup>1)</sup> Connecting terminal plate for flexible busbar; not for 690 V AC/600 V DC.  
<sup>2)</sup> Multiple feed-in terminal.  
<sup>3)</sup> Circular conductor terminal also available.

#### Conductor cross-sections

Type		VL160X 3VL1	VL160 3VL2	VL250 3VL3	VL400 3VL4	VL630 3VL5	VL800 3VL6	VL1250 3VL7	VL1600 3VL8
<b>Conductor cross-sections</b>									
Box terminals <sup>1)</sup>									
• Solid or stranded cable • Finely stranded with end sleeve • Flexible busbar	Copper only	mm <sup>2</sup> 2.5 ... 95	2.5 ... 95	25 ... 185	50 ... 300	--	--	--	--
		mm <sup>2</sup> 2.5 ... 50	2.5 ... 50	25 ... 120	50 ... 240	--	--	--	--
		mm 12 × 10	12 × 10	17 × 10	25 × 10	--	--	--	--
Connecting terminal plate for flexible busbar <sup>2)</sup>		mm --	--	--	--	2 units 10 × 32	--	--	--
Circular conductor terminal for cable <sup>1)</sup>									
• Solid or stranded cable - With terminal cover • Finely stranded with end sleeve	Cu or Al	mm <sup>2</sup> 16 ... 70	16 ... 70	25 ... 185	50 ... 300	--	--	--	--
	Cu or Al	mm <sup>2</sup> 16 ... 150	16 ... 150	120 ... 240	--	--	--	--	--
		mm <sup>2</sup> 10 ... 50	10 ... 50	25 ... 120	50 ... 240	--	--	--	--
Multiple feed-in terminal <sup>1)</sup>									
• Solid or stranded cable - With terminal cover • Finely stranded with end sleeve	Cu or Al	mm <sup>2</sup> --	--	--	2 units 50 ... 120	2 units 50 ... 240	3 units 50 ... 240	4 units 50 ... 240	--
	Cu or Al	mm <sup>2</sup> --	--	--	2 units 70 ... 300	--	--	--	--
		mm <sup>2</sup> --	--	--	2 units 50 ... 95	2 units 50 ... 185	3 units 50 ... 185	4 units 50 ... 185	--
• Direct connection of busbars • Screw for connection with screw terminal	Cu or Al	mm 17 × 7 M6	22 × 7 M6	24 × 7 M8	32 × 10 M8	40 × 10 M6	2 × 40 × 10 M8	2 × 50 × 10 M8	3 × 60 × 10 --
<b>Conductor cross-sections for control circuits with terminal connection</b>									
Screw terminals									
• Solid • Finely stranded with end sleeve		mm <sup>2</sup> 0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5
		mm <sup>2</sup> 0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0

<sup>1)</sup> Cross-sections according to IEC 60999.

<sup>2)</sup> Not for 690 V AC/600 V DC.

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### General data

#### VL160 to VL1600 Trip Units – Functional overview

Article No. supplement	Releases	Line protection	Line/generator protection	Motor protection	Starter protection	Non-automatic circuit breakers	Function	Setting options							
								L Overload protection		S <sup>1)</sup> Short-circuit protection (short-time delayed)		I <sup>1)</sup> Short-circuit protection (instantaneous)		G Ground-fault protection	
								$I_r = \times I_n$		$I_{sd} = \times I_r$	$t_{sd}$ [s]	$I_i = \times I_n$		$I_g = \times I_n$	$t_g$ [s]
DK	M	--	--	--	✓	--	I	--	--	--	7 ... 15	--	--		
DE	M	--	--	--	--	✓	I	--	--	--	8 ... 18	--	--		
EE	M	--	--	--	--	✓	I	--	--	--	8 ... 18	--	--		
DA	TM <sup>2)</sup>	✓	--	--	--	--	LI	1	--	--	9 ... 18 <sup>4)</sup>	--	--		
DD	TM <sup>2)</sup>	✓	--	--	--	--	LI	0.8 ... 1	--	--	9 ... 18 <sup>4)</sup>	--	--		
DC	TM <sup>2)</sup>	✓	--	--	--	--	LI	0.8 ... 1	--	--	5 ... 10	--	--		
EH	TM <sup>2)</sup>	✓	--	--	--	--	LI	1	--	--	9 ... 18 <sup>4)</sup>	--	--		
EJ	TM <sup>2)</sup>	✓	--	--	--	--	LI	0.8 ... 1	--	--	5 ... 10	--	--		
EA/EL	TM <sup>2)</sup>	✓	--	--	--	--	LIN	1	--	--	9 ... 18 <sup>4)</sup>	--	--		
EC	TM <sup>2)</sup>	✓	--	--	--	--	LIN	0.8 ... 1	--	--	5 ... 10	--	--		
EM	TM <sup>2)</sup>	✓	--	--	--	--	LIN	0.8 ... 1	--	--	5 ... 10	--	--		
SP	ETU10M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
MP	ETU10M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
SB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
MB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
LB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
TA	ETU10	✓	--	--	--	--	LIN	0.4 ... 1	--	--	1.25 ... 11	--	--		
NA	ETU10	✓	--	--	--	--	LIN	0.4 ... 1	--	--	1.25 ... 11	--	--		
LA	ETU10	✓	--	--	--	--	LIN	0.4 ... 1	--	--	1.25 ... 11	--	--		
TB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
NB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
SL	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3		
ML	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3		
SF	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3		
MF	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3		
TN	ETU12	✓	--	--	--	--	LING	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3		
NN	ETU12	✓	--	--	--	--	LING	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3		
SE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
ME	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
LE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
TE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
NE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
TF	ETU20	--	✓	--	--	--	LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
NF	ETU20	--	✓	--	--	--	LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
LF	ETU20	--	✓	--	--	--	LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
SG	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3		
MG	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3		
SH	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3		
MH	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3		
TH	ETU22	--	✓	--	--	--	LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3		
NH	ETU22	--	✓	--	--	--	LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3		
SS	ETU30M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--		
MS	ETU30M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--		
LS	ETU30M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--		
UP	LCD ETU40M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
UH	LCD ETU40	--	✓	--	--	--	LI, LS, LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--	--		
UJ	LCD ETU40	--	✓	--	--	--	LI, LSI, LIN, LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--	--		
UL	LCD ETU42	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5		
UM	LCD ETU42	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5		
UN	LCD ETU42	--	✓	--	--	--	LSIG, LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5		

✓ Function is available.

-- Function not available.

<sup>1)</sup> Size dependent.

<sup>2)</sup> TM up to  $I_n = 630$  A.

<sup>3)</sup> Motor protection up to  $I_n = 500$  A.

<sup>4)</sup> Non-adjustable.

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

General data

2

Article No. supplement	Releases	Thermal image	Phase failure	Communication-capable	Ground-fault protection	Number of poles	N pole protected <sup>1)</sup>	$I^2t$ (ON/OFF)	Trip class ( $t_c$ )	Time-lag class ( $t_R$ )	Thermal-magnetic overcurrent releases	Magnetic releases	Electronic Trip Unit	LCD display
DK	M	--	--	--	--	3	--	--	--	--	--	✓	--	--
DE	M	--	--	--	--	3	--	--	--	--	--	✓	--	--
EE	M	--	--	--	--	4	--	--	--	--	--	✓	--	--
DA	TM <sup>2)</sup>	✓	--	--	--	3	--	--	--	--	✓	--	--	--
DD	TM <sup>2)</sup>	✓	--	--	--	3	--	--	--	--	✓	--	--	--
DC	TM <sup>2)</sup>	✓	--	--	--	3	--	--	--	--	✓	--	--	--
EH	TM <sup>2)</sup>	✓	--	--	--	4	--	--	--	--	✓	--	--	--
EJ	TM <sup>2)</sup>	✓	--	--	--	4	--	--	--	--	✓	--	--	--
EA/EL	TM <sup>2)</sup>	✓	--	--	--	4	100 %	--	--	--	✓	--	--	--
EC	TM <sup>2)</sup>	✓	--	--	--	4	60 %	--	--	--	✓	--	--	--
EM	TM <sup>2)</sup>	✓	--	--	--	4	100 %	--	--	--	✓	--	--	--
SP	ETU10M <sup>3)</sup>	✓	40 % $I_R$	--	--	3	--	--	10	--	--	--	✓	--
MP	ETU10M <sup>3)</sup>	✓	40 % $I_R$	✓ <sup>4)</sup>	--	3	--	--	10	--	--	--	✓	--
SB	ETU10	✓	--	✓ <sup>4)</sup>	--	3	--	--	--	2.5 ... 30	--	--	✓	--
MB	ETU10	✓	--	✓ <sup>4)</sup>	--	3	--	--	--	2.5 ... 30	--	--	✓	--
LB	ETU10	✓	--	--	--	3	--	--	--	2.5 ... 30	--	--	✓	--
TA	ETU10	✓	--	--	--	4	50/100 %	--	--	2.5 ... 30	--	--	✓	--
NA	ETU10	✓	--	✓ <sup>4)</sup>	--	4	50/100 %	--	--	2.5 ... 30	--	--	✓	--
LA	ETU10	✓	--	--	--	4	50/100 %	--	--	2.5 ... 30	--	--	✓	--
TB	ETU10	✓	--	--	--	4	--	--	--	2.5 ... 30	--	--	✓	--
NB	ETU10	✓	--	✓ <sup>4)</sup>	--	4	--	--	--	2.5 ... 30	--	--	✓	--
SL	ETU12	✓	--	--	①	3	--	--	--	2.5 ... 30	--	--	✓	--
ML	ETU12	✓	--	✓ <sup>4)</sup>	①	3	--	--	--	2.5 ... 30	--	--	✓	--
SF	ETU12	✓	--	--	②	3	--	--	--	2.5 ... 30	--	--	✓	--
MF	ETU12	✓	--	✓ <sup>4)</sup>	②	3	--	--	--	2.5 ... 30	--	--	✓	--
TN	ETU12	✓	--	--	②	4	50/100 %	--	--	2.5 ... 30	--	--	✓	--
NN	ETU12	✓	--	✓ <sup>4)</sup>	②	4	50/100 %	--	--	2.5 ... 30	--	--	✓	--
SE	ETU20	✓	--	--	--	3	--	✓	--	--	--	--	✓	--
ME	ETU20	✓	--	✓ <sup>4)</sup>	--	3	--	✓	--	--	--	--	✓	--
LE	ETU20	✓	--	--	--	3	--	✓	--	--	--	--	✓	--
TE	ETU20	✓	--	--	--	4	--	✓	--	--	--	--	✓	--
NE	ETU20	✓	--	✓ <sup>4)</sup>	--	4	--	✓	--	--	--	--	✓	--
TF	ETU20	✓	--	--	--	4	50/100 %	✓	--	--	--	--	✓	--
NF	ETU20	✓	--	✓ <sup>4)</sup>	--	4	50/100 %	✓	--	--	--	--	✓	--
LF	ETU20	✓	--	--	--	4	50/100 %	✓	--	--	--	--	✓	--
SG	ETU22	✓	--	--	①	3	--	✓	--	--	--	--	✓	--
MG	ETU22	✓	--	✓ <sup>4)</sup>	①	3	--	✓	--	--	--	--	✓	--
SH	ETU22	✓	--	--	②	3	--	✓	--	--	--	--	✓	--
MH	ETU22	✓	--	✓ <sup>4)</sup>	②	3	--	✓	--	--	--	--	✓	--
TH	ETU22	✓	--	--	②	4	50/100 %	✓	--	--	--	--	✓	--
NH	ETU22	✓	--	✓ <sup>4)</sup>	②	4	50/100 %	✓	--	--	--	--	✓	--
SS	ETU30M <sup>3)</sup>	✓	40 % $I_R$	--	--	3	--	--	10, 20, 30	--	--	--	✓	--
MS	ETU30M <sup>3)</sup>	✓	40 % $I_R$	✓ <sup>4)</sup>	--	3	--	--	10, 20, 30	--	--	--	✓	--
LS	ETU30M <sup>3)</sup>	✓	40 % $I_R$	--	--	3	--	--	10, 20, 30	--	--	--	✓	--
UP	LCDETU40M <sup>3)</sup>	✓	5 ... 50 % $I_R$	✓ <sup>4)</sup>	--	3	--	--	5, 10, 15, 20, 30	--	--	--	✓	✓
UH	LCD ETU40	✓	--	✓ <sup>4)</sup>	--	3	--	✓	--	2.5 ... 30	--	--	✓	✓
UJ	LCD ETU40	✓	--	✓ <sup>4)</sup>	--	4	50 ... 100 %, OFF	✓	--	2.5 ... 30	--	--	✓	✓
UL	LCD ETU42	✓	--	✓ <sup>4)</sup>	①	3	--	✓	--	2.5 ... 30	--	--	✓	✓
UM	LCD ETU42	✓	--	✓ <sup>4)</sup>	①/③	3	--	✓	--	2.5 ... 30	--	--	✓	✓
UN	LCD ETU42	✓	--	✓ <sup>4)</sup>	②	4	50 ... 100 %, OFF	✓	--	2.5 ... 30	--	--	✓	✓

**Ground-fault protection**

- ① Vectorial summation current formation (3-conductor system)  
 ② Vectorial summation current formation (4-conductor system)  
 ③ Direct detection of ground-fault current in the neutral point of the transformer

✓ Function is available.

-- Function not available.

1) Size dependent.

2) TM up to  $I_n = 630$  A.3) Motor protection up to  $I_n = 500$  A.

4) With COM20/COM21.

## Molded Case Circuit Breakers

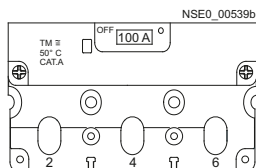
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

#### Selection and ordering data

Type	Rated current $I_n$	Current setting range of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	A	A		(N)	Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>					kg

3-pole, fixed-mounted, for line protection, 16 A to 160 A, thermal-magnetic overcurrent releases LI



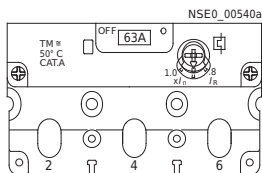
#### Line protection, TM, LI function

With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases

VL160X/3VL1	16	16	300	3VL1796-1DA3□-□□□□	1	1 unit	1CC	1,900
	20	20	300	3VL1702-1DA3□-□□□□	1	1 unit	1CC	1,900
	25	25	300	3VL1725-1DA3□-□□□□	1	1 unit	1CC	2,000
	32	32	300	3VL1703-1DA3□-□□□□	1	1 unit	1CC	2,000
	40	40	600	3VL1704-1DA3□-□□□□	1	1 unit	1CC	2,000
	50	50	600	3VL1705-1DA3□-□□□□	1	1 unit	1CC	2,000
	63	63	600	3VL1706-1DA3□-□□□□	1	1 unit	1CC	2,000
	80	80	1000	3VL1708-1DA3□-□□□□	1	1 unit	1CC	2,000
	100	100	1000	3VL1710-1DA3□-□□□□	1	1 unit	1CC	2,000
	125	125	1000	3VL1712-1DA3□-□□□□	1	1 unit	1CC	2,000
	160	160	1500	3VL1716-1DA3□-□□□□	1	1 unit	1CC	2,000

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with flat screw terminal not in conjunction with RCD module<sup>1)</sup> **6**



#### Line protection, TM, LI function

With adjustable thermal overcurrent releases, non-adjustable short-circuit releases

VL160X/3VL1	20	16 ... 20	300	3VL1702-1DD3□-□□□□	1	1 unit	1CC	1,900
	32	25 ... 32	300	3VL1703-1DD3□-□□□□	1	1 unit	1CC	2,000
	40	32 ... 40	600	3VL1704-1DD3□-□□□□	1	1 unit	1CC	2,000
	50	40 ... 50	600	3VL1705-1DD3□-□□□□	1	1 unit	1CC	2,000
	63	50 ... 63	600	3VL1706-1DD3□-□□□□	1	1 unit	1CC	2,000
	80	63 ... 80	1000	3VL1708-1DD3□-□□□□	1	1 unit	1CC	2,000
	100	80 ... 100	1000	3VL1710-1DD3□-□□□□	1	1 unit	1CC	2,000
	125	100 ... 125	1000	3VL1712-1DD3□-□□□□	1	1 unit	1CC	2,000
	160	125 ... 160	1500	3VL1716-1DD3□-□□□□	1	1 unit	1CC	2,000

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with flat screw terminal not in conjunction with RCD module<sup>1)</sup> **6**

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

**Molded Case Circuit Breakers**

## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H	(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L	(L)								
	Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg		Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg

3VL1796-2DA3□-□□□□	1	1 unit	1CC	1.900	--
3VL1702-2DA3□-□□□□	1	1 unit	1CC	1.900	--
3VL1725-2DA3□-□□□□	1	1 unit	1CC	2.000	--
3VL1703-2DA3□-□□□□	1	1 unit	1CC	2.000	--
3VL1704-2DA3□-□□□□	1	1 unit	1CC	2.000	--
3VL1705-2DA3□-□□□□	1	1 unit	1CC	2.000	--
3VL1706-2DA3□-□□□□	1	1 unit	1CC	2.000	--
3VL1708-2DA3□-□□□□	1	1 unit	1CC	2.000	--
3VL1710-2DA3□-□□□□	1	1 unit	1CC	2.000	--
3VL1712-2DA3□-□□□□	1	1 unit	1CC	2.000	--
3VL1716-2DA3□-□□□□	1	1 unit	1CC	2.000	--

3  
6

3VL1702-2DD3□-□□□□	1	1 unit	1CC	1.900	--
3VL1703-2DD3□-□□□□	1	1 unit	1CC	2.000	--
3VL1704-2DD3□-□□□□	1	1 unit	1CC	2.000	--
3VL1705-2DD3□-□□□□	1	1 unit	1CC	2.000	--
3VL1706-2DD3□-□□□□	1	1 unit	1CC	2.000	--
3VL1708-2DD3□-□□□□	1	1 unit	1CC	2.000	--
3VL1710-2DD3□-□□□□	1	1 unit	1CC	2.000	--
3VL1712-2DD3□-□□□□	1	1 unit	1CC	2.000	--
3VL1716-2DD3□-□□□□	1	1 unit	1CC	2.000	--

3  
6

## Molded Case Circuit Breakers

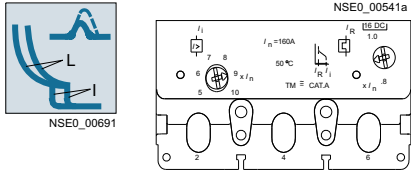
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".					
	A	A	A		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

#### 3-pole, fixed-mounted, for line protection, 50 A to 630 A, thermal-magnetic overcurrent releases LI



#### Line protection, TM, LI function

With adjustable thermal overcurrent releases, adjustable short-circuit releases

VL160/3VL2	50	40 ... 50	300 ... 600		3VL2705-1DC3□-□□□□	1	1 unit	1CC	2.200
	63	50 ... 63	300 ... 600		3VL2706-1DC3□-□□□□	1	1 unit	1CC	2.200
	80	63 ... 80	400 ... 800		3VL2708-1DC3□-□□□□	1	1 unit	1CC	2.200
	100	80 ... 100	500 ... 1000		3VL2710-1DC3□-□□□□	1	1 unit	1CC	2.200
	125	100 ... 125	625 ... 1250		3VL2712-1DC3□-□□□□	1	1 unit	1CC	2.200
	160	125 ... 160	800 ... 1600		3VL2716-1DC3□-□□□□	1	1 unit	1CC	2.200
VL250/3VL3	200	160 ... 200	1000 ... 2000		3VL3720-1DC3□-□□□□	1	1 unit	1CC	2.300
	250	200 ... 250	1250 ... 2500		3VL3725-1DC3□-□□□□	1	1 unit	1CC	2.300

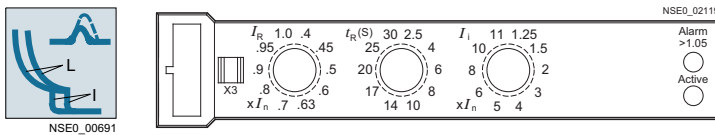
Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	200	160 ... 200	1000 ... 2000		3VL4720-1DC36-□□□□	1	1 unit	1CC	5.700
	250	200 ... 250	1250 ... 2500		3VL4725-1DC36-□□□□	1	1 unit	1CC	5.700
	315	250 ... 315	1575 ... 3150		3VL4731-1DC36-□□□□	1	1 unit	1CC	5.700
	400	320 ... 400	2000 ... 4000		3VL4740-1DC36-□□□□	1	1 unit	1CC	5.700
VL630/3VL5	315	250 ... 315	1575 ... 3150		3VL5731-1DC36-□□□□	1	1 unit	1CC	9.000
	400	320 ... 400	2000 ... 4000		3VL5740-1DC36-□□□□	1	1 unit	1CC	9.000
	500	400 ... 500	2500 ... 5000		3VL5750-1DC36-□□□□	1	1 unit	1CC	9.000
	630	500 ... 630	3150 ... 6300		3VL5763-1DC36-□□□□	1	1 unit	1CC	9.000

#### 3-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LI



#### ETU10, LI function

With adjustable overcurrent releases, adjustable short-circuit releases

VL160/3VL2	63	25 ... 63	1.25 ... 11 × $I_n$		3VL2706-1□□3□-□□□□	1	1 unit	1CC	2.400
	100	40 ... 100	1.25 ... 11 × $I_n$		3VL2710-1□□3□-□□□□	1	1 unit	1CC	2.400
	160	64 ... 160	1.25 ... 11 × $I_n$		3VL2716-1□□3□-□□□□	1	1 unit	1CC	2.400
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$		3VL3720-1□□3□-□□□□	1	1 unit	1CC	2.500
	250	100 ... 250	1.25 ... 11 × $I_n$		3VL3725-1□□3□-□□□□	1	1 unit	1CC	2.500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal<sup>1)</sup>

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VL400/3VL4	315	128 ... 315	1.25 ... 11 × $I_n$		3VL4731-1□□36-□□□□	1	1 unit	1CC	5.900
	400	160 ... 400	1.25 ... 11 × $I_n$		3VL4740-1□□36-□□□□	1	1 unit	1CC	5.900
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$		3VL5763-1□□36-□□□□	1	1 unit	1CC	9.300
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$		3VL6780-1□□36-□□□□	1	1 unit	1CC	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × $I_n$		3VL7710-1□□36-□□□□	1	1 unit	1CC	25.000
	1250	500 ... 1250	1.25 ... 11 × $I_n$		3VL7712-1□□36-□□□□	1	1 unit	1CC	25.000
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$		3VL8716-1□□30-□□□□	1	1 unit	1CC	31.300

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

SB  
MB  
LB

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/207.
- For more information, see chapter "Measuring Devices and Power Monitoring" and see chapter "Software".

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	<b>I<sub>cu</sub> up to 70 kA at 415 V, high breaking capacity H</b>						(H)	DT	<b>I<sub>cu</sub> up to 100 kA at 415 V, very high breaking capacity L</b>						(L)
	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg		

3VL2705-2DC3□-□□□□	1	1 unit	1CC	2.200			3VL2705-3DC3□-□□□□	1	1 unit	1CC	2.200		
3VL2706-2DC3□-□□□□	1	1 unit	1CC	2.200			3VL2706-3DC3□-□□□□	1	1 unit	1CC	2.200		
3VL2708-2DC3□-□□□□	1	1 unit	1CC	2.200			3VL2708-3DC3□-□□□□	1	1 unit	1CC	2.200		
3VL2710-2DC3□-□□□□	1	1 unit	1CC	2.200			3VL2710-3DC3□-□□□□	1	1 unit	1CC	2.200		
3VL2712-2DC3□-□□□□	1	1 unit	1CC	2.200			3VL2712-3DC3□-□□□□	1	1 unit	1CC	2.200		
3VL2716-2DC3□-□□□□	1	1 unit	1CC	2.200			3VL2716-3DC3□-□□□□	1	1 unit	1CC	2.200		
3VL3720-2DC3□-□□□□	1	1 unit	1CC	2.300			3VL3720-3DC3□-□□□□	1	1 unit	1CC	2.300		
3VL3725-2DC3□-□□□□	1	1 unit	1CC	2.300			3VL3725-3DC3□-□□□□	1	1 unit	1CC	2.300		

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3VL4720-2DC36-□□□□	1	1 unit	1CC	5.700			3VL4720-3DC36-□□□□	1	1 unit	1CC	5.700		
3VL4725-2DC36-□□□□	1	1 unit	1CC	5.700			3VL4725-3DC36-□□□□	1	1 unit	1CC	5.700		
3VL4731-2DC36-□□□□	1	1 unit	1CC	5.700			3VL4731-3DC36-□□□□	1	1 unit	1CC	5.700		
3VL4740-2DC36-□□□□	1	1 unit	1CC	5.700			3VL4740-3DC36-□□□□	1	1 unit	1CC	5.700		
3VL5731-2DC36-□□□□	1	1 unit	1CC	9.000			3VL5731-3DC36-□□□□	1	1 unit	1CC	9.000		
3VL5740-2DC36-□□□□	1	1 unit	1CC	9.000			3VL5740-3DC36-□□□□	1	1 unit	1CC	9.000		
3VL5750-2DC36-□□□□	1	1 unit	1CC	9.000			3VL5750-3DC36-□□□□	1	1 unit	1CC	9.000		
3VL5763-2DC36-□□□□	1	1 unit	1CC	9.000			3VL5763-3DC36-□□□□	1	1 unit	1CC	9.000		

3VL2706-2□□3□-□□□□	1	1 unit	1CC	2.400			3VL2706-3□□3□-□□□□	1	1 unit	1CC	2.400		
3VL2710-2□□3□-□□□□	1	1 unit	1CC	2.400			3VL2710-3□□3□-□□□□	1	1 unit	1CC	2.400		
3VL2716-2□□3□-□□□□	1	1 unit	1CC	2.400			3VL2716-3□□3□-□□□□	1	1 unit	1CC	2.400		
3VL3720-2□□3□-□□□□	1	1 unit	1CC	2.500			3VL3720-3□□3□-□□□□	1	1 unit	1CC	2.500		
3VL3725-2□□3□-□□□□	1	1 unit	1CC	2.500			3VL3725-3□□3□-□□□□	1	1 unit	1CC	2.500		

3  
6

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3VL4731-2□□36-□□□□	1	1 unit	1CC	5.900			3VL4731-3□□36-□□□□	1	1 unit	1CC	5.900		
3VL4740-2□□36-□□□□	1	1 unit	1CC	5.900			3VL4740-3□□36-□□□□	1	1 unit	1CC	5.900		
3VL5763-2□□36-□□□□	1	1 unit	1CC	9.300			3VL5763-3□□36-□□□□	1	1 unit	1CC	9.300		
3VL6780-2□□36-□□□□	1	1 unit	1CC	16.000			3VL6780-3□□36-□□□□	1	1 unit	1CC	16.000		
3VL7710-2□□36-□□□□	1	1 unit	1CC	25.000			3VL7710-3□□36-□□□□	1	1 unit	1CC	25.000		
3VL7712-2□□36-□□□□	1	1 unit	1CC	25.000			3VL7712-3□□36-□□□□	1	1 unit	1CC	25.000		
3VL8716-2□□30-□□□□	1	1 unit	1CC	31.300			3VL8716-3□□30-□□□□	1	1 unit	1CC	31.300		

SB  
MB  
LB

SB  
MB  
LB

# Molded Case Circuit Breakers

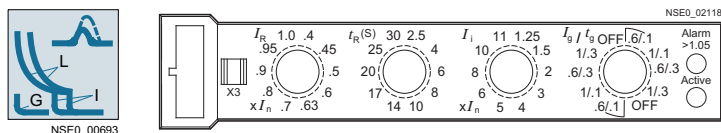
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	Ground-fault protection "G" $I_g$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".					(N)	
	A	A	A	A		Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	kg
						Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?ArticleNo">www.siemens.com/product?ArticleNo</a> .						

### 3-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LIG



#### ETU12, LIG function for 3-wire three-phase systems

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current formation, ground fault delay  $t_g = 0.1 \dots 0.3$  s, ground fault function (G) can be switched off.

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL2706-1□□3□-□□□□	1	1 unit	1CC	2.400
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL2710-1□□3□-□□□□	1	1 unit	1CC	2.400
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL2716-1□□3□-□□□□	1	1 unit	1CC	2.400
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL3720-1□□3□-□□□□	1	1 unit	1CC	2.500
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL3725-1□□3□-□□□□	1	1 unit	1CC	2.500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal<sup>1)</sup>

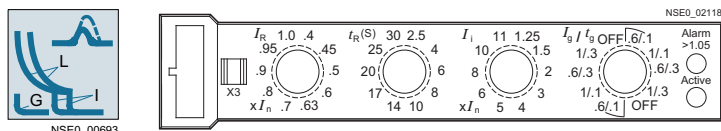
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VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL4731-1□□36-□□□□	1	1 unit	1CC	5.900
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL4740-1□□36-□□□□	1	1 unit	1CC	5.900
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL5763-1□□36-□□□□	1	1 unit	1CC	9.300
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL6780-1□□36-□□□□	1	1 unit	1CC	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL7710-1□□36-□□□□	1	1 unit	1CC	25.000
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL7712-1□□36-□□□□	1	1 unit	1CC	25.000
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL8716-1□□30-□□□□	1	1 unit	1CC	31.300

- Without communication preparation
- With communication preparation

SL  
ML

### 3-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LIG



#### ETU12, LIG function for 4-wire three-phase systems

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current formation, external current transformers required in addition, see page 2/206. Ground fault delay  $t_g = 0.1 \dots 0.3$  s, ground fault function (G) can be switched off.

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL2706-1□□3□-□□□□	1	1 unit	1CC	2.400
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL2710-1□□3□-□□□□	1	1 unit	1CC	2.400
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL2716-1□□3□-□□□□	1	1 unit	1CC	2.400
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL3720-1□□3□-□□□□	1	1 unit	1CC	2.500
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL3725-1□□3□-□□□□	1	1 unit	1CC	2.500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL4731-1□□36-□□□□	1	1 unit	1CC	5.900
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL4740-1□□36-□□□□	1	1 unit	1CC	5.900
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL5763-1□□36-□□□□	1	1 unit	1CC	9.300
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL6780-1□□36-□□□□	1	1 unit	1CC	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL7710-1□□36-□□□□	1	1 unit	1CC	25.000
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL7712-1□□36-□□□□	1	1 unit	1CC	25.000
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$ , OFF	3VL8716-1□□30-□□□□	1	1 unit	1CC	31.300

- Without communication preparation
- With communication preparation

SF  
MF

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT <b>I<sub>cu</sub> up to 70 kA at 415 V, high breaking capacity H</b> (H)						DT <b>I<sub>cu</sub> up to 100 kA at 415 V, very high breaking capacity L</b> (L)					
Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

3VL2706-2□□3□-□□□□		1	1 unit	1CC	2.400	3VL2706-3□□3□-□□□□		1	1 unit	1CC	2.400
3VL2710-2□□3□-□□□□		1	1 unit	1CC	2.400	3VL2710-3□□3□-□□□□		1	1 unit	1CC	2.400
3VL2716-2□□3□-□□□□		1	1 unit	1CC	2.400	3VL2716-3□□3□-□□□□		1	1 unit	1CC	2.400
3VL3720-2□□3□-□□□□		1	1 unit	1CC	2.500	3VL3720-3□□3□-□□□□		1	1 unit	1CC	2.500
3VL3725-2□□3□-□□□□		1	1 unit	1CC	2.500	3VL3725-3□□3□-□□□□		1	1 unit	1CC	2.500

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6

3VL4731-2□□36-□□□□		1	1 unit	1CC	5.900	3VL4731-3□□36-□□□□		1	1 unit	1CC	5.900
3VL4740-2□□36-□□□□		1	1 unit	1CC	5.900	3VL4740-3□□36-□□□□		1	1 unit	1CC	5.900
3VL5763-2□□36-□□□□		1	1 unit	1CC	9.300	3VL5763-3□□36-□□□□		1	1 unit	1CC	9.300
3VL6780-2□□36-□□□□		1	1 unit	1CC	16.000	3VL6780-3□□36-□□□□		1	1 unit	1CC	16.000
3VL7710-2□□36-□□□□		1	1 unit	1CC	25.000	3VL7710-3□□36-□□□□		1	1 unit	1CC	25.000
3VL7712-2□□36-□□□□		1	1 unit	1CC	25.000	3VL7712-3□□36-□□□□		1	1 unit	1CC	25.000
3VL8716-2□□30-□□□□		1	1 unit	1CC	31.300	3VL8716-3□□30-□□□□		1	1 unit	1CC	31.300

SL  
ML

SL  
ML

3VL2706-2□□3□-□□□□		1	1 unit	1CC	2.400	3VL2706-3□□3□-□□□□		1	1 unit	1CC	2.400
3VL2710-2□□3□-□□□□		1	1 unit	1CC	2.400	3VL2710-3□□3□-□□□□		1	1 unit	1CC	2.400
3VL2716-2□□3□-□□□□		1	1 unit	1CC	2.400	3VL2716-3□□3□-□□□□		1	1 unit	1CC	2.400
3VL3720-2□□3□-□□□□		1	1 unit	1CC	2.500	3VL3720-3□□3□-□□□□		1	1 unit	1CC	2.500
3VL3725-2□□3□-□□□□		1	1 unit	1CC	2.500	3VL3725-3□□3□-□□□□		1	1 unit	1CC	2.500

3  
6

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6

3VL4731-2□□36-□□□□		1	1 unit	1CC	5.900	3VL4731-3□□36-□□□□		1	1 unit	1CC	5.900
3VL4740-2□□36-□□□□		1	1 unit	1CC	5.900	3VL4740-3□□36-□□□□		1	1 unit	1CC	5.900
3VL5763-2□□36-□□□□		1	1 unit	1CC	9.300	3VL5763-3□□36-□□□□		1	1 unit	1CC	9.300
3VL6780-2□□36-□□□□		1	1 unit	1CC	16.000	3VL6780-3□□36-□□□□		1	1 unit	1CC	16.000
3VL7710-2□□36-□□□□		1	1 unit	1CC	25.000	3VL7710-3□□36-□□□□		1	1 unit	1CC	25.000
3VL7712-2□□36-□□□□		1	1 unit	1CC	25.000	3VL7712-3□□36-□□□□		1	1 unit	1CC	25.000
3VL8716-2□□30-□□□□		1	1 unit	1CC	31.300	3VL8716-3□□30-□□□□		1	1 unit	1CC	31.300

SF  
MF

SF  
MF

Communication:

- For accessories, see page 2/207.

- For more information, see chapter "Measuring Devices and Power Monitoring" and see chapter "Software".

\* You can order this quantity or a multiple thereof.

## Molded Case Circuit Breakers

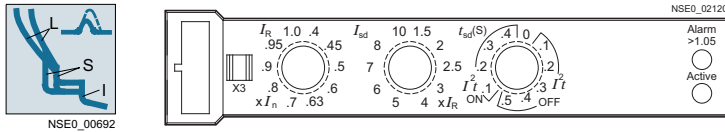
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	S function short-circuit protection (short-time delayed) $S$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".	(N)				
	A	A	A	A		Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

#### 3-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSI



#### ETU20, LSI function for time-based discrimination

With adjustable overcurrent releases, non-adjustable short-circuit releases, short-circuit delay ( $t_{sd} = 0$  to 0.5 s)

VL160/3VL2	63	0.4 ... 1,0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	3VL2706-1□□3□-□□□□	1	1 unit	1CC	2.400
	100	0.4 ... 1,0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	3VL2710-1□□3□-□□□□	1	1 unit	1CC	2.400
	160	0.4 ... 1,0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	3VL2716-1□□3□-□□□□	1	1 unit	1CC	2.400
VL250/3VL3	200	0.4 ... 1,0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	3VL3720-1□□3□-□□□□	1	1 unit	1CC	2.500
	250	0.4 ... 1,0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	3VL3725-1□□3□-□□□□	1	1 unit	1CC	2.500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with screw terminal<sup>1)</sup> **6**

VL400/3VL4	315	0.4 ... 1,0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	3VL4731-1□□36-□□□□	1	1 unit	1CC	5.900
	400	0.4 ... 1,0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	3VL4740-1□□36-□□□□	1	1 unit	1CC	5.900
VL630/3VL5	630	0.4 ... 1,0 × $I_n$	10 × $I_n$	1.5 ... 9 × $I_R$	3VL5763-1□□36-□□□□	1	1 unit	1CC	9.300
VL800/3VL6	800	0.4 ... 1,0 × $I_n$	8 × $I_n$	1.5 ... 7 × $I_R$	3VL6780-1□□36-□□□□	1	1 unit	1CC	16.000
VL1250/3VL7	1000	0.4 ... 1,0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	3VL7710-1□□36-□□□□	1	1 unit	1CC	25.000
	1250	0.4 ... 1,0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	3VL7712-1□□36-□□□□	1	1 unit	1CC	25.000
VL1600/3VL8 <sup>2)</sup>	1600	0.4 ... 1,0 × $I_n$	9 × $I_n$	1.5 ... 8 × $I_R$	3VL8716-1□□30-□□□□	1	1 unit	1CC	31.300

- Without communication preparation **SE**
- With communication preparation **ME**
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready) **LE**

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/207.
- For more information, see chapter "Measuring Devices and Power Monitoring" and see chapter "Software".

**Molded Case Circuit Breakers**

## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H	(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L	(L)						
Article No.	Price	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	Article No.	Price	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>						Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>					

3VL2706-2□□3□-□□□□	1	1 unit	1CC	2.400	3VL2706-3□□3□-□□□□	1	1 unit	1CC	2.400
3VL2710-2□□3□-□□□□	1	1 unit	1CC	2.400	3VL2710-3□□3□-□□□□	1	1 unit	1CC	2.400
3VL2716-2□□3□-□□□□	1	1 unit	1CC	2.400	3VL2716-3□□3□-□□□□	1	1 unit	1CC	2.400
3VL3720-2□□3□-□□□□	1	1 unit	1CC	2.500	3VL3720-3□□3□-□□□□	1	1 unit	1CC	2.500
3VL3725-2□□3□-□□□□	1	1 unit	1CC	2.500	3VL3725-3□□3□-□□□□	1	1 unit	1CC	2.500

3  
63  
6

3VL4731-2□□36-□□□□	1	1 unit	1CC	5.900	3VL4731-3□□36-□□□□	1	1 unit	1CC	5.900
3VL4740-2□□36-□□□□	1	1 unit	1CC	5.900	3VL4740-3□□36-□□□□	1	1 unit	1CC	5.900
3VL5763-2□□36-□□□□	1	1 unit	1CC	9.300	3VL5763-3□□36-□□□□	1	1 unit	1CC	9.300
3VL6780-2□□36-□□□□	1	1 unit	1CC	16.000	3VL6780-3□□36-□□□□	1	1 unit	1CC	16.000
3VL7710-2□□36-□□□□	1	1 unit	1CC	25.000	3VL7710-3□□36-□□□□	1	1 unit	1CC	25.000
3VL7712-2□□36-□□□□	1	1 unit	1CC	25.000	3VL7712-3□□36-□□□□	1	1 unit	1CC	25.000
3VL8716-2□□30-□□□□	1	1 unit	1CC	31.300	3VL8716-3□□30-□□□□	1	1 unit	1CC	31.300

SE  
ME  
LESE  
ME  
LE

## Molded Case Circuit Breakers

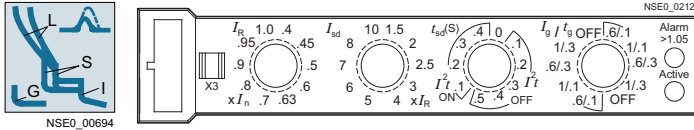
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_I$	S function short-circuit protection (short-time delayed) S	Ground-fault protection "G" $I_g$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".	(N)				
	A	A	A	A	A		Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
												kg

3-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSIG



#### ETU22, LSIG function for 3-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, non-adjustable short-circuit releases,

ground fault delay  $t_g = 0.1 \dots 0.3$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s, ground-fault protection (G) can be switched off

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL2706-1□□3□-□□□□</a>	1	1 unit	1CC	2,400
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL2710-1□□3□-□□□□</a>	1	1 unit	1CC	2,400
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL2716-1□□3□-□□□□</a>	1	1 unit	1CC	2,400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL3720-1□□3□-□□□□</a>	1	1 unit	1CC	2,500
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL3725-1□□3□-□□□□</a>	1	1 unit	1CC	2,500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL4731-1□□36-□□□□</a>	1	1 unit	1CC	5,900
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL4740-1□□36-□□□□</a>	1	1 unit	1CC	5,900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL5763-1□□36-□□□□</a>	1	1 unit	1CC	9,300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL6780-1□□36-□□□□</a>	1	1 unit	1CC	16,000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL7710-1□□36-□□□□</a>	1	1 unit	1CC	25,000
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL7712-1□□36-□□□□</a>	1	1 unit	1CC	25,000
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL8716-1□□30-□□□□</a>	1	1 unit	1CC	31,300

- Without communication preparation
- With communication preparation

SG  
MG

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/207.
- For more information, see chapter "Measuring Devices and Power Monitoring" and see chapter "Software".

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	<b><math>I_{cu}</math> up to 70 kA at 415 V, high breaking capacity H</b>	(H)	DT	<b><math>I_{cu}</math> up to 100 kA at 415 V, very high breaking capacity L</b>	(L)						
Article No.	Price	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.	Article No.	Price	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.
Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>					kg	Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>					kg

<a href="#">3VL2706-2□□3□-□□□□</a>	1	1 unit	1CC	2.400	<a href="#">3VL2706-3□□3□-□□□□</a>	1	1 unit	1CC	2.400
<a href="#">3VL2710-2□□3□-□□□□</a>	1	1 unit	1CC	2.400	<a href="#">3VL2710-3□□3□-□□□□</a>	1	1 unit	1CC	2.400
<a href="#">3VL2716-2□□3□-□□□□</a>	1	1 unit	1CC	2.400	<a href="#">3VL2716-3□□3□-□□□□</a>	1	1 unit	1CC	2.400
<a href="#">3VL3720-2□□3□-□□□□</a>	1	1 unit	1CC	2.500	<a href="#">3VL3720-3□□3□-□□□□</a>	1	1 unit	1CC	2.500
<a href="#">3VL3725-2□□3□-□□□□</a>	1	1 unit	1CC	2.500	<a href="#">3VL3725-3□□3□-□□□□</a>	1	1 unit	1CC	2.500

3  
6

3  
6

<a href="#">3VL4731-2□□36-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4731-3□□36-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL4740-2□□36-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4740-3□□36-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL5763-2□□36-□□□□</a>	1	1 unit	1CC	9.300	<a href="#">3VL5763-3□□36-□□□□</a>	1	1 unit	1CC	9.300
<a href="#">3VL6780-2□□36-□□□□</a>	1	1 unit	1CC	16.000	<a href="#">3VL6780-3□□36-□□□□</a>	1	1 unit	1CC	16.000
<a href="#">3VL7710-2□□36-□□□□</a>	1	1 unit	1CC	25.000	<a href="#">3VL7710-3□□36-□□□□</a>	1	1 unit	1CC	25.000
<a href="#">3VL7712-2□□36-□□□□</a>	1	1 unit	1CC	25.000	<a href="#">3VL7712-3□□36-□□□□</a>	1	1 unit	1CC	25.000
<a href="#">3VL8716-2□□30-□□□□</a>	1	1 unit	1CC	31.300	<a href="#">3VL8716-3□□30-□□□□</a>	1	1 unit	1CC	31.300

SG  
MG

SG  
MG

## Molded Case Circuit Breakers

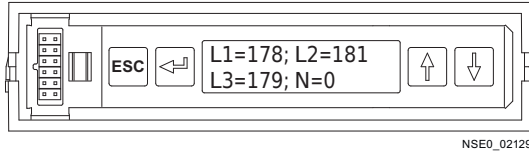
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	S function short-circuit protection (short-time delayed) $S$	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)			
	A	A	A	A	A	Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?ArticleNo">www.siemens.com/product?ArticleNo</a> .	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

#### 3-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSIG



#### LCD-ETU42, LSIG function for 3-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases  
Vectorial summation current formation, ground fault delay  $t_{fg} = 0.1 \dots 0.5$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s

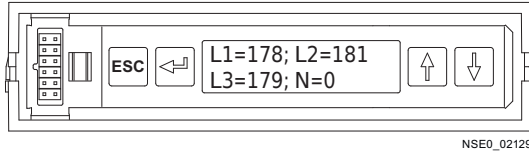
VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL2706-1UL30-0000</a>	1	1 unit	1CC	2.400
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL2710-1UL30-0000</a>	1	1 unit	1CC	2.400
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL2716-1UL30-0000</a>	1	1 unit	1CC	2.400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL3720-1UL30-0000</a>	1	1 unit	1CC	2.500
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL3725-1UL30-0000</a>	1	1 unit	1CC	2.500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL4731-1UL36-0000</a>	1	1 unit	1CC	5.900
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL4740-1UL36-0000</a>	1	1 unit	1CC	5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL5763-1UL36-0000</a>	1	1 unit	1CC	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL6780-1UL36-0000</a>	1	1 unit	1CC	16.000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL7710-1UL36-0000</a>	1	1 unit	1CC	25.000
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL7712-1UL36-0000</a>	1	1 unit	1CC	25.000
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL8716-1UL30-0000</a>	1	1 unit	1CC	31.300



#### LCD-ETU42, LSIG function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases. External current transformer required in addition, see page 2/206.  
Vectorial summation current formation, ground fault delay  $t_{fg} = 0.1 \dots 0.5$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL2706-1UM30-0000</a>	1	1 unit	1CC	2.400
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL2710-1UM30-0000</a>	1	1 unit	1CC	2.400
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL2716-1UM30-0000</a>	1	1 unit	1CC	2.400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL3720-1UM30-0000</a>	1	1 unit	1CC	2.500
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL3725-1UM30-0000</a>	1	1 unit	1CC	2.500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL4731-1UM36-0000</a>	1	1 unit	1CC	5.900
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL4740-1UM36-0000</a>	1	1 unit	1CC	5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL5763-1UM36-0000</a>	1	1 unit	1CC	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL6780-1UM36-0000</a>	1	1 unit	1CC	16.000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL7710-1UM36-0000</a>	1	1 unit	1CC	25.000
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL7712-1UM36-0000</a>	1	1 unit	1CC	25.000
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL8716-1UM30-0000</a>	1	1 unit	1CC	31.300

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT <b>I<sub>cu</sub> up to 70 kA at 415 V, high breaking capacity H</b> (H)						DT <b>I<sub>cu</sub> up to 100 kA at 415 V, very high breaking capacity L</b> (L)					
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.
Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>						Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					
kg						kg					

3VL2706-2UL3□-□□□□	1	1 unit	1CC	2.400	3VL2706-3UL3□-□□□□	1	1 unit	1CC	2.400
3VL2710-2UL3□-□□□□	1	1 unit	1CC	2.400	3VL2710-3UL3□-□□□□	1	1 unit	1CC	2.400
3VL2716-2UL3□-□□□□	1	1 unit	1CC	2.400	3VL2716-3UL3□-□□□□	1	1 unit	1CC	2.400
3VL3720-2UL3□-□□□□	1	1 unit	1CC	2.500	3VL3720-3UL3□-□□□□	1	1 unit	1CC	2.500
3VL3725-2UL3□-□□□□	1	1 unit	1CC	2.500	3VL3725-3UL3□-□□□□	1	1 unit	1CC	2.500

3  
6

3  
6

3VL4731-2UL36-□□□□	1	1 unit	1CC	5.900	3VL4731-3UL36-□□□□	1	1 unit	1CC	5.900
3VL4740-2UL36-□□□□	1	1 unit	1CC	5.900	3VL4740-3UL36-□□□□	1	1 unit	1CC	5.900
3VL5763-2UL36-□□□□	1	1 unit	1CC	9.300	3VL5763-3UL36-□□□□	1	1 unit	1CC	9.300
3VL6780-2UL36-□□□□	1	1 unit	1CC	16.000	3VL6780-3UL36-□□□□	1	1 unit	1CC	16.000
3VL7710-2UL36-□□□□	1	1 unit	1CC	25.000	3VL7710-3UL36-□□□□	1	1 unit	1CC	25.000
3VL7712-2UL36-□□□□	1	1 unit	1CC	25.000	3VL7712-3UL36-□□□□	1	1 unit	1CC	25.000
3VL8716-2UL30-□□□□	1	1 unit	1CC	31.300	3VL8716-3UL30-□□□□	1	1 unit	1CC	31.300

3VL2706-2UM3□-□□□□	1	1 unit	1CC	2.400	3VL2706-3UM3□-□□□□	1	1 unit	1CC	2.400
3VL2710-2UM3□-□□□□	1	1 unit	1CC	2.400	3VL2710-3UM3□-□□□□	1	1 unit	1CC	2.400
3VL2716-2UM3□-□□□□	1	1 unit	1CC	2.400	3VL2716-3UM3□-□□□□	1	1 unit	1CC	2.400
3VL3720-2UM3□-□□□□	1	1 unit	1CC	2.500	3VL3720-3UM3□-□□□□	1	1 unit	1CC	2.500
3VL3725-2UM3□-□□□□	1	1 unit	1CC	2.500	3VL3725-3UM3□-□□□□	1	1 unit	1CC	2.500

3  
6

3  
6

3VL4731-2UM36-□□□□	1	1 unit	1CC	5.900	3VL4731-3UM36-□□□□	1	1 unit	1CC	5.900
3VL4740-2UM36-□□□□	1	1 unit	1CC	5.900	3VL4740-3UM36-□□□□	1	1 unit	1CC	5.900
3VL5763-2UM36-□□□□	1	1 unit	1CC	9.300	3VL5763-3UM36-□□□□	1	1 unit	1CC	9.300
3VL6780-2UM36-□□□□	1	1 unit	1CC	16.000	3VL6780-3UM36-□□□□	1	1 unit	1CC	16.000
3VL7710-2UM36-□□□□	1	1 unit	1CC	25.000	3VL7710-3UM36-□□□□	1	1 unit	1CC	25.000
3VL7712-2UM36-□□□□	1	1 unit	1CC	25.000	3VL7712-3UM36-□□□□	1	1 unit	1CC	25.000
3VL8716-2UM30-□□□□	1	1 unit	1CC	31.300	3VL8716-3UM30-□□□□	1	1 unit	1CC	31.300

## Molded Case Circuit Breakers

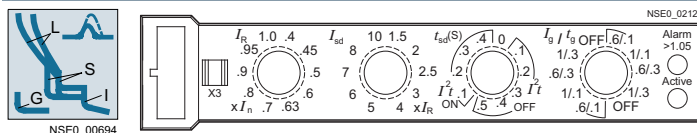
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)				
	A	A	A	A	A		Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

3-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSIG



#### ETU22, LSIG function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, non-adjustable short-circuit releases, external current transformers required in addition, see page 2/206. Ground fault delay  $t_g = 0.1 \dots 0.3$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s, ground-fault protection (G) can be switched off

VL160/3VL2	63	25 ... 63	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$	OFF	<a href="#">3VL2706-1□□3□-□□□□</a>	1	1 unit	1CC	2.400
	100	40 ... 100	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$	OFF	<a href="#">3VL2710-1□□3□-□□□□</a>	1	1 unit	1CC	2.400
	160	64 ... 160	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$	OFF	<a href="#">3VL2716-1□□3□-□□□□</a>	1	1 unit	1CC	2.400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$	OFF	<a href="#">3VL3720-1□□3□-□□□□</a>	1	1 unit	1CC	2.500
	250	100 ... 250	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$	OFF	<a href="#">3VL3725-1□□3□-□□□□</a>	1	1 unit	1CC	2.500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$	OFF	<a href="#">3VL4731-1□□36-□□□□</a>	1	1 unit	1CC	5.900
	400	160 ... 400	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$	OFF	<a href="#">3VL4740-1□□36-□□□□</a>	1	1 unit	1CC	5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	1.5 ... 9	$9 \times I_R$	0.6 ... 1	$1 \times I_n$	OFF	<a href="#">3VL5763-1□□36-□□□□</a>	1	1 unit	1CC	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	1.5 ... 7	$7 \times I_R$	0.6 ... 1	$1 \times I_n$	OFF	<a href="#">3VL6780-1□□36-□□□□</a>	1	1 unit	1CC	16.000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$	OFF	<a href="#">3VL7710-1□□36-□□□□</a>	1	1 unit	1CC	25.000
	1250	500 ... 1250	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$	OFF	<a href="#">3VL7712-1□□36-□□□□</a>	1	1 unit	1CC	25.000
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	$9 \times I_n$	1.5 ... 8	$8 \times I_R$	0.6 ... 1	$1 \times I_n$	OFF	<a href="#">3VL8716-1□□30-□□□□</a>	1	1 unit	1CC	31.300

- Without communication preparation
- With communication preparation

SH  
MH

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/207.
- For more information, see chapter "Measuring Devices and Power Monitoring" and see chapter "Software".

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	<b>I<sub>cu</sub> up to 70 kA at 415 V, high breaking capacity H</b>					(H)	DT	<b>I<sub>cu</sub> up to 100 kA at 415 V, very high breaking capacity L</b>					(L)		
	Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		
	www.siemens.com/product?Article No.						kg		www.siemens.com/product?Article No.						kg

B	3VL2706-2□□3□-□□□□		1	1 unit	1CC	2.400	B	3VL2706-3□□3□-□□□□		1	1 unit	1CC	2.400
B	3VL2710-2□□3□-□□□□		1	1 unit	1CC	2.400	B	3VL2710-3□□3□-□□□□		1	1 unit	1CC	2.400
B	3VL2716-2□□3□-□□□□		1	1 unit	1CC	2.400	B	3VL2716-3□□3□-□□□□		1	1 unit	1CC	2.400
B	3VL3720-2□□3□-□□□□		1	1 unit	1CC	2.500	B	3VL3720-3□□3□-□□□□		1	1 unit	1CC	2.500
B	3VL3725-2□□3□-□□□□		1	1 unit	1CC	2.500	B	3VL3725-3□□3□-□□□□		1	1 unit	1CC	2.500

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6

B	3VL4731-2□□36-□□□□		1	1 unit	1CC	5.900	B	3VL4731-3□□36-□□□□		1	1 unit	1CC	5.900
B	3VL4740-2□□36-□□□□		1	1 unit	1CC	5.900	B	3VL4740-3□□36-□□□□		1	1 unit	1CC	5.900
B	3VL5763-2□□36-□□□□		1	1 unit	1CC	9.300	B	3VL5763-3□□36-□□□□		1	1 unit	1CC	9.300
B	3VL6780-2□□36-□□□□		1	1 unit	1CC	16.000	B	3VL6780-3□□36-□□□□		1	1 unit	1CC	16.000
B	3VL7710-2□□36-□□□□		1	1 unit	1CC	25.000	B	3VL7710-3□□36-□□□□		1	1 unit	1CC	25.000
B	3VL7712-2□□36-□□□□		1	1 unit	1CC	25.000	B	3VL7712-3□□36-□□□□		1	1 unit	1CC	25.000
B	3VL8716-2□□30-□□□□		1	1 unit	1CC	31.300	B	3VL8716-3□□30-□□□□		1	1 unit	1CC	31.300

SH  
MH

SH  
MH

## Molded Case Circuit Breakers

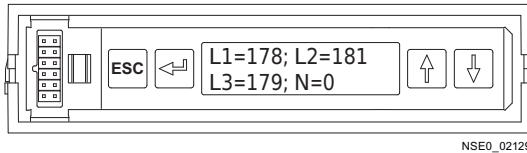
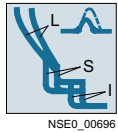
3VL Molded Case Circuit Breakers up to 1600 A, IEC

### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".				(N)	
	A	A	A	A	A	Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?ArticleNo.</a>	Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg

3-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LI, LS, LSI



#### LCD-ETU40, LI/LS/LSI function selectable

With adjustable overcurrent releases, adjustable short-circuit releases, short-circuit delay ( $t_{sd} = 0$  to 0.5 s)

VL160/3VL2	63	25 ... 63	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL2706-1UH3□-□□□□	1	1 unit	1CC	2.400
	100	40 ... 100	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL2710-1UH3□-□□□□	1	1 unit	1CC	2.400
	160	64 ... 160	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL2716-1UH3□-□□□□	1	1 unit	1CC	2.400
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL3720-1UH3□-□□□□	1	1 unit	1CC	2.500
	250	100 ... 250	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL3725-1UH3□-□□□□	1	1 unit	1CC	2.500

Connection type can be selected by assignment of the 12th position of the Article

- Connection with box terminal
- Connection with screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	315	128 ... 315	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL4731-1UH36-□□□□	1	1 unit	1CC	5.900
	400	160 ... 400	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL4740-1UH36-□□□□	1	1 unit	1CC	5.900
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	1.5 ... 9 × $I_R$	3VL5763-1UH36-□□□□	1	1 unit	1CC	9.300
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	1.5 ... 7 × $I_R$	3VL6780-1UH36-□□□□	1	1 unit	1CC	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL7710-1UH36-□□□□	1	1 unit	1CC	25.000
	1250	500 ... 1250	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL7712-1UH36-□□□□	1	1 unit	1CC	25.000
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	1.5 ... 8 × $I_R$	3VL8716-1UH30-□□□□	1	1 unit	1CC	31.300

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

**Molded Case Circuit Breakers**

## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>					
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<a href="#">3VL2706-2UH3□-□□□□</a>		1	1 unit	1CC	2.400	<a href="#">3VL2706-3UH3□-□□□□</a>		1	1 unit	1CC	2.400
<a href="#">3VL2710-2UH3□-□□□□</a>		1	1 unit	1CC	2.400	<a href="#">3VL2710-3UH3□-□□□□</a>		1	1 unit	1CC	2.400
<a href="#">3VL2716-2UH3□-□□□□</a>		1	1 unit	1CC	2.400	<a href="#">3VL2716-3UH3□-□□□□</a>		1	1 unit	1CC	2.400
<a href="#">3VL3720-2UH3□-□□□□</a>		1	1 unit	1CC	2.500	<a href="#">3VL3720-3UH3□-□□□□</a>		1	1 unit	1CC	2.500
<a href="#">3VL3725-2UH3□-□□□□</a>		1	1 unit	1CC	2.500	<a href="#">3VL3725-3UH3□-□□□□</a>		1	1 unit	1CC	2.500
<b>3</b> <b>6</b>						<b>3</b> <b>6</b>					
<a href="#">3VL4731-2UH36-□□□□</a>		1	1 unit	1CC	5.900	<a href="#">3VL4731-3UH36-□□□□</a>		1	1 unit	1CC	5.900
<a href="#">3VL4740-2UH36-□□□□</a>		1	1 unit	1CC	5.900	<a href="#">3VL4740-3UH36-□□□□</a>		1	1 unit	1CC	5.900
<a href="#">3VL5763-2UH36-□□□□</a>		1	1 unit	1CC	9.300	<a href="#">3VL5763-3UH36-□□□□</a>		1	1 unit	1CC	9.300
<a href="#">3VL6780-2UH36-□□□□</a>		1	1 unit	1CC	16.000	<a href="#">3VL6780-3UH36-□□□□</a>		1	1 unit	1CC	16.000
<a href="#">3VL7710-2UH36-□□□□</a>		1	1 unit	1CC	25.000	<a href="#">3VL7710-3UH36-□□□□</a>		1	1 unit	1CC	25.000
<a href="#">3VL7712-2UH36-□□□□</a>		1	1 unit	1CC	25.000	<a href="#">3VL7712-3UH36-□□□□</a>		1	1 unit	1CC	25.000
<a href="#">3VL8716-2UH30-□□□□</a>		1	1 unit	1CC	31.300	<a href="#">3VL8716-3UH30-□□□□</a>		1	1 unit	1CC	31.300

## Molded Case Circuit Breakers

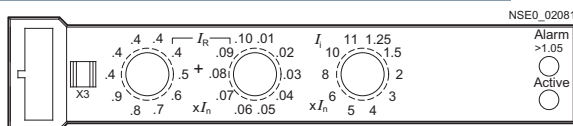
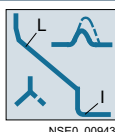
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_I$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".	(N)
	A	A	A		Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price PU (UNIT, SET, M) PS*/P. unit PG Weight per PU approx. kg

#### 3-pole, fixed-mounted, for motor protection, 63 A to 500 A, Electronic Trip Units LI



#### ETU10M, LI function<sup>1)</sup>

With thermal image, with non-adjustable trip class  $t_C = 10$ , with phase failure sensitivity 40 %  $I_R$

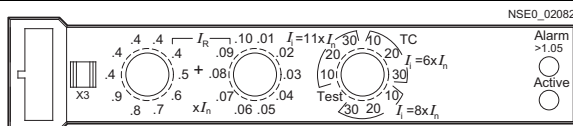
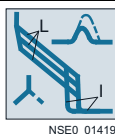
VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	3VL2706-1□□3□-□□□□	1	1 unit	1CC	2,400
	100	40 ... 100	1.25 ... $11 \times I_n$	3VL2710-1□□3□-□□□□	1	1 unit	1CC	2,400
	160	64 ... 160	1.25 ... $11 \times I_n$	3VL2716-1□□3□-□□□□	1	1 unit	1CC	2,400
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	3VL3720-1□□3□-□□□□	1	1 unit	1CC	2,500
	250	100 ... 250	1.25 ... $11 \times I_n$	3VL3725-1□□3□-□□□□	1	1 unit	1CC	2,500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with screw terminal<sup>2)</sup> **6**

VL400/3VL4	315	125 ... 315	1.25 ... $11 \times I_n$	3VL4731-1□□36-□□□□	1	1 unit	1CC	5,900
VL630/3VL5	500	200 ... 500	1.25 ... $12.5 \times I_n$	3VL5750-1□□36-□□□□	1	1 unit	1CC	9,300

- Without communication preparation **SP**
- With communication preparation **MP**



#### ETU30M, LI function<sup>1)</sup>

With thermal image, with adjustable trip class  $t_C = 10, 20, 30$ , with phase failure sensitivity 40 %  $I_R$

VL160/3VL2	63	25 ... 63	$6/8/11 \times I_n$	3VL2706-1□□3□-□□□□	1	1 unit	1CC	2,400
	100	40 ... 100	$6/8/11 \times I_n$	3VL2710-1□□3□-□□□□	1	1 unit	1CC	2,400
	160	64 ... 160	$6/8/11 \times I_n$	3VL2716-1□□3□-□□□□	1	1 unit	1CC	2,400
VL250/3VL3	200	80 ... 200	$6/8/11 \times I_n$	3VL3720-1□□3□-□□□□	1	1 unit	1CC	2,500
	250	100 ... 250	$6/8/11 \times I_n$	3VL3725-1□□3□-□□□□	1	1 unit	1CC	2,500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with screw terminal<sup>2)</sup> **6**

VL400/3VL4	315	125 ... 315	$6/8/11 \times I_n$	3VL4731-1□□36-□□□□	1	1 unit	1CC	5,900
VL630/3VL5	500	200 ... 500	$6/8/12.5 \times I_n$	3VL5750-1□□36-□□□□	1	1 unit	1CC	9,300

- Without communication preparation **SS**
- With communication preparation **MS**
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready) **LS**

Communication:

- For accessories, see page 2/207.
- For more information, see chapter "Measuring Devices and Power Monitoring" and see chapter "Software".

- 1) For use of 3VL molded case circuit breakers with an energy-efficient IE3 motor, you are advised to use a contactor for operational switching of the motor; see also page 2/13.
- 2) When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H	(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L	(L)						
Article No.	Price	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.	Article No.	Price	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.
<a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>						<a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					
kg						kg					

3VL2706-2□□3□-□□□□	1	1 unit	1CC	2.400	3VL2706-3□□3□-□□□□	1	1 unit	1CC	2.400
3VL2710-2□□3□-□□□□	1	1 unit	1CC	2.400	3VL2710-3□□3□-□□□□	1	1 unit	1CC	2.400
3VL2716-2□□3□-□□□□	1	1 unit	1CC	2.400	3VL2716-3□□3□-□□□□	1	1 unit	1CC	2.400
3VL3720-2□□3□-□□□□	1	1 unit	1CC	2.500	3VL3720-3□□3□-□□□□	1	1 unit	1CC	2.500
3VL3725-2□□3□-□□□□	1	1 unit	1CC	2.500	3VL3725-3□□3□-□□□□	1	1 unit	1CC	2.500

3  
6

3  
6

3VL4731-2□□36-□□□□	1	1 unit	1CC	5.900	3VL4731-3□□36-□□□□	1	1 unit	1CC	5.900
3VL5750-2□□36-□□□□	1	1 unit	1CC	9.300	3VL5750-3□□36-□□□□	1	1 unit	1CC	9.300

SP  
MP

SP  
MP

3VL2706-2□□3□-□□□□	1	1 unit	1CC	2.400	3VL2706-3□□3□-□□□□	1	1 unit	1CC	2.400
3VL2710-2□□3□-□□□□	1	1 unit	1CC	2.400	3VL2710-3□□3□-□□□□	1	1 unit	1CC	2.400
3VL2716-2□□3□-□□□□	1	1 unit	1CC	2.400	3VL2716-3□□3□-□□□□	1	1 unit	1CC	2.400
3VL3720-2□□3□-□□□□	1	1 unit	1CC	2.500	3VL3720-3□□3□-□□□□	1	1 unit	1CC	2.500
3VL3725-2□□3□-□□□□	1	1 unit	1CC	2.500	3VL3725-3□□3□-□□□□	1	1 unit	1CC	2.500

3  
6

3  
6

3VL4731-2□□36-□□□□	1	1 unit	1CC	5.900	3VL4731-3□□36-□□□□	1	1 unit	1CC	5.900
3VL5750-2□□36-□□□□	1	1 unit	1CC	9.300	3VL5750-3□□36-□□□□	1	1 unit	1CC	9.300

SS  
MS  
LS

SS  
MS  
LS

\* You can order this quantity or a multiple thereof.

## Molded Case Circuit Breakers

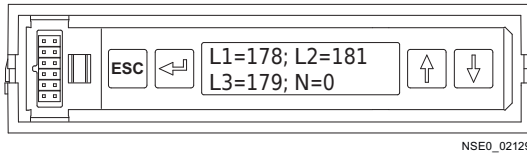
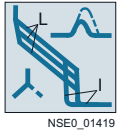
3VL Molded Case Circuit Breakers up to 1600 A, IEC

### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_I$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".	(N)				
	A	A	A		Article No. Article No. supplement, see page 2/172: <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?ArticleNo.</a>	Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg

#### 3-pole, fixed-mounted, for motor protection, 63 A to 500 A, Electronic Trip Units LI



#### LCD-ETU40M, LI function<sup>1)</sup>

With thermal image, with adjustable trip class  $t_C = 5, 10, 15, 20, 30$ , phase failure sensitivity adjustable in steps 5 ... 50 %  $I_R$

VL160/3VL2	63	25 ... 63	$1.25 \dots 11 \times I_n$	3VL2706-1UP3□-□□□□	1	1 unit	1CC	2.400
	100	40 ... 100	$1.25 \dots 11 \times I_n$	3VL2710-1UP3□-□□□□	1	1 unit	1CC	2.400
	160	64 ... 160	$1.25 \dots 11 \times I_n$	3VL2716-1UP3□-□□□□	1	1 unit	1CC	2.400
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	3VL3720-1UP3□-□□□□	1	1 unit	1CC	2.500
	250	100 ... 250	$1.25 \dots 11 \times I_n$	3VL3725-1UP3□-□□□□	1	1 unit	1CC	2.500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal<sup>2)</sup>

3  
6

VL400/3VL4	315	128 ... 315	$1.25 \dots 11 \times I_n$	3VL4731-1UP36-□□□□	1	1 unit	1CC	5.900
VL630/3VL5	500	250 ... 500	$1.25 \dots 12.5 \times I_n$	3VL5750-1UP36-□□□□	1	1 unit	1CC	9.300

<sup>1)</sup> For use of 3VL molded case circuit breakers with an energy-efficient IE3 motor, you are advised to use a contactor for operational switching of the motor; see also page 2/13.

<sup>2)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>					
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<a href="#">3VL2706-2UP3□-□□□□</a>		1	1 unit	1CC	2.400	<a href="#">3VL2706-3UP3□-□□□□</a>		1	1 unit	1CC	2.400
<a href="#">3VL2710-2UP3□-□□□□</a>		1	1 unit	1CC	2.400	<a href="#">3VL2710-3UP3□-□□□□</a>		1	1 unit	1CC	2.400
<a href="#">3VL2716-2UP3□-□□□□</a>		1	1 unit	1CC	2.400	<a href="#">3VL2716-3UP3□-□□□□</a>		1	1 unit	1CC	2.400
<a href="#">3VL3720-2UP3□-□□□□</a>		1	1 unit	1CC	2.500	<a href="#">3VL3720-3UP3□-□□□□</a>		1	1 unit	1CC	2.500
<a href="#">3VL3725-2UP3□-□□□□</a>		1	1 unit	1CC	2.500	<a href="#">3VL3725-3UP3□-□□□□</a>		1	1 unit	1CC	2.500
<b>3</b>						<b>3</b>					
<b>6</b>						<b>6</b>					
<a href="#">3VL4731-2UP36-□□□□</a>		1	1 unit	1CC	5.900	<a href="#">3VL4731-3UP36-□□□□</a>		1	1 unit	1CC	5.900
<a href="#">3VL5750-2UP36-□□□□</a>		1	1 unit	1CC	9.300	<a href="#">3VL5750-3UP36-□□□□</a>		1	1 unit	1CC	9.300

## Molded Case Circuit Breakers

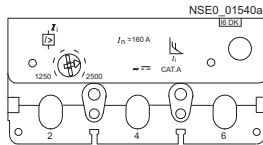
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 3-pole

2

Type	Rated current $I_n$	Operating current of the instantaneous short-circuit releases $I_i$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".	(N)				
	A			Article No. Article No. supplement, see page 2/172: <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

#### 3-pole, fixed-mounted, for starter protection, 63 A to 500 A, magnetic trip unit I



#### Starter protection, M, I function<sup>1)</sup>

Without thermal overcurrent release, with adjustable short-circuit release

VL160/3VL2	63	450 ... 900	3VL2706-1DK3□-□□□□	1	1 unit	1CC	2.200
	100	750 ... 1500	3VL2710-1DK3□-□□□□	1	1 unit	1CC	2.200
	160	1250 ... 2500	3VL2716-1DK3□-□□□□	1	1 unit	1CC	2.200
VL250/3VL3	250	1750 ... 3500	3VL3725-1DK3□-□□□□	1	1 unit	1CC	2.300

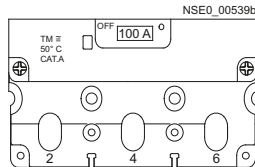
Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal<sup>2)</sup>

3  
6

VL400/3VL4	200	1250 ... 2500	3VL4720-1DK36-□□□□	1	1 unit	1CC	5.700
	250	2000 ... 4000	3VL4725-1DK36-□□□□	1	1 unit	1CC	5.700
	315	2000 ... 4000	3VL4731-1DK36-□□□□	1	1 unit	1CC	5.700
VL630/3VL5	315	2000 ... 4000	3VL5731-1DK36-□□□□	1	1 unit	1CC	9.000
	500	3250 ... 6300	3VL5750-1DK36-□□□□	1	1 unit	1CC	9.000

#### 3-pole, fixed-mounted, for safe disconnection, 100 A to 1600 A, magnetic trip unit I



#### Non-automatic molded case circuit breakers<sup>3)</sup>, I function

Without thermal overcurrent release, with non-adjustable short-circuit release (for intrinsic protection only)

VL160X/3VL1	100	1800	3VL1710-1DE3□-□□□□	1	1 unit	1CC	2.000
	160	1800	3VL1716-1DE3□-□□□□	1	1 unit	1CC	2.000
VL160/3VL2	100	2500	3VL2710-1DE3□-□□□□	1	1 unit	1CC	2.200
	160	2500	3VL2716-1DE3□-□□□□	1	1 unit	1CC	2.200
VL250/3VL3	250	3500	3VL3725-1DE3□-□□□□	1	1 unit	1CC	2.300

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal not in conjunction with RCD module at 3VL1<sup>2)</sup>

3  
6

VL400/3VL4	400	4000	3VL4740-1DE36-□□□□	1	1 unit	1CC	5.700
VL630/3VL5	630	6300	3VL5763-1DE36-□□□□	1	1 unit	1CC	9.000
VL800/3VL6	800	6500	3VL6780-1DE36-□□□□	1	1 unit	1CC	15.700
VL1250/3VL7	1250	12000	3VL7712-1DE36-□□□□	1	1 unit	1CC	23.500
VL1600/3VL8 <sup>4)</sup>	1600	14400	3VL8716-1DE30-□□□□	1	1 unit	1CC	29.800

For further versions, including for short-circuit and ground fault protection, see pages 2/128 to 2/144.

<sup>1)</sup> For use of 3VL molded case circuit breakers with an energy-efficient IE3 motor, you are advised to use a contactor for operational switching of the motor; see also page 2/122.

<sup>2)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>3)</sup> See chapter "Switch Disconnectors". 3K. switch disconnectors are also available with rear-mounting operating mechanism and leading contacts.

<sup>4)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

**Molded Case Circuit Breakers**

## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L					
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg
<a href="#">3VL2706-2DK3□-□□□□</a>		1	1 unit	1CC	2.200	<a href="#">3VL2706-3DK3□-□□□□</a>		1	1 unit	1CC	2.200
<a href="#">3VL2710-2DK3□-□□□□</a>		1	1 unit	1CC	2.200	<a href="#">3VL2710-3DK3□-□□□□</a>		1	1 unit	1CC	2.200
<a href="#">3VL2716-2DK3□-□□□□</a>		1	1 unit	1CC	2.200	<a href="#">3VL2716-3DK3□-□□□□</a>		1	1 unit	1CC	2.200
<a href="#">3VL3725-2DK3□-□□□□</a>		1	1 unit	1CC	2.300	<a href="#">3VL3725-3DK3□-□□□□</a>		1	1 unit	1CC	2.300
<b>3</b>						<b>3</b>					
<b>6</b>						<b>6</b>					
<a href="#">3VL4720-2DK36-□□□□</a>		1	1 unit	1CC	5.700	<a href="#">3VL4720-3DK36-□□□□</a>		1	1 unit	1CC	5.700
<a href="#">3VL4725-2DK36-□□□□</a>		1	1 unit	1CC	5.700	<a href="#">3VL4725-3DK36-□□□□</a>		1	1 unit	1CC	5.700
<a href="#">3VL4731-2DK36-□□□□</a>		1	1 unit	1CC	5.700	<a href="#">3VL4731-3DK36-□□□□</a>		1	1 unit	1CC	5.700
<a href="#">3VL5731-2DK36-□□□□</a>		1	1 unit	1CC	9.000	<a href="#">3VL5731-3DK36-□□□□</a>		1	1 unit	1CC	9.000
<a href="#">3VL5750-2DK36-□□□□</a>		1	1 unit	1CC	9.000	<a href="#">3VL5750-3DK36-□□□□</a>		1	1 unit	1CC	9.000
<a href="#">3VL1710-2DE3□-□□□□</a>		1	1 unit	1CC	2.000	--					
<a href="#">3VL1716-2DE3□-□□□□</a>		1	1 unit	1CC	2.000	--					
<a href="#">3VL2710-2DE3□-□□□□</a>		1	1 unit	1CC	2.200	<a href="#">3VL2710-3DE3□-□□□□</a>		1	1 unit	1CC	2.200
<a href="#">3VL2716-2DE3□-□□□□</a>		1	1 unit	1CC	2.200	<a href="#">3VL2716-3DE3□-□□□□</a>		1	1 unit	1CC	2.200
<a href="#">3VL3725-2DE3□-□□□□</a>		1	1 unit	1CC	2.300	<a href="#">3VL3725-3DE3□-□□□□</a>		1	1 unit	1CC	2.300
<b>3</b>						<b>3</b>					
<b>6</b>						<b>6</b>					
<a href="#">3VL4740-2DE36-□□□□</a>		1	1 unit	1CC	5.700	<a href="#">3VL4740-3DE36-□□□□</a>		1	1 unit	1CC	5.700
<a href="#">3VL5763-2DE36-□□□□</a>		1	1 unit	1CC	9.000	<a href="#">3VL5763-3DE36-□□□□</a>		1	1 unit	1CC	9.000
<a href="#">3VL6780-2DE36-□□□□</a>		1	1 unit	1CC	15.700	<a href="#">3VL6780-3DE36-□□□□</a>		1	1 unit	1CC	15.700
<a href="#">3VL7712-2DE36-□□□□</a>		1	1 unit	1CC	23.500	<a href="#">3VL7712-3DE36-□□□□</a>		1	1 unit	1CC	23.500
<a href="#">3VL8716-2DE30-□□□□</a>		1	1 unit	1CC	29.800	<a href="#">3VL8716-3DE30-□□□□</a>		1	1 unit	1CC	29.800

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### 3-pole

2

Article No. supplement (for complete Article No., see pages 2/128 to 2/144) <b>3VL.7</b> ... □□3-...	Breaking capacity	Type <b>VL160<sup>1)</sup></b> 3VL2	<b>VL250<sup>1)</sup></b> 3VL3		<b>VL400</b> 3VL4		<b>VL630</b> 3VL5		<b>VL800</b> 3VL6		<b>VL1250</b> 3VL7		<b>VL1600</b> 3VL8			
			Rated current $I_n$													
			63 A	100 A	160 A	200 A	250 A	315 A	400 A	500 A	630 A	800 A	1000 A	1250 A	1600 A	
ETU10	<b>SB</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU10	<b>MB</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU10	<b>LB</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU12	<b>SL</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU12	<b>ML</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU12	<b>SF</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU12	<b>MF</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU20	<b>SE</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU20	<b>ME</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU20	<b>LE</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU22	<b>SG</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU22	<b>MG</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU42	<b>UL</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU42	<b>UM</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU22	<b>SH</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU22	<b>MH</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU40	<b>UH</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

✓ Available

-- Not available

<sup>1)</sup> The basic price is reduced when the molded case circuit breaker is ordered with a flat screw terminal ".36-".

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Article No. supplement (for complete Article No. see pages 2/128 to 2/144) <b>3VL.7 .. - .□□3-....</b> Trip unit	Breaking capacity	Type	VL160 <sup>1)</sup>		VL250 <sup>1)</sup>		VL400		VL630		VL800		VL1250		VL1600	
		3VL2	3VL3		3VL4		3VL5		3VL6		3VL7		3VL8			
		Rated current $I_n$														
		63 A	100 A	160 A	200 A	250 A	315 A	400 A	500 A	630 A	800 A	1000 A	1250 A	1600 A	Price	
ETU10M	SP	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10M	MP	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU30M	SS	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU30M	MS	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU30M	LS	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU40M	UP	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ Available

-- Not available

1) The basic price is reduced when the molded case circuit breaker is ordered with a flat screw terminal ".36-".

# Molded Case Circuit Breakers

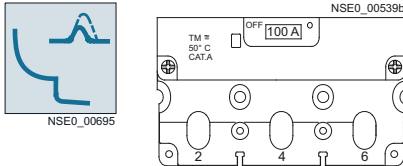
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

### Selection and ordering data

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".					
	A	A	A		Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg

#### 4-pole, fixed-mounted, for line protection, 16 A to 630 A, thermal-magnetic overcurrent releases LI



#### Line protection, TM, LI function

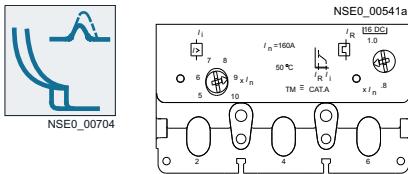
With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases, without overcurrent and short-circuit release in the 4th pole (N)

VL160X/3VL1	16	16	300	3VL1796-1EH4□-□□□□	1	1 unit	1CC	2.300
	20	20	300	3VL1702-1EH4□-□□□□	1	1 unit	1CC	2.300
	25	25	300	3VL1725-1EH4□-□□□□	1	1 unit	1CC	2.500
	32	32	300	3VL1703-1EH4□-□□□□	1	1 unit	1CC	2.500
	40	40	600	3VL1704-1EH4□-□□□□	1	1 unit	1CC	2.500
	50	50	600	3VL1705-1EH4□-□□□□	1	1 unit	1CC	2.500
	63	63	600	3VL1706-1EH4□-□□□□	1	1 unit	1CC	2.500
	80	80	1000	3VL1708-1EH4□-□□□□	1	1 unit	1CC	2.500
	100	100	1000	3VL1710-1EH4□-□□□□	1	1 unit	1CC	2.500
	125	125	1000	3VL1712-1EH4□-□□□□	1	1 unit	1CC	2.500
	160	160	1500	3VL1716-1EH4□-□□□□	1	1 unit	1CC	2.500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal not in conjunction with RCD module<sup>1)</sup>

3  
6



#### Line protection, TM, LI function

With adjustable thermal overcurrent releases, adjustable short-circuit releases, without overcurrent and short-circuit release in the 4th pole (N)

VL160/3VL2	50	40 ... 50	300 ... 600	3VL2705-1EJ4□-□□□□	1	1 unit	1CC	3.000
	63	50 ... 63	300 ... 600	3VL2706-1EJ4□-□□□□	1	1 unit	1CC	3.000
	80	63 ... 80	400 ... 800	3VL2708-1EJ4□-□□□□	1	1 unit	1CC	3.000
	100	80 ... 100	500 ... 1000	3VL2710-1EJ4□-□□□□	1	1 unit	1CC	3.000
	125	100 ... 125	625 ... 1250	3VL2712-1EJ4□-□□□□	1	1 unit	1CC	3.000
	160	125 ... 160	800 ... 1600	3VL2716-1EJ4□-□□□□	1	1 unit	1CC	3.000
VL250/3VL3	200	160 ... 200	1000 ... 2000	3VL3720-1EJ4□-□□□□	1	1 unit	1CC	3.200
	250	200 ... 250	1250 ... 2500	3VL3725-1EJ4□-□□□□	1	1 unit	1CC	3.200

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	200	160 ... 200	1000 ... 2000	3VL4720-1EJ46-□□□□	1	1 unit	1CC	7.400
	250	200 ... 250	1250 ... 2500	3VL4725-1EJ46-□□□□	1	1 unit	1CC	7.400
	315	250 ... 315	1575 ... 3150	3VL4731-1EJ46-□□□□	1	1 unit	1CC	7.400
	400	320 ... 400	2000 ... 4000	3VL4740-1EJ46-□□□□	1	1 unit	1CC	7.400
VL630/3VL5	315	250 ... 315	1575 ... 3150	3VL5731-1EJ46-□□□□	1	1 unit	1CC	11.200
	400	320 ... 400	2000 ... 4000	3VL5740-1EJ46-□□□□	1	1 unit	1CC	11.200
	500	400 ... 500	2500 ... 5000	3VL5750-1EJ46-□□□□	1	1 unit	1CC	11.200
	630	500 ... 630	3150 ... 6300	3VL5763-1EJ46-□□□□	1	1 unit	1CC	11.200

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

**Molded Case Circuit Breakers**

## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT	<b><math>I_{cu}</math> up to 70 kA at 415 V, high breaking capacity H</b>					(H)	DT	<b><math>I_{cu}</math> up to 100 kA at 415 V, very high breaking capacity L</b>					(L)
	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					kg		Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					kg

<a href="#">3VL1796-2EH4□-□□□□</a>	1	1 unit	1CC	2,300	--
<a href="#">3VL1702-2EH4□-□□□□</a>	1	1 unit	1CC	2,300	--
<a href="#">3VL1725-2EH4□-□□□□</a>	1	1 unit	1CC	2,500	--
<a href="#">3VL1703-2EH4□-□□□□</a>	1	1 unit	1CC	2,500	--
<a href="#">3VL1704-2EH4□-□□□□</a>	1	1 unit	1CC	2,500	--
<a href="#">3VL1705-2EH4□-□□□□</a>	1	1 unit	1CC	2,500	--
<a href="#">3VL1706-2EH4□-□□□□</a>	1	1 unit	1CC	2,500	--
<a href="#">3VL1708-2EH4□-□□□□</a>	1	1 unit	1CC	2,500	--
<a href="#">3VL1710-2EH4□-□□□□</a>	1	1 unit	1CC	2,500	--
<a href="#">3VL1712-2EH4□-□□□□</a>	1	1 unit	1CC	2,500	--
<a href="#">3VL1716-2EH4□-□□□□</a>	1	1 unit	1CC	2,500	--

3  
6

<a href="#">3VL2705-2EJ4□-□□□□</a>	1	1 unit	1CC	3,000	<a href="#">3VL2705-3EJ4□-□□□□</a>	1	1 unit	1CC	3,000
<a href="#">3VL2706-2EJ4□-□□□□</a>	1	1 unit	1CC	3,000	<a href="#">3VL2706-3EJ4□-□□□□</a>	1	1 unit	1CC	3,000
<a href="#">3VL2708-2EJ4□-□□□□</a>	1	1 unit	1CC	3,000	<a href="#">3VL2708-3EJ4□-□□□□</a>	1	1 unit	1CC	3,000
<a href="#">3VL2710-2EJ4□-□□□□</a>	1	1 unit	1CC	3,000	<a href="#">3VL2710-3EJ4□-□□□□</a>	1	1 unit	1CC	3,000
<a href="#">3VL2712-2EJ4□-□□□□</a>	1	1 unit	1CC	3,000	<a href="#">3VL2712-3EJ4□-□□□□</a>	1	1 unit	1CC	3,000
<a href="#">3VL2716-2EJ4□-□□□□</a>	1	1 unit	1CC	3,000	<a href="#">3VL2716-3EJ4□-□□□□</a>	1	1 unit	1CC	3,000
<a href="#">3VL3720-2EJ4□-□□□□</a>	1	1 unit	1CC	3,200	<a href="#">3VL3720-3EJ4□-□□□□</a>	1	1 unit	1CC	3,200
<a href="#">3VL3725-2EJ4□-□□□□</a>	1	1 unit	1CC	3,200	<a href="#">3VL3725-3EJ4□-□□□□</a>	1	1 unit	1CC	3,200

3  
63  
6

<a href="#">3VL4720-2EJ46-□□□□</a>	1	1 unit	1CC	7,400	<a href="#">3VL4720-3EJ46-□□□□</a>	1	1 unit	1CC	7,400
<a href="#">3VL4725-2EJ46-□□□□</a>	1	1 unit	1CC	7,400	<a href="#">3VL4725-3EJ46-□□□□</a>	1	1 unit	1CC	7,400
<a href="#">3VL4731-2EJ46-□□□□</a>	1	1 unit	1CC	7,400	<a href="#">3VL4731-3EJ46-□□□□</a>	1	1 unit	1CC	7,400
<a href="#">3VL4740-2EJ46-□□□□</a>	1	1 unit	1CC	7,400	<a href="#">3VL4740-3EJ46-□□□□</a>	1	1 unit	1CC	7,400
<a href="#">3VL5731-2EJ46-□□□□</a>	1	1 unit	1CC	11,200	<a href="#">3VL5731-3EJ46-□□□□</a>	1	1 unit	1CC	11,200
<a href="#">3VL5740-2EJ46-□□□□</a>	1	1 unit	1CC	11,200	<a href="#">3VL5740-3EJ46-□□□□</a>	1	1 unit	1CC	11,200
<a href="#">3VL5750-2EJ46-□□□□</a>	1	1 unit	1CC	11,200	<a href="#">3VL5750-3EJ46-□□□□</a>	1	1 unit	1CC	11,200
<a href="#">3VL5763-2EJ46-□□□□</a>	1	1 unit	1CC	11,200	<a href="#">3VL5763-3EJ46-□□□□</a>	1	1 unit	1CC	11,200

## Molded Case Circuit Breakers

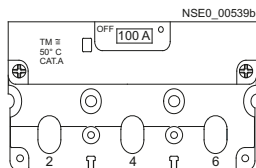
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 4-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".					(N)	
	A	A	A		Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	kg

#### 4-pole, fixed-mounted, for line protection, 16 A to 160 A, thermal-magnetic overcurrent releases LIN



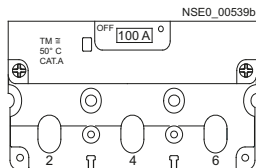
#### Line protection, TM, LIN function

With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases, with "N" overcurrent and short-circuit release  
N protection = 100 %

VL160X/3VL1	$I_n$	$I_R$	$I_i$	Article No.	PU	PS*/P. unit	PG	Weight per PU approx.
	16	16	300	3VL1796-1EA4□-□□□□	1	1 unit	1CC	2.300
	20	20	300	3VL1702-1EA4□-□□□□	1	1 unit	1CC	2.300
	25	25	300	3VL1725-1EA4□-□□□□	1	1 unit	1CC	2.500
	32	32	300	3VL1703-1EA4□-□□□□	1	1 unit	1CC	2.500
	40	40	600	3VL1704-1EA4□-□□□□	1	1 unit	1CC	2.500
	50	50	600	3VL1705-1EA4□-□□□□	1	1 unit	1CC	2.500
	63	63	600	3VL1706-1EA4□-□□□□	1	1 unit	1CC	2.500
	80	80	1000	3VL1708-1EA4□-□□□□	1	1 unit	1CC	2.500
	100	100	1000	3VL1710-1EA4□-□□□□	1	1 unit	1CC	2.500
	125	125	1000	3VL1712-1EA4□-□□□□	1	1 unit	1CC	2.500
	160	160	1500	3VL1716-1EL4□-□□□□	1	1 unit	1CC	2.500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module<sup>1)</sup> **6**



#### Line protection, TM, LIN function

With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases, with "N" overcurrent and short-circuit release  
N protection = 60 %

VL160X/3VL1	$I_n$	$I_R$	$I_i$	Article No.	PU	PS*/P. unit	PG	Weight per PU approx.
	125	125	1000	3VL1712-1EA4□-□□□□	1	1 unit	1CC	2.500
	160	160	1500	3VL1716-1EA4□-□□□□	1	1 unit	1CC	2.500

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module<sup>1)</sup> **6**

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

**Molded Case Circuit Breakers**

## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT	<b><math>I_{cu}</math> up to 70 kA at 415 V, high breaking capacity H</b>						(H)	DT	<b><math>I_{cu}</math> up to 100 kA at 415 V, very high breaking capacity L</b>						(L)
	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		
	Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>					kg		Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>					kg		

3VL1796-2EA4□-□□□□	1	1 unit	1CC	2.300	--
3VL1702-2EA4□-□□□□	1	1 unit	1CC	2.300	--
3VL1725-2EA4□-□□□□	1	1 unit	1CC	2.500	--
3VL1703-2EA4□-□□□□	1	1 unit	1CC	2.500	--
3VL1704-2EA4□-□□□□	1	1 unit	1CC	2.500	--
3VL1705-2EA4□-□□□□	1	1 unit	1CC	2.500	--
3VL1706-2EA4□-□□□□	1	1 unit	1CC	2.500	--
3VL1708-2EA4□-□□□□	1	1 unit	1CC	2.500	--
3VL1710-2EA4□-□□□□	1	1 unit	1CC	2.500	--
3VL1712-2EL4□-□□□□	1	1 unit	1CC	2.500	--
3VL1716-2EL4□-□□□□	1	1 unit	1CC	2.500	--

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6

3VL1712-2EA4□-□□□□	1	1 unit	1CC	2.500	--
3VL1716-2EA4□-□□□□	1	1 unit	1CC	2.500	--

3  
6

# Molded Case Circuit Breakers

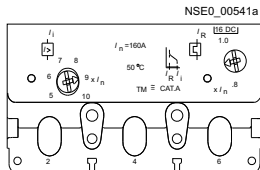
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

### 4-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".					(N)	
	A	A	A		Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	kg

#### 4-pole, fixed-mounted, for line protection, 16 A to 630 A, thermal-magnetic overcurrent releases LIN



#### Line protection, TM, LIN function

With adjustable thermal overcurrent releases, adjustable short-circuit releases, with "N" overcurrent and short-circuit release  
N protection = 100 %

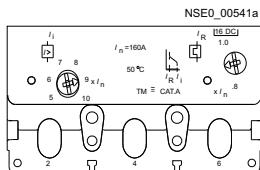
VL160/3VL2	50	40 ... 50	300 ... 600	3VL2705-1EM4□-□□□□	1	1 unit	1CC	3.000
	63	50 ... 63	300 ... 600	3VL2706-1EM4□-□□□□	1	1 unit	1CC	3.000
	80	63 ... 80	400 ... 800	3VL2708-1EM4□-□□□□	1	1 unit	1CC	3.000
	100	80 ... 100	500 ... 1000	3VL2710-1EM4□-□□□□	1	1 unit	1CC	3.000
	125	100 ... 125	625 ... 1250	3VL2712-1EM4□-□□□□	1	1 unit	1CC	3.000
	160	125 ... 160	800 ... 1600	3VL2716-1EM4□-□□□□	1	1 unit	1CC	3.000
VL250/3VL3	200	160 ... 200	1000 ... 2000	3VL3720-1EM4□-□□□□	1	1 unit	1CC	3.200
	250	200 ... 250	1250 ... 2500	3VL3725-1EM4□-□□□□	1	1 unit	1CC	3.200

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	200	160 ... 200	1000 ... 2000	3VL4720-1EM46-□□□□	1	1 unit	1CC	7.400
	250	200 ... 250	1250 ... 2500	3VL4725-1EM46-□□□□	1	1 unit	1CC	7.400
	315	250 ... 315	1575 ... 3150	3VL4731-1EM46-□□□□	1	1 unit	1CC	7.400
	400	320 ... 400	2000 ... 4000	3VL4740-1EM46-□□□□	1	1 unit	1CC	7.400
VL630/3VL5	315	250 ... 315	1575 ... 3150	3VL5731-1EM46-□□□□	1	1 unit	1CC	11.200
	400	320 ... 400	2000 ... 4000	3VL5740-1EM46-□□□□	1	1 unit	1CC	11.200
	500	400 ... 500	2500 ... 5000	3VL5750-1EM46-□□□□	1	1 unit	1CC	11.200
	630	500 ... 630	3150 ... 6300	3VL5763-1EM46-□□□□	1	1 unit	1CC	11.200



#### Line protection, TM, LIN function

With adjustable thermal overcurrent releases, adjustable short-circuit releases, with "N" overcurrent and short-circuit release  
N protection = 60 %

VL160/3VL2	125	100 ... 125	625 ... 1250	3VL2712-1EC4□-□□□□	1	1 unit	1CC	3.000
	160	125 ... 160	800 ... 1600	3VL2716-1EC4□-□□□□	1	1 unit	1CC	3.000
VL250/3VL3	200	160 ... 200	1000 ... 2000	3VL3720-1EC4□-□□□□	1	1 unit	1CC	3.200
	250	200 ... 250	1250 ... 2500	3VL3725-1EC4□-□□□□	1	1 unit	1CC	3.200

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	200	160 ... 200	1000 ... 2000	3VL4720-1EC46-□□□□	1	1 unit	1CC	7.400
	250	200 ... 250	1250 ... 2500	3VL4725-1EC46-□□□□	1	1 unit	1CC	7.400
	315	250 ... 315	1575 ... 3150	3VL4731-1EC46-□□□□	1	1 unit	1CC	7.400
	400	320 ... 400	2000 ... 4000	3VL4740-1EC46-□□□□	1	1 unit	1CC	7.400
VL630/3VL5	315	250 ... 315	1575 ... 3150	3VL5731-1EC46-□□□□	1	1 unit	1CC	11.200
	400	320 ... 400	2000 ... 4000	3VL5740-1EC46-□□□□	1	1 unit	1CC	11.200
	500	400 ... 500	2500 ... 5000	3VL5750-1EC46-□□□□	1	1 unit	1CC	11.200
	630	500 ... 630	3150 ... 6300	3VL5763-1EC46-□□□□	1	1 unit	1CC	11.200

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT	<b>I<sub>cu</sub> up to 70 kA at 415 V, high breaking capacity H</b>					(H)	DT	<b>I<sub>cu</sub> up to 100 kA at 415 V, very high breaking capacity L</b>					(L)
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg	

3VL2705-2EM4□-□□□□		1	1 unit	1CC	3.000		3VL2705-3EM4□-□□□□		1	1 unit	1CC	3.000
3VL2706-2EM4□-□□□□		1	1 unit	1CC	3.000		3VL2706-3EM4□-□□□□		1	1 unit	1CC	3.000
3VL2708-2EM4□-□□□□		1	1 unit	1CC	3.000		3VL2708-3EM4□-□□□□		1	1 unit	1CC	3.000
3VL2710-2EM4□-□□□□		1	1 unit	1CC	3.000		3VL2710-3EM4□-□□□□		1	1 unit	1CC	3.000
3VL2712-2EM4□-□□□□		1	1 unit	1CC	3.000		3VL2712-3EM4□-□□□□		1	1 unit	1CC	3.000
3VL2716-2EM4□-□□□□		1	1 unit	1CC	3.000		3VL2716-3EM4□-□□□□		1	1 unit	1CC	3.000
3VL3720-2EM4□-□□□□		1	1 unit	1CC	3.200		3VL3720-3EM4□-□□□□		1	1 unit	1CC	3.200
3VL3725-2EM4□-□□□□		1	1 unit	1CC	3.200		3VL3725-3EM4□-□□□□		1	1 unit	1CC	3.200

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3  
6

3VL4720-2EM46-□□□□		1	1 unit	1CC	7.400		3VL4720-3EM46-□□□□		1	1 unit	1CC	7.400
3VL4725-2EM46-□□□□		1	1 unit	1CC	7.400		3VL4725-3EM46-□□□□		1	1 unit	1CC	7.400
3VL4731-2EM46-□□□□		1	1 unit	1CC	7.400		3VL4731-3EM46-□□□□		1	1 unit	1CC	7.400
3VL4740-2EM46-□□□□		1	1 unit	1CC	7.400		3VL4740-3EM46-□□□□		1	1 unit	1CC	7.400
3VL5731-2EM46-□□□□		1	1 unit	1CC	11.200		3VL5731-3EM46-□□□□		1	1 unit	1CC	11.200
3VL5740-2EM46-□□□□		1	1 unit	1CC	11.200		3VL5740-3EM46-□□□□		1	1 unit	1CC	11.200
3VL5750-2EM46-□□□□		1	1 unit	1CC	11.200		3VL5750-3EM46-□□□□		1	1 unit	1CC	11.200
3VL5763-2EM46-□□□□		1	1 unit	1CC	11.200		3VL5763-3EM46-□□□□		1	1 unit	1CC	11.200

3  
6

3  
6

3VL4720-2EC46-□□□□		1	1 unit	1CC	7.400		3VL4720-3EC46-□□□□		1	1 unit	1CC	7.400
3VL4725-2EC46-□□□□		1	1 unit	1CC	7.400		3VL4725-3EC46-□□□□		1	1 unit	1CC	7.400
3VL4731-2EC46-□□□□		1	1 unit	1CC	7.400		3VL4731-3EC46-□□□□		1	1 unit	1CC	7.400
3VL4740-2EC46-□□□□		1	1 unit	1CC	7.400		3VL4740-3EC46-□□□□		1	1 unit	1CC	7.400
3VL5731-2EC46-□□□□		1	1 unit	1CC	11.200		3VL5731-3EC46-□□□□		1	1 unit	1CC	11.200
3VL5740-2EC46-□□□□		1	1 unit	1CC	11.200		3VL5740-3EC46-□□□□		1	1 unit	1CC	11.200
3VL5750-2EC46-□□□□		1	1 unit	1CC	11.200		3VL5750-3EC46-□□□□		1	1 unit	1CC	11.200
3VL5763-2EC46-□□□□		1	1 unit	1CC	11.200		3VL5763-3EC46-□□□□		1	1 unit	1CC	11.200

\* You can order this quantity or a multiple thereof.

## Molded Case Circuit Breakers

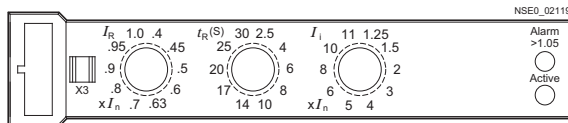
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 4-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_I$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)				
	A	A	A		Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
					Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					

#### 4-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LI



#### ETU10, LI function

With adjustable overcurrent releases, adjustable short-circuit releases, without overcurrent and short-circuit release in the 4th pole (N)

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<a href="#">3VL2706-1□□4□-□□□□</a> <a href="#">3VL2710-1□□4□-□□□□</a> <a href="#">3VL2716-1□□4□-□□□□</a>	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC	3.100 3.100 3.100
VL250/3VL3	200 250	80 ... 200 100 ... 250	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<a href="#">3VL3720-1□□4□-□□□□</a> <a href="#">3VL3725-1□□4□-□□□□</a>	1 1	1 unit 1 unit	1CC 1CC	3.300 3.300

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal<sup>1)</sup>

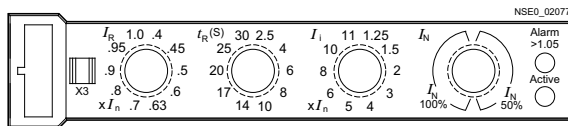
3  
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<a href="#">3VL4731-1□□46-□□□□</a> <a href="#">3VL4740-1□□46-□□□□</a>	1 1	1 unit 1 unit	1CC 1CC	7.600 7.600
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	<a href="#">3VL5763-1□□46-□□□□</a>	1	1 unit	1CC	11.700
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	<a href="#">3VL6780-1□□46-□□□□</a>	1	1 unit	1CC	20.500
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<a href="#">3VL7710-1□□46-□□□□</a> <a href="#">3VL7712-1□□46-□□□□</a>	1 1	1 unit 1 unit	1CC 1CC	33.500 33.500
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	<a href="#">3VL8716-1□□40-□□□□</a>	1	1 unit	1CC	40.800

- Without communication preparation
- With communication preparation

TB  
NB

#### 4-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LIN



#### ETU10, LIN function

With adjustable overcurrent releases, adjustable short-circuit releases with overcurrent and short-circuit release in the 4th pole (N)  
N protection = 50/100 %

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<a href="#">3VL2706-1□□4□-□□□□</a> <a href="#">3VL2710-1□□4□-□□□□</a> <a href="#">3VL2716-1□□4□-□□□□</a>	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC	3.100 3.100 3.100
VL250/3VL3	200 250	80 ... 200 100 ... 250	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<a href="#">3VL3720-1□□4□-□□□□</a> <a href="#">3VL3725-1□□4□-□□□□</a>	1 1	1 unit 1 unit	1CC 1CC	3.300 3.300

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<a href="#">3VL4731-1□□46-□□□□</a> <a href="#">3VL4740-1□□46-□□□□</a>	1 1	1 unit 1 unit	1CC 1CC	7.600 7.600
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	<a href="#">3VL5763-1□□46-□□□□</a>	1	1 unit	1CC	11.700
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	<a href="#">3VL6780-1□□46-□□□□</a>	1	1 unit	1CC	20.500
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<a href="#">3VL7710-1□□46-□□□□</a> <a href="#">3VL7712-1□□46-□□□□</a>	1 1	1 unit 1 unit	1CC 1CC	33.500 33.500
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	<a href="#">3VL8716-1□□40-□□□□</a>	1	1 unit	1CC	40.800

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

TA  
NA  
LA

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT	<b>I<sub>cu</sub> up to 70 kA at 415 V, high breaking capacity H</b>					(H)	DT	<b>I<sub>cu</sub> up to 100 kA at 415 V, very high breaking capacity L</b>					(L)
	Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg		Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

3VL2706-2□□4□-□□□□	1	1 unit	1CC	3.100			3VL2706-3□□4□-□□□□	1	1 unit	1CC	3.100		
3VL2710-2□□4□-□□□□	1	1 unit	1CC	3.100			3VL2710-3□□4□-□□□□	1	1 unit	1CC	3.100		
3VL2716-2□□4□-□□□□	1	1 unit	1CC	3.100			3VL2716-3□□4□-□□□□	1	1 unit	1CC	3.100		
3VL3720-2□□4□-□□□□	1	1 unit	1CC	3.300			3VL3720-3□□4□-□□□□	1	1 unit	1CC	3.300		
3VL3725-2□□4□-□□□□	1	1 unit	1CC	3.300			3VL3725-3□□4□-□□□□	1	1 unit	1CC	3.300		

3  
6

3  
6

3VL4731-2□□46-□□□□	1	1 unit	1CC	7.600			3VL4731-3□□46-□□□□	1	1 unit	1CC	7.600		
3VL4740-2□□46-□□□□	1	1 unit	1CC	7.600			3VL4740-3□□46-□□□□	1	1 unit	1CC	7.600		
3VL5763-2□□46-□□□□	1	1 unit	1CC	11.700			3VL5763-3□□46-□□□□	1	1 unit	1CC	11.700		
3VL6780-2□□46-□□□□	1	1 unit	1CC	20.500			3VL6780-3□□46-□□□□	1	1 unit	1CC	20.500		
3VL7710-2□□46-□□□□	1	1 unit	1CC	33.500			3VL7710-3□□46-□□□□	1	1 unit	1CC	33.500		
3VL7712-2□□46-□□□□	1	1 unit	1CC	33.500			3VL7712-3□□46-□□□□	1	1 unit	1CC	33.500		
3VL8716-2□□40-□□□□	1	1 unit	1CC	40.800			3VL8716-3□□40-□□□□	1	1 unit	1CC	40.800		

TB  
NB

TB  
NB

3VL2706-2□□4□-□□□□	1	1 unit	1CC	3.100			3VL2706-3□□4□-□□□□	1	1 unit	1CC	3.100		
3VL2710-2□□4□-□□□□	1	1 unit	1CC	3.100			3VL2710-3□□4□-□□□□	1	1 unit	1CC	3.100		
3VL2716-2□□4□-□□□□	1	1 unit	1CC	3.100			3VL2716-3□□4□-□□□□	1	1 unit	1CC	3.100		
3VL3720-2□□4□-□□□□	1	1 unit	1CC	3.300			3VL3720-3□□4□-□□□□	1	1 unit	1CC	3.300		
3VL3725-2□□4□-□□□□	1	1 unit	1CC	3.300			3VL3725-3□□4□-□□□□	1	1 unit	1CC	3.300		

3  
6

3  
6

3VL4731-2□□46-□□□□	1	1 unit	1CC	7.600			3VL4731-3□□46-□□□□	1	1 unit	1CC	7.600		
3VL4740-2□□46-□□□□	1	1 unit	1CC	7.600			3VL4740-3□□46-□□□□	1	1 unit	1CC	7.600		
3VL5763-2□□46-□□□□	1	1 unit	1CC	11.700			3VL5763-3□□46-□□□□	1	1 unit	1CC	11.700		
3VL6780-2□□46-□□□□	1	1 unit	1CC	20.500			3VL6780-3□□46-□□□□	1	1 unit	1CC	20.500		
3VL7710-2□□46-□□□□	1	1 unit	1CC	33.500			3VL7710-3□□46-□□□□	1	1 unit	1CC	33.500		
3VL7712-2□□46-□□□□	1	1 unit	1CC	33.500			3VL7712-3□□46-□□□□	1	1 unit	1CC	33.500		
3VL8716-2□□40-□□□□	1	1 unit	1CC	40.800			3VL8716-3□□40-□□□□	1	1 unit	1CC	40.800		

TA  
NA  
LA

TA  
NA  
LA

Communication:

- For accessories, see page 2/207.

- For more information, see chapter "Measuring Devices and Power Monitoring" and see chapter "Software".

\* You can order this quantity or a multiple thereof.

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 4-pole

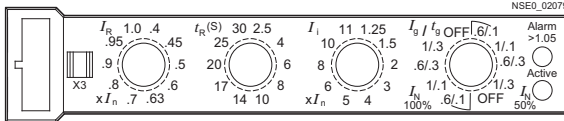
2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	Ground-fault protection "G" $I_g$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b>							
	A	A	A	A		See "Overview".	(N)						
						Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		
						Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					kg		

#### 4-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LING



NSE0\_00693



#### ETU12, LING function for 4-wire three-phase systems

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current formation, ground-fault delay  $t_G = 0.1 \dots 0.3$  s, ground-fault protection (G) can be switched off with overcurrent and short-circuit release in the 4th pole (N), N protection = 50/100 %

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<a href="#">3VL2706-1□□4□-□□□□</a>	1	1 unit	1CC	3.100
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<a href="#">3VL2710-1□□4□-□□□□</a>	1	1 unit	1CC	3.100
VL250/3VL3	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<a href="#">3VL2716-1□□4□-□□□□</a>	1	1 unit	1CC	3.100
	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<a href="#">3VL3720-1□□4□-□□□□</a>	1	1 unit	1CC	3.300
VL250/3VL3	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<a href="#">3VL3725-1□□4□-□□□□</a>	1	1 unit	1CC	3.300

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<a href="#">3VL4731-1□□46-□□□□</a>	1	1 unit	1CC	7.600
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<a href="#">3VL4740-1□□46-□□□□</a>	1	1 unit	1CC	7.600
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<a href="#">3VL5763-1□□46-□□□□</a>	1	1 unit	1CC	11.700
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<a href="#">3VL6780-1□□46-□□□□</a>	1	1 unit	1CC	20.500
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<a href="#">3VL7710-1□□46-□□□□</a>	1	1 unit	1CC	33.500
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<a href="#">3VL7712-1□□46-□□□□</a>	1	1 unit	1CC	33.500
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<a href="#">3VL8716-1□□40-□□□□</a>	1	1 unit	1CC	40.800

- Without communication preparation
- With communication preparation

TN  
NN

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/207.
- For more information, see chapter "Measuring Devices and Power Monitoring" and see chapter "Software".

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>					
Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>						Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>					
kg						kg					

3VL2706-2□□4□-□□□□	1	1 unit	1CC	3.100	3VL2706-3□□4□-□□□□	1	1 unit	1CC	3.100
3VL2710-2□□4□-□□□□	1	1 unit	1CC	3.100	3VL2710-3□□4□-□□□□	1	1 unit	1CC	3.100
3VL2716-2□□4□-□□□□	1	1 unit	1CC	3.100	3VL2716-3□□4□-□□□□	1	1 unit	1CC	3.100
3VL3720-2□□4□-□□□□	1	1 unit	1CC	3.300	3VL3720-3□□4□-□□□□	1	1 unit	1CC	3.300
3VL3725-2□□4□-□□□□	1	1 unit	1CC	3.300	3VL3725-3□□4□-□□□□	1	1 unit	1CC	3.300

3  
6

3  
6

3VL4731-2□□46-□□□□	1	1 unit	1CC	7.600	3VL4731-3□□46-□□□□	1	1 unit	1CC	7.600
3VL4740-2□□46-□□□□	1	1 unit	1CC	7.600	3VL4740-3□□46-□□□□	1	1 unit	1CC	7.600
3VL5763-2□□46-□□□□	1	1 unit	1CC	11.700	3VL5763-3□□46-□□□□	1	1 unit	1CC	11.700
3VL6780-2□□46-□□□□	1	1 unit	1CC	20.500	3VL6780-3□□46-□□□□	1	1 unit	1CC	20.500
3VL7710-2□□46-□□□□	1	1 unit	1CC	33.500	3VL7710-3□□46-□□□□	1	1 unit	1CC	33.500
3VL7712-2□□46-□□□□	1	1 unit	1CC	33.500	3VL7712-3□□46-□□□□	1	1 unit	1CC	33.500
3VL8716-2□□40-□□□□	1	1 unit	1CC	40.800	3VL8716-3□□40-□□□□	1	1 unit	1CC	40.800

TN  
NN

TN  
NN

## Molded Case Circuit Breakers

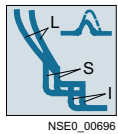
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 4-pole

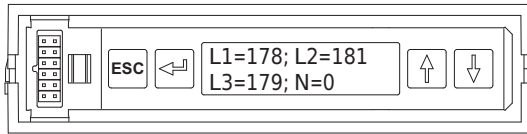
2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".	(N)				
	A	A	A	A		Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

4-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LI, LSI, LIN, LSIN



NSE0\_00696



NSE0\_02129

#### LCD-ETU40, LI/LSI/LIN/LSIN function selectable

With adjustable overcurrent releases, adjustable short-circuit releases, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s with overcurrent and short-circuit release in the 4th pole (N), N protection = 50 ... 100 %, OFF

VL160/3VL2	63 <sup>1)</sup>	25 ... 63	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL2706-1UJ4□-□□□□</a>	1	1 unit	1CC	3.100
	100 <sup>1)</sup>	40 ... 100	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL2710-1UJ4□-□□□□</a>	1	1 unit	1CC	3.100
	160	64 ... 160	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL2716-1UJ4□-□□□□</a>	1	1 unit	1CC	3.100
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL3720-1UJ4□-□□□□</a>	1	1 unit	1CC	3.300
	250	100 ... 250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL3725-1UJ4□-□□□□</a>	1	1 unit	1CC	3.300

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal<sup>2)</sup>

3  
6

VL400/3VL4	315	128 ... 315	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL4731-1UJ46-□□□□</a>	1	1 unit	1CC	7.600
	400	160 ... 400	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL4740-1UJ46-□□□□</a>	1	1 unit	1CC	7.600
VL630/3VL5	630	252 ... 630	$1.25 \dots 10 \times I_n$	$1.5 \dots 9 \times I_R$	<a href="#">3VL5763-1UJ46-□□□□</a>	1	1 unit	1CC	11.700
VL800/3VL6	800	320 ... 800	$1.25 \dots 8 \times I_n$	$1.5 \dots 7 \times I_R$	<a href="#">3VL6780-1UJ46-□□□□</a>	1	1 unit	1CC	20.500
VL1250/3VL7	1000	400 ... 1000	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL7710-1UJ46-□□□□</a>	1	1 unit	1CC	33.500
	1250	500 ... 1250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL7712-1UJ46-□□□□</a>	1	1 unit	1CC	33.500
VL1600/3VL8 <sup>3)</sup>	1600	640 ... 1600	$1.25 \dots 9 \times I_n$	$1.5 \dots 8 \times I_R$	<a href="#">3VL8716-1UJ40-□□□□</a>	1	1 unit	1CC	40.800

<sup>1)</sup> N = 100 % protection for  $I_n \leq 100$  A.

<sup>2)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>3)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>					
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>						Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					
kg						kg					

3VL2706-2UJ4□-□□□□	1	1 unit	1CC	3.100	3VL2706-3UJ4□-□□□□	1	1 unit	1CC	3.100
3VL2710-2UJ4□-□□□□	1	1 unit	1CC	3.100	3VL2710-3UJ4□-□□□□	1	1 unit	1CC	3.100
3VL2716-2UJ4□-□□□□	1	1 unit	1CC	3.100	3VL2716-3UJ4□-□□□□	1	1 unit	1CC	3.100
3VL3720-2UJ4□-□□□□	1	1 unit	1CC	3.300	3VL3720-3UJ4□-□□□□	1	1 unit	1CC	3.300
3VL3725-2UJ4□-□□□□	1	1 unit	1CC	3.300	3VL3725-3UJ4□-□□□□	1	1 unit	1CC	3.300

3  
63  
6

3VL4731-2UJ46-□□□□	1	1 unit	1CC	7.600	3VL4731-3UJ46-□□□□	1	1 unit	1CC	7.600
3VL4740-2UJ46-□□□□	1	1 unit	1CC	7.600	3VL4740-3UJ46-□□□□	1	1 unit	1CC	7.600
3VL5763-2UJ46-□□□□	1	1 unit	1CC	11.700	3VL5763-3UJ46-□□□□	1	1 unit	1CC	11.700
3VL6780-2UJ46-□□□□	1	1 unit	1CC	20.500	3VL6780-3UJ46-□□□□	1	1 unit	1CC	20.500
3VL7710-2UJ46-□□□□	1	1 unit	1CC	33.500	3VL7710-3UJ46-□□□□	1	1 unit	1CC	33.500
3VL7712-2UJ46-□□□□	1	1 unit	1CC	33.500	3VL7712-3UJ46-□□□□	1	1 unit	1CC	33.500
3VL8716-2UJ40-□□□□	1	1 unit	1CC	40.800	3VL8716-3UJ40-□□□□	1	1 unit	1CC	40.800

## Molded Case Circuit Breakers

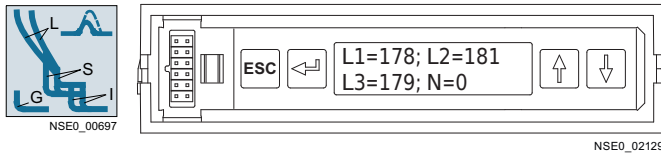
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 4-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	S function short-circuit protection (short-time delayed) $I_s$	Ground-fault protection "G" $I_g$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b>					
	A	A	A	A	A		See "Overview".					
							Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
							Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>					kg

4-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSIG, LSING



#### LCD-ETU42, LSIG/LSING function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases  
 Ground fault delay  $t_g = 0.1 \dots 0.5$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s  
 with overcurrent and short-circuit release in the 4th pole (N), N protection = 50 ... 100 %, OFF

VL160/3VL2	63	25 ... 63	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL2706-1UN40-□□□□</a>	1	1 unit	1CC	3.100
	100	40 ... 100	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL2710-1UN40-□□□□</a>	1	1 unit	1CC	3.100
	160	64 ... 160	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL2716-1UN40-□□□□</a>	1	1 unit	1CC	3.100
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL3720-1UN40-□□□□</a>	1	1 unit	1CC	3.300
	250	100 ... 250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL3725-1UN40-□□□□</a>	1	1 unit	1CC	3.300

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with flat screw terminal<sup>1)</sup> **6**

VL400/3VL4	315	128 ... 315	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL4731-1UN46-□□□□</a>	1	1 unit	1CC	7.600
	400	160 ... 400	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL4740-1UN46-□□□□</a>	1	1 unit	1CC	7.600
VL630/3VL5	630	252 ... 630	$1.25 \dots 10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL5763-1UN46-□□□□</a>	1	1 unit	1CC	11.700
VL800/3VL6	800	320 ... 800	$1.25 \dots 8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL6780-1UN46-□□□□</a>	1	1 unit	1CC	20.500
VL1250/3VL7	1000	400 ... 1000	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL7710-1UN46-□□□□</a>	1	1 unit	1CC	33.500
	1250	500 ... 1250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL7712-1UN46-□□□□</a>	1	1 unit	1CC	33.500
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	$1.25 \dots 9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	<a href="#">3VL8716-1UN40-□□□□</a>	1	1 unit	1CC	40.800

1) When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

2) Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H						(H)	DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L						(L)
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.	
Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>						kg	Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>						kg

<a href="#">3VL2706-2UN4□-□□□□</a>	1	1 unit	1CC	3.100	<a href="#">3VL2706-3UN4□-□□□□</a>	1	1 unit	1CC	3.100
<a href="#">3VL2710-2UN4□-□□□□</a>	1	1 unit	1CC	3.100	<a href="#">3VL2710-3UN4□-□□□□</a>	1	1 unit	1CC	3.100
<a href="#">3VL2716-2UN4□-□□□□</a>	1	1 unit	1CC	3.100	<a href="#">3VL2716-3UN4□-□□□□</a>	1	1 unit	1CC	3.100
<a href="#">3VL3720-2UN4□-□□□□</a>	1	1 unit	1CC	3.300	<a href="#">3VL3720-3UN4□-□□□□</a>	1	1 unit	1CC	3.300
<a href="#">3VL3725-2UN4□-□□□□</a>	1	1 unit	1CC	3.300	<a href="#">3VL3725-3UN4□-□□□□</a>	1	1 unit	1CC	3.300

3  
63  
6

<a href="#">3VL4731-2UN46-□□□□</a>	1	1 unit	1CC	7.600	<a href="#">3VL4731-3UN46-□□□□</a>	1	1 unit	1CC	7.600
<a href="#">3VL4740-2UN46-□□□□</a>	1	1 unit	1CC	7.600	<a href="#">3VL4740-3UN46-□□□□</a>	1	1 unit	1CC	7.600
<a href="#">3VL5763-2UN46-□□□□</a>	1	1 unit	1CC	11.700	<a href="#">3VL5763-3UN46-□□□□</a>	1	1 unit	1CC	11.700
<a href="#">3VL6780-2UN46-□□□□</a>	1	1 unit	1CC	20.500	<a href="#">3VL6780-3UN46-□□□□</a>	1	1 unit	1CC	20.500
<a href="#">3VL7710-2UN46-□□□□</a>	1	1 unit	1CC	33.500	<a href="#">3VL7710-3UN46-□□□□</a>	1	1 unit	1CC	33.500
<a href="#">3VL7712-2UN46-□□□□</a>	1	1 unit	1CC	33.500	<a href="#">3VL7712-3UN46-□□□□</a>	1	1 unit	1CC	33.500
<a href="#">3VL8716-2UN40-□□□□</a>	1	1 unit	1CC	40.800	<a href="#">3VL8716-3UN40-□□□□</a>	1	1 unit	1CC	40.800

## Molded Case Circuit Breakers

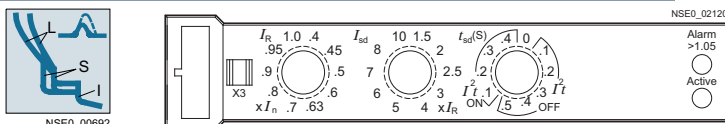
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 4-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".					
						Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
						Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					

#### 4-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSI



#### ETU20, LSI function for time-based discrimination

With adjustable overcurrent releases, non-adjustable short-circuit releases, short-circuit delay ( $t_{sd} = 0 \dots 0.5$  s)

Without overcurrent and short-circuit release in the 4th pole (N)

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL2706-1□□4□-□□□□</a>	1	1 unit	1CC	3.100
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL2710-1□□4□-□□□□</a>	1	1 unit	1CC	3.100
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL2716-1□□4□-□□□□</a>	1	1 unit	1CC	3.100
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL3720-1□□4□-□□□□</a>	1	1 unit	1CC	3.300
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL3725-1□□4□-□□□□</a>	1	1 unit	1CC	3.300

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal<sup>1)</sup>

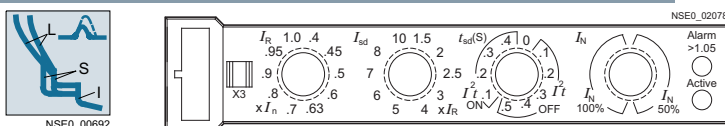
3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL4731-1□□46-□□□□</a>	1	1 unit	1CC	7.600
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL4740-1□□46-□□□□</a>	1	1 unit	1CC	7.600
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	<a href="#">3VL5763-1□□46-□□□□</a>	1	1 unit	1CC	11.700
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	<a href="#">3VL6780-1□□46-□□□□</a>	1	1 unit	1CC	20.500
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL7710-1□□46-□□□□</a>	1	1 unit	1CC	33.500
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL7712-1□□46-□□□□</a>	1	1 unit	1CC	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	<a href="#">3VL8716-1□□40-□□□□</a>	1	1 unit	1CC	40.800

- Without communication preparation
- With communication preparation

TE  
NE

#### 4-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSIN



#### ETU20, LSIN function for time-based discrimination

With adjustable overcurrent releases, non-adjustable short-circuit releases, short-circuit delay ( $t_{sd} = 0 \dots 0.5$  s)

with overcurrent and short-circuit release in the 4th pole (N), N protection = 50/100 %

VL160/3VL2	63	0.4 ... $1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL2706-1□□4□-□□□□</a>	1	1 unit	1CC	3.100
	100	0.4 ... $1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL2710-1□□4□-□□□□</a>	1	1 unit	1CC	3.100
	160	0.4 ... $1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL2716-1□□4□-□□□□</a>	1	1 unit	1CC	3.100
VL250/3VL3	200	0.4 ... $1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL3720-1□□4□-□□□□</a>	1	1 unit	1CC	3.300
	250	0.4 ... $1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL3725-1□□4□-□□□□</a>	1	1 unit	1CC	3.300

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	315	0.4 ... $1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL4731-1□□46-□□□□</a>	1	1 unit	1CC	7.600
	400	0.4 ... $1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL4740-1□□46-□□□□</a>	1	1 unit	1CC	7.600
VL630/3VL5	630	0.4 ... $1.0 \times I_n$	$10 \times I_n$	$1.5 \dots 9 \times I_R$	<a href="#">3VL5763-1□□46-□□□□</a>	1	1 unit	1CC	11.700
VL800/3VL6	800	0.4 ... $1.0 \times I_n$	$8 \times I_n$	$1.5 \dots 7 \times I_R$	<a href="#">3VL6780-1□□46-□□□□</a>	1	1 unit	1CC	20.500
VL1250/3VL7	1000	0.4 ... $1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL7710-1□□46-□□□□</a>	1	1 unit	1CC	33.500
	1250	0.4 ... $1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<a href="#">3VL7712-1□□46-□□□□</a>	1	1 unit	1CC	33.500
VL1600/3VL8 <sup>2)</sup>	1600	0.4 ... $1.0 \times I_n$	$9 \times I_n$	$1.5 \dots 8 \times I_R$	<a href="#">3VL8716-1□□40-□□□□</a>	1	1 unit	1CC	40.800

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

TF  
NF  
LF

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/207.
- For more information, see chapter "Measuring Devices and Power Monitoring" and see chapter "Software".

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H	(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L	(L)						
Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	Article No.	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<p>Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a></p>											

3VL2706-2□□4□-□□□□	1	1 unit	1CC	3.100	3VL2706-3□□4□-□□□□	1	1 unit	1CC	3.100
3VL2710-2□□4□-□□□□	1	1 unit	1CC	3.100	3VL2710-3□□4□-□□□□	1	1 unit	1CC	3.100
3VL2716-2□□4□-□□□□	1	1 unit	1CC	3.100	3VL2716-3□□4□-□□□□	1	1 unit	1CC	3.100
3VL3720-2□□4□-□□□□	1	1 unit	1CC	3.300	3VL3720-3□□4□-□□□□	1	1 unit	1CC	3.300
3VL3725-2□□4□-□□□□	1	1 unit	1CC	3.300	3VL3725-3□□4□-□□□□	1	1 unit	1CC	3.300

3  
6

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6

3VL4731-2□□46-□□□□	1	1 unit	1CC	7.600	3VL4731-3□□46-□□□□	1	1 unit	1CC	7.600
3VL4740-2□□46-□□□□	1	1 unit	1CC	7.600	3VL4740-3□□46-□□□□	1	1 unit	1CC	7.600
3VL5763-2□□46-□□□□	1	1 unit	1CC	11.700	3VL5763-3□□46-□□□□	1	1 unit	1CC	11.700
3VL6780-2□□46-□□□□	1	1 unit	1CC	20.500	3VL6780-3□□46-□□□□	1	1 unit	1CC	20.500
3VL7710-2□□46-□□□□	1	1 unit	1CC	33.500	3VL7710-3□□46-□□□□	1	1 unit	1CC	33.500
3VL7712-2□□46-□□□□	1	1 unit	1CC	33.500	3VL7712-3□□46-□□□□	1	1 unit	1CC	33.500
3VL8716-2□□40-□□□□	1	1 unit	1CC	40.800	3VL8716-3□□40-□□□□	1	1 unit	1CC	40.800

TE  
NE

TE  
NE

3VL2706-2□□4□-□□□□	1	1 unit	1CC	3.100	3VL2706-3□□4□-□□□□	1	1 unit	1CC	3.100
3VL2710-2□□4□-□□□□	1	1 unit	1CC	3.100	3VL2710-3□□4□-□□□□	1	1 unit	1CC	3.100
3VL2716-2□□4□-□□□□	1	1 unit	1CC	3.100	3VL2716-3□□4□-□□□□	1	1 unit	1CC	3.100
3VL3720-2□□4□-□□□□	1	1 unit	1CC	3.300	3VL3720-3□□4□-□□□□	1	1 unit	1CC	3.300
3VL3725-2□□4□-□□□□	1	1 unit	1CC	3.300	3VL3725-3□□4□-□□□□	1	1 unit	1CC	3.300

3  
6

3  
6

3VL4731-2□□46-□□□□	1	1 unit	1CC	7.600	3VL4731-3□□46-□□□□	1	1 unit	1CC	7.600
3VL4740-2□□46-□□□□	1	1 unit	1CC	7.600	3VL4740-3□□46-□□□□	1	1 unit	1CC	7.600
3VL5763-2□□46-□□□□	1	1 unit	1CC	11.700	3VL5763-3□□46-□□□□	1	1 unit	1CC	11.700
3VL6780-2□□46-□□□□	1	1 unit	1CC	20.500	3VL6780-3□□46-□□□□	1	1 unit	1CC	20.500
3VL7710-2□□46-□□□□	1	1 unit	1CC	33.500	3VL7710-3□□46-□□□□	1	1 unit	1CC	33.500
3VL7712-2□□46-□□□□	1	1 unit	1CC	33.500	3VL7712-3□□46-□□□□	1	1 unit	1CC	33.500
3VL8716-2□□40-□□□□	1	1 unit	1CC	40.800	3VL8716-3□□40-□□□□	1	1 unit	1CC	40.800

TF  
NF  
LF

TF  
NF  
LF

## Molded Case Circuit Breakers

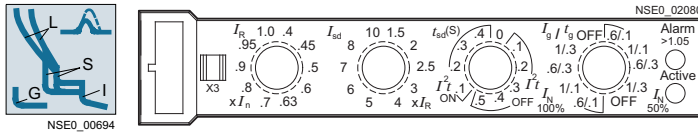
### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### 4-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent protection "L" $I_R$	Operating current of the instantaneous short-circuit protection "I" $I_i$	S function short-circuit protection (short-time delayed) "S"	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)				
	A	A	A	A	A		Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Price	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

4-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSING



#### ETU22, LSING function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases, ground fault delay  $t_g = 0.1 \dots 0.3$  s, ground-fault protection (G) can be switched off, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s with overcurrent and short-circuit release in the 4th pole (N), N protection = 50/100 %

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL2706-1□□4□-□□□□</a>	1	1 unit	1CC	3.100
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL2710-1□□4□-□□□□</a>	1	1 unit	1CC	3.100
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL2716-1□□4□-□□□□</a>	1	1 unit	1CC	3.100
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL3720-1□□4□-□□□□</a>	1	1 unit	1CC	3.300
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL3725-1□□4□-□□□□</a>	1	1 unit	1CC	3.300

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal<sup>1)</sup>

3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL4731-1□□46-□□□□</a>	1	1 unit	1CC	7.600
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL4740-1□□46-□□□□</a>	1	1 unit	1CC	7.600
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL5763-1□□46-□□□□</a>	1	1 unit	1CC	11.700
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL6780-1□□46-□□□□</a>	1	1 unit	1CC	20.500
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL7710-1□□46-□□□□</a>	1	1 unit	1CC	33.500
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL7712-1□□46-□□□□</a>	1	1 unit	1CC	33.500
VL1600/3VL8 <sup>2)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<a href="#">3VL8716-1□□40-□□□□</a>	1	1 unit	1CC	40.800

- Without communication preparation
- With communication preparation

TH  
NH

<sup>1)</sup> When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/207.
- For more information, see chapter "Measuring Devices and Power Monitoring" and see chapter "Software".

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H	(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L	(L)		
	Article No.	Price	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.	kg

3VL2706-2□□4□-□□□□	1	1 unit	1CC	3.100
3VL2710-2□□4□-□□□□	1	1 unit	1CC	3.100
3VL2716-2□□4□-□□□□	1	1 unit	1CC	3.100
3VL3720-2□□4□-□□□□	1	1 unit	1CC	3.300
3VL3725-2□□4□-□□□□	1	1 unit	1CC	3.300

3VL2706-3□□4□-□□□□	1	1 unit	1CC	3.100
3VL2710-3□□4□-□□□□	1	1 unit	1CC	3.100
3VL2716-3□□4□-□□□□	1	1 unit	1CC	3.100
3VL3720-3□□4□-□□□□	1	1 unit	1CC	3.300
3VL3725-3□□4□-□□□□	1	1 unit	1CC	3.300

3  
6

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6

3VL4731-2□□46-□□□□	1	1 unit	1CC	7.600
3VL4740-2□□46-□□□□	1	1 unit	1CC	7.600
3VL5763-2□□46-□□□□	1	1 unit	1CC	11.700
3VL6780-2□□46-□□□□	1	1 unit	1CC	20.500
3VL7710-2□□46-□□□□	1	1 unit	1CC	33.500
3VL7712-2□□46-□□□□	1	1 unit	1CC	33.500
3VL8716-2□□40-□□□□	1	1 unit	1CC	40.800

3VL4731-3□□46-□□□□	1	1 unit	1CC	7.600
3VL4740-3□□46-□□□□	1	1 unit	1CC	7.600
3VL5763-3□□46-□□□□	1	1 unit	1CC	11.700
3VL6780-3□□46-□□□□	1	1 unit	1CC	20.500
3VL7710-3□□46-□□□□	1	1 unit	1CC	33.500
3VL7712-3□□46-□□□□	1	1 unit	1CC	33.500
3VL8716-3□□40-□□□□	1	1 unit	1CC	40.800

TH  
NH

TH  
NH

## Molded Case Circuit Breakers

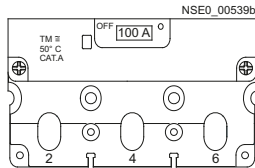
3VL Molded Case Circuit Breakers up to 1600 A, IEC

### 4-pole

2

Type	Rated current $I_n$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N <a href="#">See "Overview"</a>	(N)
	A	A		Article No. Article No. supplement, see page 2/172; <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Basic price per PU PU (UNIT, SET, M) PS*/ P. unit PG Weight per PU approx. kg

4-pole, fixed-mounted, for safe disconnection,  
100 A to 1600 A, magnetic trip units I



#### Non-automatic molded case circuit breakers<sup>1)</sup>, I function

Without overcurrent releases, with non-adjustable short-circuit releases (for intrinsic protection only),  
without overcurrent and short-circuit release in the 4th pole (N)

VL160X/3VL1	100 160	1800 1800	<a href="#">3VL1710-1EE40-□□□□</a> <a href="#">3VL1716-1EE40-□□□□</a>	1 1	1 unit 1 unit	1CC 1CC	2.500 2.500
VL160/3VL2	100 160	2500 2500	<a href="#">3VL2710-1EE40-□□□□</a> <a href="#">3VL2716-1EE40-□□□□</a>	1 1	1 unit 1 unit	1CC 1CC	3.000 3.000
VL250/3VL3	250	3500	<a href="#">3VL3725-1EE40-□□□□</a>	1	1 unit	1CC	3.200

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal

- Connection with screw terminal not in conjunction with RCD module at 3VL1<sup>2)</sup>

3

6

VL400/3VL4	400	4000	<a href="#">3VL4740-1EE46-□□□□</a>	1	1 unit	1CC	7.400
VL630/3VL5	630	6300	<a href="#">3VL5763-1EE46-□□□□</a>	1	1 unit	1CC	11.200
VL800/3VL6	800	6500	<a href="#">3VL6780-1EE46-□□□□</a>	1	1 unit	1CC	19.900
VL1250/3VL7	1250	12000	<a href="#">3VL7712-1EE46-□□□□</a>	1	1 unit	1CC	31.000
VL1600/3VL8 <sup>3)</sup>	1600	14400	<a href="#">3VL8716-1EE40-□□□□</a>	1	1 unit	1CC	38.300

1) See chapter "Switch Disconnectors" 3K. switch disconnectors are also available with rear-mounting operating mechanism and leading contacts.

2) When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

3) Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L					
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg
3VL1710-2EE4□-□□□□		1	1 unit	1CC	2.500	--					
3VL1716-2EE4□-□□□□		1	1 unit	1CC	2.500	--					
3VL2710-2EE4□-□□□□		1	1 unit	1CC	3.000	3VL2710-3EE4□-□□□□		1	1 unit	1CC	3.000
3VL2716-2EE4□-□□□□		1	1 unit	1CC	3.000	3VL2716-3EE4□-□□□□		1	1 unit	1CC	3.000
3VL3725-2EE4□-□□□□		1	1 unit	1CC	3.200	3VL3725-3EE4□-□□□□		1	1 unit	1CC	3.200
<b>3</b>						<b>3</b>					
<b>6</b>						<b>6</b>					
3VL4740-2EE46-□□□□		1	1 unit	1CC	7.400	3VL4740-3EE46-□□□□		1	1 unit	1CC	7.400
3VL5763-2EE46-□□□□		1	1 unit	1CC	11.200	3VL5763-3EE46-□□□□		1	1 unit	1CC	11.200
3VL6780-2EE46-□□□□		1	1 unit	1CC	19.900	3VL6780-3EE46-□□□□		1	1 unit	1CC	19.900
3VL7712-2EE46-□□□□		1	1 unit	1CC	31.000	3VL7712-3EE46-□□□□		1	1 unit	1CC	31.000
3VL8716-2EE40-□□□□		1	1 unit	1CC	38.300	3VL8716-3EE40-□□□□		1	1 unit	1CC	38.300

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### 4-pole

2

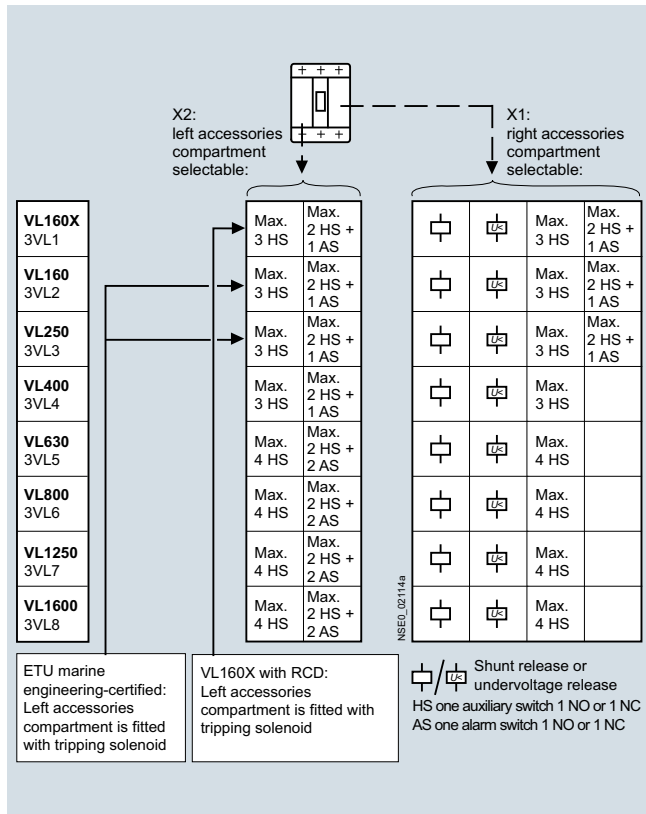
Article No. supplement (for complete Article No., see pages 2/156 to 2/144) <b>3VL7..-..□□4-....</b>	Breaking capacity	Type											
		<b>VL160<sup>1)</sup></b> 3VL2			<b>VL250<sup>1)</sup></b> 3VL3		<b>VL400</b> 3VL4		<b>VL630</b> 3VL5	<b>VL800</b> 3VL6	<b>VL1250</b> 3VL7	<b>VL1600</b> 3VL8	
		Rated current $I_n$											
Trip unit		63 A	100 A	160 A	200 A	250 A	315 A	400 A	630 A	800 A	1000 A	1250 A	1600 A
Price													
ETU10	TB	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	NB	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	TA	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	NA	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	LA	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU12	TN	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU12	NN	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU40	UJ	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU42	UN	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	TE	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	NE	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	TF	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	NF	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	LF	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU22	TH	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU22	NH	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ Available

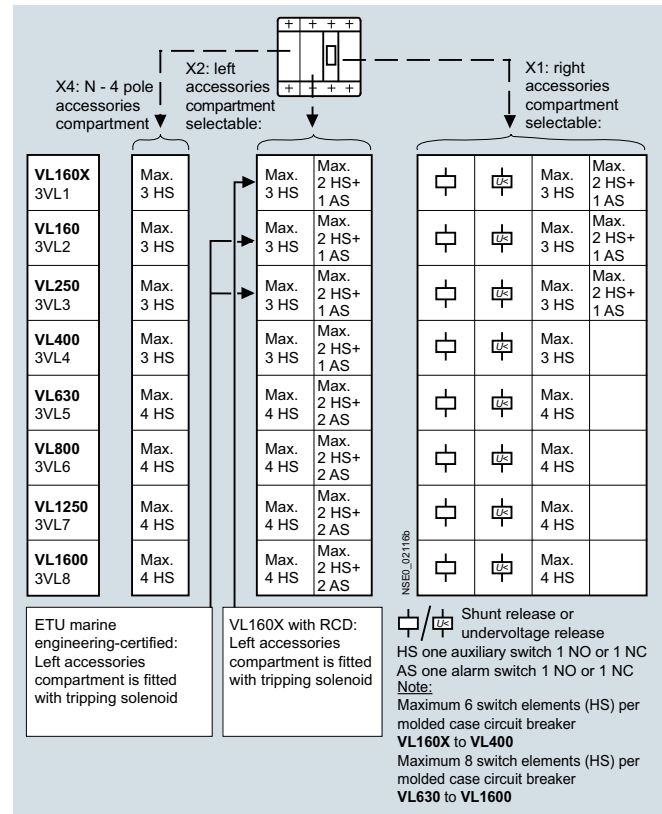
1) The basic price is reduced when the molded case circuit breaker is ordered with a flat screw terminal ".36-".

Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers

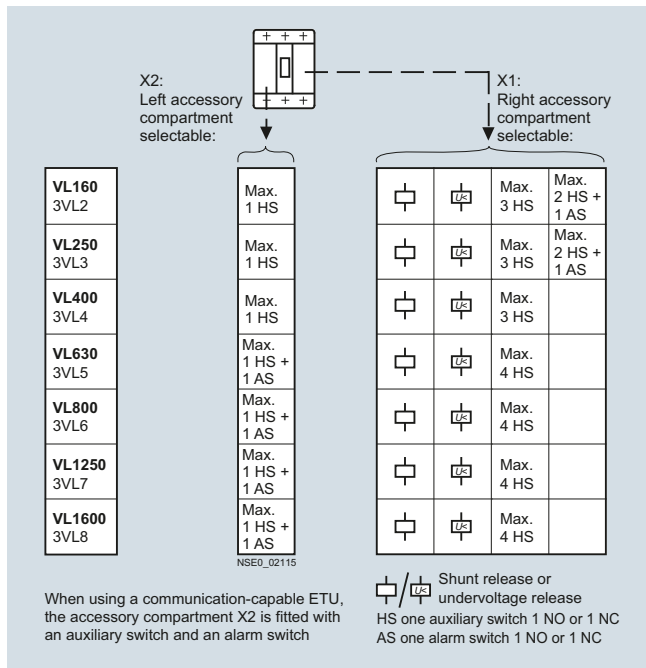
3-pole circuit breakers without communication preparation



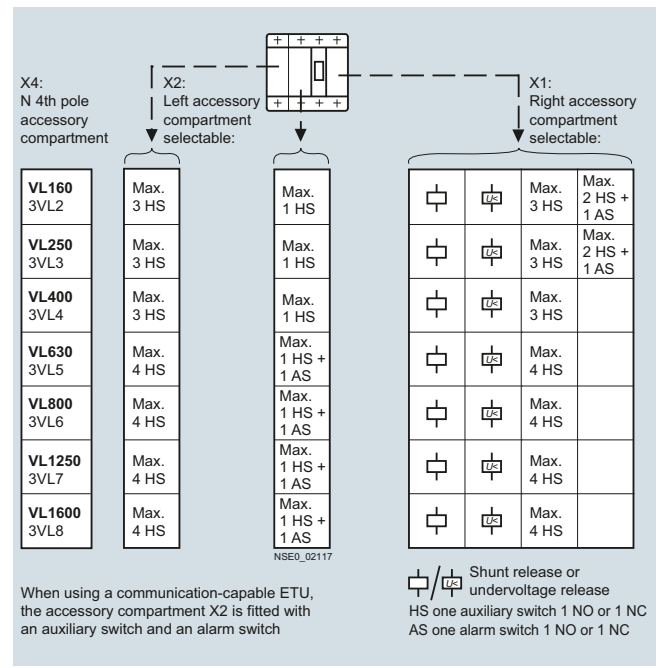
4-pole circuit breakers without communication preparation



3-pole circuit breakers with communication preparation



4-pole circuit breakers with communication preparation



Note:

Before ordering, use the tables above to check whether the required combination of shunt releases, undervoltage releases and auxiliary/alarm switches is feasible.

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Options

#### 1st Article No. supplement: Undervoltage or shunt release, wiring directly to accessories

Rated control supply voltage $U_c$ /frequency 50/60 Hz AC DC	Article No. supplement 3VL.....-...- □ □ ..	Circuit breakers Type VL160X to VL400/ 3VL1 to 3VL4 Additional price	VL630 to VL1600/ 3VL5 to 3VL8 Additional price
<b>3- or 4-pole</b>			
<b>Without auxiliary release</b>		<b>0 A</b>	<b>None</b>
<b>With undervoltage release</b> Only right pole			
V AC	V DC		
--	12	2 N	✓
--	24	2 P	✓
--	48	2 U	✓
--	60	2 V	✓
--	110 ... 127	2 R	✓
--	220 ... 250	2 S	✓
24	--	2 D	✓
110 ... 127	--	2 G	✓
220 ... 250	--	2 H	✓
208	--	2 M	✓
277	--	2 Q	✓
380 ... 415	--	2 J	✓
440 ... 480	--	2 K	✓
500 ... 525	--	2 L	✓
<b>With shunt release</b> Only right pole			
V AC	V DC		
24	24	8 C	✓
--	48 ... 60	8 J	✓
--	110 ... 127	8 K	✓
--	220 ... 250	8 Q	✓
48 ... 60	--	8 M	✓
110 ... 127	--	8 R	✓
208 ... 277	--	8 T	✓
380 ... 600	--	8 V	✓

#### 2nd Article No. supplement: Auxiliary switches (HS) and alarm switches (AS), left/right pole, directly wired to accessories

Equipment HS = 1 NO or 1 NC contact block AS = 1 NO contact block	Article No. supplement 3VL.....-...- .. □ □	Circuit breakers Type VL160X to VL400 <sup>1)</sup> / 3VL1 to 3VL4 Additional price	VL630 to VL1600/ 3VL5 to 3VL8 Additional price
<b>Without auxiliary/alarm switches</b>		<b>A 0</b>	<b>None</b>
2 HS (1 NO/1 NC) <sup>2)</sup>	B 1	✓ <sup>1)4)</sup>	--
4 HS (2 NO/2 NC)	C 1	✓	✓
2 HS (1 NO/1 NC) + 1 AS (1 NO)	D 1	✓ <sup>1)4)</sup>	--
2 HS (1 NO/1 NC) + 1 AS (1 NO) <sup>3)</sup>	E 1	--	✓ <sup>5)</sup>

✓ Additional price

-- Not available

- 1) Except for installation in the left accessory compartment of the VL160X molded case circuit breakers with RCD module.
- 2) With mounting adapter up to 3 HS.
- 3) With mounting adapter up to 2 HS + 2 AS.
- 4) Not feasible for use of marine engineering ETU and additional use of shunt and undervoltage releases.  
When using a communication-capable ETU, the accessory compartment X2 is fitted with an auxiliary switch and an alarm switch. The combination of 1st and 2nd Article No. supplement is only possible with restrictions. It is recommended to use the configurator in the Mall for selection purposes.
- 5) Not possible when using a communication-capable ETU.

Selection and ordering data

When ordering, add "-Z" to the complete Article No. and add the relevant order code(s). Article No. with "-Z" 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 3VL . . . . . -Z and additional order code(s) Additional price   + . . . + . . . Code for further versions -Z

For fixed-mounted circuit breakers (wired in factory)

3- or 4-pole

Description	Availability	Code	Additional price
<b>Prewired internal accessories</b> Connecting cables (3 m long) brought out at the rear This option "L02" can be selected only in combination with internal accessories (page 2/172).	For VL160X to VL1600 (3VL1 to 3VL8)	L 0 2	✓
<b>Prewired connecting cables for motorized operating mechanisms with stored energy mechanisms (SEO)</b> Connecting cables on the circuit breaker for motorized operating mechanisms (3 m long). On VL160X to VL400 brought out at the top. On VL630 and VL800 brought out on the right. Option "L12" can only be selected in combination with motorized operating mechanisms (order codes "M24", "M42", "M60", "M11" and "M22").	For VL160X to VL800 (3VL1 to 3VL6)	L 1 2	✓
<b>Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (24 V DC)</b> Motorized operating mechanisms <u>not</u> prewired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.	Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3)	M 2 4	✓
	VL400 (3VL4)		✓
	VL630, VL800 (3VL5, 3VL6)		✓
	VL1250, VL1600 (3VL7, 3VL8) <sup>1)</sup>		✓
<b>Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (42 ... 48 V AC/DC)</b> Motorized operating mechanisms <u>not</u> prewired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.	Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3)	M 4 2	✓
	VL400 (3VL4)		✓
	VL630, VL800 (3VL5, 3VL6)		✓
	VL1250, VL1600 (3VL7, 3VL8) <sup>1)</sup>		✓
<b>Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (60 V AC/DC)</b> Motorized operating mechanisms <u>not</u> prewired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.	Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3)	M 6 0	✓
	VL400 (3VL4)		✓
	VL630, VL800 (3VL5, 3VL6)		✓
	VL1250, VL1600 (3VL7, 3VL8) <sup>1)</sup>		✓
<b>Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (110 ... 127 V AC/DC)</b> Motorized operating mechanisms <u>not</u> prewired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.	Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3)	M 1 1	✓
	VL400 (3VL4)		✓
	VL630, VL800 (3VL5, 3VL6)		✓
	VL1250, VL1600 (3VL7, 3VL8) <sup>1)</sup>		✓
<b>Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (220 ... 250 V AC/DC)</b> Motorized operating mechanisms <u>not</u> prewired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.	Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3)	M 2 2	✓
	VL400 (3VL4)		✓
	VL630, VL800 (3VL5, 3VL6)		✓
	VL1250, VL1600 (3VL7, 3VL8) <sup>1)</sup>		✓

✓ Additional price

<sup>1)</sup> The motorized operating mechanism for VL1250 and VL1600 (3VL7 and 3VL8) has no stored energy mechanism and is also unsuitable for synchronization tasks.

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Options

2

When ordering, add "-Z" to the complete Article No. and add the relevant order code(s).

Article No. with "-Z"  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  
**3VL . . . . . -Z**  
 and additional order code(s)  
 □ □ □ + . . . + . . .

Additional price

Code for further versions **-Z**

#### For fixed-mounted circuit breakers (wired in factory)

##### 3- or 4-pole

Pre-mounted motorized operating mechanisms (24 V DC) on circuit breaker, not synchronizable	Available with VL160X (3VL1) VL160, VL250 (3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6)	M 2 5	✓
If internal accessories are provided, the rewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.			✓
			✓
			✓
			✓
Pre-mounted motorized operating mechanisms (42 ... 60 V AC/DC) on circuit breaker, not synchronizable	Available with VL160X (3VL1) VL160, VL250 (3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6)	M 4 3	✓
If internal accessories are provided, the rewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.			✓
			✓
			✓
			✓
Pre-mounted motorized operating mechanisms (110 ... 127 V AC/DC) on circuit breaker, not synchronizable	Available with VL160X (3VL1) VL160, VL250 (3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6)	M 1 2	✓
If internal accessories are provided, the rewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.			✓
			✓
			✓
			✓
Pre-mounted motorized operating mechanisms (220 ... 250 V AC/DC) on circuit breaker, not synchronizable	Available with VL160X (3VL1) VL160, VL250 (3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6)	M 2 3	✓
If internal accessories are provided, the rewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.			✓
			✓
			✓
			✓

✓ Additional price

## Selection and ordering data

Wiring directly to accessories		DT	For VL160X to VL400 (3VL1 to 3VL4)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			Article No. <a href="http://www.siemens.com/product?ArticleNo">www.siemens.com/product?ArticleNo</a>					kg
<b>Auxiliary switches and auxiliary releases</b>								
<b>3- or 4-pole</b>								
For retrofitting (for equipment options, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .)								
<b>Auxiliary switches (HS) and alarm switches (AS)</b>								
For retrofitting								
Assembly kits		Mounting side						
2 HS (1 NO + 1 NC)		N, left <sup>1)</sup> , right		3VL9400-2AB00	1	1 unit	1CC	0.056
4 HS (2 NO + 2 NC)		N, left <sup>1)</sup> , right		--				
2 HS (1 NC + 1 NO)		left <sup>1)</sup> , right <sup>3)</sup>		3VL9400-2AD00	1	1 unit	1CC	0.089
+ 1 AS (1 NO) (assembly kit)		left <sup>1)</sup>		--				
Additional auxiliary switch/alarm switch combinations				See page 2/177.				
<b>Shunt releases<sup>2)</sup></b>								
For retrofitting								
V AC	V DC	Mounting side						
24	24	Right pole only		3VL9400-1SC00	1	1 unit	1CC	0.100
--	48 ... 60	Right pole only		3VL9400-1SJ00	1	1 unit	1CC	0.103
--	110 ... 127	Right pole only		3VL9400-1SK00	1	1 unit	1CC	0.099
--	220 ... 250	Right pole only		3VL9400-1SQ00	1	1 unit	1CC	0.098
48 ... 60	--	Right pole only		3VL9400-1SM00	1	1 unit	1CC	0.103
110 ... 127	--	Right pole only		3VL9400-1SR00	1	1 unit	1CC	0.101
208 ... 277	--	Right pole only		3VL9400-1ST00	1	1 unit	1CC	0.097
380 ... 600	--	Right pole only		3VL9400-1SV00	1	1 unit	1CC	0.106
<b>Undervoltage releases</b>								
For retrofitting								
V AC	V DC	Mounting side						
--	12	Right pole only		3VL9400-1UN00	1	1 unit	1CC	0.100
--	24	Right pole only		3VL9400-1UP00	1	1 unit	1CC	0.099
--	48	Right pole only		3VL9400-1UU00	1	1 unit	1CC	0.100
--	60	Right pole only		3VL9400-1UV00	1	1 unit	1CC	0.098
24	--	Right pole only		3VL9400-1UD00	1	1 unit	1CC	0.104
110 ... 127	--	Right pole only		3VL9400-1UG00	1	1 unit	1CC	0.104
--	110 ... 127	Right pole only		3VL9400-1UR00	1	1 unit	1CC	0.099
208	--	Right pole only		3VL9400-1UM00	1	1 unit	1CC	0.103
220 ... 250	--	Right pole only		3VL9400-1UH00	1	1 unit	1CC	0.105
--	220 ... 250	Right pole only		3VL9400-1US00	1	1 unit	1CC	0.102
277	--	Right pole only		3VL9400-1UQ00	1	1 unit	1CC	0.100
380 ... 415	--	Right pole only		3VL9400-1UJ00	1	1 unit	1CC	0.103
440 ... 480	--	Right pole only		3VL9400-1UK00	1	1 unit	1CC	0.103
500 ... 525	--	Right pole only		3VL9400-1UL00	1	1 unit	1CC	0.103
<b>Time-delay devices for undervoltage releases (220 ... 250 V DC)</b>								
Rated control supply voltage $U_s$ 220 ... 250 V AC								
Delay time > 200 ms				3TX4701-0AN1	1	1 unit	41B	0.168
<b>Storage devices for shunt releases (208 ... 277 V AC/220 ... 250 V DC)</b>								
Rated control supply voltage $U_s$ 220 V ... 240 V AC/220 V ... 250 V DC								
Storage time 5 min				3WL9111-0BA14-0AA0	1	1 unit	1CA	0.520

<sup>1)</sup> Except for installation in the left accessory compartment of the VL160X (3VL1) molded case circuit breakers with RCD module.

<sup>2)</sup> Shunt releases with disconnection contact (3SB3 for ON/OFF position) not floating (see Technical Information at [www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)).

<sup>3)</sup> In the case of VL400 (3VL4):  
Unsuitable for mounting in the right-hand accessory compartment.  
The 3VL9400-2AB00 assembly kit with auxiliary switches only is recommended.

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

2

Wiring directly to accessories	DT	<b>For VL630 up to VL1600 (3VL5 to 3VL8)</b>	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Price per PU			kg

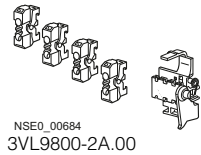
#### Auxiliary switches and auxiliary releases

##### 3- or 4-pole

For retrofitting (for equipment options, see Technical Information at [www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support).)

##### Auxiliary switches (HS) and alarm switches (AS)

For retrofitting



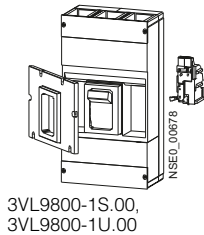
Assembly kits	Mounting side					
2 HS (1 NO + 1 NC)	N, left, right	--				
4 HS (2 NO + 2 NC)	N, left, right	3VL9800-2AC00	1	1 unit	1CC	0.089
2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	Left, right Left	3VL9800-2AE00	1	1 unit	1CC	0.080

Additional auxiliary switch/alarm switch combinations

See page 2/177.

##### Shunt releases<sup>1)</sup>

For retrofitting



V AC	V DC	Mounting side				
24	24	Right pole only	3VL9800-1SC00	1	1 unit	1CC 0.151
--	48 ... 60	Right pole only	3VL9800-1SJ00	1	1 unit	1CC 0.150
--	110 ... 127	Right pole only	3VL9800-1SK00	1	1 unit	1CC 0.153
--	220 ... 250	Right pole only	3VL9800-1SQ00	1	1 unit	1CC 0.150
48 ... 60	--	Right pole only	3VL9800-1SM00	1	1 unit	1CC 0.150
110 ... 127	--	Right pole only	3VL9800-1SR00	1	1 unit	1CC 0.155
208 ... 277	--	Right pole only	3VL9800-1ST00	1	1 unit	1CC 0.147
380 ... 600	--	Right pole only	3VL9800-1SV00	1	1 unit	1CC 0.150

##### Undervoltage releases

For retrofitting

V AC	V DC	Mounting side				
--	12	Right pole only	3VL9800-1UN00	1	1 unit	1CC 0.123
--	24	Right pole only	3VL9800-1UP00	1	1 unit	1CC 0.119
--	48	Right pole only	3VL9800-1UU00	1	1 unit	1CC 0.114
--	60	Right pole only	3VL9800-1UV00	1	1 unit	1CC 0.115
24	--	Right pole only	3VL9800-1UD00	1	1 unit	1CC 0.118
110 ... 127	--	Right pole only	3VL9800-1UG00	1	1 unit	1CC 0.114
--	110 ... 127	Right pole only	3VL9800-1UR00	1	1 unit	1CC 0.115
208	--	Right pole only	3VL9800-1UM00	1	1 unit	1CC 0.114
220 ... 250	--	Right pole only	3VL9800-1UH00	1	1 unit	1CC 0.114
--	220 ... 250	Right pole only	3VL9800-1US00	1	1 unit	1CC 0.114
277	--	Right pole only	3VL9800-1UQ00	1	1 unit	1CC 0.121
380 ... 415	--	Right pole only	3VL9800-1UJ00	1	1 unit	1CC 0.112
440 ... 480	--	Right pole only	3VL9800-1UK00	1	1 unit	1CC 0.115
500 ... 525	--	Right pole only	3VL9800-1UL00	1	1 unit	1CC 0.116

##### Time-delay devices for undervoltage releases (220 ... 250 V DC)

Rated control supply voltage  $U_s$

220 ... 250 V AC

Delay time > 200 ms

3TX4701-0AN1 1 1 unit 41B 0.168

##### Storage devices for shunt releases (208 ... 277 V AC/220 ... 250 V DC)

Rated control supply voltage  $U_s$

220 V ... 240 V AC/220 V ... 250 V DC

Storage time 5 min

3WL9111-0BA14-0AA0 1 1 unit 1CA 0.520

<sup>1)</sup> Shunt releases with disconnection contact (3SB3 for ON/OFF position) not floating (see Technical Information at [www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)).

For circuit breakers	Maximum combination of auxiliary switches (HS) and alarm switches (AS)	DT	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
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Type

**3SB adapters and 3SB contact blocks****Mounting adapters for auxiliary and alarm switch combinations****For installation in the N pole of the circuit breaker**

VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS <sup>1)</sup>		<b>3VL9400-2AH00</b>		1	1 unit	1CC	0.038
	2 HS + 1 AS <sup>1)2)</sup>		--					

VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS		<b>3VL9816-2AL00</b>		1	1 unit	1CC	0.055
	2 HS + 2 AS		--					

**For installation in the left pole of the circuit breaker**

VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS <sup>1)</sup>		<b>3VL9400-2AH00</b>		1	1 unit	1CC	0.038
	2 HS + 1 AS <sup>1)2)</sup>		<b>3VL9400-2AJ10</b>		1	1 unit	1CC	0.040

VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS		<b>3VL9816-2AL00</b>		1	1 unit	1CC	0.055
	2 HS + 2 AS		<b>3VL9816-2AN10</b>		1	1 unit	1CC	0.058

**For installation in the right pole of the circuit breaker**

VL160X, VL160, VL250, VL400 (3VL1 to 3VL4) <sup>2)</sup>	Up to 3 HS <sup>1)</sup>		<b>3VL9400-2AH00</b>		1	1 unit	1CC	0.038
	2 HS + 1 AS <sup>1)2)</sup>		<b>3VL9400-2AJ20</b>		1	1 unit	1CC	0.039

VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS		<b>3VL9816-2AL00</b>		1	1 unit	1CC	0.055
	2 HS + 2 AS		--					

<sup>1)</sup> Except for installing in the left pole for VL160X (3VL1) molded case circuit breakers with RCD module.

<sup>2)</sup> In the case of VL400: 3VL9400-2AJ20 unsuitable for mounting in the right-hand accessory compartment.

For auxiliary switches (HS) and alarm switches (AS)	DT	Circuit breakers Type <b>VL160X to VL1600 (3VL1 to 3VL8)</b>	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
---	----	---	--	--------------	-------------------	-------------	----	-----------------------------

**Contact blocks for auxiliary switch (HS) and alarm switch (AS) combinations**

1 NO			<b>3SB3400-0J</b>		1	1 unit	41J	0.009
1 NC			<b>3SB3400-0K</b>		1	1 unit	41J	0.009

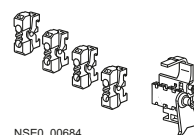
For auxiliary switch or alarm switch combinations not included in the kits provided as standard, the mounting adapters specified can be ordered separately together with the required contact blocks:

- 1 HS or 1 AS with NO contact 3SB3400-0J
- 1 HS or 1 AS with NC contact 3SB3400-0K

**Note:**

A maximum of 6 contact blocks (HS) per circuit breaker (VL160X, VL160, VL250, VL400; 3VL1 to 3VL4) and a maximum of 8 contact blocks (HS) per circuit breaker (VL630, VL800, VL1250, VL1600; 3VL5 to 3VL8) are possible.

Four 3SB34 auxiliary contact blocks and one mounting adapter (right), suitable for VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8) circuit breakers.



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For retrofitting/equipment options, see Technical Information at [www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support).

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

2

Version	DT	For VL160X to VL250 (3VL1 to 3VL3)	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Price per PU			
<b>Manual operating mechanisms</b>						
<b>3- or 4-pole</b>						
<b>Front-operated rotary operating mechanisms<sup>1)</sup></b>						
For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 <sup>2)</sup> , black, max. 3 padlocks						
<u>EMERGENCY-STOP version</u>						
Red knob, yellow indicator plate						
Safety locks for installation by the customer, <a href="#">see pages 2/200 to 2/204.</a>						
		<b>3VL9300-3HA00</b>		1	1 unit	1CC 0.534
3VL9.00-3H.00		<b>3VL9300-3HC00</b>		1	1 unit	1CC 0.500
<b>Front-operated rotary operating mechanisms with shaft stub, without knob<sup>1)</sup></b>						
Without leading auxiliary switch, for auxiliary switches, <a href="#">see below.</a>						
		<b>3VL9300-3HE00</b>		1	1 unit	1CC 0.411
3VL9300-3HE00						
<b>Door-coupling rotary operating mechanisms, complete<sup>1)</sup> Installation in doors and covers</b>						
Degree of protection IP65, including handle ti-grey, with masking plate, indicator plate, removable door coupling (die cast with reduced tolerance compensation), extension shaft (8 × 8 mm), length 300 mm and front-operated rotary operating mechanism for the respective circuit breaker, lockable with up to 3 padlocks, with door interlocking						
		<b>3VL9300-3HF05</b>		1	1 unit	1CC 0.800
3VL9.00-3H.05		<b>3VL9300-3HG05</b>		1	1 unit	1CC 0.800
<u>EMERGENCY-STOP version</u>						
Red knob, yellow indicator plate, without leading auxiliary switch						
Safety locks for installation by the customer, <a href="#">see pages 2/200 to 2/204.</a>						
<b>Leading auxiliary switches for installation in a front-operated rotary operating mechanism, door-coupling rotary operating mechanism or side panel rotary operating mechanism</b>						
Standard or EMERGENCY-STOP version						
<u>"OFF after ON"</u>						
Leading auxiliary switches when switching on						
1 changeover contact with 1.5 m long cables						
<b>3VL9300-3AS10</b>						
1 1 unit 1CC 0.113						
2 changeover contacts with 1.5 m long cables						
<b>3VL9300-3AT10</b>						
1 1 unit 1CC 0.183						
<u>"ON after OFF"</u>						
Leading auxiliary switches when switching off						
1 changeover contact with 1.5 m long cables						
<b>3VL9300-3AU10</b>						
1 1 unit 1CC 0.109						
2 changeover contacts with 1.5 m long cables						
<b>3VL9300-3AW10</b>						
1 1 unit 1CC 0.189						
<b>Side panel rotary operating mechanisms, complete<sup>1)</sup></b>						
Degree of protection IP65, including black knob with masking plate, indicator plate, Bowden wire, lockable with up to 3 padlocks						
- With 600 mm Bowden wire						
<b>3VL9300-3HR10</b>						
1 1 unit 1CC 1.758						
- With 1000 mm Bowden wire						
<b>3VL9300-3HR20</b>						
1 1 unit 1CC 2.100						
- With 1500 mm Bowden wire						
<b>3VL9300-3HR30</b>						
1 1 unit 1CC 1.900						
<b>Side panel rotary operating mechanisms, complete<sup>1)</sup></b>						
<u>EMERGENCY-STOP version</u>						
Degree of protection IP65, including red knob with masking plate, yellow indicator plate, Bowden wire, lockable with up to 3 padlocks						
- With 600 mm Bowden wire						
<b>3VL9300-3HR11</b>						
1 1 unit 1CC 2.100						
- With 1000 mm Bowden wire						
<b>3VL9300-3HR21</b>						
1 1 unit 1CC 2.100						
- With 1500 mm Bowden wire						
<b>3VL9300-3HR31</b>						
1 1 unit 1CC 2.100						
<b>Retaining brackets, suitable for matching door-coupling rotary operating mechanisms, complete with locking device</b>						
Retaining bracket is mounted on the operating mechanism, recommended for extension shafts > 250 mm						
<b>3VL9300-3HP02</b>						
1 1 unit 1CC 0.409						
- For 6 mm shaft						
<b>3VL9300-3HP00</b>						
1 1 unit 1CC 0.385						

Additional accessories and components for door-coupling rotary operating mechanism, [see pages 2/183 and 2/185.](#)

<sup>1)</sup> Not possible on VL160X with RCD module.

<sup>2)</sup> IP40 with additional masking frame mounted on the door cutout

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### Accessories and spare parts

2




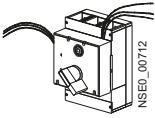
DT	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>							Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>					
	3VL9400-3HA00		1	1 unit	1CC	1.281		3VL9600-3HA00		1	1 unit	1CC	1.373
	3VL9400-3HC00		1	1 unit	1CC	1.291		3VL9600-3HC00		1	1 unit	1CC	1.404
	3VL9400-3HE00		1	1 unit	1CC	1.126		3VL9600-3HE00		1	1 unit	1CC	1.154
	3VL9400-3HF05		1	1 unit	1CC	1.510		3VL9600-3HF05		1	1 unit	1CC	1.660
	3VL9400-3HG05		1	1 unit	1CC	1.569		3VL9600-3HG05		1	1 unit	1CC	1.640
	3VL9400-3AS10		1	1 unit	1CC	0.082		3VL9600-3AS10		1	1 unit	1CC	0.098
	3VL9400-3AT10		1	1 unit	1CC	0.181		3VL9600-3AT10		1	1 unit	1CC	0.148
	3VL9400-3AU10		1	1 unit	1CC	0.117		3VL9600-3AU10		1	1 unit	1CC	0.111
	3VL9400-3AW10		1	1 unit	1CC	0.185		3VL9600-3AW10		1	1 unit	1CC	0.181
	3VL9400-3HR10		1	1 unit	1CC	2.640		3VL9500-3HR10		1	1 unit	1CC	2.705
	3VL9400-3HR20		1	1 unit	1CC	2.657		3VL9500-3HR20		1	1 unit	1CC	2.852
	3VL9400-3HR30		1	1 unit	1CC	2.690		3VL9500-3HR30		1	1 unit	1CC	2.852
	3VL9400-3HR11		1	1 unit	1CC	2.619		3VL9500-3HR11		1	1 unit	1CC	2.870
	3VL9400-3HR21		1	1 unit	1CC	2.660		3VL9500-3HR21		1	1 unit	1CC	2.889
	3VL9400-3HR31		1	1 unit	1CC	3.500		3VL9500-3HR31		1	1 unit	1CC	2.940
	3VL9400-3HP00		1	1 unit	1CC	0.516		3VL9600-3HP00		1	1 unit	1CC	0.562
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## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

2

Version	DT	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Manual operating mechanisms</b>							
<b>3- or 4-pole</b>							
 <p>3VL9.00-3H.00</p>	<b>Front-operated rotary operating mechanisms</b> For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 <sup>1)</sup> , <u>black</u> , max. 3 padlocks EMERGENCY-STOP version Red knob, yellow indicator plate Safety locks for installation by the customer, <a href="#">see pages 2/200 to 2/204</a> .		<b>3VL9600-3HA00</b>	1	1 unit	1CC	1.373
			<b>3VL9600-3HC00</b>	1	1 unit	1CC	1.404
 <p>3VL9.00-3H.05</p>	<b>Front-operated rotary operating mechanisms with shaft stub, without knob</b> Without leading auxiliary switch, for auxiliary switches, <a href="#">see below</a> .		<b>3VL9600-3HE00</b>	1	1 unit	1CC	1.154
 <p>3VL9.00-3H.05</p>	<b>Door-coupling rotary operating mechanisms, complete</b> <b>Installation in doors and covers</b> Degree of protection IP65, including handle, <u>ti-grey</u> , with masking plate, indicator plate, detachable door coupling (die cast, for VL800 (3VL6) with reduced tolerance compensation), extension shaft (8 × 8 mm for VL800 (3VL6), 12 × 12 mm for VL1250 (3VL7) and VL1600 (3VL8), length 300 mm and front-operated rotary operating mechanism for the respective circuit breaker, lockable with max. 3 padlocks, with door interlocking EMERGENCY-STOP version, Red knob, yellow indicator plate, without leading auxiliary switch Safety locks for installation by the customer, <a href="#">see pages 2/200 to 2/204</a> .		<b>3VL9600-3HF05</b>	1	1 unit	1CC	1.660
			<b>3VL9600-3HG05</b>	1	1 unit	1CC	1.640
 <p>3VL9.00-3A.10</p>	<b>Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism</b> Standard or EMERGENCY-STOP version "OFF after ON" Leading auxiliary switches when switching on 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables "ON after OFF" Leading auxiliary switches when switching off 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables		<b>3VL9600-3AS10</b>	1	1 unit	1CC	0.098
			<b>3VL9600-3AT10</b>	1	1 unit	1CC	0.148
			<b>3VL9600-3AU10</b>	1	1 unit	1CC	0.111
			<b>3VL9600-3AW10</b>	1	1 unit	1CC	0.181
		<b>Retaining brackets, suitable for matching door-coupling rotary operating mechanisms, complete with locking device</b> Retaining bracket is mounted on the operating mechanism, recommended for extension shafts > 250 mm	<b>3VL9600-3HP00</b>	1	1 unit	1CC	0.562

Additional accessories and components for door-coupling rotary operating mechanism, [see pages 2/183 and 2/185](#).

<sup>1)</sup> IP40 with additional masking frame mounted on the door cutout.

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, IEC

**Accessories and spare parts**

DT	For VL1250 to VL1600 (3VL7 to 3VL8)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
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3VL9800-3HA00

1 1 unit 1CC 3.562

3VL9800-3HC00

1 1 unit 1CC 3.580

3VL9800-3HE00

1 1 unit 1CC 2.859

3VL9800-3HF05

1 1 unit 1CC 3.940

3VL9800-3HG05

1 1 unit 1CC 3.980

3VL9800-3AS20

1 1 unit 1CC 0.122

3VL9800-3AT20

1 1 unit 1CC 0.172

3VL9800-3AU10

1 1 unit 1CC 0.124

3VL9800-3AW10

1 1 unit 1CC 0.196

3VL9800-3HP00

1 1 unit 1CC 0.630

2

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, IEC

**Accessories and spare parts**

2

Version	DT	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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**Motorized operating mechanisms****3- or 4-pole****Motorized operating mechanisms with stored energy mechanisms (SEO) for synchronization tasks<sup>1)2)</sup>**

Degree of protection IP30, with locking device for 3 padlocks



3VL9.00-3M.00

50/60 Hz V AC	V DC	For VL160X to VL250 (3VL1 to 3VL3)					
--	24	3VL9300-3MJ00	1	1 unit	1CC	2.755	
42 ... 48	42 ... 48	3VL9300-3ML00	1	1 unit	1CC	2.810	
60	60	3VL9300-3MS00	1	1 unit	1CC	2.773	
110 ... 127	110 ... 127	3VL9300-3MN00	1	1 unit	1CC	2.782	
220 ... 250	220 ... 250	3VL9300-3MQ00	1	1 unit	1CC	2.802	

50/60 Hz V AC	V DC	For VL400 (3VL4)					
--	24	3VL9400-3MJ00	1	1 unit	1CC	4.610	
42 ... 48	42 ... 48	3VL9400-3ML00	1	1 unit	1CC	4.594	
60	60	3VL9400-3MS00	1	1 unit	1CC	4.596	
110 ... 127	110 ... 127	3VL9400-3MN00	1	1 unit	1CC	4.602	
220 ... 250	220 ... 250	3VL9400-3MQ00	1	1 unit	1CC	4.593	

50/60 Hz V AC	V DC	For VL630 and VL800 (3VL5 and 3VL6)					
--	24	3VL9600-3MJ00	1	1 unit	1CC	5.630	
42 ... 48	42 ... 48	3VL9600-3ML00	1	1 unit	1CC	5.486	
60	60	3VL9600-3MS00	1	1 unit	1CC	5.662	
110 ... 127	110 ... 127	3VL9600-3MN00	1	1 unit	1CC	5.473	
220 ... 250	220 ... 250	3VL9600-3MQ00	1	1 unit	1CC	5.639	

**Motorized operating mechanisms (MO)<sup>1)</sup>**  
Degree of protection IP30, with locking device for 3 padlocks

3VL9.00-3M.10

50/60 Hz V AC	V DC	For VL160X (3VL1)					
--	24	3VL9100-3MA10	1	1 unit	1CC	1.807	
42 ... 60	42 ... 60	3VL9100-3MC10	1	1 unit	1CC	1.790	
110 ... 127	110 ... 127	3VL9100-3MD10	1	1 unit	1CC	1.770	
220 ... 250	220 ... 250	3VL9100-3ME10	1	1 unit	1CC	1.802	

50/60 Hz V AC	V DC	For VL160 and VL250 (3VL2 and 3VL3)					
--	24	3VL9300-3MA10	1	1 unit	1CC	1.800	
42 ... 60	42 ... 60	3VL9300-3MC10	1	1 unit	1CC	1.799	
110 ... 127	110 ... 127	3VL9300-3MD10	1	1 unit	1CC	1.797	
220 ... 250	220 ... 250	3VL9300-3ME10	1	1 unit	1CC	1.805	

50/60 Hz V AC	V DC	For VL400 (3VL4)					
--	24	3VL9400-3MA10	1	1 unit	1CC	2.298	
42 ... 60	42 ... 60	3VL9400-3MC10	1	1 unit	1CC	2.330	
110 ... 127	110 ... 127	3VL9400-3MD10	1	1 unit	1CC	2.320	
220 ... 250	220 ... 250	3VL9400-3ME10	1	1 unit	1CC	2.325	

50/60 Hz V AC	V DC	For VL630 and VL800 (3VL5 and 3VL6)					
--	24	3VL9600-3MA10	1	1 unit	1CC	2.310	
42 ... 60	42 ... 60	3VL9600-3MC10	1	1 unit	1CC	2.261	
110 ... 127	110 ... 127	3VL9600-3MD10	1	1 unit	1CC	2.329	
220 ... 250	220 ... 250	3VL9600-3ME10	1	1 unit	1CC	2.332	

50/60 Hz V AC	V DC	For VL1250 and VL1600 <sup>2)</sup> (3VL7 and 3VL8)					
--	24	3VL9800-3MJ00	1	1 unit	1CC	7.910	
42 ... 48	42 ... 48	3VL9800-3ML00	1	1 unit	1CC	7.945	
60	60	3VL9800-3MS00	1	1 unit	1CC	7.945	
110 ... 127	110 ... 127	3VL9800-3MN00	1	1 unit	1CC	7.861	
220 ... 250	220 ... 250	3VL9800-3MQ00	1	1 unit	1CC	7.865	

**Toggle lever extension****Toggle lever extension**

- For VL400 (3VL4)
- For VL630 and VL800 (3VL5 and 3VL6)
- For VL1250 and VL1600 (3VL7 and 3VL8)

**For VL400 up to VL1600  
(3VL4 to 3VL8)**

3VL9400-3HN00	1	1 unit	1CC	0.023
3VL9600-3HN00	1	1 unit	1CC	0.030
3VL9800-3HN00	1	1 unit	1CC	0.251




<sup>1)</sup> Not possible on VL160X with RCD module.<sup>2)</sup> For safety lock as an assembly kit for retrofitting see pages 2/200 to 2/204.

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

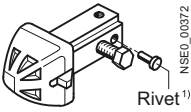
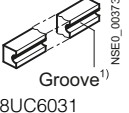
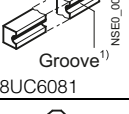
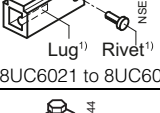
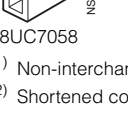
#### Accessories and spare parts

2

Switching devices	Rotary operating mechanisms	Size	Cross-section of the actuating shaft	Version <sup>1)</sup>	DT	Individual parts for 8UC7 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Type	Type	mm × mm				Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU			kg
<b>Individual parts for 8UC door-coupling rotary operating mechanisms<sup>2)</sup></b>										
<b>Handles with masking plate (including flat gasket and fixing screws)</b>										
	3VL1, 3VL2, 3VL3	8UC71	1	6 × 6 or 8 × 8	Standard EMERGENCY-STOP	8UC7110-6BD 8UC7120-8BD	1 1	1 unit 1 unit	1CL 1CL	0.185 0.183
8UC7110-1BB										
	3VL4, 3VL5, 3VL6	8UC72	2	8 × 8	Standard EMERGENCY-STOP	8UC7210-6BD 8UC7220-8BD	1 1	1 unit 1 unit	1CL 1CL	0.189 0.194
8UC7210-6BD										
	3VL7, 3VL8	8UC73	3	12 × 12	Standard EMERGENCY-STOP	8UC7310-6BD 8UC7320-8BD	1 1	1 unit 1 unit	1CL 1CL	0.485 0.488
8UC7310-1BB										

<sup>1)</sup> Standard: Ti-grey handle, light-gray masking plate; EMERGENCY-STOP: Red handle, yellow masking plate.

<sup>2)</sup> Cannot be used for side panel rotary operating mechanisms

Rotary operating mechanisms	Cross-section of the actuating shaft	DT	Individual parts for 8UC6 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Type	mm × mm		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU			kg
<b>Individual parts for 8UC door-coupling rotary operating mechanisms</b>							
<b>Coupling drivers for 3VL</b>							
	8UC71 (plastic) 8UC71/8UC72 <sup>2)</sup> (die cast) 8UC73/74 (die cast)	6 × 6 8 × 8 12 × 12	8UC7011-2AA 8UC6017-2AA 8UC6014	1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL	0.051 0.047 0.234
8UC6014							
<b>Extension shafts 300 mm long</b>							
	8UC71 8UC71/8UC72 8UC73 8UC73/74	6 × 6 8 × 8 10 × 10 12 × 12	8UC6031 8UC6032 8UC6033 8UC6034	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL	0.068 0.135 0.215 0.316
8UC6031							
<b>Extension shafts 600 mm long</b>							
	8UC71 8UC71/8UC72 8UC73 8UC73/74	6 × 6 8 × 8 10 × 10 12 × 12	8UC6081 8UC6082 8UC6083 8UC6084	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL	0.136 0.265 0.424 0.628
8UC6081							
<b>Shaft couplings</b>							
	8UC71 8UC72 8UC73 8UC73/74	6 × 6 8 × 8 10 × 10 12 × 12	8UC6021 8UC6022 8UC6023 8UC6024	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL	0.027 0.022 0.084 0.078
8UC6021 to 8UC6024							
<b>Reducers</b>							
	8UC71 8UC72	8 × 8 to 6 × 6 12 × 12 to 8 × 8	8UC7058 8UC7050	1 1	1 unit 1 unit	1CL 1CL	0.024 0.081
8UC7058							

<sup>1)</sup> Non-interchangeability features.

<sup>2)</sup> Shortened coupling driver with reduced tolerance compensation.

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC


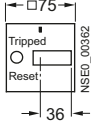


### Accessories and spare parts


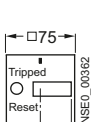


2

Switching devices	Rated current	Cross-section of the actuating shaft	Torque	Rotary operating mechanisms	Illustrated: Handle, masking plate
Type	A	mm	Nm	Size	

#### 8UC door-coupling rotary operating mechanisms


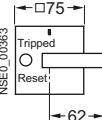


##### 8UC71 – 3VL circuit breakers

	3VL1	16 ... 160	6 × 6	4	1	
	3VL2	50 ... 160	6 × 6	4		
	3VL3	200... 250	6 × 6	4		


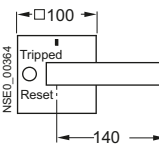

	3VL1	16 ... 160	8 × 8	4	1	
	3VL2	50 ... 160	8 × 8	4		
	3VL3	200... 250	8 × 8	4		

(Supplied with door-coupling rotary operating mechanism, complete 3VL9300-3H.05)

##### 8UC72 – 3VL circuit breakers

	3VL4	200 ... 400	8 × 8	9	2	
	3VL5	315 ... 600	8 × 8	9		
	3VL6	320 ... 800	8 × 8	9		

##### 8UC73 – 3VL circuit breakers

	3VL7	400 ... 1250	12 × 12	25	3	
	3VL8	640 ... 1600	12 × 12	25		

<sup>1)</sup> Requires in addition a front-operated rotary operating mechanism with shaft stub for direct mounting to the circuit breaker. For ordering the complete operating mechanism, see pages 2/178 to 2/181.

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### Accessories and spare parts

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Version	DT	Rotary operating mechanisms, complete <sup>1)</sup>	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.	Individual parts of the rotary operating mechanism				
Standard: Ti-grey handle, light-gray masking plate EMERGENCY-STOP: Red handle, yellow masking plate		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU				Handle with masking plate	Coupling drivers	Extension shaft (length 300 mm)	Reducer/shaft coupling	
						kg	Article No.	Article No.	Article No.	Article No.	
Standard EMERGENCY-STOP (coupling driver made of plastic)		8UC7111-6BD15 8UC7121-8BD15		1	1 unit	1CL	0.359	8UC7110-6BD	□ 6 mm 8UC7011-2AA	□ 6 mm 8UC6031	□ 8 mm by 6 mm 8UC7058
				1	1 unit	1CL	0.335	8UC7120-8BD	8UC7011-2AA	8UC6031	8UC7058
Standard EMERGENCY-STOP (Die cast coupling driver with reduced tolerance compensation)		8UC7162-6BD22 8UC7172-8BD22		1	1 unit	1CL	0.414	8UC7110-6BD	□ 8 mm 8UC6017-2AA	□ 8 mm 8UC6032	□ 8 mm by 8 mm 8UC6022
				1	1 unit	1CL	0.418	8UC7120-8BD	8UC6017-2AA	8UC6032	8UC6022
Standard EMERGENCY-STOP (Die cast coupling driver with reduced tolerance compensation)		8UC7262-6BD26 8UC7262-8BD26		1	1 unit	1CL	0.461	8UC7210-6BD	□ 8 mm 8UC6017-2AA	□ 8 mm 8UC6032	□ 12 mm by 8 mm 8UC7050
				1	1 unit	1CL	0.482	8UC7220-8BD	8UC6017-2AA	8UC6032	8UC7050
Standard EMERGENCY-STOP (Die cast coupling driver)		8UC7314-6BD44 8UC7324-8BD44		1	1 unit	1CL	1.186	8UC7310-6BD	□ 12 mm 8UC6014	□ 12 mm 8UC6034	□ 12 mm by 12 mm 8UC6024
				1	1 unit	1CL	1.190	8UC7320-8BD	8UC6014	8UC6034	8UC6024

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

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Version	DT	For VL160X (3VL1) Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Plug-in versions/withdrawable versions</b>							
<b>3- or 4-pole</b>							
<b>Plug-in base assembly kits</b> Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin							
<b>Rear terminals</b>							
3-pole		<b>3VL9100-4PA30</b>		1	1 unit	1CC	2.490
3-pole with RCD module		<b>3VL9100-4PB30</b>		1	1 unit	1CC	2.839
4-pole		<b>3VL9100-4PA40</b>		1	1 unit	1CC	3.272
4-pole with RCD module		<b>3VL9100-4PB40</b>		1	1 unit	1CC	3.622
<b>90° angle connecting adapters</b>							
For rear connection, 3-pole		<b>3VL9300-4PE30</b>		1	1 unit	1CC	0.452
For rear connection, 4-pole		<b>3VL9300-4PE40</b>		1	1 unit	1CC	0.548
<b>Front-accessible connections</b>							
3-pole		<b>3VL9100-4PC30</b>		1	1 unit	1CC	2.291
3-pole with RCD module		<b>3VL9100-4PD30</b>		1	1 unit	1CC	2.624
4-pole		<b>3VL9100-4PC40</b>		1	1 unit	1CC	2.942
4-pole with RCD module		<b>3VL9100-4PD40</b>		1	1 unit	1CC	3.502
<b>Withdrawable version assembly kits</b> Upgrade of the plug-in base assembly kit to							
Withdrawable version	3-pole	--					
including side panels	3-pole with RCD	--					
and racking mechanism.	4-pole	--					
	4-pole with RCD	--					
<b>Withdrawable versions</b> Same as plug-in base assembly kit, with additional side panels and racking mechanism							
<b>Rear terminals</b>							
3-pole		--					
3-pole with RCD module		--					
4-pole		--					
4-pole with RCD module		--					
<b>Front-accessible connections</b>							
3-pole		--					
3-pole with RCD module		--					
4-pole		--					
4-pole with RCD module		--					
<b>Blade contacts</b> As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin							
1 set = 6 units	3-pole	<b>3VL9100-4PS30</b>		1	1 unit	1CC	0.312
1 set = 8 units	4-pole	<b>3VL9100-4PS40</b>		1	1 unit	1CC	0.396
<b>Trip pins and springs</b> As replacement for plug-in/withdrawable circuit breaker							
		<b>3VL9100-4PF00</b>		1	1 unit	1CC	0.012
<b>Auxiliary circuit plug connections for plug-in bases</b> Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)							
8 terminals		1) <b>3VL9300-4PJ00</b>		1	1 unit	1CC	0.197
<b>Position signaling switches</b> (Connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible							
		<b>3VL9000-4WL00</b>		1	1 unit	1CC	0.032



3VL9.00-4PA30



3VL9.00-4WA30



3VL9.00-4WA30

1) It is recommended to use a maximum of 2 auxiliary circuit plug-in systems per circuit breaker (16 terminals).

**Molded Case Circuit Breakers**

## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

## Accessories and spare parts




DT	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>							Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>					
	3VL9200-4PA30		1	1 unit	1CC	2.504		3VL9300-4PA30		1	1 unit	1CC	2.606
	3VL9200-4PB30		1	1 unit	1CC	2.991		3VL9300-4PB30		1	1 unit	1CC	3.120
	3VL9200-4PA40		1	1 unit	1CC	3.120		3VL9300-4PA40		1	1 unit	1CC	3.409
	3VL9200-4PB40		1	1 unit	1CC	3.614		3VL9300-4PB40		1	1 unit	1CC	3.762
	3VL9300-4PE30		1	1 unit	1CC	0.452		3VL9300-4PE30		1	1 unit	1CC	0.452
	3VL9300-4PE40		1	1 unit	1CC	0.548		3VL9300-4PE40		1	1 unit	1CC	0.548
	3VL9200-4PC30		1	1 unit	1CC	2.254		3VL9300-4PC30		1	1 unit	1CC	2.400
	3VL9200-4PD30		1	1 unit	1CC	2.368		3VL9300-4PD30		1	1 unit	1CC	2.668
	3VL9200-4PC40		1	1 unit	1CC	2.920		3VL9300-4PC40		1	1 unit	1CC	3.010
	3VL9200-4PD40		1	1 unit	1CC	3.395		3VL9300-4PD40		1	1 unit	1CC	3.500
	3VL9300-4WF30		1	1 unit	1CC	2.360		3VL9300-4WF30		1	1 unit	1CC	2.360
	3VL9300-4WG30		1	1 unit	1CC	2.740		3VL9300-4WG30		1	1 unit	1CC	2.740
	3VL9300-4WF40		1	1 unit	1CC	2.740		3VL9300-4WF40		1	1 unit	1CC	2.740
	3VL9300-4WG40		1	1 unit	1CC	3.551		3VL9300-4WG40		1	1 unit	1CC	3.551
	3VL9200-4WA30		1	1 unit	1CC	4.940		3VL9300-4WA30		1	1 unit	1CC	5.192
	3VL9200-4WB30		1	1 unit	1CC	6.301		3VL9300-4WB30		1	1 unit	1CC	9.800
	3VL9200-4WA40		1	1 unit	1CC	5.662		3VL9300-4WA40		1	1 unit	1CC	5.932
	3VL9200-4WB40		1	1 unit	1CC	6.919		3VL9300-4WB40		1	1 unit	1CC	6.935
	3VL9200-4WC30		1	1 unit	1CC	4.987		3VL9300-4WC30		1	1 unit	1CC	5.100
	3VL9200-4WD30		1	1 unit	1CC	6.045		3VL9300-4WD30		1	1 unit	1CC	6.249
	3VL9200-4WC40		1	1 unit	1CC	5.560		3VL9300-4WC40		1	1 unit	1CC	5.560
	3VL9200-4WD40		1	1 unit	1CC	6.732		3VL9300-4WD40		1	1 unit	1CC	6.895
	3VL9200-4PS30		1	1 unit	1CC	0.303		3VL9300-4PS30		1	1 unit	1CC	0.424
	3VL9200-4PS40		1	1 unit	1CC	0.381		3VL9300-4PS40		1	1 unit	1CC	0.535
	3VL9300-4PF00		1	1 unit	1CC	0.006		3VL9300-4PF00		1	1 unit	1CC	0.006
	1) 3VL9300-4PJ00		1	1 unit	1CC	0.197		1) 3VL9300-4PJ00		1	1 unit	1CC	0.197
	3VL9000-4WL00		1	1 unit	1CC	0.032		3VL9000-4WL00		1	1 unit	1CC	0.032

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

2

Version	DT	For VL400 (3VL4) Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
<b>Plug-in versions/withdrawable versions</b>							
<b>3- or 4-pole</b>							
<b>Plug-in base assembly kits</b> Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin							
<b>Rear terminals</b>							
3-pole							
3-pole with RCD module							
4-pole							
4-pole with RCD module							
 3VL9.00-4PA30							
<b>90° angle connecting adapters</b>							
For rear connection, 3-pole							
For rear connection, 4-pole							
<b>Front-accessible connections</b>							
3-pole							
3-pole with RCD module							
4-pole							
4-pole with RCD module							
 3VL9.00-4WA30							
<b>Withdrawable version assembly kits</b> Upgrade of the plug-in base assembly kit to							
Withdrawable version including side panels and racking mechanism.							
3-pole							
3-pole with RCD							
4-pole							
4-pole with RCD							
<b>Withdrawable versions</b> Same as plug-in base assembly kit, with additional side panels and racking mechanism							
<b>Rear terminals<sup>3)</sup></b>							
3-pole							
3-pole with RCD module							
4-pole							
4-pole with RCD module							
<b>Front-accessible connections</b>							
3-pole							
3-pole with RCD module							
4-pole							
4-pole with RCD module							
<b>Blade contacts</b> As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin							
1 set = 6 units							
3-pole							
1 set = 8 units							
4-pole							
<b>Trip pins and springs</b> As replacement for plug-in/withdrawable circuit breaker							
<b>Auxiliary circuit plug connections for plug-in bases</b> Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)							
8 terminals							
<b>Position signaling switches</b> (Connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible							
 3VL9000-4WL00							

1) For 3-pole applications please use 4-pole withdrawable version with 4-pole RCD module and 4-pole circuit breaker.

2) It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per circuit breaker (24 terminals).

3) With VL800 (3VL6) to VL1600 (3VL8) as vertical connection.

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### Accessories and spare parts


DT	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>							Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>					
	3VL9500-4PA30		1	1 unit	1CC	9.186		--					
	3VL9500-4PA40		1	1 unit	1CC	12.424		--					
	--							--					
	--							--					
	3VL9500-4PC30		1	1 unit	1CC	8.025		--					
	3VL9500-4PC40		1	1 unit	1CC	10.720		--					
	--							--					
	3VL9500-4WF30		1	1 unit	1CC	5.200		--					
	3VL9500-4WF40		1	1 unit	1CC	4.740		--					
	--							--					
	3VL9500-4WA30		1	1 unit	1CC	15.360		3VL9600-4WA30		1	1 unit	1CC	43.880
	3VL9500-4WA40		1	1 unit	1CC	18.760		3VL9600-4WA40		1	1 unit	1CC	43.800
	--							--					
	3VL9500-4WC30		1	1 unit	1CC	14.180		3VL9600-4WC30		1	1 unit	1CC	44.460
	3VL9500-4WC40		1	1 unit	1CC	16.945		3VL9600-4WC40		1	1 unit	1CC	43.213
	--							--					
	3VL9500-4PS30		1	1 unit	1CC	1.603		3VL9600-4PS30		1	1 unit	1CC	3.744
	3VL9500-4PS40		1	1 unit	1CC	2.101		3VL9600-4PS40		1	1 unit	1CC	4.965
	3VL9500-4PF00		1	1 unit	1CC	0.009		3VL9600-4PF00		1	1 unit	1CC	0.010
	2)							2)					
	3VL9600-4PJ00		1	1 unit	1CC	0.250		3VL9600-4PJ00		1	1 unit	1CC	0.250
	3VL9000-4WL00		1	1 unit	1CC	0.032		3VL9000-4WL00		1	1 unit	1CC	0.032

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

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Version	DT	For VL1250 (3VL7) Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Plug-in versions/withdrawable versions</b>							
 <p>3VL9.00-4PA30</p>	<b>3- or 4-pole</b>						
	<b>Plug-in base assembly kits</b> Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin						
	<b>Rear terminals</b>						
	3-pole	--					
3-pole with RCD module	--						
4-pole	--						
4-pole with RCD module	--						
<b>90° angle connecting adapters</b>							
For rear connection, 3-pole	--						
For rear connection, 4-pole	--						
<b>Front-accessible connections</b>							
3-pole	--						
3-pole with RCD module	--						
4-pole	--						
4-pole with RCD module	--						
<b>Withdrawable version assembly kits</b> Upgrade of the plug-in base assembly kit to							
Withdrawable version including side panels and racking mechanism.	3-pole 3-pole with RCD 4-pole 4-pole with RCD	-- -- -- --					
<b>Withdrawable versions</b> Same as plug-in base assembly kit, with additional side panels and racking mechanism							
<b>Rear terminals<sup>1)</sup></b>							
3-pole	<b>3VL9800-4WA30</b>			1	1 unit	1CC	43.420
3-pole with RCD module	--						
4-pole	<b>3VL9800-4WA40</b>			1	1 unit	1CC	52.320
4-pole with RCD module	--						
<b>Front-accessible connections</b>							
3-pole	<b>3VL9800-4WC30</b>			1	1 unit	1CC	45.000
3-pole with RCD module	--						
4-pole	<b>3VL9800-4WC40</b>			1	1 unit	1CC	53.000
4-pole with RCD module	--						
<b>Blade contacts</b> As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin							
1 set = 6 units	3-pole	<b>3VL9800-4PS30</b>		1	1 unit	1CC	3.510
1 set = 8 units	4-pole	<b>3VL9800-4PS40</b>		1	1 unit	1CC	4.595
<b>Trip pins and springs</b> As replacement for plug-in/withdrawable circuit breaker							
		<b>3VL9800-4PF00</b>		1	1 unit	1CC	0.016
<b>Auxiliary circuit plug connections for plug-in bases</b> Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)							
8 terminals		<b>3VL9800-4PJ00</b>		1	1 unit	1CC	0.217
<b>Position signaling switches</b> (Connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible							
		<b>3VL9000-4WL00</b>		1	1 unit	1CC	0.032

3VL9000-4WL00

<sup>1)</sup> With VL800 (3VL6) to VL1600 (3VL8) as vertical connection.

<sup>2)</sup> It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per circuit breaker (24 terminals).

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### Accessories and spare parts

DT	For VL1600 (3VL8)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>					

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<a href="#">3VL9800-4WA30</a>	1	1 unit	1CC	43.420
--				
<a href="#">3VL9800-4WA40</a>	1	1 unit	1CC	52.320
--				
<a href="#">3VL9800-4WC30</a>	1	1 unit	1CC	45.000
--				
<a href="#">3VL9800-4WC40</a>	1	1 unit	1CC	53.000
--				

<a href="#">3VL9800-4PS30</a>	1	1 unit	1CC	3.510
<a href="#">3VL9800-4PS40</a>	1	1 unit	1CC	4.595

<a href="#">3VL9800-4PF00</a>	1	1 unit	1CC	0.016
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2)				
<a href="#">3VL9800-4PJ00</a>	1	1 unit	1CC	0.217
<a href="#">3VL9000-4WL00</a>	1	1 unit	1CC	0.032

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

2

Circuit breakers for line protection, <b>only for TM, starters, disconnectors</b>	Rated current $I_n$	Residual currents $I$ adjustable	Delay time $t_d$ adjustable	Rated operational voltage $U_e$	DT	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	A	s	V AC							kg

#### RCD modules



Molded case circuit breakers VL160X to VL400 with RCD module mounted below the circuit breaker

#### 3-pole

VL160X (3VL1)		0.03	Instantaneous								
Bottom mounting <sup>1)2)</sup>	160	0.10	0.06	127 ... 480		<b>3VL9112-5GA30</b>		1	1 unit	1CC	1.500
VL160 (3VL2)	160	0.30	0.10	127 ... 480		<b>3VL9216-5GC30</b>		1	1 unit	1CC	1.438
		0.50	0.25	230 ... 690		<b>3VL9216-5GD30</b>		1	1 unit	1CC	1.427
VL250 (3VL3)	250	1.00	0.50	127 ... 480		<b>3VL9325-5GE30</b>		1	1 unit	1CC	1.478
		3.00	1.00	230 ... 690		<b>3VL9325-5GF30</b>		1	1 unit	1CC	1.487
VL400 (3VL4)	400			127 ... 480		--					
				230 ... 690		--					

#### 4-pole

VL160X (3VL1)		0.03	Instantaneous								
Bottom mounting <sup>1)2)</sup>	160	0.10	0.06	127 ... 480		<b>3VL9112-5GA40</b>		1	1 unit	1CC	1.849
VL160 (3VL2)	160	0.30	0.10	127 ... 480		<b>3VL9216-5GC40</b>		1	1 unit	1CC	1.743
		0.50	0.25	230 ... 690		<b>3VL9216-5GD40</b>		1	1 unit	1CC	1.700
VL250 (3VL3)	250	1.00	0.50	127 ... 480		<b>3VL9325-5GE40</b>		1	1 unit	1CC	1.806
		3.00	1.00	230 ... 690		<b>3VL9325-5GF40</b>		1	1 unit	1CC	1.810
VL400 (3VL4)	400			127 ... 480		<b>3VL9440-5GG40</b>		1	1 unit	1CC	3.327
				230 ... 690		<b>3VL9440-5GH40</b>		1	1 unit	1CC	3.325

Circuit breakers for line protection, <b>only for TM, starters, disconnectors</b>	Rated current $I_n$	Residual currents $I$ adjustable	Delay time $t_d$ adjustable	Rated operational voltage $U_e$	3-pole circuit breakers		4-pole circuit breakers	
					Article No. with "-Z"	Add. price	Article No. with "-Z"	Add. price
	A	A	s	V AC	<b>3VL.....D.....-Z</b>		<b>3VL.....E.....-Z</b>	
					and additional order code		and additional order code	
					<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Code for further versions		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Code for further versions	
					<b>-Z</b>		<b>-Z</b>	

#### Circuit breakers with RCD module



#### 3- and 4-pole

VL160X (3VL1)		0.03	Instantaneous							
(Bottom mounting)	160	0.10	0.06	127 ... 480	<b>A 0 1</b>	<sup>1)2)</sup>	✓	<b>A 0 1</b>	<sup>1)2)</sup>	✓
		0.30	0.10							
		0.50	0.25							
VL160 (3VL2)	160	1.00	0.50	127 ... 480	<b>A 0 1</b>		✓	<b>A 0 1</b>		✓
		3.00	1.00	230 ... 690	<b>A 0 2</b>		✓	<b>A 0 2</b>		✓
VL250 (3VL3)	250			127 ... 480	<b>A 0 1</b>		✓	<b>A 0 1</b>		✓
				230 ... 690	<b>A 0 2</b>		✓	<b>A 0 2</b>		✓
VL400 (3VL4)	400			127 ... 480	--			<b>A 0 1</b>		✓
				230 ... 690	--			<b>A 0 2</b>		✓

#### Residual current devices (MRCD)







Modular residual current devices (MRCD) monitor residual currents in electrical systems and trip the molded case circuit breaker via an auxiliary release after an adjustable advance warning if the residual current exceeds a defined value.

See chapter "Monitoring Devices".

✓ Additional price

<sup>1)</sup> Only the right-hand accessory compartment and the N conductor (4-pole) accessory compartment can be used for the installation of accessories, see Technical Information at [www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support).

<sup>2)</sup> VL160X (3VL1) + RCD module cannot be combined with motorized operating mechanism, front operating mechanism, door-coupling rotary operating mechanism, locking device for toggle levers, screw terminal connections (3VL17.....6-....) and Bowden wire interlocking.

Version	DT	For VL160X (3VL1)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Connection parts for fixed-mounted circuit breakers<sup>1)</sup></b>							
<b>3- or 4-pole</b>							
<b>Front connecting bars<sup>2)</sup></b>							
Phase barriers included.							
Standard							
	1 set = 3 units	3-pole	<b>3VL9216-4EC30</b>	1	1 unit	1CC	0.212
3VL9216-4EC40	1 set = 4 units	4-pole	<b>3VL9216-4EC40</b>	1	1 unit	1CC	0.287
For increased pole spacing							
	1 set = 3 units	3-pole	<b>3VL9216-4ED30</b>	1	1 unit	1CC	0.224
3VL9216-4ED40	1 set = 4 units	4-pole	<b>3VL9216-4ED40</b>	1	1 unit	1CC	0.348
<b>Rear terminals</b>							
Short connection (1 unit)							
			<b>3VL9100-4RA00</b>	1	1 unit	1CC	0.163
3VL9.00-4RA00, 3VL9.00-4RB00			<b>3VL9100-4RB00</b>	1	1 unit	1CC	0.260
Terminal kit (2 short + 1 long)							
3-pole							
<b>3VL9100-4RC30</b>							
Terminal kit (2 short + 2 long)							
4-pole							
<b>3VL9100-4RF40</b>							
Short flat connection (1 unit)							
<b>3VL9100-4RK00</b>							
Long flat connection (1 unit)							
<b>3VL9100-4RL00</b>							
Flat connector kit (2 short + 1 long)							
3-pole							
<b>3VL9100-4RM30</b>							
Flat connector kit (2 short + 2 long)							
4-pole							
<b>3VL9100-4RN40</b>							
<b>Box terminals</b>							
For connection for flexible flat copper busbar or cable, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .							
	1 set = 3 units		<b>3VL9100-4TC30</b>	1	1 unit	1CC	0.103
3VL9.00-4TC.0	1 set = 4 units		<b>3VL9100-4TC40</b>	1	1 unit	1CC	0.132
<b>Circular conductor terminals</b>							
Only for cables (Al or Cu), aluminum terminal (tinned)							
1 set = 3 units							
<b>3VL9100-4TD30</b>							
1 set = 4 units							
<b>3VL9100-4TD40</b>							
<b>Circular conductor terminal with terminal covers for cable (Al or Cu)</b>							
1 set = 3 units							
<b>3VL9115-4TD30</b>							
1 set = 4 units							
<b>3VL9115-4TD40</b>							
<b>Auxiliary conductor terminals</b>							
For box terminals/circular conductor terminals							
1 set = 10 units							
<b>3VL9200-3TN00</b>							
<b>Terminals with screw connection - metric thread</b>							
With insulator (for rear) for use with busbars and cable lugs, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .							
1 set = 3 units							
<b>3VL9116-4TA30</b>							
1 set = 4 units							
<b>3VL9116-4TA40</b>							
<b>Connection covers (terminal covers) for circuit breakers</b>							
Degree of protection IP30 for main connections							
1 set = 2 units							
Extended							
3-pole							
<b>3VL9300-8CA30</b>							
Standard							
3-pole							
<b>3VL9300-8CB30</b>							
Extended							
4-pole							
<b>3VL9300-8CA40</b>							
Standard							
4-pole							
<b>3VL9300-8CB40</b>							
<b>Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions</b>							
1 set = 2 units							
<b>3VL9300-8CE00</b>							











<sup>1)</sup> For an overview of connectable connection parts, see page 2/123.

<sup>2)</sup> Screw terminal connections are required for VL160X and VL160 molded case circuit breakers (3VL1 and 3VL2), see Technical Information at [www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support).

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

Version	DT	For VL160 (3VL2) Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
<b>Connection parts for fixed-mounted circuit breakers<sup>1)</sup></b>								
<b>3- or 4-pole</b>								
<b>Front connecting bars<sup>2)</sup></b>								
Phase barriers included.								
Standard								
								
3VL9216-4EC40								
		1 set = 3 units	3-pole	3VL9216-4EC30	1	1 unit	1CC	0.212
		1 set = 4 units	4-pole	3VL9216-4EC40	1	1 unit	1CC	0.287
For increased pole spacing								
								
3VL9216-4ED40								
		1 set = 3 units	3-pole	3VL9216-4ED30	1	1 unit	1CC	0.224
		1 set = 4 units	4-pole	3VL9216-4ED40	1	1 unit	1CC	0.348
<b>Rear terminals</b>								
Short connection (1 unit)								
Long connection (1 unit)								
								
3VL9.00-4R.00								
		Terminal kit (2 short + 1 long) 3-pole		3VL9200-4RA00	1	1 unit	1CC	0.161
		Terminal kit (2 short + 2 long) 4-pole		3VL9200-4RB00	1	1 unit	1CC	0.264
		Terminal kit (2 short + 1 long) 3-pole		3VL9200-4RC30	1	1 unit	1CC	0.565
		Terminal kit (2 short + 2 long) 4-pole		3VL9200-4RF40	1	1 unit	1CC	0.817
Short flat connection (1 unit)								
Long flat connection (1 unit)								
								
3VL9.00-4R.00								
		Flat connector kit (2 short + 1 long) 3-pole		3VL9200-4RK00	1	1 unit	1CC	0.131
		Flat connector kit (2 short + 2 long) 4-pole		3VL9200-4RL00	1	1 unit	1CC	0.227
		Flat connector kit (2 short + 1 long) 3-pole		3VL9200-4RM30	1	1 unit	1CC	0.455
		Flat connector kit (2 short + 2 long) 4-pole		3VL9200-4RN40	1	1 unit	1CC	0.656
<b>Box terminal</b>								
Connection for flexible flat copper busbar or cable, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .								
								
3VL9.00-4TC.0								
		1 set = 3 units		3VL9200-4TC30	1	1 unit	1CC	0.122
		1 set = 4 units		3VL9200-4TC40	1	1 unit	1CC	0.156
<b>Circular conductor terminals</b>								
Only for cables (Al or Cu), aluminum terminal (tinned)								
								
3VL9.00-4TD.0								
		1 set = 3 units		3VL9200-4TD30	1	1 unit	1CC	0.112
		1 set = 4 units		3VL9200-4TD40	1	1 unit	1CC	0.159
<b>Circular conductor terminal with terminal covers for cable (Al or Cu)</b>								
		1 set = 3 units		3VL9215-4TD30	1	1 unit	1CC	0.360
		1 set = 4 units		3VL9215-4TD40	1	1 unit	1CC	0.455
<b>Multiple feed-in terminal without terminal covers</b>								
								
3VL9.00-4TF.0								
		3 units (2 x 50 ... 120)		--				
		4 units (2 x 50 ... 120)		--				
<b>Multiple feed-in terminal with terminal covers</b>								
		3 units (2 x 70 ... 300)		--				
		4 units (2 x 70 ... 300)		--				
<b>Auxiliary conductor terminals</b>								
For box terminals/circular conductor terminals/multiple feed-in terminals								
		1 set = 10 units		3VL9200-3TN00	1	1 unit	1CC	0.125
<b>Terminals with screw connection - metric thread</b>								
With insulator (for rear) for use with busbars and cable lugs, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .								
								
3VL9.00-4TA.0								
		1 set = 3 units		3VL9216-4TA30	1	1 unit	1CC	0.087
		1 set = 4 units		3VL9216-4TA40	1	1 unit	1CC	0.108
<b>Connection covers (terminal covers) for circuit breakers</b>								
Degree of protection IP30 for main connections								
								
NSE0_00730								
3VL9.00-3CB.0								
		1 set = 2 units						
		Extended	3-pole	3VL9300-8CA30	1	1 unit	1CC	0.292
		Standard	3-pole	3VL9300-8CB30	1	1 unit	1CC	0.065
		Extended	4-pole	3VL9300-8CA40	1	1 unit	1CC	0.364
		Standard	4-pole	3VL9300-8CB40	1	1 unit	1CC	0.082
<b>Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions</b>								
								
NSE0_00731								
3VL9.00-3CB.0								
		1 set = 2 units		3VL9300-8CE00	1	1 unit	1CC	0.035

<sup>1)</sup> For an overview of connectable connection parts, see page 2/123.

<sup>2)</sup> Screw terminal connections are required for VL160X and VL160 molded case circuit breakers (3VL1 and 3VL2), see Technical Information at [www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support).

**Molded Case Circuit Breakers**

## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

## Accessories and spare parts









DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>							Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>					
	3VL9300-4EC30		1	1 unit	1CC	0.269		3VL9400-4EC30		1	1 unit	1CC	0.918
	3VL9300-4EC40		1	1 unit	1CC	0.346		3VL9400-4EC40		1	1 unit	1CC	1.256
	3VL9300-4ED30		1	1 unit	1CC	0.256		3VL9400-4ED30		1	1 unit	1CC	0.896
	3VL9300-4ED40		1	1 unit	1CC	0.425		3VL9400-4ED40		1	1 unit	1CC	1.476
	3VL9300-4RA00		1	1 unit	1CC	0.161		3VL9400-4RA00		1	1 unit	1CC	0.268
	3VL9300-4RB00		1	1 unit	1CC	0.265		3VL9400-4RB00		1	1 unit	1CC	0.433
	3VL9300-4RC30		1	1 unit	1CC	0.562		3VL9400-4RC30		1	1 unit	1CC	0.930
	3VL9300-4RF40		1	1 unit	1CC	0.850		3VL9400-4RF40		1	1 unit	1CC	1.337
	3VL9300-4RK00		1	1 unit	1CC	0.126		3VL9400-4RK00		1	1 unit	1CC	0.380
	3VL9300-4RL00		1	1 unit	1CC	0.228		3VL9400-4RL00		1	1 unit	1CC	0.542
	3VL9300-4RM30		1	1 unit	1CC	0.447		3VL9400-4RM30		1	1 unit	1CC	1.305
	3VL9300-4RN40		1	1 unit	1CC	0.660		3VL9400-4RN40		1	1 unit	1CC	1.783
	3VL9300-4TC30		1	1 unit	1CC	0.205		3VL9400-4TC30		1	1 unit	1CC	0.488
	3VL9300-4TC40		1	1 unit	1CC	0.275		3VL9400-4TC40		1	1 unit	1CC	0.617
	3VL9300-4TD30		1	1 unit	1CC	0.181		3VL9400-4TD30		1	1 unit	1CC	0.293
	3VL9300-4TD40		1	1 unit	1CC	0.380		3VL9400-4TD40		1	1 unit	1CC	0.391
	3VL9324-4TD30		1	1 unit	1CC	0.487		--					
	3VL9324-4TD40		1	1 unit	1CC	0.676		--					
	--							3VL9400-4TF30		1	1 unit	1CC	0.447
	--							3VL9400-4TF40		1	1 unit	1CC	0.575
	--							3VL9460-4TF30		1	1 unit	1CC	0.892
	--							3VL9460-4TF40		1	1 unit	1CC	1.141
	3VL9300-3TN00		1	1 unit	1CC	0.133		3VL9400-3TN00		1	1 unit	1CC	0.140
	3VL9300-4TA30		1	1 unit	1CC	0.114		3VL9400-4TA30		1	1 unit	1CC	0.125
	3VL9300-4TA40		1	1 unit	1CC	0.144		3VL9400-4TA40		1	1 unit	1CC	0.161
	3VL9300-8CA30		1	1 unit	1CC	0.292		3VL9400-8CA30		1	1 unit	1CC	0.625
	3VL9300-8CB30		1	1 unit	1CC	0.065		3VL9400-8CB30		1	1 unit	1CC	0.124
	3VL9300-8CA40		1	1 unit	1CC	0.364		3VL9400-8CA40		1	1 unit	1CC	0.705
	3VL9300-8CB40		1	1 unit	1CC	0.082		3VL9400-8CB40		1	1 unit	1CC	0.177
	3VL9300-8CE00		1	1 unit	1CC	0.035		3VL9600-8CE00		1	1 unit	1CC	0.057

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

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Version	DT	For VL630 (3VL5) Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Connection parts for fixed-mounted circuit breakers<sup>1)</sup></b>							
<b>3- or 4-pole</b>							
<b>Front connecting bars</b> Phase barriers included.							
Standard							
	1 set = 3 units	3-pole	<a href="#">3VL9500-4EC30</a>	1	1 unit	1CC	1.160
	1 set = 4 units	4-pole	<a href="#">3VL9500-4EC40</a>	1	1 unit	1CC	1.522
For increased pole spacing							
	1 set = 3 units	3-pole	<a href="#">3VL9500-4ED30</a>	1	1 unit	1CC	1.172
	1 set = 4 units	4-pole	<a href="#">3VL9500-4ED40</a>	1	1 unit	1CC	1.545
Flat connecting bar (1 unit) Flat connecting bars Set = 3 units, 3-pole							
			<a href="#">3VL9500-4RG00</a>	1	1 unit	1CC	0.543
			<a href="#">3VL9500-4RH30</a>	1	1 unit	1CC	1.174
			<a href="#">3VL9500-4RH40</a>	1	1 unit	1CC	1.519
<b>Multiple feed-in terminals</b> Only for cables (Al or Cu) Aluminum terminal (tinned)							
	1 set = 3 units		<a href="#">3VL9500-4TG30</a>	1	1 unit	1CC	0.566
	1 set = 4 units		<a href="#">3VL9500-4TG40</a>	1	1 unit	1CC	0.697
<b>Auxiliary conductor terminals</b> For multiple feed-in terminals 1 set = 10 units							
			<a href="#">3VL9400-3TN00</a>	1	1 unit	1CC	0.140
<b>Terminal plates<sup>2)</sup></b> Connection for flexible flat copper busbar with auxiliary conductor connection 0.5 – 4 mm <sup>2</sup> (extended terminal covers or phase barriers required)							
	1 set = 3 units		<a href="#">3VL9500-4TT30</a>	1	1 unit	1CC	1.432
	1 set = 4 units		<a href="#">3VL9500-4TT40</a>	1	1 unit	1CC	1.874
<b>Terminals with screw connection – metric thread</b> With insulator (for rear) for use with busbars and cable lugs, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .							
	1 set = 3 units		<a href="#">3VL9500-4TA30</a>	1	1 unit	1CC	0.134
	1 set = 4 units		<a href="#">3VL9500-4TA40</a>	1	1 unit	1CC	0.163
<b>Connection covers (terminal covers) for circuit breakers</b> Degree of protection IP30 for main connections 1 set = 2 units							
			<a href="#">3VL9600-8CA30</a>	1	1 unit	1CC	0.930
			<a href="#">3VL9600-8CB30</a>	1	1 unit	1CC	0.219
			<a href="#">3VL9600-8CA40</a>	1	1 unit	1CC	1.062
			<a href="#">3VL9600-8CB40</a>	1	1 unit	1CC	0.287
<b>Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions<sup>3)</sup></b> 1 set = 2 units							
			<a href="#">3VL9600-8CE00</a>	1	1 unit	1CC	0.057

<sup>1)</sup> For an overview of connectable connection parts, see page 2/123.

<sup>2)</sup> Front connecting bars included in scope of supply;  
not for 690 V AC/600 V DC.

<sup>3)</sup> Plug-in versions: Not for VL1250 (3VL7),  
withdrawable version: Not for VL800 (3VL6) and VL1250 (3VL7).

**Molded Case Circuit Breakers**

## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

## Accessories and spare parts







DT	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-4EC30</a>		1	1 unit	1CC	1.725		<a href="http://www.siemens.com/product?Article.No.">3VL9800-4EC30</a>		1	1 unit	1CC	3.562
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-4EC40</a>		1	1 unit	1CC	2.301		<a href="http://www.siemens.com/product?Article.No.">3VL9800-4EC40</a>		1	1 unit	1CC	4.385
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-4ED30</a>		1	1 unit	1CC	1.733		--					--
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-4ED40</a>		1	1 unit	1CC	2.287		--					--
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-4RG00</a>		1	1 unit	1CC	1.629		<a href="http://www.siemens.com/product?Article.No.">3VL9700-4RG00</a>		1	1 unit	1CC	1.638
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-4RH30</a>		1	1 unit	1CC	4.770		<a href="http://www.siemens.com/product?Article.No.">3VL9700-4RH30</a>		1	1 unit	1CC	4.960
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-4RH40</a>		1	1 unit	1CC	6.510		<a href="http://www.siemens.com/product?Article.No.">3VL9700-4RH40</a>		1	1 unit	1CC	6.523
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-4TG30</a>		1	1 unit	1CC	1.024		<a href="http://www.siemens.com/product?Article.No.">3VL9700-4TG30</a>		1	1 unit	1CC	2.235
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-4TG40</a>		1	1 unit	1CC	1.286		<a href="http://www.siemens.com/product?Article.No.">3VL9700-4TG40</a>		1	1 unit	1CC	2.950
	<a href="http://www.siemens.com/product?Article.No.">3VL9400-3TN00</a>		1	1 unit	1CC	0.140		<a href="http://www.siemens.com/product?Article.No.">3VL9400-3TN00</a>		1	1 unit	1CC	0.140
	--							--					--
	--							--					--
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-4TA30</a>		1	1 unit	1CC	0.236		<a href="http://www.siemens.com/product?Article.No.">3VL9800-4TA30</a>		1	1 unit	1CC	0.276
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-4TA40</a>		1	1 unit	1CC	0.311		<a href="http://www.siemens.com/product?Article.No.">3VL9800-4TA40</a>		1	1 unit	1CC	0.506
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-8CA30</a>		1	1 unit	1CC	0.930		<a href="http://www.siemens.com/product?Article.No.">3VL9800-8CA30</a>		1	1 unit	1CC	1.240
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-8CB30</a>		1	1 unit	1CC	0.219		<a href="http://www.siemens.com/product?Article.No.">3VL9800-8CB30</a>		1	1 unit	1CC	0.364
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-8CA40</a>		1	1 unit	1CC	1.062		<a href="http://www.siemens.com/product?Article.No.">3VL9800-8CA40</a>		1	1 unit	1CC	1.500
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-8CB40</a>		1	1 unit	1CC	0.287		<a href="http://www.siemens.com/product?Article.No.">3VL9800-8CB40</a>		1	1 unit	1CC	0.536
	<a href="http://www.siemens.com/product?Article.No.">3VL9600-8CE00</a>		1	1 unit	1CC	0.057		<a href="http://www.siemens.com/product?Article.No.">3VL9800-8CE00</a>		1	1 unit	1CC	0.141

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

2

Version	DT	For VL1600 (3VL8) Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Connection parts for fixed-mounted circuit breakers<sup>1)</sup></b>							
<b>3- or 4-pole</b>							
<b>Front connecting bars</b> Phase barriers included.							
Standard <sup>2)</sup>							
	1 set = 3 units	3-pole	<b>3VL9800-4EC30</b>	1	1 unit	1CC	3.562
	1 set = 4 units	4-pole	<b>3VL9800-4EC40</b>	1	1 unit	1CC	4.385
	For increased pole spacing						
	1 set = 3 units	3-pole	--				
	1 set = 4 units	4-pole	--				
3VL9216-4EC40							
3VL9216-4ED40							
<b>Rear terminals</b>							
	Flat connecting bar (1 unit)		<b>3VL9800-4RG00</b>	1	1 unit	1CC	1.597
3VL9.00-4RG00	Flat connecting bars Set = 3 units, 3-pole		<b>3VL9800-4RH30</b>	1	1 unit	1CC	4.965
	Flat connecting bars Set = 4 units, 4-pole		<b>3VL9800-4RH40</b>	1	1 unit	1CC	6.105
<b>Terminals with screw connection - metric thread</b> With insulator (for rear) for use with busbars and cable lugs, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .							
	1 set = 3 units		<b>3VL9800-4TA30</b>	1	1 unit	1CC	0.276
3VL9.00-4TA.0	1 set = 4 units		<b>3VL9800-4TA40</b>	1	1 unit	1CC	0.506
<b>Connection covers (terminal covers) for circuit breakers</b> Degree of protection IP30 for main connections 1 set = 2 units							
	Extended	3-pole	<b>3VL9800-8CA30</b>	1	1 unit	1CC	1.240
NSE0_00730	Standard	3-pole	<b>3VL9800-8CB30</b>	1	1 unit	1CC	0.364
3VL9.00-3CB.0	Extended	4-pole	<b>3VL9800-8CA40</b>	1	1 unit	1CC	1.500
	Standard	4-pole	<b>3VL9800-8CB40</b>	1	1 unit	1CC	0.536
<b>Phase barriers for fixed-mounted circuit breakers</b>							
	1 set = 2 units		<b>3VL9800-8CE00</b>	1	1 unit	1CC	0.141
NSE0_00731							
3VL9.00-8CE00							

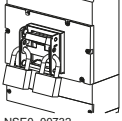
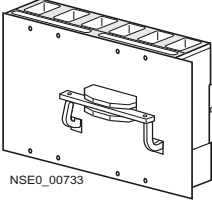
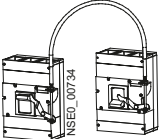
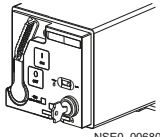
<sup>1)</sup> For an overview of connectable connection parts, see page 2/123.

<sup>2)</sup> In scope of supply of circuit breaker.

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### Accessories and spare parts

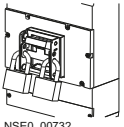
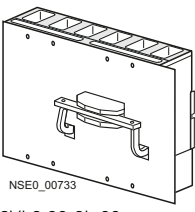
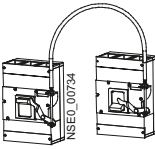
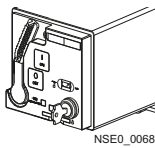
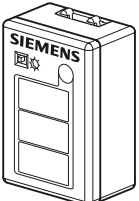
Version	DT	For VL160X (3VL1) Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Interlocks</b>							
<b>3- or 4-pole</b>							
 <p>NSE0_00732 3VL9.00-3HL00</p>		<b>Locking devices for toggle levers</b> For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5 – 8 mm can be used. Removable (padlocks not included)					
 <p>NSE0_00733 3VL9.00-8L.00</p>		<b>Rear interlocking modules</b> For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. (Mounting plate not included in scope of supply)					
		Fixed-mounted circuit breakers		1	1 unit	1CC	0.320
		Plug-in/withdrawable circuit breakers		1	1 unit	1CC	0.383
 <p>NSE0_00734 3VL9.00-8LA00</p>		<b>Interlocking modules for Bowden wire interlocking<sup>1)</sup></b> For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker					
		Combination with next size up possible (see Article No.)		1	1 unit	1CC	0.191
		<b>Bowden wires</b> for Bowden wire interlocking <sup>1)</sup>					
		Wire length 0.5 m		1	1 unit	1CC	0.303
		Wire length 1.0 m		1	1 unit	1CC	0.444
		Wire length 1.5 m		1	1 unit	1CC	0.646
 <p>NSE0_00680 3VL9...-8HA00</p>		<b>Safety lock assembly kits</b> Key can be removed with the circuit breaker in the "OFF" position <u>For front-operated rotary operating mechanisms</u> Lock types Ronis					
		<u>For motorized operating mechanism with stored energy mechanism</u> Lock types Ronis		1	1 unit	1CC	0.266
		Filli Giussani		1	1 unit	1CC	0.039
		<b>Sets of fixing screws (metric thread)</b> Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface					
		Set with 4 screws		1	1 unit	1CC	0.052
		<b>Transparent covers for releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)					
		Electronic Trip Unit					
		Thermal-magnetic		1	1 unit	1CC	0.017

<sup>1)</sup> Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

Version	DT	For VL160 (3VL2) Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Interlocks</b>							
 <p>NSE0_00732</p>	<b>3- or 4-pole</b> <b>Locking devices for toggle levers</b> For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)						
	3VL9.00-3HL00	3VL9300-3HL00		1	1 unit	1CC	0.077
 <p>NSE0_00733</p>	<b>Rear interlocking modules</b> For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. (Mounting plate not included in scope of supply) Fixed-mounted circuit breakers Plug-in/withdrawable circuit breakers						
	3VL9.00-8L.00	3VL9300-8LC00 3VL9300-8LD00		1 1	1 unit 1 unit	1CC 1CC	0.320 0.383
 <p>NSE0_00734</p>	<b>Interlocking modules for Bowden wire interlocking<sup>1)</sup></b> For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker		Combinations with next size up/down possible (see Article No.)				
	3VL9.00-8LA00	3VL9300-8LA00		1	1 unit	1CC	0.191
	<b>Bowden wires</b> for Bowden wire interlocking <sup>1)</sup> Wire length 0.5 m Wire length 1.0 m Wire length 1.5 m						
		3VL9000-8LH10		1	1 unit	1CC	0.303
		3VL9000-8LH20		1	1 unit	1CC	0.444
		3VL9000-8LH30		1	1 unit	1CC	0.646
 <p>NSE0_00680</p>	<b>Safety lock assembly kits</b> Key can be removed with the circuit breaker in the "OFF" position <u>For front-operated rotary operating mechanisms</u> Lock types Ronis						
	3VL9...-8HA00	3VL9715-8HA00		1	1 unit	1CC	0.266
	<u>For motorized operating mechanism with stored energy mechanism</u> Lock types Ronis Filli Giussani						
		3VL9321-8HA00		1	1 unit	1CC	0.039
	<b>Sets of fixing screws (metric thread)</b> Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface Set with 4 screws						
		3VL9300-8SA40		1	1 unit	1CC	0.052
	<b>Transparent covers for releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Unit Thermal-magnetic						
		3VL9700-8BL00		1	1 unit	1CC	0.009
		3VL9300-8BM00		1	1 unit	1CC	0.017
 <p>NSE0_01637a</p>	<b>Battery power supply for activating/ parameterizing the LCD ETUs, with test function for all IEC and UL ETUs</b> (two 9 V blocks are required in addition)						
	3VL9000-8AP01	3VL9000-8AP01		1	1 unit	1CC	0.190

<sup>1)</sup> Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

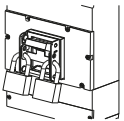
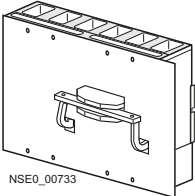
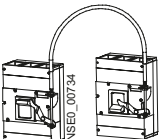
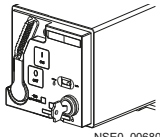
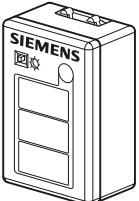
#### Accessories and spare parts

DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>							Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>					
	3VL9300-3HL00		1	1 unit	1CC	0.077		3VL9400-3HL00		1	1 unit	1CC	0.144
	3VL9300-8LC00		1	1 unit	1CC	0.320		3VL9400-8LC00		1	1 unit	1CC	1.170
	3VL9300-8LD00		1	1 unit	1CC	0.383		3VL9400-8LD00		1	1 unit	1CC	1.280
	3VL9300-8LA00		1	1 unit	1CC	0.191		3VL9400-8LA00		1	1 unit	1CC	0.226
	3VL9000-8LH10		1	1 unit	1CC	0.303	--						
	3VL9000-8LH20		1	1 unit	1CC	0.444	3VL9000-8LH20		1	1 unit	1CC	0.444	
	3VL9000-8LH30		1	1 unit	1CC	0.646	3VL9000-8LH30		1	1 unit	1CC	0.646	
	3VL9715-8HA00		1	1 unit	1CC	0.266	3VL9715-8HA00		1	1 unit	1CC	0.266	
	--						3VL9715-8HA00		1	1 unit	1CC	0.266	
	3VL9321-8HA00		1	1 unit	1CC	0.039	--						
	3VL9300-8SA40		1	1 unit	1CC	0.052	3VL9500-8SA40		1	1 unit	1CC	0.109	
	3VL9700-8BL00		1	1 unit	1CC	0.009	3VL9700-8BL00		1	1 unit	1CC	0.009	
	3VL9300-8BM00		1	1 unit	1CC	0.017	3VL9400-8BM00		1	1 unit	1CC	0.028	
	3VL9000-8AP01		1	1 unit	1CC	0.190	3VL9000-8AP01		1	1 unit	1CC	0.190	

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

Version	DT	For VL630 (3VL5) Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg		
<b>Interlocks</b>									
<b>3- or 4-pole</b>									
<b>Locking devices for toggle levers</b>									
 <p>NSE0_00732 3VL9.00-3HL00</p>		<p>For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)</p>		<p>3VL9600-3HL00</p>		1	1 unit	1CC	0.162
<b>Rear interlocking modules</b>									
 <p>NSE0_00733 3VL9.00-8L.00</p>		<p>For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. (Mounting plate not included in scope of supply)</p> <p>Fixed-mounted circuit breakers Plug-in/withdrawable circuit breakers</p>		<p>3VL9600-8LC00 3VL9600-8LD00</p>		1	1 unit	1CC	4.356
						1	1 unit	1CC	5.413
<b>Interlocking modules for Bowden wire interlocking<sup>1)</sup></b>									
 <p>NSE0_00734 3VL9.00-8LA00</p>		<p>For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker</p>		<p>Combinations with next size up/down possible (see Article No.)</p> <p>3VL9600-8LA00</p>		1	1 unit	1CC	0.272
<b>Bowden wires for Bowden wire interlocking<sup>1)</sup></b>									
		Wire length 0.5 m		--					
		Wire length 1.0 m		3VL9000-8LH20		1	1 unit	1CC	0.444
		Wire length 1.5 m		3VL9000-8LH30		1	1 unit	1CC	0.646
<b>Safety lock assembly kits</b>									
 <p>NSE0_00680 3VL9...-8HA00</p>		<p>Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms</p> <p>Lock types Ronis</p> <p>For motorized operating mechanism with stored energy mechanism</p> <p>Lock types Ronis Filli Giussani</p>		<p>3VL9715-8HA00</p> <p>3VL9715-8HA00</p> <p>--</p>		1	1 unit	1CC	0.266
						1	1 unit	1CC	0.266
<b>Sets of fixing screws (metric thread)</b>									
		Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface		3VL9500-8SA40		1	1 unit	1CC	0.109
		Set with 4 screws							
<b>Transparent covers for releases, sealable</b>									
		To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Units		3VL9700-8BL00		1	1 unit	1CC	0.009
		Thermal-magnetic		3VL9600-8BM00		1	1 unit	1CC	0.031
<b>Battery power supply for activating/parameterizing the LCD ETUs, with test function for all IEC and UL ETUs</b>									
 <p>NSE0_01631a 3VL9000-8AP01</p>		<p>(two 9 V blocks are required in addition)</p>		3VL9000-8AP01		1	1 unit	1CC	0.190

<sup>1)</sup> Two interlocking modules and one Bowden wire are required.  
Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### Accessories and spare parts

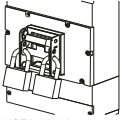
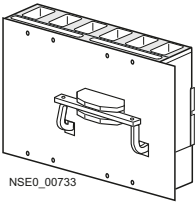
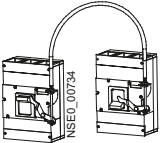
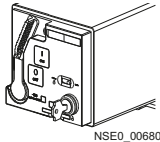
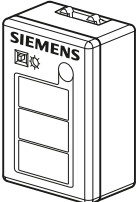
DT	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>							Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>					
	3VL9600-3HL00		1	1 unit	1CC	0.162		3VL9800-3HL00		1	1 unit	1CC	0.244
	3VL9600-8LC00		1	1 unit	1CC	4.356		3VL9800-8LC00		1	1 unit	1CC	2.738
	3VL9600-8LD00		1	1 unit	1CC	5.413		3VL9800-8LD00		1	1 unit	1CC	3.402
	3VL9600-8LA00		1	1 unit	1CC	0.272		3VL9800-8LA00		1	1 unit	1CC	0.305
	--							--					
	3VL9000-8LH20		1	1 unit	1CC	0.444		--					
	3VL9000-8LH30		1	1 unit	1CC	0.646		3VL9000-8LH30		1	1 unit	1CC	0.646
	3VL9715-8HA00		1	1 unit	1CC	0.266		3VL9715-8HA00		1	1 unit	1CC	0.266
	3VL9715-8HA00		1	1 unit	1CC	0.266		3VL9715-8HA00		1	1 unit	1CC	0.266
	--							--					
	3VL9600-8SA40		1	1 unit	1CC	0.118		3VL9800-8SA40		1	1 unit	1CC	0.095
	3VL9700-8BL00		1	1 unit	1CC	0.009		3VL9700-8BL00		1	1 unit	1CC	0.009
	--							--					
	3VL9000-8AP01		1	1 unit	1CC	0.190		3VL9000-8AP01		1	1 unit	1CC	0.190

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

2

Version	DT	For VL1600 (3VL8) Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Interlocks</b>							
 <p>NSE0_00732 3VL9.00-3HL00</p>	<b>3- or 4-pole</b> <b>Locking devices for toggle levers</b> For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5 – 8 mm can be used. Removable (padlocks not included)						
			3VL9800-3HL00		1	1 unit	1CC
 <p>NSE0_00733 3VL9.00-8L.00</p>	<b>Rear interlocking modules</b> For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. Circuit breakers, fixed-mounted <sup>1)</sup> Plug-in/withdrawable circuit breakers						
			3VL9800-8LC00 3VL9800-8LD00		1 1	1 unit 1 unit	1CC 1CC
 <p>NSE0_00734 3VL9.00-8LA00</p>	<b>Interlocking modules for Bowden wire interlocking<sup>2)</sup></b> For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker						
			3VL9800-8LA00		1	1 unit	1CC
	<b>Bowden wires</b> for Bowden wire interlocking <sup>2)</sup> Wire length 0.5 m Wire length 1.0 m Wire length 1.5 m		-- -- 3VL9000-8LH30				
	<b>Safety lock assembly kits</b> Key can be removed with the circuit breaker in the "OFF" position <u>For front-operated rotary operating mechanisms</u> Lock types Ronis <u>For motorized operating mechanisms</u> Lock types Ronis Filli Giussani		3VL9715-8HA00 3VL9715-8HA00 --				
 <p>NSE0_00680 3VL9...-8HA00</p>	<b>Sets of fixing screws (metric thread)</b> Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface Set with 4 screws		3VL9800-8SA40				
				1	1 unit	1CC	0.095
	<b>Transparent covers for releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Unit Thermal-magnetic		3VL9700-8BL00 --				
 <p>NSE0_01631a 3VL9000-8AP01</p>	<b>Battery power supply for activating/ parameterizing the LCD ETUs, with test function for all IEC and UL ETUs</b> (two 9 V blocks are required in addition)		3VL9000-8AP01				
				1	1 unit	1CC	0.190

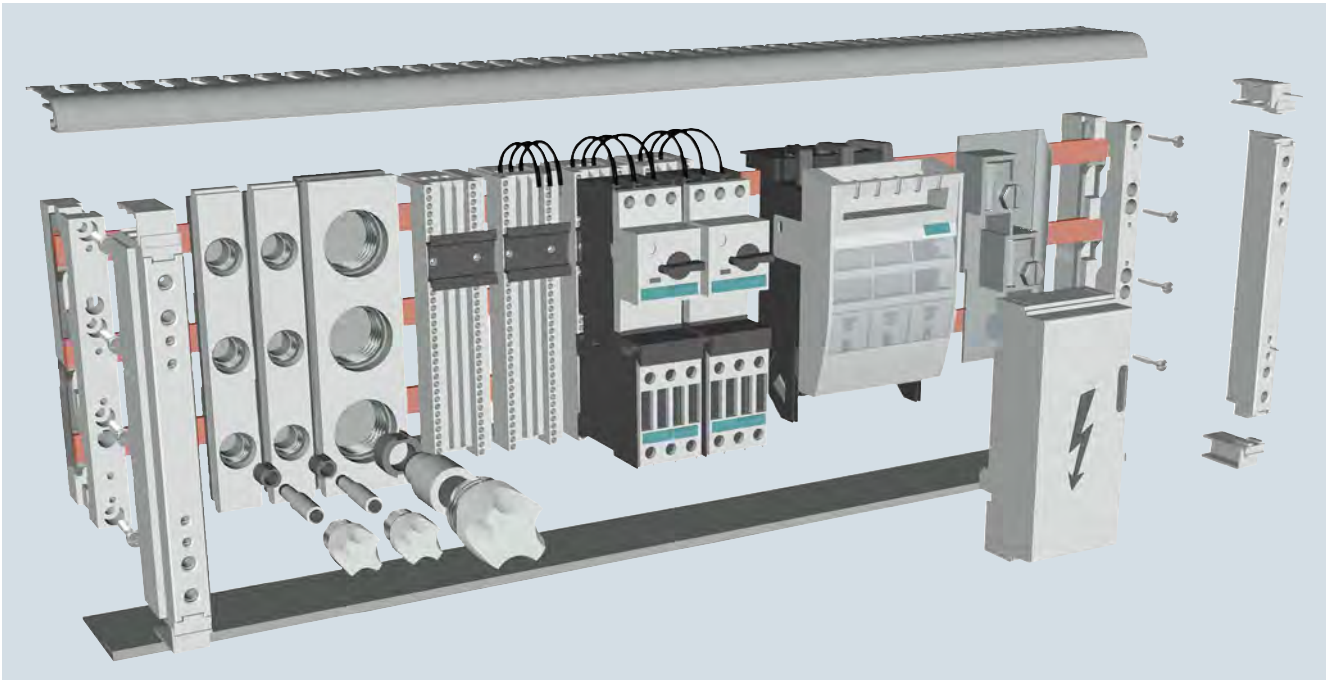
<sup>1)</sup> Mounting plate not included in scope of supply.

<sup>2)</sup> Two interlocking modules and one Bowden wire are required.  
Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

**Transfer control devices**

3KC ATC5300 and **NEW** ATC3100 transfer control devices. For combination with two air circuit breakers/molded case circuit breakers for changeover according to 60947-6-1.

For more information, see chapter "Monitoring Devices".

**Busbar systems**

Busbar adapter systems with 40 mm or 60 mm busbar center-to-center spacing with components for busbar runs, adapters and switching device holders for individual equipment possibilities, devices with an integrated adapter, as well as accessories and flat copper profiles. Observe the short-circuit strength of the busbar system. Short-circuit strength greater than 50 kA on request.

For more information, see chapter "Busbar Systems".

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

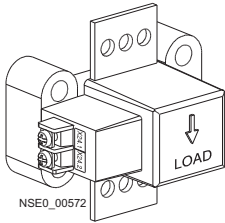
### Accessories and spare parts

2

Type	Rated current $I_n$ A	DT	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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#### Further accessories

**Current transformers (-T6) for N conductor/grounded neutral point of the transformer for ground-fault protection in 4-wire three-phase systems<sup>1)</sup>**



VL160/3VL2	63, 80		<a href="#">3VL9280-8TC00</a>		1	1 unit	1CC	0.453
	100		<a href="#">3VL9210-8TC00</a>		1	1 unit	1CC	0.460
	160		<a href="#">3VL9216-8TC00</a>		1	1 unit	1CC	0.475
VL250/3VL3	200		<a href="#">3VL9320-8TC00</a>		1	1 unit	1CC	0.452
	250		<a href="#">3VL9325-8TC00</a>		1	1 unit	1CC	0.455
VL400/3VL4	315		<a href="#">3VL9440-8TC00</a>		1	1 unit	1CC	0.648
	400		<a href="#">3VL9440-8TC00</a>		1	1 unit	1CC	0.648
VL630/3VL5	630		<a href="#">3VL9563-8TC00</a>		1	1 unit	1CC	0.771
VL800/3VL6	800		<a href="#">3VL9680-8TC00</a>		1	1 unit	1CC	0.800
VL1250/3VL7	1000		<a href="#">3VL9712-8TC00</a>		1	1 unit	1CC	2.042
	1250		<a href="#">3VL9712-8TC00</a>		1	1 unit	1CC	2.042
VL1600/3VL8	1600		<a href="#">3VL9816-8TC00</a>		1	1 unit	1CC	2.061

<sup>1)</sup> Please note the rated current of the circuit breaker.

#### Current transformers for measuring purposes



4NC53 current transformer

See chapter "Measuring Devices and Power Monitoring", Accessories.

Version	DT	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.  kg
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### Accessories for communication

#### 3- or 4-pole

#### Data transmission through COM20, COM21

VL160 (3VL2) to VL1600 (3VL8)

#### COM20 Release 2 (PROFIBUS module for 3VL molded case circuit breaker) for ETUs with communication function and LCD ETUs

Module for connecting the 3VL molded case circuit breaker to the PROFIBUS DP, including switching function and Zone Selective Interlocking functionality, connection cable to ETU included in delivery of the ETU, length 1.5 m.

3VL9000-8AU00

1 1 unit 1CC 0.287

#### COM21 Release 2 (MODBUS RTU module for 3VL molded case circuit breaker) for ETUs with communication function and LCD ETUs

Module for connecting the 3VL molded case circuit breaker to the MODBUS RTU, including switching function and Zone Selective Interlocking functionality, connection cable to ETU included in delivery of the ETU, length 1.5 m.

3VL9000-8AV00

1 1 unit 1CC 0.295

#### Connection cable ETU – COM20/COM21

For VL160 ... VL250, length 3 m

For VL630 ... VL1600, length 3 m

For VL400, length 3 m

3VL9000-8AQ81

1 1 unit 1CC 0.136

3VL9000-8AQ71

1 1 unit 1CC 0.135

3VL9000-8AQ61

1 1 unit 1CC 0.149

#### Addressing plugs

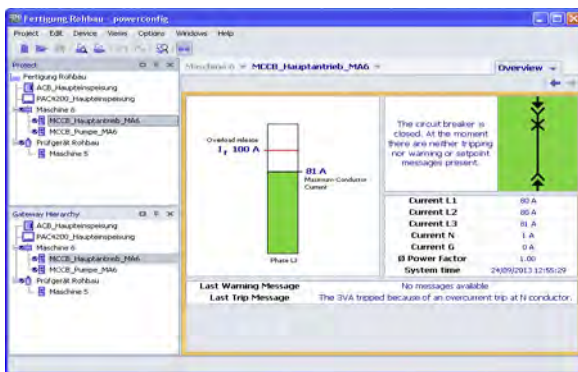
For assigning the PROFIBUS module addresses without using a PC/PG

On COM20/COM21 through the system interface

▶ 3UF7910-0AA00-0

1 1 unit 42J 0.015

#### powerconfig parameterization software



Parameterization, operation, monitoring and diagnostics of 3VL molded case circuit breakers using powerconfig software, see chapter "Software",

"Configuring, Visualizing and Controlling with SENTRON".

powerconfig is available free of charge at

<http://support.automation.siemens.com/WWW/view/en/63452759>

You can find more information on the Internet at:

[www.siemens.com/sentron](http://www.siemens.com/sentron)

#### Communication:

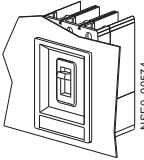
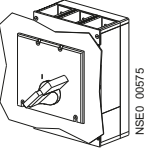
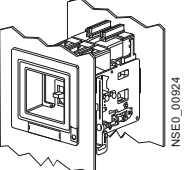
- For molded case circuit breakers with communication function, see pages 2/128 to 2/144, 2/156 to 2/166.
- For more information, see chapter "Measuring Devices and Power Monitoring" and see chapter "Software".

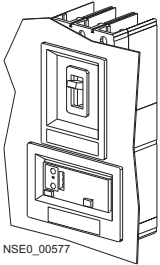
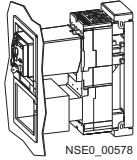
## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

2

Version	DT	For VL160X (3VL1) Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Further accessories</b>							
<b>3- or 4-pole</b>							
<b>Masking frames (cover frames)</b>							
<b>For door cutouts</b>							
 Masking frame A NSE0_00674	<b>A</b> <b>IP40</b>	Fixed-mounted or plug-in circuit breaker	<a href="#">3VL9300-8BC00</a>	1	1 unit	1CC	0.061
 Masking frame B NSE0_00675	<b>B<sup>1)</sup></b> <b>IP40</b>	Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism (with or without SEO/MO stored energy mechanisms)	<a href="#">3VL9300-8BG00</a>	1	1 unit	1CC	0.126
 Masking frame C NSE0_00924	<b>C</b> <b>IP20</b>	Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism)	--				
	<b>D</b> <b>IP40</b>	Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame RCD masking frame	<a href="#">3VL9300-8BD00</a> <a href="#">3VL9300-8BD00</a>	1 1	1 unit 1 unit	1CC 1CC	0.046 0.046
	<b>E<sup>1)</sup></b> <b>IP40</b>	Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon  Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon	-- --				

Version	DT	For VL400 (3VL4) Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Further accessories</b>							
<b>3- or 4-pole</b>							
<b>Masking frames (cover frames)</b>							
<b>For door cutouts</b>							
 Masking frame D NSE0_00577	<b>A</b> <b>IP40</b>	Fixed-mounted or plug-in circuit breaker	<a href="#">3VL9400-8BC00</a>	1	1 unit	1CC	0.046
 Masking frame E NSE0_00578	<b>B<sup>1)2)</sup></b> <b>IP40</b>	Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism (only with SEO stored energy mechanisms)	<a href="#">3VL9400-8BG00</a>	1	1 unit	1CC	0.154
	<b>C</b> <b>IP20</b>	Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism)	<a href="#">3VL9400-8BH00</a>	1	1 unit	1CC	0.389
	<b>D</b> <b>IP40</b>	Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame RCD masking frame	<a href="#">3VL9400-8BC00</a> <a href="#">3VL9400-8BD00</a>	1 1	1 unit 1 unit	1CC 1CC	0.046 0.044
	<b>E<sup>1)</sup></b> <b>IP40</b>	Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon  Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon	<a href="#">3VL9400-8BH00</a> <a href="#">3VL9400-8BJ00</a>	1 1	1 unit 1 unit	1CC 1CC	0.389 0.396

<sup>1)</sup> For withdrawable version IP20.

<sup>2)</sup> As motorized operating mechanism (without stored energy mechanism) for the 3VL4-3VL6, use article No. 3VL9300-8BG00.

**Molded Case Circuit Breakers**

## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

## Accessories and spare parts

DT	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>							Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>					

3VL9300-8BC00

1 1 unit 1CC 0.061

3VL9300-8BC00

1 1 unit 1CC 0.061

3VL9300-8BG00

1 1 unit 1CC 0.126

3VL9300-8BG00

1 1 unit 1CC 0.126

3VL9300-8BH00

1 1 unit 1CC 0.332

3VL9300-8BH00

1 1 unit 1CC 0.332

3VL9300-8BC00

1 1 unit 1CC 0.061

3VL9300-8BC00

1 1 unit 1CC 0.061

3VL9300-8BD00

1 1 unit 1CC 0.046

3VL9300-8BD00

1 1 unit 1CC 0.046

3VL9300-8BH00

1 1 unit 1CC 0.332

3VL9300-8BH00

1 1 unit 1CC 0.332

3VL9300-8BJ00

1 1 unit 1CC 0.314

3VL9300-8BJ00

1 1 unit 1CC 0.314

DT	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>							Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>					

3VL9600-8BC00

1 1 unit 1CC 0.076

3VL9600-8BC00

1 1 unit 1CC 0.076

3VL9600-8BG00

1 1 unit 1CC 0.209

3VL9600-8BG00

1 1 unit 1CC 0.209

3VL9600-8BH00

1 1 unit 1CC 0.343

3VL9600-8BH00

1 1 unit 1CC 0.343

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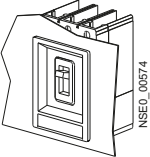
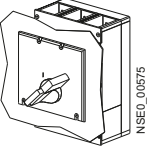
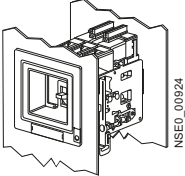
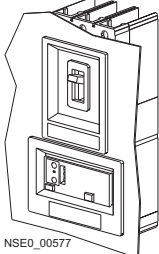
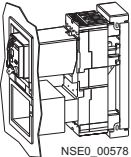
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## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

2

Version	DT	For VL1250 (3VL7) Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Further accessories</b>							
<b>3- or 4-pole</b>							
<b>Masking frames (cover frames)</b>							
<b>For door cutouts</b>							
 NSE0_00574	<b>A</b>	Fixed-mounted or plug-in circuit breaker					
Masking frame A	<b>IP40</b>			<b>3VL9800-8BC00</b>	1	1 unit	1CC 0.064
 NSE0_00575	<b>B<sup>1)</sup></b>	Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism					
Masking frame B	<b>IP40</b>			<b>3VL9800-8BG00</b>	1	1 unit	1CC 0.215
 NSE0_00924	<b>C</b>	Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism)					
Masking frame C	<b>IP20</b>			<b>3VL9800-8BH00</b>	1	1 unit	1CC 0.415
 NSE0_00577	<b>D</b>	Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame RCD masking frame					
Masking frame D	<b>IP40</b>		--	--			
 NSE0_00578	<b>E<sup>1)</sup></b>	Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon  Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon					
Masking frame E	<b>IP40</b>		--	--			

<sup>1)</sup> For withdrawable version IP20.

## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

#### Accessories and spare parts

DT	For VL1600 (3VL8) Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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3VL9800-8BC00

1 1 unit 1CC 0.064

3VL9800-8BG00

1 1 unit 1CC 0.215

3VL9800-8BH00

1 1 unit 1CC 0.415

-

-

-

-

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

#### More information

2

##### **Manual for the 3VL molded case circuit breaker**

This manual contains additional technical information, covering a product description, mode of operation, electrical wiring system and retrofitting.

The manual and operating instructions are available in PDF format at:

[www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)

##### **SENTRON manual for communication solutions**

Free download from  
[www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)

See chapter "Air Circuit Breakers"  
"3WL Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC, "Accessories and spare parts".

Note

You will find the 3VL molded case circuit breakers up to 1600 A according to UL 489 from [page 2/214 onwards](#).

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Introduction

### Overview

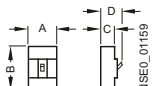
2



Type VL150X UL, CG frame VL150 UL, DG frame VL250 UL, FG frame VL400 UL, JG frame

#### Molded case circuit breakers

#### 3VL molded case circuit breakers up to 1600 A, according to UL 489

Rated current $I_n^{1)}$ at 40 °C ambient temperature	A	20 to 150	50 to 150	100 to 250	250 to 400
Number of poles		3	3	3	3
Rated operational voltage $U_e$ (UL) 50/60 Hz AC	V	480, 600/347	480, 600/347	400, 600/347	600
DC <sup>2)</sup>	V	250	500	500	500
<b>Overcurrent release</b>					
Thermal-magnetic		✓	✓	✓	✓
Electronic, ETU with setting knobs		--	✓	✓	✓
Electronic LCD ETU		--	✓	✓	✓
<b>Dimensions</b>					
					
A	mm	105	105	105	139
B	mm	157	175	175	279
C	mm	81	81	81	102
D	mm	107	107	107	138

#### Breaking capacity

##### Standard breaking capacity N

Up to 240 V AC	kA	65	65	65	65
Up to 480 V AC	kA	35	35	35	35
Up to 600 V AC	kA	--	--	--	25
Up to 600/347 V AC	kA	10	18	18	--
Up to 250 V DC <sup>3)</sup>	kA	30	30	30	30
Up to 500 V DC <sup>3) 4)</sup>	kA	--	18	18	25
<b>Breaking capacity <math>I_{cu}/I_{cs}</math></b> RMS value according to IEC 60947-2					
Up to 240 V AC	kA	65/65	65/65	65/65	65/65
Up to 415 V AC	kA	40/40	40/40	40/40	45/45
Up to 690 V AC	kA	8/4 <sup>5)</sup>	12/6	12/6	12/6
Up to 250 V DC <sup>3)</sup>	kA	30/30	30/30	30/30	30/30

##### High breaking capacity H

Up to 240 V AC	kA	100	100	100	100
Up to 480 V AC	kA	65	65	65	65
Up to 600 V AC	kA	--	--	--	25
Up to 600/347 V AC	kA	10	18	18	--
Up to 250 V DC <sup>3)</sup>	kA	30	30	30	30
Up to 500 V DC <sup>3) 4)</sup>	kA	--	18	25	35
<b>Breaking capacity <math>I_{cu}/I_{cs}</math></b> RMS value according to IEC 60947-2					
Up to 240 V AC	kA	100/75	100/75	100/75	100/75
Up to 415 V AC	kA	70/70	70/70	70/70	70/70
Up to 690 V AC	kA	10/5 <sup>5)</sup>	12/6	12/6	15/8
Up to 250 V DC <sup>3)</sup>	kA	30/30	30/30	30/30	30/30

##### Very high breaking capacity L

Up to 240 V AC	kA	--	200	200	200
Up to 480 V AC	kA	--	100	100	100
Up to 600 V AC	kA	--	--	--	25
Up to 600/347 V AC	kA	--	18	18	--
Up to 250 V DC <sup>3)</sup>	kA	--	30	30	30
Up to 500 V DC <sup>3) 4)</sup>	kA	--	18	30	35
<b>Breaking capacity <math>I_{cu}/I_{cs}</math></b> RMS value according to IEC 60947-2					
Up to 240 V AC	kA	--	200/150	200/150	200/150
Up to 415 V AC	kA	--	100/75	100/75	100/75
Up to 690 V AC	kA	--	12/6	12/6	15/8
Up to 250 V DC <sup>3)</sup>	kA	--	30/30	30/30	30/30

✓ Available -- Not available

1) 80 % rated current applications according to UL 489, 100 % rated current applications according to IEC 60947-2.

2) Rated DC voltage applies only for molded case circuit breakers with thermal-magnetic release.



VL400X UL, LG frame



VL800 UL, MG frame



VL1200 UL, NG frame



VL1600 UL, PG frame

**3VL molded case circuit breakers up to 1600 A, according to UL 489**

400 to 600

600 to 800

800 to 1200

1200 to 1600

3

3

3

3

600  
500600  
500600  
500600  
500✓  
✓  
✓✓  
✓  
✓✓  
✓  
✓✓  
✓  
✓139  
279  
102  
138190  
406  
118  
151229  
406  
157  
209229  
406  
157  
20965  
35  
18  
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30/30100/50  
70/35  
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35200  
100  
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65200  
100  
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42  
65200  
100  
65  
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42  
65200/150  
100/75  
15/8  
30/30200/150  
100/75  
20/10  
30/30200/100  
100/50  
35/17  
30/30200/100  
100/50  
35/17  
30/30

<sup>3)</sup> The maximum permitted DC voltage for each conducting path needs to be taken into account for DC switching applications.

<sup>4)</sup> 500 V DC rated / 600 V DC max. for use in ungrounded UPS DC applications (according to UL 489, Supplement SC)

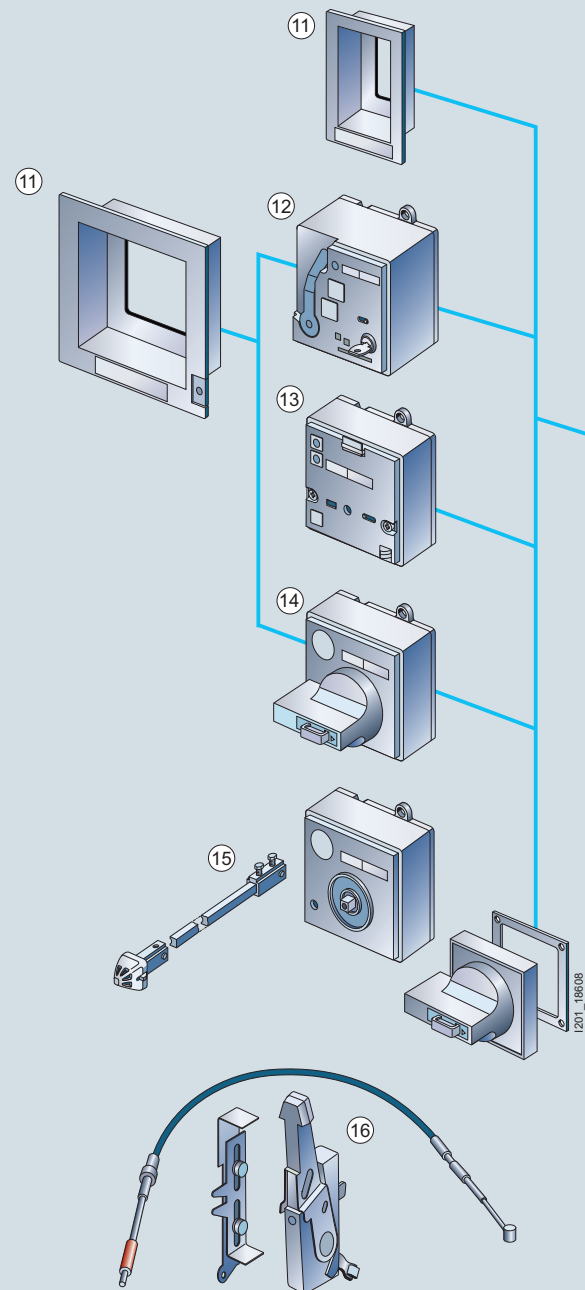
<sup>5)</sup> Rated current  $I_n \geq 25$  A.

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Introduction

2



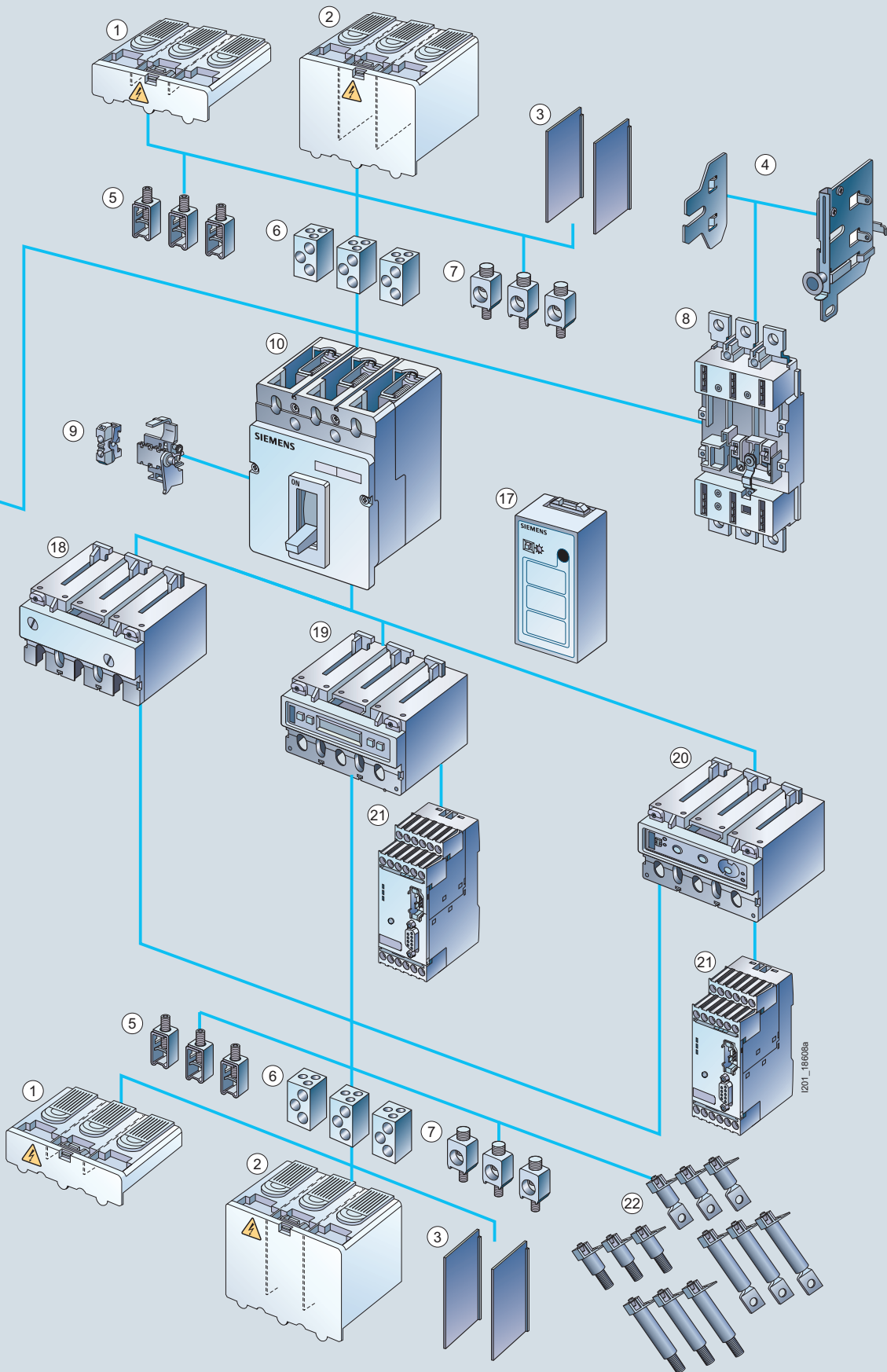
- ① Standard terminal cover
- ② Extended terminal cover
- ③ Phase barriers
- ④ Side panels of the withdrawable unit
- ⑤ Box terminal for Cu
- ⑥ Multiple feed-in terminal for Al/Cu (size-dependent)
- ⑦ Circular conductor terminal for Al/Cu
- ⑧ Withdrawable/plug-in base
- ⑨ Internal accessories
- ⑩ 3VL molded case circuit breakers
- ⑪ Masking frame/cover frame for door cutout
- ⑫ Motorized operating mechanism with stored energy mechanism (SEO), only CG frame to MG frame
- ⑬ Motorized operating mechanism (MO), only NG frame and PG frame
- ⑭ Front-operated rotary operating mechanism
- ⑮ Door-coupling rotary operating mechanism
- ⑯ Max Flex operating mechanism
- ⑰ Battery power supply with test function for electronic release
- ⑱ Thermal-magnetic release
- ⑲ Electronic Trip Unit with LCD (LCD ETU)
- ⑳ Electronic Trip Unit with setting knobs (ETU)
- ㉑ Communication module COM20/21 (Release 2)
- ㉒ Rear terminals – flat and round

# Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Introduction

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## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Introduction

### Benefits

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- 3VL molded case circuit breakers according to UL 489 optimally fulfill the high demands prevalent in modern power distribution.
- The molded case circuit breakers have a compact design and at the same time a high breaking capacity of up to 100 kA at 480 V.
- They are available both in thermal-magnetic (20 A to 1600 A) and in electronic versions (60 A to 1600 A).
- Via PROFIBUS DP and Modbus RTU, the molded case circuit breakers with Electronic Trip Units (ETUs) are consistently communication-capable.

**Application**

The different versions of 3VL molded case circuit breakers according to UL are suitable for the following applications:

- Incoming circuit breakers (feeders) and outgoing circuit breakers (branches) in distribution systems
- Switching and protection devices for motors (motor protection in combination with a contactor and motor protection relay), transformers and capacitors
- Disconnecting means with features for stopping and switching off in an emergency (main disconnecting means and EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms.

The 3VL molded case circuit breakers according to UL are available in the following versions:

1. For line protection  
The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.
2. For starter combinations  
These molded case circuit breakers are used both for short-circuit protection as well as for isolating functions, which may be required in starter combinations consisting of molded case circuit breakers, overload relays and motor contactors. These molded case circuit breakers exclusively feature adjustable, instantaneous short-circuit releases.
3. As non-automatic circuit breakers  
These molded case circuit breakers can be used as feeder circuit breakers, main control switches or non-automatic circuit breakers without overload protection. They incorporate an integrated short-circuit self-protection system.

**Breaking capacity**

- N** Molded case circuit breakers with standard breaking capacity N (up to 35 kA at 480 V)
- H** Molded case circuit breakers with high breaking capacity H (up to 65 kA at 480 V)
- L** Molded case circuit breakers with very high breaking capacity L (up to 100 kA at 480 V)

**Standards and specifications**

3VL molded case circuit breakers according to UL comply with:

UL 489,  
CSA (CSA C22.2 No. 5),  
IEC/EN 60947-2,  
For isolating features according to IEC 60947-2, EN 60947-2, NOM (NMX-J-266-ANCE), please inquire.  
CCC (only VL2 UL/DG, VL3 UL/FG, VL4 UL/JG and VL4X UL/LG)  
GOST and FireSafety (Russia)

The 3VL UL molded case circuit breakers comply in addition with requirements for "disconnecting means with features for stopping and switching off in an emergency" (EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms (red-yellow).

Please contact Siemens for details of other standards.

**Operating conditions**

The 3VL molded case circuit breakers according to UL are designed for operation in enclosed areas.

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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### Selection and ordering data

Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	Operating current of the instantaneous short-circuit protection "I" $I_i$	DT	Standard breaking capacity N, up to 35 kA at 480 V see "Overview".	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	A		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a> Article No. supplement required, see page 2/236					kg

Fixed-mounted molded case circuit breakers,  
VL150X UL (CG frame) up to VL1600 UL (PG frame),  
thermal-magnetic releases (UL file: E10848, CCN<sup>1)</sup>; DIVQ)



1201\_19069

#### Line protection, TM, LI function

With non-adjustable thermal overcurrent releases, adjustable short-circuit releases,

VL150X UL: non-adjustable short-circuit releases

#### Connection type:

Molded case circuit breakers without preassembled connections,  
connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/250 to 2/254 or  
under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262.

VL150X UL, CG frame	20	20	300	3VL1102-1KM30-□□□□	1	1 unit	1CC	1.900	
	25	25	300	3VL1125-1KM30-□□□□	1	1 unit	1CC	2.000	
	30	30	300	3VL1103-1KM30-□□□□	1	1 unit	1CC	2.000	
	35	35	600	3VL1135-1KM30-□□□□	1	1 unit	1CC	2.000	
	40	40	600	3VL1104-1KM30-□□□□	1	1 unit	1CC	2.000	
	50	50	600	3VL1105-1KM30-□□□□	1	1 unit	1CC	2.000	
	60	60	600	3VL1106-1KM30-□□□□	1	1 unit	1CC	2.000	
	70	70	1000	3VL1107-1KM30-□□□□	1	1 unit	1CC	2.000	
	80	80	1000	3VL1108-1KM30-□□□□	1	1 unit	1CC	2.000	
	90	90	1000	3VL1191-1KM30-□□□□	1	1 unit	1CC	2.000	
	100	100	1000	3VL1110-1KM30-□□□□	1	1 unit	1CC	2.000	
	125	125	1000	3VL1112-1KM30-□□□□	1	1 unit	1CC	2.000	
	150	150	1500	3VL1115-1KM30-□□□□	1	1 unit	1CC	2.000	
	VL150 UL, DG frame	50	50	450 ... 700	3VL2505-1KN30-□□□□	1	1 unit	1CC	2.200
		60	60	450 ... 700	3VL2506-1KN30-□□□□	1	1 unit	1CC	2.200
70		70	450 ... 700	3VL2507-1KN30-□□□□	1	1 unit	1CC	2.200	
80		80	450 ... 800	3VL2508-1KN30-□□□□	1	1 unit	1CC	2.200	
90		90	500 ... 1000	3VL2591-1KN30-□□□□	1	1 unit	1CC	2.200	
100		100	500 ... 1000	3VL2510-1KN30-□□□□	1	1 unit	1CC	2.200	
110		110	550 ... 1100	3VL2511-1KN30-□□□□	1	1 unit	1CC	2.200	
VL250 UL, FG frame	100	100	625 ... 1250	3VL3510-1KN30-□□□□	1	1 unit	1CC	2.300	
	110	110	800 ... 1600	3VL3511-1KN30-□□□□	1	1 unit	1CC	2.300	
	125	125	800 ... 1600	3VL3512-1KN30-□□□□	1	1 unit	1CC	2.300	
	150	150	800 ... 1600	3VL3515-1KN30-□□□□	1	1 unit	1CC	2.300	
	175	175	1000 ... 2000	3VL3517-1KN30-□□□□	1	1 unit	1CC	2.300	
	200	200	1000 ... 2000	3VL3520-1KN30-□□□□	1	1 unit	1CC	2.300	
	225	225	1250 ... 2500	3VL3522-1KN30-□□□□	1	1 unit	1CC	2.300	
VL400 UL, JG frame	250	250	1250 ... 2500	3VL4125-1KN30-□□□□	1	1 unit	1CC	5.700	
	300	300	1500 ... 3000	3VL4130-1KN30-□□□□	1	1 unit	1CC	5.700	
	350	350	1750 ... 3500	3VL4135-1KN30-□□□□	1	1 unit	1CC	5.700	
	400	400	2000 ... 4000	3VL4140-1KN30-□□□□	1	1 unit	1CC	5.700	
VL400X UL, LG frame	400	400	2000 ... 4000	3VL4840-1KN30-□□□□	1	1 unit	1CC	5.700	
	500	500	2500 ... 5000	3VL4850-1KN30-□□□□	1	1 unit	1CC	5.700	
	600	600	2750 ... 5500	3VL4860-1KN30-□□□□	1	1 unit	1CC	5.700	
VL800 UL, MG frame	600	600	3000 ... 6000	3VL6160-1KN30-□□□□	1	1 unit	1CC	14.000	
	700	700	3250 ... 6500	3VL6170-1KN30-□□□□	1	1 unit	1CC	14.000	
	800	800	3250 ... 6500	3VL6180-1KN30-□□□□	1	1 unit	1CC	14.000	
VL1200 UL, NG frame	800	800	4000 ... 8000	3VL7180-1KN30-□□□□	1	1 unit	1CC	21.800	
	900	900	5000 ... 10000	3VL7190-1KN30-□□□□	1	1 unit	1CC	21.800	
	1000	1000	5000 ... 10000	3VL7110-1KN30-□□□□	1	1 unit	1CC	21.800	
	1200	1200	7000 ... 12000	3VL7112-1KN30-□□□□	1	1 unit	1CC	21.800	
VL1600 UL, PG frame <sup>2)</sup>	1200	1200	7000 ... 12000	3VL8112-1KN30-□□□□	1	1 unit	1CC	32.800	
	1400	1400	7000 ... 12000	3VL8114-1KN30-□□□□	1	1 unit	1CC	32.800	
	1600	1600	7000 ... 12000	3VL8116-1KN30-□□□□	1	1 unit	1CC	32.800	

<sup>1)</sup> UL Category Code Number.

<sup>2)</sup> Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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DT High breaking capacity H, up to 65 kA at 480 V (H)						DT Very high breaking capacity L, up to 100 kA at 480 V (L)					
Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
3VL1102-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL1125-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL1103-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL1135-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL1104-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL1105-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL1106-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL1107-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL1108-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL1191-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL1110-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL1112-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL1115-2KM30-□□□□		1	1 unit	1CC	2.000	--					
3VL2505-2KN30-□□□□		1	1 unit	1CC	2.200	3VL2505-3KN30-□□□□		1	1 unit	1CC	2.200
3VL2506-2KN30-□□□□		1	1 unit	1CC	2.200	3VL2506-3KN30-□□□□		1	1 unit	1CC	2.200
3VL2507-2KN30-□□□□		1	1 unit	1CC	2.200	3VL2507-3KN30-□□□□		1	1 unit	1CC	2.200
3VL2508-2KN30-□□□□		1	1 unit	1CC	2.200	3VL2508-3KN30-□□□□		1	1 unit	1CC	2.200
3VL2591-2KN30-□□□□		1	1 unit	1CC	2.200	3VL2591-3KN30-□□□□		1	1 unit	1CC	2.200
3VL2510-2KN30-□□□□		1	1 unit	1CC	2.200	3VL2510-3KN30-□□□□		1	1 unit	1CC	2.200
3VL2511-2KN30-□□□□		1	1 unit	1CC	2.200	3VL2511-3KN30-□□□□		1	1 unit	1CC	2.200
3VL2512-2KN30-□□□□		1	1 unit	1CC	2.200	3VL2512-3KN30-□□□□		1	1 unit	1CC	2.200
3VL2515-2KN30-□□□□		1	1 unit	1CC	2.200	3VL2515-3KN30-□□□□		1	1 unit	1CC	2.200
3VL3510-2KN30-□□□□		1	1 unit	1CC	2.300	3VL3510-3KN30-□□□□		1	1 unit	1CC	2.300
3VL3511-2KN30-□□□□		1	1 unit	1CC	2.300	3VL3511-3KN30-□□□□		1	1 unit	1CC	2.300
3VL3512-2KN30-□□□□		1	1 unit	1CC	2.300	3VL3512-3KN30-□□□□		1	1 unit	1CC	2.300
3VL3515-2KN30-□□□□		1	1 unit	1CC	2.300	3VL3515-3KN30-□□□□		1	1 unit	1CC	2.300
3VL3517-2KN30-□□□□		1	1 unit	1CC	2.300	3VL3517-3KN30-□□□□		1	1 unit	1CC	2.300
3VL3520-2KN30-□□□□		1	1 unit	1CC	2.300	3VL3520-3KN30-□□□□		1	1 unit	1CC	2.300
3VL3522-2KN30-□□□□		1	1 unit	1CC	2.300	3VL3522-3KN30-□□□□		1	1 unit	1CC	2.300
3VL3525-2KN30-□□□□		1	1 unit	1CC	2.300	3VL3525-3KN30-□□□□		1	1 unit	1CC	2.300
3VL4125-2KN30-□□□□		1	1 unit	1CC	5.700	3VL4125-3KN30-□□□□		1	1 unit	1CC	5.700
3VL4130-2KN30-□□□□		1	1 unit	1CC	5.700	3VL4130-3KN30-□□□□		1	1 unit	1CC	5.700
3VL4135-2KN30-□□□□		1	1 unit	1CC	5.700	3VL4135-3KN30-□□□□		1	1 unit	1CC	5.700
3VL4140-2KN30-□□□□		1	1 unit	1CC	5.700	3VL4140-3KN30-□□□□		1	1 unit	1CC	5.700
3VL4840-2KN30-□□□□		1	1 unit	1CC	5.700	3VL4840-3KN30-□□□□		1	1 unit	1CC	5.700
3VL4850-2KN30-□□□□		1	1 unit	1CC	5.700	3VL4850-3KN30-□□□□		1	1 unit	1CC	5.700
3VL4860-2KN30-□□□□		1	1 unit	1CC	5.700	3VL4860-3KN30-□□□□		1	1 unit	1CC	5.700
3VL6160-2KN30-□□□□		1	1 unit	1CC	14.000	3VL6160-3KN30-□□□□		1	1 unit	1CC	14.000
3VL6170-2KN30-□□□□		1	1 unit	1CC	14.000	3VL6170-3KN30-□□□□		1	1 unit	1CC	14.000
3VL6180-2KN30-□□□□		1	1 unit	1CC	14.000	3VL6180-3KN30-□□□□		1	1 unit	1CC	14.000
3VL7180-2KN30-□□□□		1	1 unit	1CC	21.800	3VL7180-3KN30-□□□□		1	1 unit	1CC	21.800
3VL7190-2KN30-□□□□		1	1 unit	1CC	21.800	3VL7190-3KN30-□□□□		1	1 unit	1CC	21.800
3VL7110-2KN30-□□□□		1	1 unit	1CC	21.800	3VL7110-3KN30-□□□□		1	1 unit	1CC	21.800
3VL7112-2KN30-□□□□		1	1 unit	1CC	21.800	3VL7112-3KN30-□□□□		1	1 unit	1CC	21.800
3VL8112-2KN30-□□□□		1	1 unit	1CC	32.800	3VL8112-3KN30-□□□□		1	1 unit	1CC	32.800
3VL8114-2KN30-□□□□		1	1 unit	1CC	32.800	3VL8114-3KN30-□□□□		1	1 unit	1CC	32.800
3VL8116-2KN30-□□□□		1	1 unit	1CC	32.800	3VL8116-3KN30-□□□□		1	1 unit	1CC	32.800

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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Type	Rated current $I_n$	Operating current of the instantaneous short-circuit protection "I" $I_i$	DT	Standard breaking capacity N, up to 35 kA at 480 V see "Overview".	(N)				
	A	A		Article No. <a href="http://www.siemens.com/product?ArticleNo">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
				Article No. supplement required, see page 2/236					kg

#### Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), magnetic and Electronic Trip Units



NSE0\_00707

#### Molded case circuit breakers for starter combination, I function (motor circuit protectors; UL file: E10848, CCN<sup>1)</sup>: DKPUZ<sup>2)</sup>

Without overcurrent release, with adjustable short-circuit release

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/250 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262.

VL150 UL, DG frame	150	450 ... 900	--	
	150	750 ... 1500	--	
	150	1250 ... 2500	--	
VL250 UL, FG frame	250	600 ... 1200	--	
	250	1000 ... 2000	--	
	250	1750 ... 3500	--	
VL400 UL, JG frame	400	1250 ... 2500	--	
	400 <sup>3)</sup>	2000 ... 4000	--	
VL400X UL, LG frame	600	2000 ... 4000	--	
	600 <sup>3)</sup>	2750 ... 5500	--	
VL800 UL, MG frame	800	3250 ... 6500	--	
VL1200 UL, NG frame	1200	7000 ... 12000	--	



NSE0\_00708

#### Non-automatic molded case circuit breakers (molded case switches; UL file: E68312, CCN<sup>1)</sup>: WJAZ)

Without overcurrent release, with non-adjustable short-circuit release (for intrinsic protection only)

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/250 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262.

VL150X UL, CG frame	100	1800	3VL1110-1KE30-□□□□	1	1 unit	1CC	2.000
	150	1800	3VL1115-1KE30-□□□□	1	1 unit	1CC	2.000
VL150 UL, DG frame	150	2500	--				
VL250 UL, FG frame	250	3500	--				
VL400 UL, JG frame	400	4400	--				
VL400X UL, LG frame	600	5500	--				
VL800 UL, MG frame	800	6500	--				
VL1200 UL, NG frame	1200	12000	--				
VL1600 UL, PG frame <sup>4)</sup>	1600	14000	--				

<sup>1)</sup> UL Category Code Number.

<sup>2)</sup> UL-recognized.

<sup>3)</sup> Motor current according to NEC 430-110.

<sup>4)</sup> Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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2

DT	High breaking capacity H, up to 65 kA at 480 V					(H)	DT	Very high breaking capacity L, up to 100 kA at 480 V					(L)
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg

<a href="#">3VL2515-2KJ30-□□□□</a>	1	1 unit	1CC	2,200	--								
<a href="#">3VL2515-2KK30-□□□□</a>	1	1 unit	1CC	2,200	--								
<a href="#">3VL2515-2KL30-□□□□</a>	1	1 unit	1CC	2,200	--								
<a href="#">3VL3525-2KJ30-□□□□</a>	1	1 unit	1CC	2,300	--								
<a href="#">3VL3525-2KK30-□□□□</a>	1	1 unit	1CC	2,300	--								
<a href="#">3VL3525-2KL30-□□□□</a>	1	1 unit	1CC	2,300	--								
<a href="#">3VL4140-2KJ30-□□□□</a>	1	1 unit	1CC	5,700	--								
<a href="#">3VL4140-2KK30-□□□□</a>	1	1 unit	1CC	5,700	--								
<a href="#">3VL4860-2KJ30-□□□□</a>	1	1 unit	1CC	5,700	--								
<a href="#">3VL4860-2KK30-□□□□</a>	1	1 unit	1CC	5,700	--								
<a href="#">3VL6180-2KK30-□□□□</a>	1	1 unit	1CC	14,000	--								
<a href="#">3VL7112-2KK30-□□□□</a>	1	1 unit	1CC	21,800	--								

<a href="#">3VL1110-2KE30-□□□□</a>	1	1 unit	1CC	2,000	--								
<a href="#">3VL1115-2KE30-□□□□</a>	1	1 unit	1CC	2,000	--								
<a href="#">3VL2515-2KE30-□□□□</a>	1	1 unit	1CC	2,200		<a href="#">3VL2515-3KE30-□□□□</a>	1	1 unit	1CC	2,200			
<a href="#">3VL3525-2KE30-□□□□</a>	1	1 unit	1CC	2,300		<a href="#">3VL3525-3KE30-□□□□</a>	1	1 unit	1CC	2,300			
<a href="#">3VL4140-2KE30-□□□□</a>	1	1 unit	1CC	5,700		<a href="#">3VL4140-3KE30-□□□□</a>	1	1 unit	1CC	5,700			
<a href="#">3VL4860-2KE30-□□□□</a>	1	1 unit	1CC	5,700		<a href="#">3VL4860-3KE30-□□□□</a>	1	1 unit	1CC	5,700			
<a href="#">3VL6180-2KE30-□□□□</a>	1	1 unit	1CC	15,700		<a href="#">3VL6180-3KE30-□□□□</a>	1	1 unit	1CC	15,700			
<a href="#">3VL7112-2KE30-□□□□</a>	1	1 unit	1CC	23,500		<a href="#">3VL7112-3KE30-□□□□</a>	1	1 unit	1CC	23,500			
<a href="#">3VL8116-2KE30-□□□□</a>	1	1 unit	1CC	29,800		<a href="#">3VL8116-3KE30-□□□□</a>	1	1 unit	1CC	29,800			

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### 3-pole

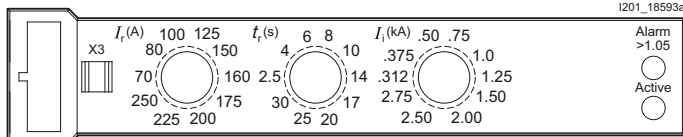
2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	Response time of the inverse-time delayed overload protection "L" $t_r$	Operating current of the instantaneous short-circuit protection "I" $I_i$	DT	Standard breaking capacity N, up to 35 kA at 480 V <small>see "Overview".</small>	(N)	Weight per PU approx.		
	A	A	s	A	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a> Article No. supplement required, <a href="#">see page 2/236</a>	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	kg

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN<sup>1)</sup>: DIVQ



NSE0\_00691



I201\_18593a

### Line protection

With Electronic Trip Units ETU (model 555)  
LI function

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", [pages 2/250 to 2/254](#) or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", [pages 2/255 to 2/262](#).

VL150 UL, DG frame	60	30 ... 60	2.5 ... 30	75 ... 660 (11 x $I_n$ )	3VL2506-1PB30-□□□□	1	1 unit	1CC	2.400
	100	40 ... 100	2.5 ... 30	125 ... 1100 (11 x $I_n$ )	3VL2510-1PB30-□□□□	1	1 unit	1CC	2.400
	150	60 ... 150	2.5 ... 30	187 ... 1650 (11 x $I_n$ )	3VL2515-1PB30-□□□□	1	1 unit	1CC	2.400
VL250 UL, FG frame	100	40 ... 100	2.5 ... 30	125 ... 1100 (11 x $I_n$ )	3VL3510-1PB30-□□□□	1	1 unit	1CC	2.500
	150	60 ... 150	2.5 ... 30	187 ... 1650 (11 x $I_n$ )	3VL3515-1PB30-□□□□	1	1 unit	1CC	2.500
	250	70 ... 250	2.5 ... 30	312 ... 2750 (11 x $I_n$ )	3VL3525-1PB30-□□□□	1	1 unit	1CC	2.500
VL400 UL, JG frame	250	70 ... 250	2.5 ... 30	312 ... 2750 (11 x $I_n$ )	3VL4125-1PB30-□□□□	1	1 unit	1CC	5.900
	400	150 ... 400	2.5 ... 30	500 ... 4400 (11 x $I_n$ )	3VL4140-1PB30-□□□□	1	1 unit	1CC	5.900
VL400X UL, LG frame	400	150 ... 400	2.5 ... 30	500 ... 4400 (11 x $I_n$ )	3VL4840-1PB30-□□□□	1	1 unit	1CC	5.900
	600	200 ... 600	2.5 ... 30	750 ... 6000 (10 x $I_n$ )	3VL4860-1PB30-□□□□	1	1 unit	1CC	5.900
VL800 UL, MG frame	600	200 ... 600	2.5 ... 30	750 ... 6000 (10 x $I_n$ )	3VL6160-1PB30-□□□□	1	1 unit	1CC	16.000
	800	300 ... 800	2.5 ... 30	1000 ... 6000 (7.5 x $I_n$ )	3VL6180-1PB30-□□□□	1	1 unit	1CC	16.000
VL1200 UL, NG frame	800	300 ... 800	2.5 ... 30	1000 ... 8800 (11 x $I_n$ )	3VL7180-1PB30-□□□□	1	1 unit	1CC	25.000
	1000	400 ... 1000	2.5 ... 30	1250 ... 11000 (11 x $I_n$ )	3VL7110-1PB30-□□□□	1	1 unit	1CC	25.000
	1200	400 ... 1200	2.5 ... 30	1500 ... 12000 (10 x $I_n$ )	3VL7112-1PB30-□□□□	1	1 unit	1CC	25.000
VL1600 UL, PG frame <sup>2)</sup>	1200	400 ... 1200	2.5 ... 30	1500 ... 12000 (10 x $I_n$ )	3VL8112-1PB30-□□□□	1	1 unit	1CC	31.300
	1600	700 ... 1600	2.5 ... 30	2000 ... 9600 (6 x $I_n$ )	3VL8116-1PB30-□□□□	1	1 unit	1CC	31.300

L = overload

I = short-circuit protection, instantaneous

<sup>1)</sup> UL Category Code Number.

<sup>2)</sup> Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base ([see page 2/262](#)).

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

DT	High breaking capacity H, up to 65 kA at 480 V					(H)	DT	Very high breaking capacity L, up to 100 kA at 480 V					(L)
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	Article No. supplement required, see page 2/236					kg		Article No. supplement required, see page 2/236					kg

<a href="#">3VL2506-2PB30-□□□□</a>	1	1 unit	1CC	2.400			<a href="#">3VL2506-3PB30-□□□□</a>	1	1 unit	1CC	2.400		
<a href="#">3VL2510-2PB30-□□□□</a>	1	1 unit	1CC	2.400			<a href="#">3VL2510-3PB30-□□□□</a>	1	1 unit	1CC	2.400		
<a href="#">3VL2515-2PB30-□□□□</a>	1	1 unit	1CC	2.400			<a href="#">3VL2515-3PB30-□□□□</a>	1	1 unit	1CC	2.400		
<a href="#">3VL3510-2PB30-□□□□</a>	1	1 unit	1CC	2.500			<a href="#">3VL3510-3PB30-□□□□</a>	1	1 unit	1CC	2.500		
<a href="#">3VL3515-2PB30-□□□□</a>	1	1 unit	1CC	2.500			<a href="#">3VL3515-3PB30-□□□□</a>	1	1 unit	1CC	2.500		
<a href="#">3VL3525-2PB30-□□□□</a>	1	1 unit	1CC	2.500			<a href="#">3VL3525-3PB30-□□□□</a>	1	1 unit	1CC	2.500		
<a href="#">3VL4125-2PB30-□□□□</a>	1	1 unit	1CC	5.900			<a href="#">3VL4125-3PB30-□□□□</a>	1	1 unit	1CC	5.900		
<a href="#">3VL4140-2PB30-□□□□</a>	1	1 unit	1CC	5.900			<a href="#">3VL4140-3PB30-□□□□</a>	1	1 unit	1CC	5.900		
<a href="#">3VL4840-2PB30-□□□□</a>	1	1 unit	1CC	5.900			<a href="#">3VL4840-3PB30-□□□□</a>	1	1 unit	1CC	5.900		
<a href="#">3VL4860-2PB30-□□□□</a>	1	1 unit	1CC	5.900			<a href="#">3VL4860-3PB30-□□□□</a>	1	1 unit	1CC	5.900		
<a href="#">3VL6160-2PB30-□□□□</a>	1	1 unit	1CC	16.000			<a href="#">3VL6160-3PB30-□□□□</a>	1	1 unit	1CC	16.000		
<a href="#">3VL6180-2PB30-□□□□</a>	1	1 unit	1CC	16.000			<a href="#">3VL6180-3PB30-□□□□</a>	1	1 unit	1CC	16.000		
<a href="#">3VL7180-2PB30-□□□□</a>	1	1 unit	1CC	25.000			<a href="#">3VL7180-3PB30-□□□□</a>	1	1 unit	1CC	25.000		
<a href="#">3VL7110-2PB30-□□□□</a>	1	1 unit	1CC	25.000			<a href="#">3VL7110-3PB30-□□□□</a>	1	1 unit	1CC	25.000		
<a href="#">3VL7112-2PB30-□□□□</a>	1	1 unit	1CC	25.000			<a href="#">3VL7112-3PB30-□□□□</a>	1	1 unit	1CC	25.000		
<a href="#">3VL8112-2PB30-□□□□</a>	1	1 unit	1CC	31.300			<a href="#">3VL8112-3PB30-□□□□</a>	1	1 unit	1CC	31.300		
<a href="#">3VL8116-2PB30-□□□□</a>	1	1 unit	1CC	31.300			<a href="#">3VL8116-3PB30-□□□□</a>	1	1 unit	1CC	31.300		

## Molded Case Circuit Breakers

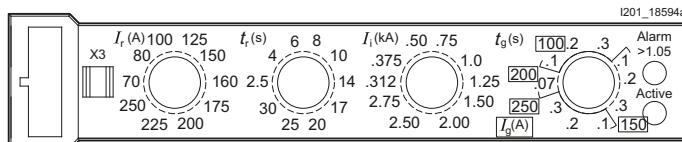
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	Response time of the inverse-time delayed overload protection "L" $t_r$	Operating current of the instantaneous short-circuit protection "I" $I_i$	Standard setting of $I_g/A$ and $t_g/s$	$t_g/s$ adjustable to 0.1, 0.2 and 0.3 s for the following $I_g/A$	DT	Standard breaking capacity N, up to 35 kA at 480 V see "Overview".					
	A	A	s	A				Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
													kg

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN<sup>1)</sup>: DIVQ



#### Line protection

With Electronic Trip Unit ETU (model 555)

LIG function

for 4-wire three-phase systems (vectorial summation current formation)

Connection type:

Molded case circuit breakers without preassembled connections,

connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/250 to 2/254 or

under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262.

Current transformers must be ordered under "Accessories" page 2/270.

VL150 UL, DG frame	60 100 150	30 ... 60 40 ... 100 60 ... 150	2.5 ... 30 2.5 ... 30 2.5 ... 30	75 ... 125 ... 187 ...	660 (11 x $I_n$ ) 1100 (11 x $I_n$ ) 1650 (11 x $I_n$ )	48/0.07 80/0.07 120/0.07	24/36/60 40/60/100 60/90/150	3VL2506-1PD30-□□□□ 3VL2510-1PD30-□□□□ 3VL2515-1PD30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC	2.400 2.400 2.400
VL250 UL, FG frame	100 150 250	40 ... 100 60 ... 150 70 ... 250	2.5 ... 30 2.5 ... 30 2.5 ... 30	125 ... 187 ... 312 ...	1100 (11 x $I_n$ ) 1650 (11 x $I_n$ ) 2750 (11 x $I_n$ )	80/0.07 120/0.07 200/0.07	40/60/100 60/90/150 100/150/250	3VL3510-1PD30-□□□□ 3VL3515-1PD30-□□□□ 3VL3525-1PD30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC	2.500 2.500 2.500
VL400 UL, JG frame	250 400	70 ... 250 150 ... 400	2.5 ... 30 2.5 ... 30	312 ... 500 ...	2750 (11 x $I_n$ ) 4400 (11 x $I_n$ )	200/0.07 320/0.11	100/150/250 160/240/400	3VL4125-1PD30-□□□□ 3VL4140-1PD30-□□□□	1 1	1 unit 1 unit	1CC 1CC	5.900 5.900
VL400X UL, LG frame	400 600	150 ... 400 200 ... 600	2.5 ... 30 2.5 ... 30	500 ... 750 ...	4400 (11 x $I_n$ ) 6000 (10 x $I_n$ )	320/0.11 360/0.18	160/240/400 240/360/600	3VL4840-1PD30-□□□□ 3VL4860-1PD30-□□□□	1 1	1 unit 1 unit	1CC 1CC	5.900 5.900
VL800 UL, MG frame	600 800	200 ... 600 300 ... 800	2.5 ... 30 2.5 ... 30	750 ... 1000 ...	6000 (10 x $I_n$ ) 6000 (7.5 x $I_n$ )	360/0.18 480/0.25	240/360/600 320/480/800	3VL6160-1PD30-□□□□ 3VL6180-1PD30-□□□□	1 1	1 unit 1 unit	1CC 1CC	16.000 16.000
VL1200 UL, NG frame	800 1000 1200	300 ... 800 400 ... 1000 400 ... 1200	2.5 ... 30 2.5 ... 30 2.5 ... 30	1000 ... 1250 ... 1500 ...	8800 (11 x $I_n$ ) 11000 (11 x $I_n$ ) 12000 (10 x $I_n$ )	480/0.25 600/0.32 720/0.32	320/480/800 400/600/1000 480/720/1200	3VL7180-1PD30-□□□□ 3VL7110-1PD30-□□□□ 3VL7112-1PD30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC	25.000 25.000 25.000
VL1600 UL, PG frame <sup>2)</sup>	1200 1600	400 ... 1200 700 ... 1600	2.5 ... 30 2.5 ... 30	1500 ... 2000 ...	12000 (10 x $I_n$ ) 9600 (6 x $I_n$ )	720/0.32 960/0.4	480/720/1200 640/960/1200	3VL8112-1PD30-□□□□ 3VL8116-1PD30-□□□□	1 1	1 unit 1 unit	1CC 1CC	31.300 31.300

L = overload

I = short-circuit protection, instantaneous

G = ground-fault protection

<sup>1)</sup> UL Category Code Number.

<sup>2)</sup> Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

DT	High breaking capacity H, up to 65 kA at 480 V <span style="float: right;">(H)</span>					DT	Very high breaking capacity L, up to 100 kA at 480 V <span style="float: right;">(L)</span>						
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
						kg							kg

<a href="#">3VL2506-2PD30-□□□□</a>	1	1 unit	1CC	2.400	<a href="#">3VL2506-3PD30-□□□□</a>	1	1 unit	1CC	2.400
<a href="#">3VL2510-2PD30-□□□□</a>	1	1 unit	1CC	2.400	<a href="#">3VL2510-3PD30-□□□□</a>	1	1 unit	1CC	2.400
<a href="#">3VL2515-2PD30-□□□□</a>	1	1 unit	1CC	2.400	<a href="#">3VL2515-3PD30-□□□□</a>	1	1 unit	1CC	2.400
<a href="#">3VL3510-2PD30-□□□□</a>	1	1 unit	1CC	2.500	<a href="#">3VL3510-3PD30-□□□□</a>	1	1 unit	1CC	2.500
<a href="#">3VL3515-2PD30-□□□□</a>	1	1 unit	1CC	2.500	<a href="#">3VL3515-3PD30-□□□□</a>	1	1 unit	1CC	2.500
<a href="#">3VL3525-2PD30-□□□□</a>	1	1 unit	1CC	2.500	<a href="#">3VL3525-3PD30-□□□□</a>	1	1 unit	1CC	2.500
<a href="#">3VL4125-2PD30-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4125-3PD30-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL4140-2PD30-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4140-3PD30-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL4840-2PD30-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4840-3PD30-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL4860-2PD30-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4860-3PD30-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL6160-2PD30-□□□□</a>	1	1 unit	1CC	16.000	<a href="#">3VL6160-3PD30-□□□□</a>	1	1 unit	1CC	16.000
<a href="#">3VL6180-2PD30-□□□□</a>	1	1 unit	1CC	16.000	<a href="#">3VL6180-3PD30-□□□□</a>	1	1 unit	1CC	16.000
<a href="#">3VL7180-2PD30-□□□□</a>	1	1 unit	1CC	25.000	<a href="#">3VL7180-3PD30-□□□□</a>	1	1 unit	1CC	25.000
<a href="#">3VL7110-2PD30-□□□□</a>	1	1 unit	1CC	25.000	<a href="#">3VL7110-3PD30-□□□□</a>	1	1 unit	1CC	25.000
<a href="#">3VL7112-2PD30-□□□□</a>	1	1 unit	1CC	25.000	<a href="#">3VL7112-3PD30-□□□□</a>	1	1 unit	1CC	25.000
<a href="#">3VL8112-2PD30-□□□□</a>	1	1 unit	1CC	31.300	<a href="#">3VL8112-3PD30-□□□□</a>	1	1 unit	1CC	31.300
<a href="#">3VL8116-2PD30-□□□□</a>	1	1 unit	1CC	31.300	<a href="#">3VL8116-3PD30-□□□□</a>	1	1 unit	1CC	31.300

## Molded Case Circuit Breakers

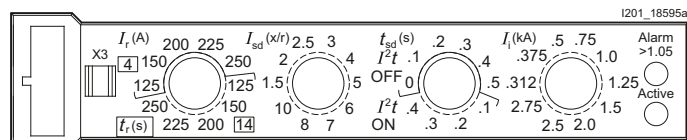
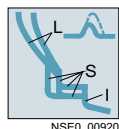
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	Response time of the inverse-time delayed overload protection "L" $t_r$	Operating current of the instantaneous short-circuit protection "I" $I_i$	Operating current of the short-time delayed short-circuit protection "S" $I_{sd}$	DT	Standard breaking capacity N, up to 35 kA at 480 V see "Overview".	N			Weight per PU approx.	
	A	A	s	A	A		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	kg

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN<sup>1)</sup>: DIVQ



### Line and generator protection

With Electronic Trip Unit ETU (model 555)  
LSI function ( $t_{sd} = 0$  to 0.5 s)

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/250 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262.

Model	Rated current $I_n$ (A)	Overload current $I_r$ (A)	Response time $t_r$ (s)	Instantaneous short-circuit current $I_i$ (A)	Short-time delayed short-circuit current $I_{sd}$ (kA)	Breaking capacity N (kA)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. (kg)
VL150 UL, DG frame	60, 100, 150	30 ... 60, 40 ... 100, 60 ... 150	4/14	75 ... 660 (11 x $I_n$ ), 125 ... 1100 (11 x $I_n$ ), 187 ... 1650 (11 x $I_n$ )	1.5 ... 10 x $I_r$ , 1.5 ... 10 x $I_r$ , 1.5 ... 10 x $I_r$	3VL2506-1PE30-□□□□, 3VL2510-1PE30-□□□□, 3VL2515-1PE30-□□□□		1	1 unit	1CC	2.400
VL250 UL, FG frame	100, 150, 250	40 ... 100, 60 ... 150, 125 ... 250	4/14	125 ... 1100 (11 x $I_n$ ), 187 ... 1650 (11 x $I_n$ ), 312 ... 2750 (11 x $I_n$ )	1.5 ... 10 x $I_r$ , 1.5 ... 10 x $I_r$ , 1.5 ... 10 x $I_r$	3VL3510-1PE30-□□□□, 3VL3515-1PE30-□□□□, 3VL3525-1PE30-□□□□		1	1 unit	1CC	2.500
VL400 UL, JG frame	250, 400	125 ... 250, 200 ... 400	4/14, 10/20	312 ... 2750 (11 x $I_n$ ), 500 ... 4400 (11 x $I_n$ )	1.5 ... 10 x $I_r$ , 1.5 ... 10 x $I_r$	3VL4125-1PE30-□□□□, 3VL4140-1PE30-□□□□		1	1 unit	1CC	5.900
VL400X UL, LG frame	400, 600	200 ... 400, 350 ... 600	10/20	500 ... 4400 (11 x $I_n$ ), 750 ... 6000 (10 x $I_n$ )	1.5 ... 10 x $I_r$ , 1.5 ... 10 x $I_r$	3VL4840-1PE30-□□□□, 3VL4860-1PE30-□□□□		1	1 unit	1CC	5.900
VL800 UL, MG frame	600, 800	350 ... 600, 400 ... 800	10/20	750 ... 6000 (10 x $I_n$ ), 1000 ... 6000 (7.5 x $I_n$ )	1.5 ... 10 x $I_r$ , 1.5 ... 10 x $I_r$	3VL6160-1PE30-□□□□, 3VL6180-1PE30-□□□□		1	1 unit	1CC	16.000
VL1200 UL, NG frame	800, 1000, 1200	400 ... 800, 600 ... 1000, 700 ... 1200	10/20	1000 ... 8800 (11 x $I_n$ ), 1250 ... 11000 (11 x $I_n$ ), 1500 ... 12000 (10 x $I_n$ )	1.5 ... 10 x $I_r$ , 1.5 ... 10 x $I_r$ , 1.5 ... 10 x $I_r$	3VL7180-1PE30-□□□□, 3VL7110-1PE30-□□□□, 3VL7112-1PE30-□□□□		1	1 unit	1CC	25.000
VL1600 UL, PG frame <sup>2)</sup>	1200, 1600	700 ... 1200, 1000 ... 1600	10/20	1500 ... 12000 (10 x $I_n$ ), 2000 ... 9600 (6 x $I_n$ )	1.5 ... 10 x $I_r$ , 1.5 ... 10 x $I_r$	3VL8112-1PE30-□□□□, 3VL8116-1PE30-□□□□		1	1 unit	1CC	31.300

L = overload

S = short-circuit protection, short-time delayed

I = short-circuit protection, instantaneous

1) UL Category Code Number.

2) Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

DT	High breaking capacity H, up to 65 kA at 480 V					(H)	DT	Very high breaking capacity L, up to 100 kA at 480 V					(L)
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
						kg							kg

<a href="#">3VL2506-2PE30-□□□□</a>	1	1 unit	1CC	2.400	<a href="#">3VL2506-3PE30-□□□□</a>	1	1 unit	1CC	2.400
<a href="#">3VL2510-2PE30-□□□□</a>	1	1 unit	1CC	2.400	<a href="#">3VL2510-3PE30-□□□□</a>	1	1 unit	1CC	2.400
<a href="#">3VL2515-2PE30-□□□□</a>	1	1 unit	1CC	2.400	<a href="#">3VL2515-3PE30-□□□□</a>	1	1 unit	1CC	2.400
<a href="#">3VL3510-2PE30-□□□□</a>	1	1 unit	1CC	2.500	<a href="#">3VL3510-3PE30-□□□□</a>	1	1 unit	1CC	2.500
<a href="#">3VL3515-2PE30-□□□□</a>	1	1 unit	1CC	2.500	<a href="#">3VL3515-3PE30-□□□□</a>	1	1 unit	1CC	2.500
<a href="#">3VL3525-2PE30-□□□□</a>	1	1 unit	1CC	2.500	<a href="#">3VL3525-3PE30-□□□□</a>	1	1 unit	1CC	2.500
<a href="#">3VL4125-2PE30-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4125-3PE30-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL4140-2PE30-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4140-3PE30-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL4840-2PE30-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4840-3PE30-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL4860-2PE30-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4860-3PE30-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL6160-2PE30-□□□□</a>	1	1 unit	1CC	16.000	<a href="#">3VL6160-3PE30-□□□□</a>	1	1 unit	1CC	16.000
<a href="#">3VL6180-2PE30-□□□□</a>	1	1 unit	1CC	16.000	<a href="#">3VL6180-3PE30-□□□□</a>	1	1 unit	1CC	16.000
<a href="#">3VL7180-2PE30-□□□□</a>	1	1 unit	1CC	25.000	<a href="#">3VL7180-3PE30-□□□□</a>	1	1 unit	1CC	25.000
<a href="#">3VL7110-2PE30-□□□□</a>	1	1 unit	1CC	25.000	<a href="#">3VL7110-3PE30-□□□□</a>	1	1 unit	1CC	25.000
<a href="#">3VL7112-2PE30-□□□□</a>	1	1 unit	1CC	25.000	<a href="#">3VL7112-3PE30-□□□□</a>	1	1 unit	1CC	25.000
<a href="#">3VL8112-2PE30-□□□□</a>	1	1 unit	1CC	31.300	<a href="#">3VL8112-3PE30-□□□□</a>	1	1 unit	1CC	31.300
<a href="#">3VL8116-2PE30-□□□□</a>	1	1 unit	1CC	31.300	<a href="#">3VL8116-3PE30-□□□□</a>	1	1 unit	1CC	31.300

## Molded Case Circuit Breakers

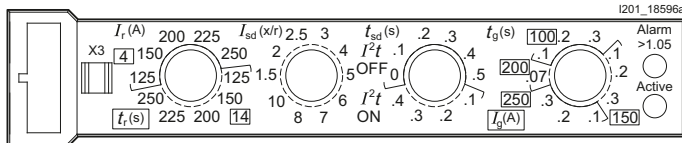
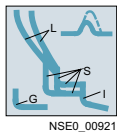
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	Re-response time of the inverse-time delayed overload protection "L" $t_r$	Operating current of the instantaneous short-circuit protection "I" $I_i$	Operating current of the short-time delayed short-circuit protection "S" $I_{sd}$	Standard setting of $I_g/A$ and $t_g/s$	$t_g/s$ adjustable to 0.1, 0.2 and 0.3 s for the following $I_g/A$	DT	Standard breaking capacity N, up to 35 kA at 480 V see "Overview".	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	A	s	A	A									kg

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN<sup>1</sup>): DIVQ



#### Line and generator protection

With Electronic Trip Unit ETU (model 555)  
LSIG function ( $t_{sd} = 0$  to 0.5 s)  
for 4-wire three-phase systems (vectorial summation current formation)

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/250 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262. Current transformers must be ordered under "Accessories" page 2/270.

VL150 UL, DG frame	60	30 ... 60	4/14	300/660 (5/11 x $I_n$ )	1.5 ... 10 x $I_r$	48/0.07	24/36/60	3VL2506-1PH30-□□□□	1	1 unit	1CC	2.400
	100	40 ... 100	4/14	500/1100 (5/11 x $I_n$ )	1.5 ... 10 x $I_r$	80/0.07	40/60/100	3VL2510-1PH30-□□□□	1	1 unit	1CC	2.400
	150	60 ... 150	4/14	750/1650 (5/11 x $I_n$ )	1.5 ... 10 x $I_r$	120/0.07	60/90/150	3VL2515-1PH30-□□□□	1	1 unit	1CC	2.400
VL250 UL, FG frame	100	40 ... 100	4/14	500/1100 (5/11 x $I_n$ )	1.5 ... 10 x $I_r$	80/0.07	40/60/100	3VL3510-1PH30-□□□□	1	1 unit	1CC	2.500
	150	60 ... 150	4/14	750/1650 (5/11 x $I_n$ )	1.5 ... 10 x $I_r$	120/0.07	60/90/150	3VL3515-1PH30-□□□□	1	1 unit	1CC	2.500
	250	125 ... 250	4/14	1250/2750 (5/11 x $I_n$ )	1.5 ... 10 x $I_r$	200/0.07	100/150/250	3VL3525-1PH30-□□□□	1	1 unit	1CC	2.500
VL400 UL, JG frame	250	125 ... 250	4/14	1250/2750 (5/11 x $I_n$ )	1.5 ... 10 x $I_r$	200/0.07	100/150/250	3VL4125-1PH30-□□□□	1	1 unit	1CC	5.900
	400	200 ... 400	10/20	2000/4400 (5/11 x $I_n$ )	1.5 ... 10 x $I_r$	320/0.11	160/240/400	3VL4140-1PH30-□□□□	1	1 unit	1CC	5.900
VL400X UL, LG frame	400	200 ... 400	10/20	2000/4400 (5/11 x $I_n$ )	1.5 ... 10 x $I_r$	320/0.11	160/240/400	3VL4840-1PH30-□□□□	1	1 unit	1CC	5.900
	600	350 ... 600	10/20	3000/6000 (5/10 x $I_n$ )	1.5 ... 10 x $I_r$	360/0.18	240/360/600	3VL4860-1PH30-□□□□	1	1 unit	1CC	5.900
VL800 UL, MG frame	600	350 ... 600	10/20	3000/6000 (5/10 x $I_n$ )	1.5 ... 10 x $I_r$	360/0.18	240/360/600	3VL6160-1PH30-□□□□	1	1 unit	1CC	16.000
	800	400 ... 800	10/20	4000/8000 (5/7.5 x $I_n$ )	1.5 ... 10 x $I_r$	480/0.25	320/480/800	3VL6180-1PH30-□□□□	1	1 unit	1CC	16.000
VL1200 UL, NG frame	800	400 ... 800	10/20	4000/8000 (5/11 x $I_n$ )	1.5 ... 10 x $I_r$	480/0.25	320/480/800	3VL7180-1PH30-□□□□	1	1 unit	1CC	25.000
	1000	600 ... 1000	10/20	5000/11000 (5/11 x $I_n$ )	1.5 ... 10 x $I_r$	600/0.32	400/600/1000	3VL7110-1PH30-□□□□	1	1 unit	1CC	25.000
	1200	700 ... 1200	10/20	6000/12000 (5/10 x $I_n$ )	1.5 ... 10 x $I_r$	720/0.32	480/720/1200	3VL7112-1PH30-□□□□	1	1 unit	1CC	25.000
VL1600 UL, PG frame <sup>2)</sup>	1200	700 ... 1200	10/20	6000/12000 (5/10 x $I_n$ )	1.5 ... 10 x $I_r$	720/0.32	480/720/1200	3VL8112-1PH30-□□□□	1	1 unit	1CC	31.300
	1600	1000...1600	10/20	8000/9600 (5/6 x $I_n$ )	1.5 ... 10 x $I_r$	960/0.4	640/960/1200	3VL8116-1PH30-□□□□	1	1 unit	1CC	31.300

L = overload

S = short-circuit protection, short-time delayed

I = short-circuit protection, instantaneous

G = ground-fault protection

<sup>1)</sup> UL Category Code Number.

<sup>2)</sup> Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

DT	High breaking capacity H, up to 65 kA at 480 V <span style="float: right;">(H)</span>					DT	Very high breaking capacity L, up to 100 kA at 480 V <span style="float: right;">(L)</span>						
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.
						kg							kg

<a href="#">3VL2506-2PH30-□□□□</a>	1	1 unit	1CC	2.400	<a href="#">3VL2506-3PH30-□□□□</a>	1	1 unit	1CC	2.400
<a href="#">3VL2510-2PH30-□□□□</a>	1	1 unit	1CC	2.400	<a href="#">3VL2510-3PH30-□□□□</a>	1	1 unit	1CC	2.400
<a href="#">3VL2515-2PH30-□□□□</a>	1	1 unit	1CC	2.400	<a href="#">3VL2515-3PH30-□□□□</a>	1	1 unit	1CC	2.400
<a href="#">3VL3510-2PH30-□□□□</a>	1	1 unit	1CC	2.500	<a href="#">3VL3510-3PH30-□□□□</a>	1	1 unit	1CC	2.500
<a href="#">3VL3515-2PH30-□□□□</a>	1	1 unit	1CC	2.500	<a href="#">3VL3515-3PH30-□□□□</a>	1	1 unit	1CC	2.500
<a href="#">3VL3525-2PH30-□□□□</a>	1	1 unit	1CC	2.500	<a href="#">3VL3525-3PH30-□□□□</a>	1	1 unit	1CC	2.500
<a href="#">3VL4125-2PH30-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4125-3PH30-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL4140-2PH30-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4140-3PH30-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL4840-2PH30-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4840-3PH30-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL4860-2PH30-□□□□</a>	1	1 unit	1CC	5.900	<a href="#">3VL4860-3PH30-□□□□</a>	1	1 unit	1CC	5.900
<a href="#">3VL6160-2PH30-□□□□</a>	1	1 unit	1CC	16.000	<a href="#">3VL6160-3PH30-□□□□</a>	1	1 unit	1CC	16.000
<a href="#">3VL6180-2PH30-□□□□</a>	1	1 unit	1CC	16.000	<a href="#">3VL6180-3PH30-□□□□</a>	1	1 unit	1CC	16.000
<a href="#">3VL7180-2PH30-□□□□</a>	1	1 unit	1CC	25.000	<a href="#">3VL7180-3PH30-□□□□</a>	1	1 unit	1CC	25.000
<a href="#">3VL7110-2PH30-□□□□</a>	1	1 unit	1CC	25.000	<a href="#">3VL7110-3PH30-□□□□</a>	1	1 unit	1CC	25.000
<a href="#">3VL7112-2PH30-□□□□</a>	1	1 unit	1CC	25.000	<a href="#">3VL7112-3PH30-□□□□</a>	1	1 unit	1CC	25.000
<a href="#">3VL8112-2PH30-□□□□</a>	1	1 unit	1CC	31.300	<a href="#">3VL8112-3PH30-□□□□</a>	1	1 unit	1CC	31.300
<a href="#">3VL8116-2PH30-□□□□</a>	1	1 unit	1CC	31.300	<a href="#">3VL8116-3PH30-□□□□</a>	1	1 unit	1CC	31.300

## Molded Case Circuit Breakers

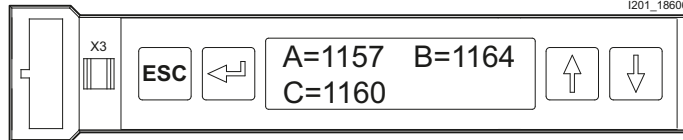
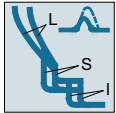
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	Operating current of the instantaneous short-circuit protection "I" $I_i$	DT	Standard breaking capacity N, up to 35 kA at 480 V <small>see "Overview".</small>					
	A	A	A		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
					Article No. supplement required, <a href="#">see page 2/236</a>					kg

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), up to 1600 A, Electronic Trip Units (UL file: E10848, CCN<sup>1)</sup>): DIVQ



### Molded case circuit breakers with Electronic Trip Unit with LCD, line protection with L/LS/LSI function

- Connection type:  
Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", [pages 2/250 to 2/254](#) or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", [pages 2/255 to 2/262](#).
- $t_{sd} = 0$  to 0.5 s
- $t_r/s$ : 2.5, 4, 6, 8, 10, 14, 17, 20, 25, 30
- $I_{sd}/A$ : 1.25 to 10 x  $I_r^{(2)}$
- Pre-alarm % of  $I_r$ : 80 to 100

VL150 UL, DG frame	60 100 150	30 ... 60 40 ... 100 60 ... 150	75 ... 660 (11 x $I_n$ ) 125 ... 1100 (11 x $I_n$ ) 187 ... 1650 (11 x $I_n$ )	3VL2506-1VH30-□□□□ 3VL2510-1VH30-□□□□ 3VL2515-1VH30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC	2.400 2.400 2.400
VL250 UL, FG frame	100 150 250	40 ... 100 60 ... 150 70 ... 250	125 ... 1100 (11 x $I_n$ ) 187 ... 1650 (11 x $I_n$ ) 312 ... 2750 (11 x $I_n$ )	3VL3510-1VH30-□□□□ 3VL3515-1VH30-□□□□ 3VL3525-1VH30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC	2.500 2.500 2.500
VL400 UL, JG frame	250 400	70 ... 250 150 ... 400	312 ... 2750 (11 x $I_n$ ) 500 ... 4400 (11 x $I_n$ )	3VL4125-1VH30-□□□□ 3VL4140-1VH30-□□□□	1 1	1 unit 1 unit	1CC 1CC	5.900 5.900
VL400X UL, LG frame	400 600	150 ... 400 200 ... 600	500 ... 4400 (11 x $I_n$ ) 750 ... 6000 (10 x $I_n$ )	3VL4840-1VH30-□□□□ 3VL4860-1VH30-□□□□	1 1	1 unit 1 unit	1CC 1CC	5.900 5.900
VL800 UL, MG frame	600 800	200 ... 600 300 ... 800	750 ... 6000 (10 x $I_n$ ) 1000 ... 6000 (7.5 x $I_n$ )	3VL6160-1VH30-□□□□ 3VL6180-1VH30-□□□□	1 1	1 unit 1 unit	1CC 1CC	16.000 16.000
VL1200 UL, NG frame	800 1000 1200	300 ... 800 400 ... 1000 400 ... 1200	1000 ... 8800 (11 x $I_n$ ) 1250 ... 11000 (11 x $I_n$ ) 1500 ... 12000 (10 x $I_n$ )	3VL7180-1VH30-□□□□ 3VL7110-1VH30-□□□□ 3VL7112-1VH30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC	25.000 25.000 25.000
VL1600 UL, PG frame <sup>3)</sup>	1200 1600	400 ... 1200 700 ... 1600	1500 ... 12000 (10 x $I_n$ ) 2000 ... 9600 (6 x $I_n$ )	3VL8112-1VH30-□□□□ 3VL8116-1VH30-□□□□	1 1	1 unit 1 unit	1CC 1CC	31.300 31.300

- L = overload
- S = short-circuit protection, short-time delayed
- I = short-circuit protection, instantaneous

1) UL Category Code Number.  
 2) Only for sizes for which  $I_i$  (max) = 11 x  $I_n$ . Here the factor is 11. Otherwise the following applies:  
 $I_{sd}$  (max) = (factor-1) x  $I_r$  (max). The factor is the value in brackets in the column  $I_i$ .  
 3) Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base ([see page 2/262](#)).

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

DT	High breaking capacity H, up to 65 kA at 480 V					(H)	DT	Very high breaking capacity L, up to 100 kA at 480 V					(L)
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.  kg		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a> Article No. supplement required, see page 2/236	Price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.  kg

3VL2506-2VH30-□□□□	1	1 unit	1CC	2.400	3VL2506-3VH30-□□□□	1	1 unit	1CC	2.400
3VL2510-2VH30-□□□□	1	1 unit	1CC	2.400	3VL2510-3VH30-□□□□	1	1 unit	1CC	2.400
3VL2515-2VH30-□□□□	1	1 unit	1CC	2.400	3VL2515-3VH30-□□□□	1	1 unit	1CC	2.400
3VL3510-2VH30-□□□□	1	1 unit	1CC	2.500	3VL3510-3VH30-□□□□	1	1 unit	1CC	2.500
3VL3515-2VH30-□□□□	1	1 unit	1CC	2.500	3VL3515-3VH30-□□□□	1	1 unit	1CC	2.500
3VL3525-2VH30-□□□□	1	1 unit	1CC	2.500	3VL3525-3VH30-□□□□	1	1 unit	1CC	2.500
3VL4125-2VH30-□□□□	1	1 unit	1CC	5.900	3VL4125-3VH30-□□□□	1	1 unit	1CC	5.900
3VL4140-2VH30-□□□□	1	1 unit	1CC	5.900	3VL4140-3VH30-□□□□	1	1 unit	1CC	5.900
3VL4840-2VH30-□□□□	1	1 unit	1CC	5.900	3VL4840-3VH30-□□□□	1	1 unit	1CC	5.900
3VL4860-2VH30-□□□□	1	1 unit	1CC	5.900	3VL4860-3VH30-□□□□	1	1 unit	1CC	5.900
3VL6160-2VH30-□□□□	1	1 unit	1CC	16.000	3VL6160-3VH30-□□□□	1	1 unit	1CC	16.000
3VL6180-2VH30-□□□□	1	1 unit	1CC	16.000	3VL6180-3VH30-□□□□	1	1 unit	1CC	16.000
3VL7180-2VH30-□□□□	1	1 unit	1CC	25.000	3VL7180-3VH30-□□□□	1	1 unit	1CC	25.000
3VL7110-2VH30-□□□□	1	1 unit	1CC	25.000	3VL7110-3VH30-□□□□	1	1 unit	1CC	25.000
3VL7112-2VH30-□□□□	1	1 unit	1CC	25.000	3VL7112-3VH30-□□□□	1	1 unit	1CC	25.000
3VL8112-2VH30-□□□□	1	1 unit	1CC	31.300	3VL8112-3VH30-□□□□	1	1 unit	1CC	31.300
3VL8116-2VH30-□□□□	1	1 unit	1CC	31.300	3VL8116-3VH30-□□□□	1	1 unit	1CC	31.300

## Molded Case Circuit Breakers

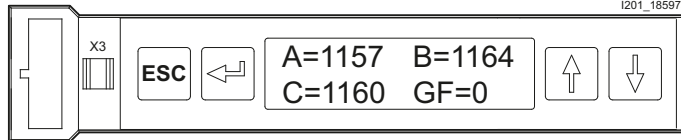
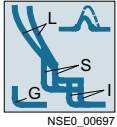
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### 3-pole

2

Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	Operating current of the instantaneous short-circuit protection "I" $I_i$	$I_g$ in % of $I_n$ DT	Standard breaking capacity N, up to 35 kA at 480 V see "Overview".	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	A	A		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a> Article No. supplement required, see page 2/236					kg

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), up to 1600 A, Electronic Trip Units (UL file: E10848, CCN<sup>1)</sup>: DIVQ



### Molded case circuit breakers with Electronic Trip Unit with LCD, line protection with LSIG function or LSIG (alarm) function

- Connection type:  
Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/250 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262.
- $t_r/s$ : 2.5, 4, 6, 8, 10, 14, 17, 20, 25, 30
- $I_{sd}/A$ : 1.25 to 10 x  $I_r^{(2)}$
- Pre-alarm % of  $I_r$ : 80 to 100
- $t_g/s$ : 0.1; 0.2; 0.3; 0.4; 0.5

VL150 UL, DG frame	60 100 150	30 ... 60 40 ... 100 60 ... 150	75 ... 660 (11 x $I_n$ ) 125 ... 1100 (11 x $I_n$ ) 187 ... 1650 (11 x $I_n$ )	40 ... 100 40 ... 100 40 ... 100	3VL2506-1□□30-□□□□ 3VL2510-1□□30-□□□□ 3VL2515-1□□30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC	2.400 2.400 2.400
VL250 UL, FG frame	100 150 250	40 ... 100 60 ... 150 70 ... 250	125 ... 1100 (11 x $I_n$ ) 187 ... 1650 (11 x $I_n$ ) 312 ... 2750 (11 x $I_n$ )	40 ... 100 40 ... 100 40 ... 100	3VL3510-1□□30-□□□□ 3VL3515-1□□30-□□□□ 3VL3525-1□□30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC	2.500 2.500 2.500
VL400 UL, JG frame	250 400	70 ... 250 150 ... 400	312 ... 2750 (11 x $I_n$ ) 500 ... 4400 (11 x $I_n$ )	40 ... 100 40 ... 100	3VL4125-1□□30-□□□□ 3VL4140-1□□30-□□□□	1 1	1 unit 1 unit	1CC 1CC	5.900 5.900
VL400X UL, LG frame	400 600	150 ... 400 200 ... 600	500 ... 4400 (11 x $I_n$ ) 750 ... 6000 (10 x $I_n$ )	40 ... 100 40 ... 100	3VL4840-1□□30-□□□□ 3VL4860-1□□30-□□□□	1 1	1 unit 1 unit	1CC 1CC	5.900 5.900
VL800 UL, MG frame	600 800	200 ... 600 300 ... 800	750 ... 6000 (10 x $I_n$ ) 1000 ... 6000 (7.5 x $I_n$ )	40 ... 100 40 ... 100	3VL6160-1□□30-□□□□ 3VL6180-1□□30-□□□□	1 1	1 unit 1 unit	1CC 1CC	16.000 16.000
VL1200 UL, NG frame	800 1000 1200	300 ... 800 400 ... 1000 400 ... 1200	1000 ... 8800 (11 x $I_n$ ) 1250 ... 11000 (11 x $I_n$ ) 1500 ... 12000 (10 x $I_n$ )	40 ... 100 40 ... 100 40 ... 100	3VL7180-1□□30-□□□□ 3VL7110-1□□30-□□□□ 3VL7112-1□□30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC	25.000 25.000 25.000
VL1600 UL, PG frame <sup>3)</sup>	1200 1600	400 ... 1200 700 ... 1600	1500 ... 12000 (10 x $I_n$ ) 2000 ... 9600 (6 x $I_n$ )	40 ... 100 40 ... 75	3VL8112-1□□30-□□□□ 3VL8116-1□□30-□□□□	1 1	1 unit 1 unit	1CC 1CC	31.300 31.300

### Electronic Trip Units with LCD, 3-pole version

#### Line protection with LSIG function

For 4-wire three-phase systems (vectorial summation current formation)  
 $t_{sd} = 0$  to 0.5 s,  $t_g = 0$  to 0.5 s

VM

#### Line protection with LSIG (alarm) function

For 4-wire three-phase systems (vectorial summation current formation)  
 $t_{sd} = 0$  to 0.5 s,  $t_g = 0$  to 0.5 s

VJ

- L = overload
- S = short-circuit protection, short-time delayed
- I = short-circuit protection, instantaneous
- G = ground-fault protection

- 1) UL Category Code Number.
- 2) Only for sizes for which  $I_i$  (max) = 11 x  $I_n$ . Here the factor is 11. Otherwise the following applies:  $I_{sd}$  (max) = (factor-1) x  $I_r$  (max). The factor is the value in brackets in the column  $I_i$ .
- 3) Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

DT	High breaking capacity H, up to 65 kA at 480 V					(H)	DT	Very high breaking capacity L, up to 100 kA at 480 V					(L)
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	Article No. supplement required, see page 2/236					kg		Article No. supplement required, see page 2/236					kg

3VL2506-2□□30-□□□□	1	1 unit	1CC	2.400	3VL2506-3□□30-□□□□	1	1 unit	1CC	2.400
3VL2510-2□□30-□□□□	1	1 unit	1CC	2.400	3VL2510-3□□30-□□□□	1	1 unit	1CC	2.400
3VL2515-2□□30-□□□□	1	1 unit	1CC	2.400	3VL2515-3□□30-□□□□	1	1 unit	1CC	2.400
3VL3510-2□□30-□□□□	1	1 unit	1CC	2.500	3VL3510-3□□30-□□□□	1	1 unit	1CC	2.500
3VL3515-2□□30-□□□□	1	1 unit	1CC	2.500	3VL3515-3□□30-□□□□	1	1 unit	1CC	2.500
3VL3525-2□□30-□□□□	1	1 unit	1CC	2.500	3VL3525-3□□30-□□□□	1	1 unit	1CC	2.500
3VL4125-2□□30-□□□□	1	1 unit	1CC	5.900	3VL4125-3□□30-□□□□	1	1 unit	1CC	5.900
3VL4140-2□□30-□□□□	1	1 unit	1CC	5.900	3VL4140-3□□30-□□□□	1	1 unit	1CC	5.900
3VL4840-2□□30-□□□□	1	1 unit	1CC	5.900	3VL4840-3□□30-□□□□	1	1 unit	1CC	5.900
3VL4860-2□□30-□□□□	1	1 unit	1CC	5.900	3VL4860-3□□30-□□□□	1	1 unit	1CC	5.900
3VL6160-2□□30-□□□□	1	1 unit	1CC	16.000	3VL6160-3□□30-□□□□	1	1 unit	1CC	16.000
3VL6180-2□□30-□□□□	1	1 unit	1CC	16.000	3VL6180-3□□30-□□□□	1	1 unit	1CC	16.000
3VL7180-2□□30-□□□□	1	1 unit	1CC	25.000	3VL7180-3□□30-□□□□	1	1 unit	1CC	25.000
3VL7110-2□□30-□□□□	1	1 unit	1CC	25.000	3VL7110-3□□30-□□□□	1	1 unit	1CC	25.000
3VL7112-2□□30-□□□□	1	1 unit	1CC	25.000	3VL7112-3□□30-□□□□	1	1 unit	1CC	25.000
3VL8112-2□□30-□□□□	1	1 unit	1CC	31.300	3VL8112-3□□30-□□□□	1	1 unit	1CC	31.300
3VL8116-2□□30-□□□□	1	1 unit	1CC	31.300	3VL8116-3□□30-□□□□	1	1 unit	1CC	31.300



## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Options

#### Selection and ordering data

##### 1st Article No. supplement: Undervoltage release or shunt release, wiring directly to accessories

Rated control supply voltage $U_g$ /frequency	Article No. supplement	Molded case circuit breakers	
50/60 Hz AC DC	3VL ..... - - - - - □ □ ..	Type	Type
		VL150X UL (CG frame) to VL400X UL (LG frame) <sup>1)</sup>	VL800 UL (MG frame) to VL1600 UL (PG frame)
		Additional price	Additional price
<b>Without auxiliary release</b>	<b>0 A</b>	None	None
<b>With undervoltage release</b> Only right pole			
V AC	V DC		
--	12	2 N ✓ <sup>1)</sup>	✓
--	24	2 P ✓ <sup>1)</sup>	✓
--	48	2 U ✓ <sup>1)</sup>	✓
--	60	2 V ✓ <sup>1)</sup>	✓
--	110-127	2 R ✓ <sup>1)</sup>	✓
--	220-250	2 S ✓ <sup>1)</sup>	✓
24	--	2 D <sup>2)</sup> ✓ <sup>1)</sup>	--
110-127	--	2 G ✓ <sup>1)</sup>	✓
220-250	--	2 H ✓ <sup>1)</sup>	✓
208	--	2 M ✓ <sup>1)</sup>	✓
277	--	2 Q ✓ <sup>1)</sup>	✓
380-415	--	2 J ✓ <sup>1)</sup>	✓
440-480	--	2 K ✓ <sup>1)</sup>	✓
500-525	--	2 L <sup>2)</sup> ✓ <sup>1)</sup>	--
<b>With shunt release</b> Only right pole			
V AC	V DC		
--	24	8 C ✓ <sup>1)</sup>	✓
--	48-60	8 J ✓ <sup>1)</sup>	✓
--	110-127	8 K ✓ <sup>1)</sup>	✓
--	220-250	8 Q ✓ <sup>1)</sup>	✓
48-60	--	8 M ✓ <sup>1)</sup>	✓
110-127	--	8 R ✓ <sup>1)</sup>	✓
208-277	--	8 T ✓ <sup>1)</sup>	✓
380-600	--	8 V ✓ <sup>1)</sup>	✓

##### 2nd Article No. supplement: Auxiliary switches (HS) and alarm switches (AS), left/right pole, directly wired to accessories

Equipment	Article No. supplement	Molded case circuit breakers	
HS = 1 NO or 1 NC contact block AS = 1 NO contact block	3VL ..... - - - - - □ □	Type	Type
		VL150X UL (CG frame) to VL400X UL (LG frame)	VL800 UL (MG frame) to VL1600 UL (PG frame)
		Additional price	Additional price
Without auxiliary/alarm switches	<b>A 0</b>	None	None
2 HS (1 NO/1 NC) <sup>3)</sup>	<b>B 1</b>	✓ <sup>4)</sup>	--
4 HS (2 NO/2 NC)	<b>C 1</b>	--	✓
2 HS (1 NO/1 NC) + 1 AS (1 NO)	<b>D 1</b>	✓ <sup>4)</sup>	--
2 HS (1 NO/1 NC) + 1 AS (1 NO) <sup>5)</sup>	<b>E 1</b>	--	✓

✓ Additional price

-- Not available

- 1) Only an undervoltage release or a shunt release or an auxiliary/alarm switch combination is possible for VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with an Electronic Trip Unit.
- 2) Not for VL800 UL (MG frame), VL1200 UL (NG frame) and VL1600 UL (PG frame) molded case circuit breakers.
- 3) Up to 3 HS are possible with a mounting adapter.
- 4) Except for installation in the left accessory compartment of the VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with Electronic Trip Unit because this compartment is fitted with the tripping solenoid. Only an auxiliary release or an auxiliary/alarm switch combination can be installed on the right.
- 5) Up to 2 HS + 2 AS are possible with a mounting adapter.

When ordering, add "-Z" to the complete Article No. and add the relevant order code(s).  
 Article No. with "-Z" 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  
**3VL . . . . . - . . . . . - . . . . . -Z**  
 and additional order code(s)  
   + . . . + . . .  
 Code for further versions **-Z**

**For fixed-mounted molded case circuit breakers (wired in factory)**

<p><b>Wiring for internal accessories</b>                  (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply) with connecting cables (3 m long) brought out at the rear</p>	VL150X UL (CG frame) to VL1600 UL (PG frame)	<b>L 0 2</b>		✓
<p><b>Wiring for motorized operating mechanisms</b>                  (Motorized operating mechanism not included in scope of supply, for selection and ordering data, see pages 2/242 to 2/250) with connecting cables (3 m long) or brought out at the top in the case of VL150X UL (CG frame) to VL400X UL (LG frame) or brought out at the right in the case of VL800 UL (MG frame) to VL1600 UL (PG frame)</p>	VL150X UL (CG frame) to VL1600 UL (PG frame)	<b>L 1 2</b>		✓
<p><b>Motorized operating mechanism (24 V DC)</b>                  Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply)  <b>with wiring for internal accessories</b> of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)</p>	VL150X UL (CG frame) to VL250 UL (FG frame)	<b>M 2 4</b>		✓
	VL400 UL (JG frame) to VL400X UL (LG frame)			✓
	VL800 UL (MG frame)			✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)			✓
<p><b>Motorized operating mechanism (42-48 V AC/DC)</b>                  Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply)  <b>with wiring for internal accessories</b> of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)</p>	VL150X UL (CG frame) to VL250 UL (FG frame)	<b>M 4 2</b>		✓
	VL400 UL (JG frame) to VL400X UL (LG frame)			✓
	VL800 UL (MG frame)			✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)			✓
<p><b>Motorized operating mechanisms (60 V AC/DC)</b>                  Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply)  <b>with wiring for internal accessories</b> of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)</p>	VL150X UL (CG frame) to VL250 UL (FG frame)	<b>M 6 0</b>		✓
	VL400 UL (JG frame) to VL400X UL (LG frame)			✓
	VL800 UL (MG frame)			✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)			✓
<p><b>Motorized operating mechanism (110-127 V AC/DC)</b>                  Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply)  <b>with wiring for internal accessories</b> of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)</p>	VL150X UL (CG frame) to VL250 UL (FG frame)	<b>M 1 1</b>		✓
	VL400 UL (JG frame) to VL400X UL (LG frame)			✓
	VL800 UL (MG frame)			✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)			✓
<p><b>Motorized operating mechanism (220-250 V AC/DC)</b>                  Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply)  <b>with wiring for internal accessories</b> of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)</p>	VL150X UL (CG frame) to VL250 UL (FG frame)	<b>M 2 2</b>		✓
	VL400 UL (JG frame) to VL400X UL (LG frame)			✓
	VL800 UL (MG frame)			✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)			✓

✓ Additional price

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

#### Selection and ordering data

2

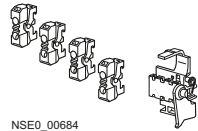
Wiring directly to accessories	DT	<b>For VL150X UL (CG frame) to VL400X UL (LG frame)</b>	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Price per PU			kg

#### Auxiliary switches and auxiliary releases (UL file: E69455)

##### 3-pole

##### Auxiliary switches (HS) and alarm switches (AS)

For retrofitting



NSE0\_00684  
3VL9400-2A.01

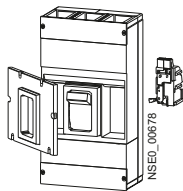
Assembly kits	Mounting side					
2 HS (1 NO + 1 NC)	N, left <sup>1)</sup> , right	3VL9400-2AB01	1	1 unit	1CC	0.054
4 HS (2 NO + 2 NC)	N, left, right	--				
2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	Left, right <sup>2)</sup> Left	3VL9400-2AD01 --	1	1 unit	1CC	0.081

Additional auxiliary switch/alarm switch combinations

See page 2/240.

##### Shunt releases

For retrofitting



3VL9400-1S.01,  
3VL9400-1U.01

V AC	V DC	Mounting side				
--	24	Right pole only	3VL9400-1SC01	1	1 unit	1CC 0.101
--	48 ... 60	Right pole only	3VL9400-1SJ01	1	1 unit	1CC 0.103
--	110 ... 127	Right pole only	3VL9400-1SK01	1	1 unit	1CC 0.101
--	220 ... 250	Right pole only	3VL9400-1SQ01	1	1 unit	1CC 0.099
48 ... 60	--	Right pole only	3VL9400-1SM01	1	1 unit	1CC 0.103
110 ... 127	--	Right pole only	3VL9400-1SR01	1	1 unit	1CC 0.100
208 ... 277	--	Right pole only	3VL9400-1ST01	1	1 unit	1CC 1.640
380 ... 600	--	Right pole only	3VL9400-1SV01	1	1 unit	1CC 0.103

##### Undervoltage releases

For retrofitting

V AC	V DC	Mounting side				
--	12	Right pole only	3VL9400-1UN01	1	1 unit	1CC 0.092
--	24	Right pole only	3VL9400-1UP01	1	1 unit	1CC 0.096
--	48	Right pole only	3VL9400-1UU01	1	1 unit	1CC 0.097
--	60	Right pole only	3VL9400-1UV01	1	1 unit	1CC 0.098
24	--	Right pole only	3VL9400-1UD01	1	1 unit	1CC 0.100
110 ... 127	--	Right pole only	3VL9400-1UG01	1	1 unit	1CC 0.099
208	110 ... 127	Right pole only	3VL9400-1UR01	1	1 unit	1CC 0.099
		Right pole only	3VL9400-1UM01	1	1 unit	1CC 0.101
220 ... 250	--	Right pole only	3VL9400-1UH01	1	1 unit	1CC 0.099
--	220 ... 250	Right pole only	3VL9400-1US01	1	1 unit	1CC 0.092
277	--	Right pole only	3VL9400-1UQ01	1	1 unit	1CC 0.094
380 ... 415	--	Right pole only	3VL9400-1UJ01	1	1 unit	1CC 0.103
440 ... 480	--	Right pole only	3VL9400-1UK01	1	1 unit	1CC 0.099
500 ... 525	--	Right pole only	3VL9400-1UL01	1	1 unit	1CC 0.100

<sup>1)</sup> Except for installation in the left accessory compartment of the VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with Electronic Trip Unit because this compartment is fitted with the tripping solenoid.

<sup>2)</sup> In the case of VL400 UL (JG frame)/VL400X UL (LG frame): Unsuitable for mounting in the right-hand accessory compartment. The 3VL9400-2AB01 assembly kit with auxiliary switches only is recommended.

Wiring directly to accessories

DT

**For VL800 UL (MG frame) to  
VL1600 UL (PG frame)**Article No.  
[www.siemens.com/  
product?Article No.](http://www.siemens.com/product?ArticleNo.)Price  
per PUPU  
(UNIT,  
SET, M)PS\*/  
P. unit

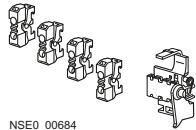
PG

Weight  
per PU  
approx.

kg

**Auxiliary switches and auxiliary releases**  
(UL file: E69455)**3-pole****Auxiliary switches (HS) and alarm switches (AS)**

For retrofitting



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3VL9800-2A.01

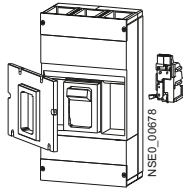
Assembly kits	Mounting side					
2 HS (1 NO + 1 NC)	N, left, right	--				
4 HS (2 NO + 2 NC)	N, left, right	3VL9800-2AC01	1	1 unit	1CC	0.080
2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	Left, right Left	3VL9800-2AE01	1	1 unit	1CC	0.082

Additional auxiliary switch/alarm switch  
combinations

see page 2/240.

**Shunt releases**

For retrofitting

3VL9800-1S.01,  
3VL9800-1U.01

V AC	V DC	Mounting side				
24	24	Right pole only	3VL9800-1SC01	1	1 unit	1CC 0.151
--	48 ... 60	Right pole only	3VL9800-1SJ01	1	1 unit	1CC 0.150
--	110 ... 127	Right pole only	3VL9800-1SK01	1	1 unit	1CC 0.152
--	220 ... 250	Right pole only	3VL9800-1SQ01	1	1 unit	1CC 0.150
48 ... 60	--	Right pole only	3VL9800-1SM01	1	1 unit	1CC 0.144
110 ... 127	--	Right pole only	3VL9800-1SR01	1	1 unit	1CC 0.153
208 ... 277	--	Right pole only	3VL9800-1ST01	1	1 unit	1CC 0.148
380 ... 600	--	Right pole only	3VL9800-1SV01	1	1 unit	1CC 0.144

**Undervoltage releases**

For retrofitting

V AC	V DC	Mounting side				
--	12	Right pole only	3VL9800-1UN01	1	1 unit	1CC 0.116
--	24	Right pole only	3VL9800-1UP01	1	1 unit	1CC 0.115
--	48	Right pole only	3VL9800-1UU01	1	1 unit	1CC 0.111
--	60	Right pole only	3VL9800-1UV01	1	1 unit	1CC 0.115
110 ... 127	--	Right pole only	3VL9800-1UG01	1	1 unit	1CC 0.111
--	110 ... 127	Right pole only	3VL9800-1UR01	1	1 unit	1CC 0.112
208	--	Right pole only	3VL9800-1UM01	1	1 unit	1CC 0.115
220 ... 250	--	Right pole only	3VL9800-1UH01	1	1 unit	1CC 0.114
--	220 ... 250	Right pole only	3VL9800-1US01	1	1 unit	1CC 0.112
277	--	Right pole only	3VL9800-1UQ01	1	1 unit	1CC 0.135
380 ... 415	--	Right pole only	3VL9800-1UJ01	1	1 unit	1CC 0.131
440 ... 480	--	Right pole only	3VL9800-1UK01	1	1 unit	1CC 0.137
500 ... 525	--	Right pole only	--			

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

For molded case circuit breakers	Maximum combination of auxiliary switches (HS) and alarm switches (AS)	DT	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
----------------------------------	--	----	---	--------------	-------------------	-------------	----	-----------------------------

Type

#### 3SB adapters and 3SB contact blocks

#### Mounting adapters for auxiliary and alarm switch combinations (UL file: E69455)

##### For installation in the left pole of the molded case circuit breaker

VL150X UL (CG frame), VL150 UL (DG frame), VL250 UL (FG frame), VL400 UL (JG frame), VL400X UL (LG frame)	Up to 3 HS <sup>1)</sup>		<b>3VL9400-2AH01</b>		1	1 unit	1CC	0.037
	2 HS + 1 AS <sup>1) 2)</sup>		<b>3VL9400-2AJ11</b>		1	1 unit	1CC	0.037
VL800 UL (MG frame), VL1200 UL (NG frame), VL1600 UL (PG frame)	Up to 4 HS		<b>3VL9816-2AL01</b>		1	1 unit	1CC	0.050
	2 HS + 2 AS		<b>3VL9816-2AN11</b>		1	1 unit	1CC	0.060

##### For installation in the right pole of the molded case circuit breaker

VL150X UL (CG frame), VL150 UL (DG frame), VL250 UL (FG frame), VL400 UL (JG frame), VL400X UL (LG frame) <sup>2)</sup>	Up to 3 HS <sup>1)</sup>		<b>3VL9400-2AH01</b>		1	1 unit	1CC	0.037
	2 HS + 1 AS <sup>1) 2)</sup>		<b>3VL9400-2AJ21</b>		1	1 unit	1CC	0.033
VL800 UL (MG frame), VL1200 UL (NG frame), VL1600 UL (PG frame)	Up to 4 HS		<b>3VL9816-2AL01</b>		1	1 unit	1CC	0.050
	2 HS + 2 AS		--					

<sup>1)</sup> Except for installation in the left pole for VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with Electronic Trip Unit. Only an auxiliary release or an auxiliary/alarm switch combination can be installed on the right.

<sup>2)</sup> In the case of VL400 UL (JG frame)/VL400X UL (LG frame): 3VL9400-2AJ21 unsuitable for mounting in the right-hand accessory compartment.

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

**Accessories and spare parts**

For auxiliary switches (HS) and alarm switches (AS)	DT	Molded case circuit breakers Type <b>VL150X UL (CG frame) to VL1600 UL (PG frame)</b>	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>				
		Price per PU				
<b>Contact blocks for auxiliary switch (HS) and alarm switch (AS) combinations</b>						
1 NO		<b>3SB3400-0J</b>	1	1 unit	41J	0.009
1 NC		<b>3SB3400-0K</b>	1	1 unit	41J	0.009

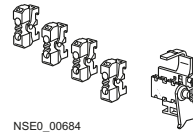
For auxiliary switch or alarm switch combinations not included in the kits provided as standard, the mounting adapters specified can be ordered separately together with the required contact blocks:

- 1 HS or 1 AS with NO contact 3SB3400-0J
- 1 HS or 1 AS with NC contact 3SB3400-0K

Notes:

A maximum of 6 contact blocks (HS) per molded case circuit breaker (VL150X UL (CG frame) to VL400X UL (LG frame)) and a maximum of 8 contact blocks (HS) per molded case circuit breaker (VL800 UL (MG frame) to VL1600 UL (PG frame)) are possible.

Four 3SB3 auxiliary contact blocks and one mounting adapter (right), suitable for VL800 UL (MG frame) to VL1600 UL (PG frame) molded case circuit breakers.



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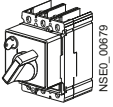
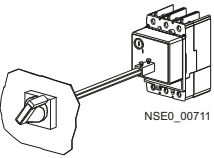
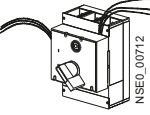
For retrofitting/equipment options, see chapter "Design", "Auxiliary releases and auxiliary switches".

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

2

Version	DT	For VL150X UL (CG frame) to VL250 UL (FG frame)	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	
		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a> Price per PU					
<b>Operating mechanisms</b>							
 NSE0_00679 3VL9.00-3H.01	<b>3-pole</b> <b>Front-operated rotary operating mechanisms (UL file: E69455)</b> For direct mounting on the molded case circuit breaker, without leading auxiliary switch, degree of protection IP30 <sup>1)</sup> , <u>black</u> EMERGENCY-STOP version Red knob, yellow indicator plate Safety locks for installation by the customer, <a href="#">see pages 2/263 to 2/267</a> .		<b>3VL9300-3HA01</b>	1	1 unit	1CC	0.490
			<b>3VL9300-3HC01</b>	1	1 unit	1CC	0.470
 NSE0_00711 3VL9.00-3H.06	<b>Door-coupling rotary operating mechanisms, complete; installation in doors and covers (UL file: E69455)</b> NEMA 1, 12 Degree of protection IP65, including <u>black</u> knob with masking plate, indicator plate, removable door coupling, extension shaft 300 mm and front-operated rotary operating mechanism for the respective molded case circuit breaker EMERGENCY-STOP version Red knob, yellow indicator plate, without leading auxiliary switch Safety locks for installation by the customer, <a href="#">see pages 2/263 to 2/267</a> .		<b>3VL9300-3HF06</b>	1	1 unit	1CC	0.870
			<b>3VL9300-3HG06</b>	1	1 unit	1CC	0.828
<b>Interlocking module UL 508A<sup>2)</sup></b> For use with 3VL1, 3VL2, 3VL3, 3VL4, 3VL4X and 3RV19.6-2			<b>8UC9400</b>	1	1 unit	1CL	1.780
 NSE0_00712 3VL9.00-3A.11	<b>Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism (UL file: E69455)</b> Standard or EMERGENCY-STOP version "OFF after ON" Leading auxiliary switches when switching on 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables "ON after OFF" Leading auxiliary switches when switching off 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables		<b>3VL9300-3AS11</b>	1	1 unit	1CC	0.098
			<b>3VL9300-3AT11</b>	1	1 unit	1CC	0.170
			<b>3VL9300-3AU11</b>	1	1 unit	1CC	0.113
			<b>3VL9300-3AW11</b>	1	1 unit	1CC	0.173
<b>Rotary operating mechanisms with shaft stub, without knob</b> Without leading auxiliary switch, for auxiliary switches, <a href="#">see above</a> .			<b>3VL9300-3HE01</b>	1	1 unit	1CC	0.445

1) IP40 with additional masking frame mounted on the door cutout.

2) In combination with 3VL1 to VL5, the interlocking module can be used with the complete door-coupling rotary operating mechanisms as follows:

	3VL1/3VL2/3VL3	3VL4/3VL4X
Door-coupling rotary operating mechanisms, complete		
• Black knob, light-gray indicator plate	3VL9300-3HF06	3VL9400-3HF06
• Red knob, yellow indicator plate	3VL9300-3HG06	3VL9400-3HG06

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

**Accessories and spare parts**

DT	For VL400 UL (JG frame) to VL400X UL (LG frame)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg	DT	For VL800 UL (MG frame)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
	<a href="http://www.siemens.com/product?ArticleNo.">3VL9400-3HA01</a>		1	1 unit	1CC	1.180		<a href="http://www.siemens.com/product?ArticleNo.">3VL9600-3HA01</a>		1	1 unit	1CC	1.340
	<a href="http://www.siemens.com/product?ArticleNo.">3VL9400-3HC01</a>		1	1 unit	1CC	1.129		<a href="http://www.siemens.com/product?ArticleNo.">3VL9600-3HC01</a>		1	1 unit	1CC	1.376
	<a href="http://www.siemens.com/product?ArticleNo.">3VL9400-3HF06</a>		1	1 unit	1CC	1.542		<a href="http://www.siemens.com/product?ArticleNo.">3VL9600-3HF06</a>		1	1 unit	1CC	1.700
	<a href="http://www.siemens.com/product?ArticleNo.">3VL9400-3HG06</a>		1	1 unit	1CC	1.597		<a href="http://www.siemens.com/product?ArticleNo.">3VL9600-3HG06</a>		1	1 unit	1CC	1.750
	<a href="http://www.siemens.com/product?ArticleNo.">8UC9400</a>		1	1 unit	1CL	1.780		--					
	<a href="http://www.siemens.com/product?ArticleNo.">3VL9400-3AS11</a>		1	1 unit	1CC	0.088		<a href="http://www.siemens.com/product?ArticleNo.">3VL9600-3AS11</a>		1	1 unit	1CC	0.091
	<a href="http://www.siemens.com/product?ArticleNo.">3VL9400-3AT11</a>		1	1 unit	1CC	0.143		<a href="http://www.siemens.com/product?ArticleNo.">3VL9600-3AT11</a>		1	1 unit	1CC	0.142
	<a href="http://www.siemens.com/product?ArticleNo.">3VL9400-3AU11</a>		1	1 unit	1CC	0.100		<a href="http://www.siemens.com/product?ArticleNo.">3VL9600-3AU11</a>		1	1 unit	1CC	0.090
	<a href="http://www.siemens.com/product?ArticleNo.">3VL9400-3AW11</a>		1	1 unit	1CC	0.160		<a href="http://www.siemens.com/product?ArticleNo.">3VL9600-3AW11</a>		1	1 unit	1CC	0.140
	<a href="http://www.siemens.com/product?ArticleNo.">3VL9400-3HE01</a>		1	1 unit	1CC	1.100		<a href="http://www.siemens.com/product?ArticleNo.">3VL9600-3HE01</a>		1	1 unit	1CC	1.282

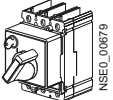
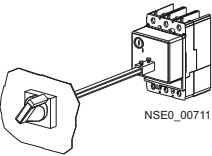
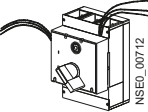
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## Molded Case Circuit Breakers

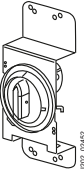
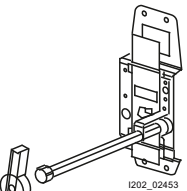
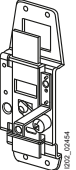

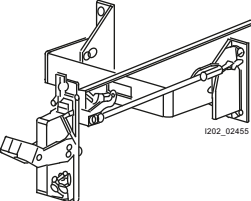
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

2

Version	DT	For VL1200 UL (NG frame) to VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Price per PU			kg
<b>Operating mechanisms</b>						
 <p>3VL9.00-3H.01</p>	<b>3-pole</b> <b>Front-operated rotary operating mechanisms (UL file: E69455)</b> For direct mounting on the molded case circuit breaker, without leading auxiliary switch, degree of protection IP30 <sup>1)</sup> , <u>black</u> EMERGENCY-STOP version Red knob, yellow indicator plate Safety locks for installation by the customer, <a href="#">see pages 2/263 to 2/267</a> .		<b>3VL9800-3HA01</b>	1	1 unit	1CC 3.550
			<b>3VL9800-3HC01</b>	1	1 unit	1CC 3.145
 <p>3VL9.00-3H.06</p>	<b>Door-coupling rotary operating mechanisms, complete; installation in doors and covers (UL file: E69455)</b> Degree of protection IP65, including <u>black</u> knob with masking plate, indicator plate, removable door coupling, extension shaft 300 mm and front-operated rotary operating mechanism for the respective molded case circuit breaker EMERGENCY-STOP version Red knob, yellow indicator plate, without leading auxiliary switch Safety locks for installation by the customer, <a href="#">see pages 2/263 to 2/267</a> .		<b>3VL9800-3HF06</b>	1	1 unit	1CC 4.538
			<b>3VL9800-3HG06</b>	1	1 unit	1CC 4.445
 <p>3VL9.00-3A.11</p>	<b>Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism (UL file: E69455)</b> Standard or EMERGENCY-STOP version "OFF after ON" Leading auxiliary switches when switching on 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables "ON after OFF" Leading auxiliary switches when switching off 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables		<b>3VL9800-3AS21</b>	1	1 unit	1CC 0.080
			<b>3VL9800-3AT21</b>	1	1 unit	1CC 0.178
			<b>3VL9800-3AU11</b>	1	1 unit	1CC 0.089
			<b>3VL9800-3AW11</b>	1	1 unit	1CC 0.140
		<b>Rotary operating mechanisms with shaft stub, without knob</b> Without leading auxiliary switch, for auxiliary switches, <a href="#">see above</a> .	<b>3VL9800-3HE01</b>	1	1 unit	1CC 2.421

<sup>1)</sup> IP40 with additional masking frame mounted on the door cutout.

Version	DT	For VL150 UL (DG frame) to VL250 UL (FG frame)	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Price per PU			
<b>Operating mechanisms</b>						
		<b>3-pole Front-operated rotary operating mechanisms</b> Fixed depth; knob is fastened directly on molded case circuit breaker, silver knob, black lettering Lockable with up to 3 padlocks	<b>3VL9300-3JA01</b>	1	1 unit	1CC 0.980
3VL9.00-3JA01						
		<b>Door-coupling rotary operating mechanisms, complete</b> Variable installation depth, knob for door fitting, including knob with masking plate Black knob Indicator plate, removable door coupling 12-inch extension shaft and front-operated rotary operating mechanism for the respective molded case circuit breaker Lockable knob (up to 3 padlocks), NEMA 1, 12	<b>3VL9300-3JD01</b>	1	1 unit	1CC 0.854
3VL9.00-3JD01						
		<b>Switching mechanism for door-coupling rotary operating mechanisms</b> Switching mechanism	<b>3VL9300-3JE01</b>	1	1 unit	1CC 0.376
3VL9.00-3JE01						
		<b>Handle for door-coupling rotary operating mechanisms</b>				
		<b>Standard version</b>				
		NEMA 1, 12	<b>3VL9600-3JF11</b>	1	1 unit	1CC 0.100
		NEMA 3R	<b>3VL9600-3JF01</b>	1	1 unit	1CC 0.100
		NEMA 4X	<b>3VL9600-3JF41</b>	1	1 unit	1CC 0.100
		<b>Extension shaft for door-coupling rotary operating mechanisms</b>				
		2 inch (50 mm)	<b>3VL9600-3JJ01</b>	1	1 unit	1CC 0.100
		3 inch (76 mm)	--			
		12 inch (0.3 m)	<b>3VL9600-3JJ11</b>	1	1 unit	1CC 0.100
		16 inch (0.4 m)	<b>3VL9600-3JJ21</b>	1	1 unit	1CC 0.100
		24 inch (0.6 m) with support bracket	--			
		<b>NFPA-79 intermediate operating mechanism</b> For door-coupling rotary operating mechanisms	<b>3VL9300-3JF81</b>	1	1 unit	1CC 0.278
3VL9300-3JF81						
		<b>Operating mechanism with flange connection for variable installation depth</b> Adjustable from 8 to 16 inch (approx. 200 to 400 mm) Complete kit, including knob Red/black knob <sup>1)</sup> NEMA 1, 3R, 12 plastic NEMA 4, 4X chrome-plated steel Black knob <sup>1)</sup> NEMA 1, 3R, 12 plastic NEMA 4, 4X chrome-plated steel	<b>3VL9300-3JS01</b> <b>3VL9300-3JS41</b>	1 1	1 unit 1 unit	1CC 1.717 1CC 0.010
3VL9300-3JS01						
			<b>3VL9300-3JS11</b> <b>3VL9300-3JS51</b>	1 1	1 unit 1 unit	1CC 0.010 1CC 2.417

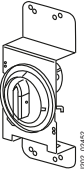
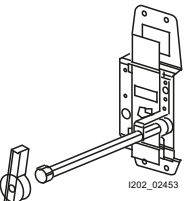
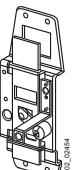

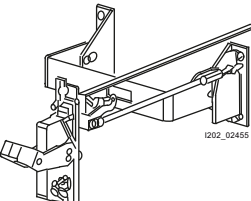
<sup>1)</sup> The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

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Version	DT	For VL400 UL (JG frame) to VL400X UL (LG frame)	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.
		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU			kg
<b>Operating mechanisms</b>						
		<b>3-pole</b> <b>Front-operated rotary operating mechanisms</b> Fixed depth; knob is fastened directly on molded case circuit breaker, silver knob, black lettering Lockable with up to 3 padlocks	<b>3VL9400-3JA01</b>	1	1 unit	1CC 0.100
3VL9.00-3JA01						
		<b>Door-coupling rotary operating mechanisms, complete</b> Variable installation depth, knob for door fitting, including knob with masking plate Black knob Indicator plate, removable door coupling 12-inch extension shaft and front-operated rotary operating mechanism for the respective molded case circuit breaker Lockable knob (up to 3 padlocks) NEMA 1, 12	<b>3VL9400-3JD01</b>	1	1 unit	1CC 0.100
3VL9.00-3JD01						
		<b>Switching mechanism for door-coupling rotary operating mechanisms</b> Switching mechanism	<b>3VL9400-3JE01</b>	1	1 unit	1CC 0.100
3VL9800-3JE01						
		<b>Handle for door-coupling rotary operating mechanisms</b>				
		<b>Standard version</b>				
	NEMA 1, 12	<b>3VL9600-3JF11</b>		1	1 unit	1CC 0.100
	NEMA 3R	<b>3VL9600-3JF01</b>		1	1 unit	1CC 0.100
	NEMA 4X	<b>3VL9600-3JF41</b>		1	1 unit	1CC 0.100
		<b>Extension shaft for door-coupling rotary operating mechanisms</b>				
	2 inch (50 mm)	<b>3VL9600-3JJ01</b>		1	1 unit	1CC 0.100
	3 inch (76 mm)	—				
	12 inch (0.3 m)	<b>3VL9600-3JJ11</b>		1	1 unit	1CC 0.100
	16 inch (0.4 m)	<b>3VL9600-3JJ21</b>		1	1 unit	1CC 0.100
	24 inch (0.6 m) with support bracket	—				
		<b>NFPA-79 intermediate operating mechanism</b> For door-coupling rotary operating mechanisms	<b>3VL9600-3JF81</b>	1	1 unit	1CC 0.010
3VL9800-3JF81						
		<b>Operating mechanism with flange connection for variable installation depth</b> Adjustable from 8 to 16 inch (approx. 200 to 400 mm) Complete kit, including knob Red/black knob <sup>1)</sup> NEMA 1, 3R, 12 plastic NEMA 4, 4X chrome-plated steel Black knob <sup>1)</sup> NEMA 1, 3R, 12 plastic NEMA 4, 4X chrome-plated steel	<b>3VL9400-3JS01</b> <b>3VL9400-3JS41</b> <b>3VL9400-3JS11</b> <b>3VL9400-3JS51</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CC 0.010 1CC 0.010 1CC 0.010 1CC 2.353
3VL9400-3JS01						

<sup>1)</sup> The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

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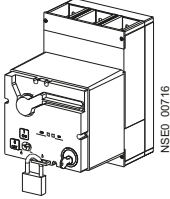
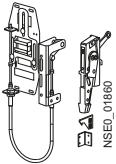
For VL800 UL (MG frame)					For VL1200 UL (NG frame) to VL1600 UL (PG frame)								
DT	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg	DT	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
	--							--					
	3VL9600-3JD01		1	1 unit	1CC	0.100		--					
	3VL9600-3JE01		1	1 unit	1CC	0.100		3VL9800-3JE01		1	1 unit	1CC	0.100
	3VL9600-3JF11		1	1 unit	1CC	0.100		3VL9800-3JF01		1	1 unit	1CC	0.100
	3VL9600-3JF01		1	1 unit	1CC	0.100		3VL9800-3JF01		1	1 unit	1CC	0.100
	3VL9600-3JF41		1	1 unit	1CC	0.100		3VL9800-3JF41		1	1 unit	1CC	0.100
	3VL9600-3JJ01		1	1 unit	1CC	0.100		--					
	--							3VL9800-3JJ01		1	1 unit	1CC	0.100
	3VL9600-3JJ11		1	1 unit	1CC	0.100		3VL9800-3JJ11		1	1 unit	1CC	0.100
	3VL9600-3JJ21		1	1 unit	1CC	0.100		--					
	--							3VL9800-3JJ21		1	1 unit	1CC	0.100
	3VL9600-3JF81		1	1 unit	1CC	0.010		3VL9800-3JF81		1	1 unit	1CC	0.010
	--							--					
	--							--					
	--							--					
	--							--					

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

2

Version	DT	For VL150X UL (CG frame) to VL250 UL (FG frame)	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.										
		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Price per PU			kg										
<b>Operating mechanisms</b>																
 NSE0_00716	<b>3-pole</b> <b>Motorized operating mechanism with spring energy store<sup>1)</sup> (UL file: E69455)</b> Degree of protection IP30, with locking device for 3 padlocks, synchronizable															
	<table border="1"> <thead> <tr> <th>50/60 Hz V AC</th> <th>V DC</th> </tr> </thead> <tbody> <tr> <td>--</td> <td>24</td> </tr> <tr> <td>42 ... 48</td> <td>42 ... 48</td> </tr> <tr> <td>60</td> <td>60</td> </tr> <tr> <td>110 ... 127</td> <td>110 ... 127</td> </tr> <tr> <td>220 ... 250</td> <td>220 ... 250</td> </tr> </tbody> </table>	50/60 Hz V AC	V DC	--	24	42 ... 48	42 ... 48	60	60	110 ... 127	110 ... 127	220 ... 250	220 ... 250			
50/60 Hz V AC	V DC															
--	24															
42 ... 48	42 ... 48															
60	60															
110 ... 127	110 ... 127															
220 ... 250	220 ... 250															
3VL9.00-3M.01		<b>3VL9300-3MJ01</b> <b>3VL9300-3ML01</b> <b>3VL9300-3MS01</b> <b>3VL9300-3MN01</b> <b>3VL9300-3MQ01</b>		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1CC 1CC 1CC 1CC 1CC	2.797 2.777 2.140 2.777 2.735									
<b>Toggle lever extension</b>																
		--														
 NSE0_01860	<b>Max Flex operating mechanism, complete including switching mechanism, Bowden wire, red/black knob, NEMA 1, 3R, 12 plastic</b> Bowden wire, 36 inch (0.9 m) Bowden wire, 48 inch (1.2 m)															
	3VL9.00-3JM01		<b>3VL9300-3JM01</b> --	1	1 unit	1CC	0.800									
<b>Knob for Max Flex operating mechanism</b>																
		Red/black knob <sup>2)</sup>														
		NEMA 1, 3R, 12 plastic	<b>3VL9600-3JP01</b>	1	1 unit	1CC	0.813									
		NEMA 1, 3R, 12 steel – epoxy sheathed	<b>3VL9600-3JP21</b>	1	1 unit	1CC	0.811									
		NEMA 4, 4X chrome-plated steel	<b>3VL9600-3JP41</b>	1	1 unit	1CC	1.580									
		Gray knob <sup>2)</sup>														
		NEMA 1, 3R, 12 plastic	<b>3VL9600-3JP11</b>	1	1 unit	1CC	0.100									
		Black knob <sup>2)</sup>														
		NEMA 1, 3R, 12 steel – epoxy sheathed	<b>3VL9600-3JP61</b>	1	1 unit	1CC	1.559									
<b>Switching mechanism for Max Flex operating mechanism</b>																
			<b>3VL9300-3JN01</b>	1	1 unit	1CC	4.536									
<b>Bowden wire for Max Flex operating mechanism</b>																
		36 inch (0.9 m)	<b>3VL9300-3JQ31</b>	1	1 unit	1CC	0.335									
		48 inch (1.2 m)	<b>3VL9300-3JQ41</b>	1	1 unit	1CC	0.383									
		60 inch (1.5 m)	<b>3VL9300-3JQ61</b>	1	1 unit	1CC	0.475									
		72 inch (1.8 m)	<b>3VL9300-3JQ71</b>	1	1 unit	1CC	0.505									
		84 inch (2.1 m)	<b>3VL9300-3JQ81</b>	1	1 unit	1CC	0.100									
		96 inch (2.4 m)	<b>3VL9300-3JQ21</b>	1	1 unit	1CC	0.584									
		120 inch (3.0 m)	<b>3VL9300-3JQ01</b>	1	1 unit	1CC	0.100									
		144 inch (3.6 m)	<b>3VL9300-3JQ11</b>	1	1 unit	1CC	0.729									
<b>Screw set</b>																
		For attaching the Max Flex operating mechanism incl. circuit breaker to an 8US busbar adapter (60 mm busbar system).														
		• 1 set = 3 screws size M4 x 100 mm	<b>3VL9300-8SE20</b>	1	1 unit	1CC	0.042									
		• 1 set = 2 screws size M6 x 100 mm and 2 special screws with threaded head	--													
<b>Leading auxiliary switch for Max Flex operating mechanism</b>																
		• 1 changeover contact with 1.5 m long cables	<b>3VL9300-2AP11</b>	1	1 unit	1CC	0.099									
		• 2 changeover contacts with 1.5 m long cables	<b>3VL9300-2AP21</b>	1	1 unit	1CC	0.154									

<sup>1)</sup> For safety lock as an assembly kit for retrofitting see pages 2/263 to 2/267.

<sup>2)</sup> The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

## Accessories and spare parts

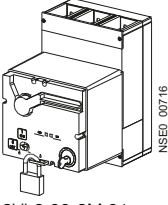
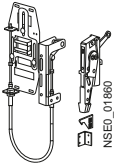
DT	For VL400 UL (JG frame) to VL400X UL (LG frame)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg	DT	For VL800 UL (MG frame)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>						Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>				
	Price per PU						Price per PU				
	3VL9400-3MJ01	1	1 unit	1CC	4.550		3VL9600-3MJ01	1	1 unit	1CC	5.603
	3VL9400-3ML01	1	1 unit	1CC			3VL9600-3ML01	1	1 unit	1CC	
	3VL9400-3MS01	1	1 unit	1CC			3VL9600-3MS01	1	1 unit	1CC	
	3VL9400-3MN01	1	1 unit	1CC	4.651		3VL9600-3MN01	1	1 unit	1CC	5.656
	3VL9400-3MQ01	1	1 unit	1CC	4.592		3VL9600-3MQ01	1	1 unit	1CC	5.800
	3VL9400-3HN01	1	1 unit	1CC	0.024		3VL9600-3HN01	1	1 unit	1CC	0.026
	--						--				
	3VL9400-3JM01	1	1 unit	1CC	2.051		3VL9600-3JM01	1	1 unit	1CC	2.097
	3VL9600-3JP01	1	1 unit	1CC	0.813		3VL9600-3JP01	1	1 unit	1CC	0.813
	3VL9600-3JP21	1	1 unit	1CC	0.811		3VL9600-3JP21	1	1 unit	1CC	0.811
	3VL9600-3JP41	1	1 unit	1CC	1.580		3VL9600-3JP41	1	1 unit	1CC	1.580
	3VL9600-3JP11	1	1 unit	1CC	0.100		3VL9600-3JP11	1	1 unit	1CC	0.100
	3VL9600-3JP61	1	1 unit	1CC	1.559		3VL9600-3JP61	1	1 unit	1CC	1.559
	3VL9400-3JN01	1	1 unit	1CC	0.974		3VL9600-3JN01	1	1 unit	1CC	0.932
	3VL9600-3JQ31	1	1 unit	1CC	4.536		3VL9600-3JQ31	1	1 unit	1CC	4.536
	3VL9600-3JQ41	1	1 unit	1CC	0.370		3VL9600-3JQ41	1	1 unit	1CC	0.370
	3VL9600-3JQ61	1	1 unit	1CC	0.450		3VL9600-3JQ61	1	1 unit	1CC	0.450
	3VL9600-3JQ71	1	1 unit	1CC	0.518		3VL9600-3JQ71	1	1 unit	1CC	0.518
	3VL9600-3JQ81	1	1 unit	1CC	0.550		3VL9600-3JQ81	1	1 unit	1CC	0.550
	3VL9600-3JQ21	1	1 unit	1CC	0.100		3VL9600-3JQ21	1	1 unit	1CC	0.100
	3VL9600-3JQ01	1	1 unit	1CC	0.100		3VL9600-3JQ01	1	1 unit	1CC	0.100
	3VL9600-3JQ11	1	1 unit	1CC	0.100		3VL9600-3JQ11	1	1 unit	1CC	0.100
	--						--				
	3VL9460-8SE20	1	1 unit	1CC	0.123		--				
	3VL9400-2AP11	1	1 unit	1CC	0.075		3VL9800-2AP11	1	1 unit	1CC	0.010
	3VL9400-2AP21	1	1 unit	1CC	0.124		3VL9800-2AP21	1	1 unit	1CC	0.010

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

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Version	DT	For VL1200 UL (NG frame) to VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Price per PU			kg	
<b>Operating mechanisms</b>							
 <p>3VL9.00-3M.01</p>	<b>3-pole</b> <b>Motorized operating mechanism<sup>1)</sup></b> <b>(UL file: E69455)</b> Degree of protection IP30, with locking device for 3 padlocks, not synchronizable						
	50/60 Hz V AC	V DC					
	--	24	3VL9800-3MJ01	1	1 unit	1CC	7.847
	42 ... 48	42 ... 48	3VL9800-3ML01	1	1 unit	1CC	
	60	60	3VL9800-3MS01	1	1 unit	1CC	
	110 ... 127	110 ... 127	3VL9800-3MN01	1	1 unit	1CC	7.797
220 ... 250	220 ... 250	3VL9800-3MQ01	1	1 unit	1CC	7.770	
		<b>Toggle lever extension</b>	3VL9800-3HN01	1	1 unit	1CC	0.241
 <p>3VL9.00-3JM01</p>	<b>Max Flex operating mechanism, complete including switching mechanism, Bowden wire, red/black knob, NEMA 1, 3R, 12 steel – epoxy sheathed</b> Bowden wire, 36 inch (0.9 m) Bowden wire, 48 inch (1.2 m)		--				
			3VL9800-3JM01	1	1 unit	1CC	4.340
	<b>Knob for Max Flex operating mechanism</b> Red/black knob <sup>2)</sup> NEMA 1, 3R, 12 plastic NEMA 1, 3R, 12 steel – epoxy sheathed NEMA 4, 4X chrome-plated steel Gray knob <sup>2)</sup> NEMA 1, 3R, 12 plastic Black knob <sup>2)</sup> NEMA 1, 3R, 12 steel – epoxy sheathed		--				
		3VL9800-3JP01	1	1 unit	1CC	0.100	
		3VL9800-3JP41	1	1 unit	1CC	0.100	
		3VL9800-3JP11	1	1 unit	1CC	0.100	
	<b>Switching mechanism for Max Flex operating mechanism</b>		3VL9800-3JN01	1	1 unit	1CC	0.100
	<b>Bowden wire for Max Flex operating mechanism</b> 36 inch (0.9 m) 48 inch (1.2 m) 60 inch (1.5 m) 72 inch (1.8 m) 84 inch (2.1 m) 96 inch (2.4 m) 120 inch (3.0 m) 144 inch (3.6 m)		--				
		3VL9800-3JQ41	1	1 unit	1CC	0.100	
		3VL9800-3JQ61	1	1 unit	1CC	0.100	
		3VL9800-3JQ71	1	1 unit	1CC	0.100	
		3VL9800-3JQ81	1	1 unit	1CC	0.100	
		3VL9800-3JQ21	1	1 unit	1CC	0.100	
		3VL9800-3JQ01	1	1 unit	1CC	0.100	
		3VL9800-3JQ11	1	1 unit	1CC	0.100	
	<b>Leading auxiliary switch for Max Flex operating mechanism</b> • 1 changeover contact with 1.5 m long cables • 2 changeover contacts with 1.5 m long cables		3VL9300-2AP11	1	1 unit	1CC	0.099
		3VL9300-2AP21	1	1 unit	1CC	0.154	

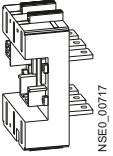
<sup>1)</sup> For safety lock as an assembly kit for retrofitting see pages 2/263 to 2/267.

<sup>2)</sup> The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

**Accessories and spare parts****2**

Version	DT	For VL150X UL (CG frame)	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Price per PU			kg	
<b>Plug-in versions/withdrawable versions (UL file: E69455)</b>							
 <p>3VL9.00-4PA31</p>		<b>3-pole</b>					
		<b>Plug-in base assembly kits</b> Complete with base plate, base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin					
		<b>Rear terminals</b> 3-pole	<b>3VL9100-4PA31</b>	1	1 unit	1CC	2.710
		<b>Front-accessible connections</b> 3-pole	<b>3VL9100-4PC31</b>	1	1 unit	1CC	2.440
		<b>Blade contacts</b> As replacement for converting fixed-mounted into plug-in/withdrawable molded case circuit breakers, including trip pin 1 set = 6 units      3-pole	<b>3VL9100-4PS31</b>	1	1 unit	1CC	0.332
	<b>Trip pins and springs</b> As replacement for plug-in molded case circuit breaker	<b>3VL9100-4PF01</b>	1	1 unit	1CC	0.013	
	<b>Auxiliary circuit plug connections for plug-in bases<sup>1)</sup></b> Accessory connections for plug-in molded case circuit breakers (factory-wired connectors) and for plug-in bases (coupling with screw terminal) 8 terminals <sup>1)</sup>	<b>3VL9300-4PJ01</b>	1	1 unit	1CC	0.221	
	<b>Position signaling switches</b> (Connected/disconnected position) For plug-in base, 1 CO, max. 2 signaling switches possible	<b>3VL9000-4WL01</b>	1	1 unit	1CC	0.040	

<sup>1)</sup> It is recommended to use a maximum of 2 auxiliary circuit plug-in systems per molded case circuit breaker (16 terminals).



**Molded Case Circuit Breakers**





3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

**Accessories and spare parts**

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DT	For VL250 UL (FG frame)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	DT	For VL400 UL (JG frame)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>						Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>				
	Price per PU				kg		Price per PU				kg
	<b>3VL9300-4PA31</b>	1	1 unit	1CC	2.920		<b>3VL9400-4PA31</b>	1	1 unit	1CC	6.942
	<b>3VL9300-4PE31</b>	1	1 unit	1CC	0.391		--				
	<b>3VL9300-4PC31</b>	1	1 unit	1CC	2.672		<b>3VL9400-4PC31</b>	1	1 unit	1CC	42.000
	<b>3VL9300-4WA31</b>	1	1 unit	1CC	5.089		<b>3VL9400-4WA31</b>	1	1 unit	1CC	12.650
	<b>3VL9300-4WC31</b>	1	1 unit	1CC	4.940		<b>3VL9400-4WC31</b>	1	1 unit	1CC	6.500
	<b>3VL9300-4PS31</b>	1	1 unit	1CC	0.342		<b>3VL9400-4PS31</b>	1	1 unit	1CC	0.720
	<b>3VL9300-4PF01</b>	1	1 unit	1CC	0.013		<b>3VL9400-4PF01</b>	1	1 unit	1CC	0.015
	<b>1)</b> <b>3VL9300-4PJ01</b>	1	1 unit	1CC	0.221		<b>2)</b> <b>3VL9400-4PJ01</b>	1	1 unit	1CC	0.231
	<b>3VL9000-4WL01</b>	1	1 unit	1CC	0.040		<b>3VL9000-4WL01</b>	1	1 unit	1CC	0.040



Version	DT	For VL150X UL (CG frame) Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg	
<b>Connection parts for fixed-mounted molded case circuit breakers</b>								
<b>3-pole</b>								
<b>Rear terminals</b>								
  NSE0_00723 3VL9.00-4RA01, 3VL9.00-4RB01	Short connection (1 unit)				1	1 unit	1CC	0.158
	Long connection (1 unit)				1	1 unit	1CC	0.261
	Terminal kit (2 short + 1 long) 3-pole				1	1 unit	1CC	0.552
  NSE0_00724 3VL9.00-4RK01, 3VL9.00-4RL01	Short flat connection (1 unit)				1	1 unit	1CC	0.126
	Long flat connection (1 unit)				1	1 unit	1CC	0.222
	Flat connector kit (2 short + 1 long) 3-pole				1	1 unit	1CC	0.462
<b>Steel box terminal with auxiliary conductor connection</b>								
Terminal with auxiliary conductor connection up to 0.5 A					1	1 unit	1CC	0.269
<b>Box terminals</b>								
Connection for flexible flat copper busbar or cable					1	1 unit	1CC	0.100
1 set = 3 units								
<b>Circular conductor terminals<sup>1)</sup></b>								
Only for cables (Al or Cu) Aluminum terminal (tinned)					1	1 unit	1CC	0.093
1 set = 3 units								
<b>Terminals with screw connection</b>								
With insulator (for rear) for use with busbars and cable lugs					1	1 unit	1CC	0.063
1 set = 3 units		Metric thread						
<b>Connection covers (terminal covers) for circuit breakers<sup>2)</sup></b>								
Degree of protection IP30 for main connections								
1 set = 2 units								
Extended		3-pole			1	1 unit	1CC	0.306
Standard		3-pole			1	1 unit	1CC	0.063
<b>Connection covers (terminal covers) for circuit breakers</b>								
Degree of protection IP2X for main connections								
1 set = 1 unit (consisting of top part and bottom part)					1	1 unit	1CC	0.163
3-pole								
<b>Phase barriers for molded case circuit breakers, fixed-mounted, plug-in or withdrawable versions</b>								
1 set = 2 units					1	1 unit	1CC	0.029

**Note:**

Only rear terminals with different lengths may be fitted next to one another (e.g. short-long-short or long-short-long).

<sup>1)</sup> Circular conductor terminals for VL150X UL (CG frame) suitable for 60 A to 150 A.

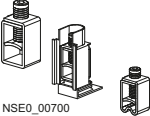
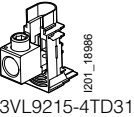
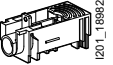


<sup>2)</sup> UL-listed for use with plug-in and withdrawable versions. A system-specific additional test is required for use with circuit breakers.

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

2

Version	DT	For VL150 UL (DG frame) Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
<b>Connection parts for fixed-mounted molded case circuit breakers</b>							
<b>3-pole</b>							
<b>Front connecting bars</b>							
		Terminal set with cover for mounting the circuit breaker on busbars 1 set = 3 units		<b>3VL9200-4EC31</b>	1	1 unit	1CC 1.356
<b>Rear terminals</b>							
		Short connection (1 unit)		<b>3VL9200-4RA01</b>	1	1 unit	1CC 0.165
		Long connection (1 unit)		<b>3VL9200-4RB01</b>	1	1 unit	1CC 0.271
		Terminal kit (2 short + 1 long) 3-pole		<b>3VL9200-4RC31</b>	1	1 unit	1CC 0.566
		Short flat connection (1 unit)		<b>3VL9200-4RK01</b>	1	1 unit	1CC 0.132
		Long flat connection (1 unit)		<b>3VL9200-4RL01</b>	1	1 unit	1CC 0.233
		Flat connector kit (2 short + 1 long) 3-pole		<b>3VL9200-4RM31</b>	1	1 unit	1CC 0.460
		Flat connecting bar (1 unit)		--			
		Flat connecting bars 1 set = 3 units, 3-pole		--			
 NSE0_00700 3VL9...-4TC.1		<b>Box terminal</b> Connection for flexible flat copper busbar or cable 1 set = 3 units		<b>3VL9220-4TC31</b>	1	1 unit	1CC 0.115
 I201_18986 3VL9215-4TD31		<b>Circular conductor terminal with terminal covers for cable (only for Al or Cu cables)</b> Terminal with auxiliary conductor connection up to 0.5 A 1 set = 3 units		<b>3VL9215-4TD31</b>	1	1 unit	1CC 0.356
 I201_18982 3VL9220-4TN31		<b>Steel box terminal with auxiliary conductor connection</b> Terminal with auxiliary conductor connection up to 0.5 A		<b>3VL9220-4TN31</b>	1	1 unit	1CC 0.277
 3VL9...-4TD.1		<b>Circular conductor terminals<sup>1)</sup></b> Only for cables (Al or Cu) <u>Aluminum terminal (tinned)</u> 1 set = 3 units		<b>3VL9230-4TD31</b>	1	1 unit	1CC 0.121
 NSE0_01542 3VL9...-4TF.1		<b>Multiple feed-in terminals</b> Only for cables (Al or Cu) Double <u>Aluminum terminal (tinned)</u> 1 set = 3 units		--			
		<b>Multiple feed-in terminal with terminal cover</b> Terminal with auxiliary conductor connection up to 0.5 A 1 set = 3 units Double		--			

#### Note:

Only rear terminals with different lengths may be fitted next to one another (e.g. short-long-short or long-short-long).

<sup>1)</sup> Circular conductor terminals for VL150 UL suitable for 60 to 150 A.

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

**Accessories and spare parts**

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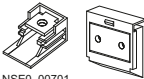
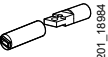
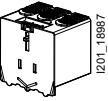

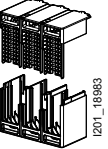

DT	For VL250 UL (FG frame)	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.	DT	For VL400 UL (JG frame)	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.
	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>						Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>				
	Price per PU				kg		Price per PU				kg
	<b>3VL9300-4EC31</b>	1	1 unit	1CC	0.500		<b>3VL9400-4EC31</b>	1	1 unit	1CC	1.313
	<b>3VL9300-4RA01</b>	1	1 unit	1CC	0.164		<b>3VL9400-4RA01</b>	1	1 unit	1CC	0.428
	<b>3VL9300-4RB01</b>	1	1 unit	1CC	0.264		<b>3VL9400-4RB01</b>	1	1 unit	1CC	0.712
	<b>3VL9300-4RC31</b>	1	1 unit	1CC	0.555		<b>3VL9400-4RC31</b>	1	1 unit	1CC	1.203
	<b>3VL9300-4RK01</b>	1	1 unit	1CC	0.129		<b>3VL9400-4RK01</b>	1	1 unit	1CC	0.389
	<b>3VL9300-4RL01</b>	1	1 unit	1CC	0.224		<b>3VL9400-4RL01</b>	1	1 unit	1CC	0.700
	<b>3VL9300-4RM31</b>	1	1 unit	1CC	0.451		<b>3VL9400-4RM31</b>	1	1 unit	1CC	1.458
	--						--				
	--						--				
	<b>3VL9335-4TC31</b>	1	1 unit	1CC	0.204		<b>3VL9460-4TC31</b>	1	1 unit	1CC	0.467
	--						--				
	<b>3VL9335-4TN31</b>	1	1 unit	1CC	0.374		<b>3VL9460-4TN31</b>	1	1 unit	1CC	0.795
	<b>3VL9335-4TD31</b>	1	1 unit	1CC	0.150		<b>3VL9475-4TD31</b>	1	1 unit	1CC	0.353
	--						<b>3VL9425-4TF31</b>	1	1 unit	1CC	0.495
	--						<b>3VL9460-4TF31</b>	1	1 unit	1CC	0.899

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

2

Version	DT	For VL150 UL (DG frame) Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
<b>Connection parts for fixed-mounted molded case circuit breakers</b>							
<b>3-pole</b>							
<b>Connection with screw-type terminals</b>							
With insulator (for rear) for use with busbars and cable lugs							
 NSE0_00701 3VL9.00-4TA.1	1 set = 3 units	Metric thread	<b>3VL9200-4TA31</b>	1	1 unit	1CC	0.075
	1 set = 3 units	Inch thread	<b>3VL9200-4TB31</b>	1	1 unit	1CC	0.068
 201_18984 3VL9220-4TM31	1 set = 3 units		<b>3VL9220-4TM31</b>	1	1 unit	1CC	0.291
<b>Connection covers (terminal covers) for circuit breakers<sup>1)</sup></b>							
Degree of protection IP30 for main connections							
1 set = 2 units							
 1201_18987 3VL9.00-3CA.1	Extended	3-pole	<b>3VL9300-8CA31</b>	1	1 unit	1CC	0.306
	Standard	3-pole	<b>3VL9300-8CB31</b>	1	1 unit	1CC	0.063
 NSE0_00730 3VL9.00-3CB.1							
<b>Connection covers (terminal covers) for circuit breakers</b>							
Degree of protection IP2X for main connections							
1 set = 1 unit (consisting of top part and bottom part)							
 201_18983 3VL9300-8CD31	3-pole		<b>3VL9300-8CD31</b>	1	1 unit	1CC	0.163
 NSE0_00731 3VL9.00-8CE01			<b>3VL9300-8CE01</b>	1	1 unit	1CC	0.029

<sup>1)</sup> UL-listed for use with plug-in and withdrawable versions. A system-specific additional test is required for use with circuit breakers.

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

**Accessories and spare parts**

2

DT	For VL250 UL (FG frame)	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.	DT	For VL400 UL (JG frame)	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>						Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>				
	Price per PU				kg		Price per PU				kg
	3VL9300-4TA31	1	1 unit	1CC	0.102		3VL9400-4TA31	1	1 unit	1CC	0.116
	3VL9300-4TB31	1	1 unit	1CC	0.095		--				
	3VL9335-4TM31	1	1 unit	1CC	0.352		3VL9460-4TM31	1	1 unit	1CC	0.625
	3VL9300-8CA31	1	1 unit	1CC	0.306		3VL9400-8CA31	1	1 unit	1CC	0.615
	3VL9300-8CB31	1	1 unit	1CC	0.063		3VL9400-8CB31	1	1 unit	1CC	0.150
	3VL9300-8CD31	1	1 unit	1CC	0.163		3VL9400-8CD31	1	1 unit	1CC	0.308
	3VL9300-8CE01	1	1 unit	1CC	0.029		3VL9600-8CE01	1	1 unit	1CC	0.057

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

2

Version	DT	For VL400X UL (LG frame) Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Connection parts for fixed-mounted molded case circuit breakers</b>							
<b>3-pole</b>							
<b>Front connecting bars</b>							
Terminal set with cover for mounting the circuit breaker on busbars 1 set = 3 units		<b>3VL9460-4EC31</b>		1	1 unit	1CC	2.145
<b>Rear terminals</b>							
Short connection (1 unit)		--					
Long connection (1 unit)		--					
Terminal kit (2 short + 1 long) 3-pole		--					
Short flat connection (1 unit)		--					
Long flat connection (1 unit)		<b>3VL9460-4RP01</b>		1	1 unit	1CC	0.810
Flat connector kit (2 short + 1 long) 3-pole		--					
Flat connecting bar (1 unit)		<b>3VL9460-4RG01</b>		1	1 unit	1CC	0.377
Flat connecting bars 1 set = 3 units, 3-pole		<b>3VL9460-4RH31</b>		1	1 unit	1CC	1.272
<b>Box terminal</b>							
Connection for flexible flat copper busbar or cable 1 set = 3 units		--					
<b>Circular conductor terminals</b>							
Only for cables (Al or Cu) Aluminum terminal (tinned)							
1 set = 3 units		<b>3VL9475-4TD31</b>		1	1 unit	1CC	0.353
<b>Multiple feed-in terminals</b>							
Only for cables (Al or Cu) Aluminum terminal (tinned)							
1 set = 3 units		--					
Double		<b>3VL9460-4TX31</b>		1	1 unit	1CC	0.822
• Terminal on feeder side <sup>1)</sup>		<b>3VL9460-4TY31</b>		1	1 unit	1CC	0.820
• Terminal on outgoing side <sup>1)</sup>		--					
3 times		--					
4 times		--					
<b>Connection with screw-type terminals</b>							
With insulator (for rear) for use with busbars and cable lugs							
1 set = 3 units		Metric thread	<b>3VL9460-4TA31</b>	1	1 unit	1CC	0.171
1 set = 3 units		Inch thread	<b>3VL9460-4TB31</b>	1	1 unit	1CC	0.143
<b>Connection covers (terminal covers) for circuit breakers<sup>2)</sup></b>							
Degree of protection IP30 for main connections 1 set = 2 units							
Extended		3-pole	<b>3VL9400-8CA31</b>	1	1 unit	1CC	0.615
Standard		3-pole	<b>3VL9400-8CB31</b>	1	1 unit	1CC	0.150
<b>Phase barriers for molded case circuit breakers, fixed-mounted, plug-in or withdrawable versions<sup>3)</sup></b>							
1 set = 2 units		<b>3VL9600-8CE01</b>		1	1 unit	1CC	0.057

#### Note:

Only rear terminals with different lengths may be fitted next to one another (e.g. short-long-short or long-short-long).

<sup>1)</sup> Extended terminal cover included in scope of supply.

<sup>2)</sup> UL-listed for use with plug-in and withdrawable versions. A system-specific additional test is required for use with circuit breakers.

<sup>3)</sup> Plug-in versions: not for VL1200 UL (NG frame); withdrawable version: not for VL800 UL (MG frame) and VL1200 UL (NG frame).

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

**Accessories and spare parts**

DT	For VL800 UL (MG frame)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL1200 UL (NG frame)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>							Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>					
	3VL9600-4EC31		1	1 unit	1CC	2.873		3VL9800-4EF01		1	1 unit	1CC	0.020
	--							--					
	--							--					
	--							--					
	3VL9600-4RP01		1	1 unit	1CC	1.653		--					
	--							--					
	3VL9600-4RG01		1	1 unit	1CC	1.305		3VL9700-4RG01		1	1 unit	1CC	1.708
	3VL9600-4RH31		1	1 unit	1CC	4.080		3VL9700-4RH31		1	1 unit	1CC	4.970
	--							--					
	--							--					
	3VL9675-4TF31		1	1 unit	1CC	1.228		--					
	--							--					
	3VL9650-4TG31		1	1 unit	1CC	1.130		3VL9775-4TG31		1	1 unit	1CC	3.414
	--							3VL9750-4TH31		1	1 unit	1CC	2.562
	3VL9600-4TA31		1	1 unit	1CC	0.450		3VL9800-4TA31		1	1 unit	1CC	0.362
	3VL9600-4TB31		1	1 unit	1CC	0.305		3VL9800-4TB31		1	1 unit	1CC	0.356
	3VL9600-8CA31		1	1 unit	1CC	0.910		3VL9800-8CA31		1	1 unit	1CC	1.268
	3VL9600-8CB31		1	1 unit	1CC	0.223		3VL9800-8CB31		1	1 unit	1CC	0.370
	3VL9600-8CE01		1	1 unit	1CC	0.057		3VL9800-8CE01		1	1 unit	1CC	0.150

## Molded Case Circuit Breakers

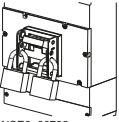
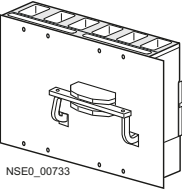
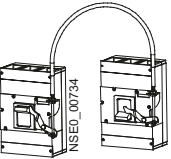
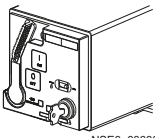
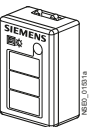
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

2

Version	DT	For VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU			kg
<b>Connection parts for fixed-mounted molded case circuit breakers</b>						
<b>3-pole</b>						
<b>Front connecting bars</b>						
Terminal set with cover for mounting the circuit breaker on busbars 1 set = 3 units • Incoming side, mounting from the top • Incoming side, mounting from the bottom		<b>3VL9800-4EF01</b>		1	1 unit	1CC 0.020
<b>Rear terminals</b>						
Short connection (1 unit)		--				
Long connection (1 unit)		--				
Terminal kit (2 short + 1 long) 3-pole		--				
Short flat connection (1 unit)		--				
Long flat connection (1 unit)		--				
Flat connector kit (2 short + 1 long) 3-pole		--				
Flat connecting bar (1 unit)		--				
Flat connecting bars 1 set = 3 units, 3-pole		--				
<b>Box terminal</b>						
Connection for flexible flat copper busbar or cable 1 set = 3 units		--				
<b>Circular conductor terminals</b>						
Only for cables (Al or Cu) Aluminum terminal (tinned)		--				
1 set = 3 units		--				
<b>Multiple feed-in terminals</b>						
Only for cables (Al or Cu) Aluminum terminal (tinned)						
4-fold (for installation with mounting base)		<b>3VL9875-4TH01</b>		1	1 unit	1CC 1.223
1 units						
<b>Terminals with screw connection</b>						
With insulator (for rear) for use with busbars and cable lugs						
1 set = 3 units		Metric thread	<b>3VL9800-4TA31</b>	1	1 unit	1CC 0.362
1 set = 3 units		Inch thread	<b>3VL9800-4TB31</b>	1	1 unit	1CC 0.356
<b>Connection covers (terminal covers) for circuit breakers<sup>1)</sup></b>						
Degree of protection IP30 for main connections 1 set = 2 units						
Extended		3-pole	<b>3VL9800-8CA31</b>	1	1 unit	1CC 1.268
Standard		3-pole	<b>3VL9800-8CB31</b>	1	1 unit	1CC 0.370
<b>Phase barriers for molded case circuit breakers, fixed-mounted</b>						
1 set = 2 units		<b>3VL9800-8CE01</b>		1	1 unit	1CC 0.150
<b>Mounting base</b>						
Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base						
Front-accessible connections		<b>3VL9800-4TU31</b>		1	1 unit	1CC 24.830
Rear terminals		<b>3VL9800-4TV31</b>		1	1 unit	1CC 23.396

<sup>1)</sup> Not UL-listed.

Version	DT	For VL150X UL (CG frame) and VL150 UL (DG frame)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU			
<b>Interlocks</b>						
 NSE0_00732 3VL9.00-3HL01		<b>3-pole Locking devices for toggle levers</b> For locking the molded case circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)	<b>3VL9300-3HL01</b>	1	1 unit	1CC 0.074
 NSE0_00733 3VL9.00-8L.01		<b>Rear interlocking modules</b> For the mechanical interlocking of two adjacent molded case circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply) Fixed-mounted molded case circuit breakers	<b>3VL9300-8LC01</b>	1	1 unit	1CC 0.473
 NSE0_00734 3VL9.00-8LA01		<b>Interlocking modules for Bowden wire interlocking<sup>1)</sup></b> For the mechanical interlocking of two molded case circuit breakers. Interlocking module for one molded case circuit breaker	<b>3VL9300-8LA01</b>	1	1 unit	1CC 0.194
		<b>Note</b> Combinations with next size up/down possible (see Article No.)				
		<b>Bowden wires</b> for Bowden wire interlocking <sup>1)</sup> • Wire length 0.5 m • Wire length 1.0 m • Wire length 1.5 m	<b>3VL9000-8LH11</b> <b>3VL9000-8LH21</b> <b>3VL9000-8LH31</b>	1 1 1	1 unit 1 unit 1 unit	1CC 0.330 1CC 0.400 1CC 0.533
		<b>Sets of fixing screws (metric thread)</b> Including the screws, washers and nuts required to secure a molded case circuit breaker to a prepared surface Set with 4 screws	<b>3VL9300-8SA40</b>	1	1 unit	1CC 0.052
 NSE0_00680 3VL9.00-8L.01		<b>Safety lock assembly kits</b> Key can be removed with the molded case circuit breaker in the "OFF" position <u>For front-operated rotary operating mechanisms</u> Ronis lock type <u>For motorized operating mechanism with stored energy mechanism</u> Filli Giussani lock type	<b>3VL9715-8HA01</b> <b>3VL9321-8HA01</b>	1 1	1 unit 1 unit	1CC 0.271 1CC 0.044
		<b>Transparent covers for releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) • Electronic Trip Unit • Thermal-magnetic <sup>2)</sup>	<b>3VL9700-8BL01</b> <b>3VL9300-8BM01</b>	1 1	1 unit 1 unit	1CC 0.013 1CC 0.052
 3VL9000-8AP01		<b>Battery power supply for activating/parameterizing/tripping the electronic trip units</b> (two 9 V blocks are required in addition)	<b>3VL9000-8AP01</b>	1	1 unit	1CC 0.190

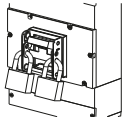
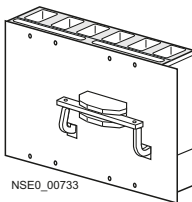
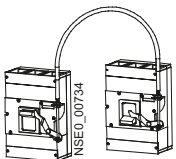
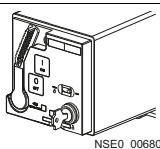
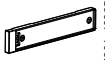

<sup>1)</sup> Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism!

<sup>2)</sup> Also suitable for VL150X UL (CG frame).

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

Version	DT	For VL250 UL (FG frame) Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
<b>Interlocks</b>							
 <p>NSE0_00732 3VL9.00-3HL01</p>		<p><b>3-pole</b> <b>Locking devices for toggle levers</b> For locking the molded case circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)</p>					<p>1 1 unit 1CC 0.074</p>
 <p>NSE0_00733 3VL9.00-8L.01</p>		<p><b>Rear interlocking modules</b> For the mechanical interlocking of two adjacent molded case circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply) Fixed-mounted molded case circuit breakers</p>					<p>1 1 unit 1CC 0.473</p>
 <p>NSE0_00734 3VL9.00-8LA01</p>		<p><b>Interlocking modules for Bowden wire interlocking<sup>1)</sup></b> For the mechanical interlocking of two molded case circuit breakers. Interlocking module for one molded case circuit breaker</p> <p>Note Combinations with next size up/down possible (see Article No.)</p>					<p>1 1 unit 1CC 0.194</p>
		<p><b>Bowden wires</b> for Bowden wire interlocking<sup>1)</sup></p> <ul style="list-style-type: none"> <li>• Wire length 0.5 m</li> <li>• Wire length 1.0 m</li> <li>• Wire length 1.5 m</li> </ul>					<p>3VL9000-8LH11 1 1 unit 1CC 0.330 3VL9000-8LH21 1 1 unit 1CC 0.400 3VL9000-8LH31 1 1 unit 1CC 0.533</p>
 <p>NSE0_00680 3VL9...-8HA01</p>		<p><b>Safety lock assembly kits</b> Key can be removed with the molded case circuit breaker in the "OFF" position <u>For motorized operating mechanism with stored energy mechanism</u> Lock types</p> <ul style="list-style-type: none"> <li>• Ronis</li> <li>• Filli Giussani</li> </ul>					<p>3VL9321-8HA01 1 1 unit 1CC 0.044</p>
		<p><b>Sets of fixing screws (metric thread)</b> Including the screws, washers and nuts required to secure a molded case circuit breaker to a prepared surface Set with 4 screws</p>					<p>3VL9300-8SA40 1 1 unit 1CC 0.052</p>
 <p>1201_18985 3VL9...-8B.01</p>		<p><b>Transparent covers for releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)</p> <ul style="list-style-type: none"> <li>• For Electronic Trip Unit</li> <li>• For thermal-magnetic release</li> </ul>					<p>3VL9700-8BL01 1 1 unit 1CC 0.013 3VL9300-8BM01 1 1 unit 1CC 0.052</p>
 <p>3VL9000-8AP01</p>		<p><b>Battery power supply for activating/parameterizing/tripping the Electronic Trip Units</b> (two 9 V blocks are required in addition)</p>					<p>3VL9000-8AP01 1 1 unit 1CC 0.190</p>

<sup>1)</sup> Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism!

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

**Accessories and spare parts**

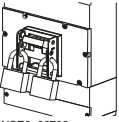
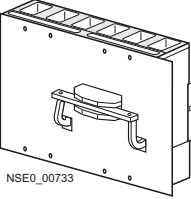
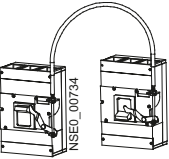
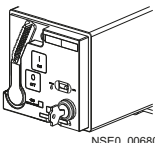

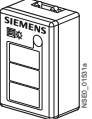
DT	For VL400 UL (JG frame)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	DT	For VL400X UL (LG frame)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>					kg		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>					kg
	3VL9400-3HL01		1	1 unit	1CC	0.160		3VL9400-3HL01		1	1 unit	1CC	0.160
	3VL9400-8LC01		1	1 unit	1CC	0.386		3VL9400-8LC01		1	1 unit	1CC	0.386
	3VL9400-8LA01		1	1 unit	1CC	0.235		3VL9400-8LA01		1	1 unit	1CC	0.235
	--		1	1 unit	1CC	0.400		--		1	1 unit	1CC	0.400
	3VL9000-8LH21		1	1 unit	1CC	0.533		3VL9000-8LH21		1	1 unit	1CC	0.533
	3VL9000-8LH31		1	1 unit	1CC	0.533		3VL9000-8LH31		1	1 unit	1CC	0.533
	3VL9715-8HA01		1	1 unit	1CC	0.271		3VL9715-8HA01		1	1 unit	1CC	0.271
	--							--					
	3VL9500-8SA40		1	1 unit	1CC	0.109		3VL9500-8SA40		1	1 unit	1CC	0.109
	3VL9700-8BL01		1	1 unit	1CC	0.013		3VL9700-8BL01		1	1 unit	1CC	0.013
	3VL9400-8BM01		1	1 unit	1CC	0.039		3VL9400-8BM01		1	1 unit	1CC	0.039
	3VL9000-8AP01		1	1 unit	1CC	0.190		3VL9000-8AP01		1	1 unit	1CC	0.190

2

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

Version	DT	For VL800 UL (MG frame) Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
<b>Interlocks</b>							
 NSE0_00732 3VL9.00-3HL01		<b>3-pole</b> <b>Locking devices for toggle levers</b> For locking the molded case circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)					
 NSE0_00733 3VL9.00-8L.01		<b>Rear interlocking modules</b> For the mechanical interlocking of two adjacent molded case circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply) Fixed-mounted molded case circuit breakers					
 NSE0_00734 3VL9.00-8LA01		<b>Interlocking modules for Bowden wire interlocking<sup>1)</sup></b> For the mechanical interlocking of two molded case circuit breakers. Interlocking module for one molded case circuit breaker <b>Note</b> Combinations with next size up/down possible (see Article No.)					
		<b>Bowden wires</b> for Bowden wire interlocking <sup>1)</sup> • Wire length 0.5 m • Wire length 1.0 m • Wire length 1.5 m					
 NSE0_00680 3VL9....-8HA01		<b>Safety lock assembly kits</b> Key can be removed with the molded case circuit breaker in the "OFF" position <u>For motorized operating mechanism with stored energy mechanism</u> Lock types • Ronis • Filli Giussani					
		<b>Sets of fixing screws (metric thread)</b> Including the screws, washers and nuts required to secure a molded case circuit breaker to a prepared surface Set with 4 screws					
 120_118885 3VL9...-8B.01		<b>Transparent covers for releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) • For Electronic Trip Unit • For thermal-magnetic release					
 3VL9000-8AP01		<b>Battery power supply for activating/parameterizing/tripping the Electronic Trip Units</b> (two 9 V blocks are required in addition)					

<sup>1)</sup> Two interlocking modules and one Bowden wire are required.  
Cannot be used in conjunction with motorized operating mechanism!

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

**Accessories and spare parts**

DT	For VL1200 UL (NG frame)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	DT	For VL1600 UL (PG frame)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>					kg		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>					kg
	3VL9800-3HL01		1	1 unit	1CC	0.250		3VL9800-3HL01		1	1 unit	1CC	0.250
	3VL9800-8LC01		1	1 unit	1CC	4.262		3VL9800-8LC01		1	1 unit	1CC	4.262
	3VL9800-8LA01		1	1 unit	1CC	0.298		3VL9800-8LA01		1	1 unit	1CC	0.298
	-- 3VL9000-8LH31		1	1 unit	1CC	0.533		-- 3VL9000-8LH31		1	1 unit	1CC	0.533
	3VL9715-8HA01 --		1	1 unit	1CC	0.271		3VL9715-8HA01 --		1	1 unit	1CC	0.271
	3VL9800-8SA40		1	1 unit	1CC	0.095		3VL9800-8SA40		1	1 unit	1CC	0.095
	3VL9700-8BL01 --		1	1 unit	1CC	0.013		3VL9700-8BL01 --		1	1 unit	1CC	0.013
	3VL9000-8AP01		1	1 unit	1CC	0.190		3VL9000-8AP01		1	1 unit	1CC	0.190

## Molded Case Circuit Breakers

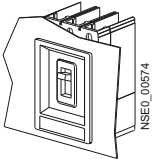
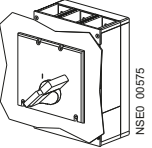
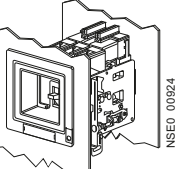
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

2

Version	DT	For VL150X UL (CG frame)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU			kg

#### Further accessories

3-pole Masking frames (cover frames) For door cutouts						
 <p>Masking frame A</p>	<b>A</b> <b>IP40</b>	Fixed-mounted or plug-in molded case circuit breaker	<b>3VL9300-8BC01</b>	1	1 unit	1CC 0.053
 <p>Masking frame B</p>	<b>B<sup>1)</sup></b> <b>IP40</b>	Fixed-mounted, plug-in or withdrawable molded case circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism	<b>3VL9300-8BG01</b>	1	1 unit	1CC 0.114
 <p>Masking frame C</p>	<b>C</b> <b>IP20</b>	Withdrawable molded case circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism)	--			

Version	DT	For VL800 UL (MG frame)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU			kg

#### Further accessories

3-pole Masking frames (cover frames) For door cutouts						
	<b>A</b> <b>IP40</b>	Fixed-mounted or plug-in molded case circuit breaker	<b>3VL9600-8BC01</b>	1	1 unit	1CC 0.074
	<b>B<sup>1)</sup></b> <b>IP40</b>	Fixed-mounted, plug-in or withdrawable molded case circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism	<b>3VL9600-8BG01</b>	1	1 unit	1CC 0.192
	<b>C</b> <b>IP20</b>	Withdrawable molded case circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism)	<b>3VL9600-8BH01</b>	1	1 unit	1CC 0.259

<sup>1)</sup> For withdrawable version IP20.

**Molded Case Circuit Breakers**

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

**Accessories and spare parts**

2

DT	For VL150 UL (DG frame) and VL250 UL (FG frame)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	DT	For VL400 UL (JG frame) and VL400X UL (LG frame)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					kg		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					kg

3VL9300-8BC01

1 1 unit 1CC 0.053

3VL9400-8BC01

1 1 unit 1CC 0.046

3VL9300-8BG01

1 1 unit 1CC 0.114

3VL9400-8BG01

1 1 unit 1CC 0.163

3VL9300-8BH01

1 1 unit 1CC 0.325

3VL9400-8BH01

1 1 unit 1CC 0.435

DT	For VL1200 UL (NG frame)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	DT	For VL1600 UL (PG frame)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					kg		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					kg

3VL9800-8BC01

1 1 unit 1CC 0.054

3VL9800-8BC01

1 1 unit 1CC 0.054

3VL9800-8BG01

1 1 unit 1CC 0.223

3VL9800-8BG01

1 1 unit 1CC 0.223

3VL9800-8BH01

1 1 unit 1CC 0.380

3VL9800-8BH01

1 1 unit 1CC 0.380

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### Accessories and spare parts

2

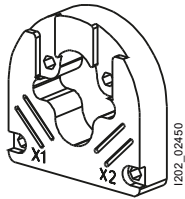
Version	DT	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg
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#### Further accessories

##### 3-pole

##### Current transformers for N-conductor/grounded neutral point of the transformer

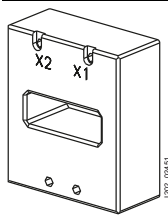
for ground-fault protection in 4-wire three-phase systems



3VL9206-8TT01

$I_N$ /A of the ETU Purpose

60	for VL150 UL (DG frame)	<a href="#">3VL9206-8TT01</a>		1	1 unit	1CC	0.100
100	for VL150 UL (DG frame)	<a href="#">3VL9310-8TT01</a>		1	1 unit	1CC	0.200
	for VL250 UL (FG frame)	<a href="#">3VL9310-8TT01</a>		1	1 unit	1CC	0.200
150	for VL150 UL (DG frame)	<a href="#">3VL9315-8TT01</a>		1	1 unit	1CC	0.045
	for VL250 UL (FG frame)	<a href="#">3VL9315-8TT01</a>		1	1 unit	1CC	0.045
250	for VL250 UL (FG frame)	<a href="#">3VL9425-8TT01</a>		1	1 unit	1CC	0.200
	for VL400 UL (JG frame)	<a href="#">3VL9425-8TT01</a>		1	1 unit	1CC	0.200
400	for VL400 UL (JG frame)	<a href="#">3VL9440-8TT01</a>		1	1 unit	1CC	0.100
	for VL400X UL (LG frame)	<a href="#">3VL9440-8TT01</a>		1	1 unit	1CC	0.100
600	for VL400X UL (LG frame)	<a href="#">3VL9660-8TT01</a>		1	1 unit	1CC	0.100
	for VL800 UL (MG frame)	<a href="#">3VL9660-8TT01</a>		1	1 unit	1CC	0.100
800	for VL800 UL (MG frame)	<a href="#">3VL9780-8TT01</a>		1	1 unit	1CC	0.020
	for VL1200 UL (NG frame)	<a href="#">3VL9780-8TT01</a>		1	1 unit	1CC	0.020
1000	for VL1200 UL (NG frame)	<a href="#">3VL9812-8TT01</a>		1	1 unit	1CC	0.075
1200	for VL1200 UL (NG frame)	<a href="#">3VL9812-8TT01</a>		1	1 unit	1CC	0.075
	for VL1600 UL (PG frame)	<a href="#">3VL9812-8TT01</a>		1	1 unit	1CC	0.075
1600	for VL1600 UL (PG frame)	<a href="#">3VL9816-8TT01</a>		1	1 unit	1CC	0.100



3VL9660-8TT01

For type	Version	DT	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.  kg
<b>Accessories for communication</b>								
<b>3-pole</b>								
<b>Data transmission</b>								
VL150 UL (DG frame) to VL1600 UL (PG frame)	<b>COM20 Release 2 (PROFIBUS module for 3VL molded case circuit breaker according to UL)</b> Module for connecting the 3VL molded case circuit breaker according to UL with Electronic Trip Unit to the PROFIBUS DP, including switching function and Zone Selective Interlocking functionality, connection cable to ETU not included in delivery		<b>3VL9000-8AU00</b>		1	1 unit	1CC	0.287
VL150 UL (DG frame) to VL1600 UL (PG frame)	<b>COM21 Release 2 (Modbus module for 3VL molded case circuit breaker according to UL)</b> Module for connecting the 3VL molded case circuit breaker according to UL with electronic trip unit to a Modbus RTU bus system, including switching function and Zone Selective Interlocking functionality, connection cable to ETU not included in delivery		<b>3VL9000-8AV00</b>		1	1 unit	1CC	0.295
	<b>Addressing plugs</b> For assigning the module addresses without using a PC/PG on COM20/COM21 (Release 2) through the system interface	▶	<b>3UF7910-0AA00-0</b>		1	1 unit	42J	0.015
VL150 UL (DG frame) to VL250 UL (FG frame)	<b>COMKIT3</b> Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 1.5 m • Alarm switches • Protective cover to protect the connecting cable		<b>3VL9300-8AQ61</b>		1	1 unit	1CC	0.142
VL400 UL (JG frame) to VL400X UL (LG frame)	<b>COMKIT4</b> Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 1.5 m • Auxiliary Switches and Alarm Switches • Protective cover to protect the connecting cable		<b>3VL9400-8AQ61</b>		1	1 unit	1CC	0.145
VL600 UL (MG frame) to VL1600 UL (PG frame)	<b>COMKIT5</b> Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 1.5 m • Auxiliary Switches and Alarm Switches • Protective cover to protect the connecting cable		<b>3VL9800-8AQ61</b>		1	1 unit	1CC	0.181
VL150 UL (DG frame) to VL250 UL (FG frame)	<b>COMKIT6</b> Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 3 m • Alarm switches • Protective cover to protect the connecting cable		<b>3VL9300-8AQ71</b>		1	1 unit	1CC	0.205
VL400 UL (JG frame) to VL400X UL (LG frame)	<b>COMKIT7</b> Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 3 m • Auxiliary Switches and Alarm Switches • Protective cover to protect the connecting cable		<b>3VL9400-8AQ71</b>		1	1 unit	1CC	0.214
VL600 UL (MG frame) to VL1600 UL (PG frame)	<b>COMKIT8</b> Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 3 m • Auxiliary Switches and Alarm Switches • Protective cover to protect the connecting cable		<b>3VL9800-8AQ71</b>		1	1 unit	1CC	0.246

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### General data

#### Design

- Rated current range from 20 A to 1600 A
- Different making and breaking capacities for each size

<b>N</b>	Standard (35 kA)
<b>H</b>	High (65 kA)
<b>L</b>	Very high (100 kA)

- No power reduction/derating up to 40°C
- Electronic Trip Unit from size 150 A (VL150 UL, DG frame), especially for time-based discrimination and ground-fault protection
- 2 families of internal accessories
- Complete bandwidth of external accessories, e.g. terminals also for aluminum cables.

All molded case circuit breakers are supplied with integrated overcurrent releases. The VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers are available with different connection variants (see "Main connections, basic equipment and options", page 2/276). Auxiliary switches, alarm switches and auxiliary releases can be easily retrofitted in the molded case circuit breakers or, if requested, are already installed when delivered.

The breaking capacity is indicated on the front of every molded case circuit breaker.

- Standard breaking capacity:  
35 kA at 50/60 Hz 480 V AC
- High breaking capacity:  
65 kA at 50/60 Hz 480 V AC
- Very high breaking capacity:  
100 kA at 50/60 Hz 480 V AC

#### Connection

The following connection types are available for 3VL molded case circuit breakers according to UL 489:

- Box terminal, suitable for stranded conductors,
- Screw terminals for flat connection,
- Circular conductor/multiple feed-in terminal for Al/Cu cables,
- Cable lug connection.

The infeed and outgoing sides can be chosen on the molded case circuit breaker to suit requirements. The electrical data remains unaffected.

Various terminals feature an auxiliary conductor connection. Up to 0.5 A can be tapped here to directly power other devices.

Bare conductors at the top terminals must be insulated in the space that is needed above the arc chute.

All auxiliary releases (shunt releases and undervoltage releases), auxiliary switches and alarm switches are equipped with screw terminals and therefore are easy to connect electrically.

The motorized operating mechanisms with spring energy store always feature terminals. The leading auxiliary switches for the rotary operating mechanisms are always supplied with connecting cables.

**VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers**

The main components of the 3VL molded case circuit breakers according to UL are the three conducting paths with incoming and outgoing terminals. The fixed and movable contacts are designed in such a way that magnetic repulsion of the contacts takes place under short-circuit conditions. In conjunction with the arc splitter chambers, a dynamic impedance is created that causes a current limitation through the reduction in the harmful effects of  $I^2t$  and the  $I_p$  energy resulting during short-circuits.

The 3VL molded case circuit breaker has a trip-free mechanism.

The double-insulated accessory compartments for the auxiliary releases and auxiliary switches are located on the left and right of the circuit breaker's operating mechanism.

The overcurrent releases for the VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers have the following characteristics:

- The overcurrent releases are available in a thermal-magnetic version and in an electronic<sup>1)</sup> version.
- The thermal-magnetic releases have non-adjustable overload releases and adjustable<sup>2)</sup> short-circuit releases.

In the case of all versions of the 3VL molded case circuit breakers according to UL with electronic overcurrent release, the current transformers are in the same enclosure as the tripping electronics. They supply a signal proportional to the load current to the electronic overcurrent release system.

All 3VL molded case circuit breakers according to UL with electronic overcurrent release measure the actual rms current. This is the most accurate method of measurement. Currents in present-day electrical distribution systems with very high harmonics are evaluated reliably.

**Overcurrent tripping systems**

The switching unit (frame) and release unit are assembled and tested at the factory. Accordingly, the release unit can only be replaced at the factory. The infeed and outgoing sides can be chosen on the molded case circuit breakers to suit requirements.

**1. Thermal-magnetic releases of the VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers**

The overcurrent releases and short-circuit releases work with bimetals and magnetic releases. They are available with non-adjustable overload releases and adjustable short-circuit releases.<sup>2)</sup>

The 3VL molded case circuit breakers for starter combination applications are usually combined with a motor contactor and a suitable overload relay.

<sup>1)</sup> VL150X UL (CG frame) only thermal-magnetic.

<sup>2)</sup> VL150X UL (CG frame) only with non-adjustable short-circuit release.

The non-automatic air circuit breakers have integrated self-protection against short-circuit so that back-up fuses can be omitted. Non-automatic air circuit breakers do not have overload protection.

**2. Overcurrent releases of the VL150X UL (DG frame) to VL1600 UL (PG frame) molded case circuit breakers, electronic, ETU**

The electronic tripping system consists of:

- 3 current transformers
- Evaluation electronics with microprocessor
- Intrinsic power supply, no external auxiliary power necessary
- Tripping solenoid.

In the case of VL150 UL (DG frame) and VL250 (FG frame) molded case circuit breakers, the left accessory compartment is needed for the tripping solenoid included in the scope of supply. In the case of all other sizes, the tripping solenoid is integrated in the release unit and the left and right accessory compartments can be used for auxiliary switches, alarm switches and additional auxiliary releases.

The protection functions of the electronic trip units are ensured without additional auxiliary voltage. The overcurrent releases are supplied with energy via internal current transformers in the circuit breaker.

**3. Overcurrent releases of the VL150X UL (DG frame) to VL1600 UL (PG frame) molded case circuit breakers**

For parameterizing, the electronic overcurrent release must be activated. A load current amounting to at least 20 % of the relevant molded case circuit breaker's rated current  $I_n$  is needed to do this. If this load current is not available, the necessary auxiliary energy can be supplied via a battery power supply. In the case of molded case circuit breakers that are connected to an active COM20 (PROFIBUS) or COM21 (Modbus) communication module (Release 2) for data transmission, the release is powered via the module.

Abbreviations (functions)		
<b>L</b>	= Long Time Delay	= Overload protection
<b>S</b>	= Short Time Delay	= Short-circuit protection (short-time delayed)
<b>I</b>	= Instantaneous	= Short-circuit protection (instantaneous)
<b>N</b>	= Neutral Protection	= Neutral conductor protection
<b>G</b>	= Ground Fault	= Ground-fault protection

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### General data

#### VL150 UL (DG frame) to VL1600 UL (PG frame) overcurrent releases – functional overview

Article No. supplement	Release/model	Line protection	Starter protection	Generator protection	Function	Setting options				
						L <sup>1)</sup>	S <sup>1)</sup>		I <sup>1)</sup>	G <sup>1)</sup>
						Overload protection	Short-circuit protection (short-time delayed)		Short-circuit protection (instantaneous)	Ground-fault protection
						$I_r = \times I_n$	$I_{sd} = \times I_r$	$t_{sd}$ [s]	$I_i = \times I_n$	$I_g = \times I_n$
KJ	M	--	✓	--	I	--	--	--	3 ... 6	--
KK	M	--	✓	--	I	--	--	--	4 ... 10	--
KL	M	--	✓	--	I	--	--	--	7 ... 16	--
KN	TM/525	✓	--	--	LI	1	--	--	5 ... 10	--
PB	ETU/555	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--
PD	ETU/555	✓	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.4 ... 1 <sup>3)</sup>
PU	ETU/555	✓	--	✓	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--
PH	ETU/555	✓	--	✓	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1 <sup>3)</sup>
VH	LCD-ETU/586	✓	--	--	LI, LSI	0.4 ... 1	1.25 ... 10	0 ... 0.5	1.25 ... 11	--
VM	LCD-ETU/586	✓	--	--	LSIG	0.4 ... 1	1.25 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1 <sup>2)</sup>
VJ	LCD-ETU/586	✓	--	--	LSI G (alarm)	0.4 ... 1	1.25 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1 <sup>2)</sup>

Article No. supplement	Release/model	Thermal image	Communication-capable	Ground-fault protection	Number of poles	$I^2t$ (ON/OFF)	Time-lag class ( $t_r$ )	Thermal-magnetic releases	Magnetic releases	Electronic release	LCD display
KJ	M	--	--	--	3	--	--	--	✓	--	--
KK	M	--	--	--	3	--	--	--	✓	--	--
KL	M	--	--	--	3	--	--	--	✓	--	--
KN	TM/525	✓	--	--	3	--	--	✓	--	--	--
PB	ETU/555	✓	✓	--	3	--	2.5 ... 30	--	--	✓	--
PD	ETU/555	✓	✓	①	3	--	2.5 ... 30	--	--	✓	--
PU	ETU/555	✓	✓	--	3	✓	--	--	--	✓	--
PH	ETU/555	✓	✓	①	3	✓	--	--	--	✓	--
VH	LCD-ETU/586	✓	✓	--	3	✓	2.5 ... 30	--	--	✓	✓
VM	LCD-ETU/586	✓	✓	① / ②	3	✓	2.5 ... 30	--	--	✓	✓
VJ	LCD-ETU/586	✓	✓	① / ②	3	✓	2.5 ... 30	--	--	✓	✓

#### Ground-fault protection

- ① Vectorial summation current formation (4-conductor system)  
 ② Direct detection of ground-fault current in the neutral point of the transformer

1) Size dependent.

2)  $t_g$  0.1 s to 0.5 s.

3)  $t_g$  0.07 s to 0.4 s size-dependent

#### Internal accessories (auxiliary switches, undervoltage releases, shunt releases)

3VL molded case circuit breakers according to UL can be supplied completely equipped with internal accessories (e.g. auxiliary switches, undervoltage releases or shunt releases). Refer to the tables of Article No. supplements for details of possible versions.

#### Fixed-mounted, plug-in or withdrawable version

The fixed-mounted molded case circuit breaker is the basic version. Using the appropriate assembly kit, it can be changed to a plug-in or withdrawable version. This assembly kit contains blade contacts, a locking pin and terminal covers for the plug-in version. The assembly kit for the withdrawable version additionally includes side panels and a racking mechanism. Even when the masking frame is fitted, movement using the withdrawable unit's handle is possible while the door is closed.

#### Operating mechanisms

In the basic version, the 3VL molded case circuit breakers according to UL have a toggle lever as an operating mechanism. This also functions as an indicator of the switch position. The "Tripped" position is also displayed in addition to the "ON" and "OFF" positions.

The toggle lever goes to the "tripped" position when the internal tripping mechanism is activated by overcurrent tripping, e.g. on overload or short-circuit. Activation of an undervoltage release or shunt release will also cause the toggle lever to move to the "Tripped" position. The toggle lever must be moved to the "OFF/RESET" position before the molded case circuit breaker can be closed again. This enables reset of the internal tripping mechanism and reactivation of the molded case circuit breaker's main contacts (see figure).

A toggle lever extension is supplied with the VL 1200 UL (NG frame) and VL1600 UL (PG frame) molded case circuit breakers. For the VL400 UL (JG frame) to VL800 UL (MG frame) molded case circuit breakers, this accessory must be ordered separately if required.

Front-operated rotary operating mechanisms

These operating mechanisms are designed for direct attachment to 3VL molded case circuit breakers according to UL and convert movement of the toggle lever from a linear to a rotary movement.

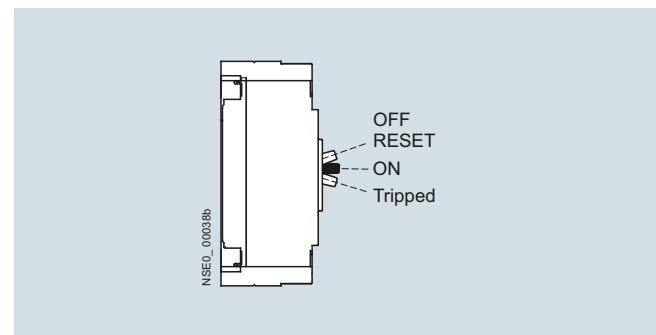
For a molded case circuit breaker with leading auxiliary switches, the undervoltage release can be connected to voltage in a leading fashion, as a result of which the molded case circuit breaker is ready for closing.

Door-coupling rotary operating mechanisms (complete operating mechanisms)

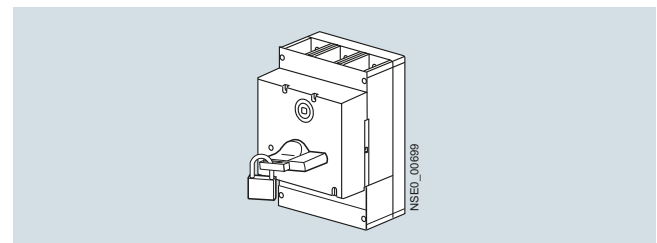
When the molded case circuit breakers are installed in control cabinets and distribution boards, door-coupling rotary operating mechanisms are available for doors and removable covers. These operating mechanisms are supplied as complete assembly kits, including an articulated-shaft mechanism.

With regard to switch positions and the "RESET" position, the same applies to rotary operating mechanisms as to toggle lever operating mechanisms. Indication is by the position of the operator lever (knob).

All 3VL molded case circuit breakers according to UL that feature these rotary operating mechanisms and corresponding terminal covers can be used as main disconnecting means.



Toggle lever operating mechanism positions



Rotary operating mechanism locked with padlock

**Motorized operating mechanisms**

VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers can be equipped with motorized operating mechanisms for operational remote closing and opening.

The motorized operating mechanisms for VL150X UL (CG frame) to VL800 UL (MG frame) molded case circuit breakers have a spring energy store (for synchronization) with a maximum ON period of  $t_{\text{e}} \leq 80$  ms.

Motorized operating mechanisms without spring energy store for remotely controlled ON and OFF switching are available for the VL1200 UL (NG frame) and VL1600 UL (PG frame) molded case circuit breakers.

All motorized operating mechanisms are always supplied with a locking device for padlocks. Moreover, optional safety locks for motorized operating mechanisms with stored energy mechanism are also available.

The locking devices can be used for electrical and mechanical blocking of the operating mechanism. All remote operating mechanisms are equipped with a manual operating possibility for maintenance purposes.

Optionally, the motorized operating mechanisms for VL150X UL (CG frame) to VL800 UL (MG frame) and also the motorized operating mechanisms for VL1200 UL (NG frame) and VL1600 UL (PG frame) are each internally equipped with a floating signaling contact (normally open) for the following functions:

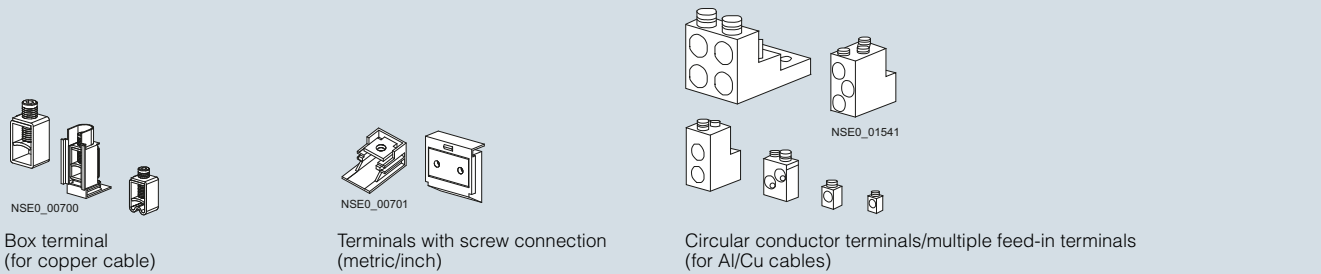
- Querying the AUTO/Manual selector switch for VL150X UL (CG frame) to VL800 UL (MG frame)
- Operating the mechanical OFF/0 button

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### General data

#### Main connections, basic equipment and options



#### Main connections

Molded case circuit breaker	Connection overview and further options						
	Box terminals Cu only	Screw terminals for flat connection		Circular conductor terminal/multiple feed-in terminal Cu or Al	Rear terminals	Cable lug connection	Direct connection of bars possible (IEC-approved circuit breakers only)
		with metric thread	with inch thread				
VL150X UL (CG frame)	x	x	--	x	x	--	--
VL150 UL (DG frame)	x	x	x	x	x	x	--
VL250 UL (FG frame)	x	x	x	x	x	x	--
VL400 UL (JG frame)	x	x	--	x <sup>1) 2)</sup>	x	x	--
VL400X UL (LG frame)	--	x	x	x <sup>1) 2)</sup>	x	x	--
VL800 UL (MG frame)	--	x	x	x <sup>1)</sup>	x	x	--
VL1200 UL (NG frame)	--	x	x	x <sup>1)</sup>	x	x	--
VL1600 UL (PG frame)	--	x	x	x <sup>1)</sup>	x	--	--

x Available

-- Not available

<sup>1)</sup> Multiple feed-in terminals

<sup>2)</sup> Circular conductor terminal also available.

#### Note

See operating instructions for conductor cross-sections.

#### Auxiliary releases and auxiliary switches

##### Undervoltage releases, leading auxiliary switches

If there is no voltage present, closing of the molded case circuit breaker is not possible. When no voltage is applied to the release, operating the circuit breaker leads to no-load switching.

Frequent no-load switching should be avoided to prevent shortening the molded case circuit breaker's useful life.

For a molded case circuit breaker with leading auxiliary switches, the undervoltage release can be connected to voltage in a leading fashion, as a result of which the molded case circuit breaker is ready for closing.

In the case of 3VL molded case circuit breakers according to UL, the leading auxiliary switch can be supplied together with the front-operated rotary operating mechanisms and complete operating mechanisms. For further information, see "Selection and ordering data" for accessories.

##### Shunt releases

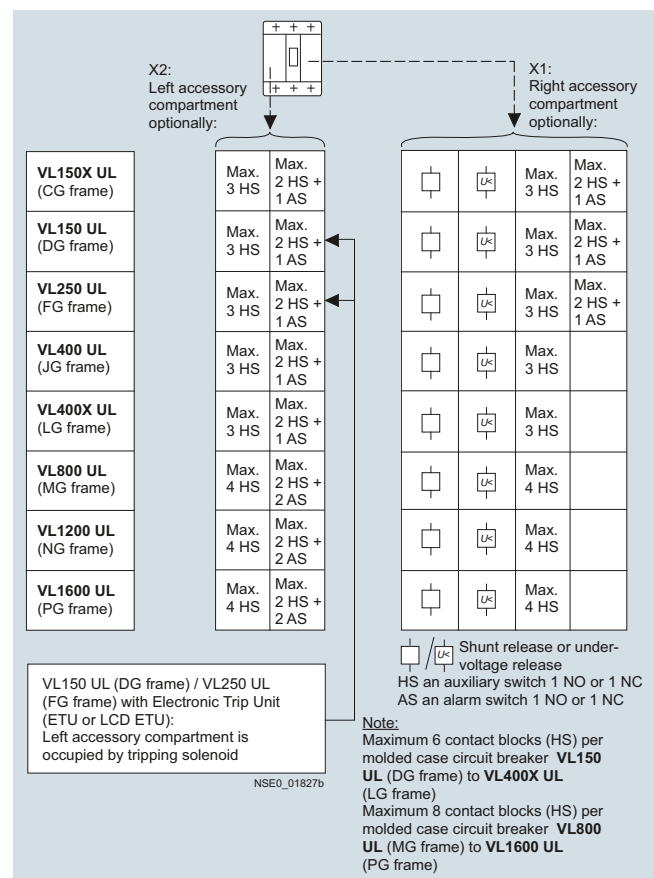
Shunt releases are used to remotely trip the molded case circuit breaker.

The shunt release's coil is designed for short-time operation. Coil deactivation is installed internally.

When a molded case circuit breaker is open, it is not permitted to apply a continuous opening command to the shunt release to prevent closing. A center tap is available as standard to test the coil for continuity.

#### Note

Before ordering, use the graphic on the right to check whether the required combination of shunt releases, undervoltage releases and auxiliary/alarm switches is feasible.



Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers according to UL

### Auxiliary switches

Auxiliary switches (HS) are used for signaling and controlling. The contacts of the auxiliary switch open and close along with the main contacts.

### Alarm switches

Alarm switches (AS) operate when the molded case circuit breaker has been tripped due to an overcurrent situation, e.g. an overload or short-circuit. However, they are also activated when the molded case circuit breaker has been tripped by a shunt release or an undervoltage release.

### Installation of internal accessories

The insulated accessory compartments in the molded case circuit breakers for installation of internal accessories (auxiliary releases and auxiliary/alarm switches) are designated X1, X2 and X4.

Equipment of the molded case circuit breaker with internal accessories and the possibility of combination with auxiliary releases and auxiliary/alarm switches depend on the installation position and frame size of the molded case circuit breaker (see figure entitled "Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers according to UL").

### PLC control

The auxiliary and alarm switches are suitable for PLC control. These switching elements are from the Siemens 3SB3 program.

### Leading auxiliary switches

The leading auxiliary switches from OFF to ON or from ON to OFF are available as retrofit kits and for Max Flex operating mechanisms.

## Function

### Current limiting<sup>1)</sup>

3VL molded case circuit breakers according to UL are designed on the principle of magnetic repulsion of the contacts. The contacts open before the expected peak value of the short-circuit current is reached. The current-limiting effects of the 3VL molded case circuit breakers according to UL protect the system components effectively against thermal and dynamic effects of the short-circuit current in the event of an electrical fault.

### Ground-fault protection

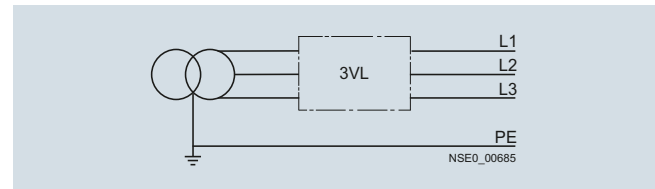
The ground-fault release "G" captures fault currents escaping to ground that can cause fires in the plant. Several molded case circuit breakers connected in series can be assigned graduated discrimination by means of the adjustable delay time.

The following measurement methods can be used to detect neutral conductor and ground-fault currents:

### Vectorial summation current formation (measurement method 1)

#### Ground-fault detection in balanced systems

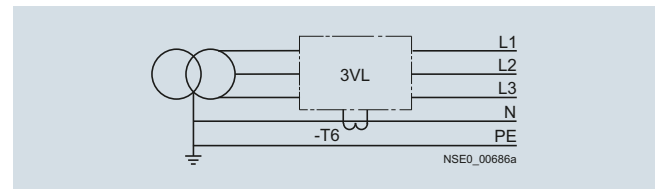
The three phase currents are evaluated using vectorial summation current formation.



#### Ground-fault detection in unbalanced systems

The neutral conductor current is measured directly and, in the case of the 3-pole circuit breakers, is only evaluated for ground-fault protection.

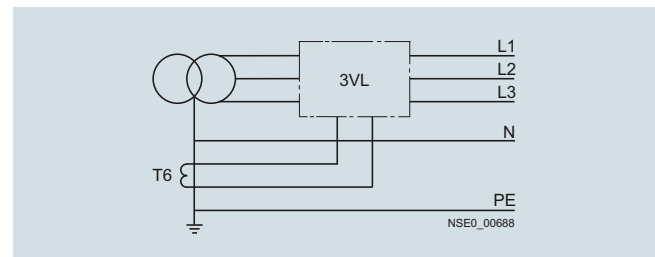
The overcurrent release calculates the ground-fault current using the vectorial summation of the three phase currents and the neutral conductor current.



3-pole molded case circuit breaker, current transformer in neutral conductor

### Direct detection of the ground-fault current via a current transformer at the grounded star point of the transformer (measurement method 2)

The current transformer is installed directly at the grounded neutral point of the transformer.



3-pole molded case circuit breaker, current transformer at the grounded star point of the transformer

### Transformer protection

The 3VL molded case circuit breakers according to UL protect power distribution systems in the event of overload and short-circuit as from the low-voltage side of the infeed transformer. The resulting requirements for current and/or time-based discrimination are fulfilled reliably by 3VL molded case circuit breakers according to UL for line protection – equipped with thermal-magnetic (TM) or electronic trip units (ETU or LCD ETU).

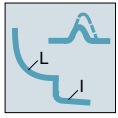
<sup>1)</sup> Not current-limiting in terms of "Current limiting according to UL 489".

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### General data

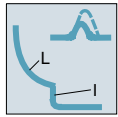
#### Thermal-magnetic releases (TM)



NSE0\_00689

Application: line protection –  
TM, LI/LIN function

Overload protection, non-adjustable,  
short-circuit protection, non-adjustable,  
see "Selection and ordering data" for  
VL150X UL (CG frame),  
integrated releases in the circuit breaker enclosure;  
KM version.



I201\_19069

Application: line protection –  
TM/model 525, LI/LIN function

Overload protection, non-adjustable,  
short-circuit protection, adjustable  
 $I_i = 5 \text{ to } 10 \times I_n^{(1)}$ , for VL150 UL (DG frame)  
to VL1600 UL (PG frame);

KN version



NSE0\_00707

Application: starter protection –  
M, I function

Short-circuit protection, adjustable  
 $I_i = 3 \text{ to } 16 \times I_n^{(1)}$ , for VL150 UL (DG frame) to  
VL1200 UL (NG frame);

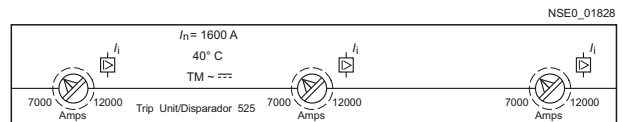
KJ, KK, KL versions.



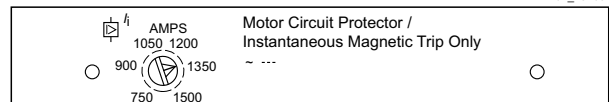
NSE0\_00708

Application: switch disconnectors in molded case  
circuit breaker design – M, I function  
(for intrinsic protection)

Short-circuit protection, non-adjustable  
KE version



NSE0\_01828



I201\_19109

<sup>1)</sup> Size-dependent, see "Selection and ordering data".

**Electronic Trip Units (ETUs)**

For types  
VL150 UL  
(DG frame)  
to VL1600  
UL (PG  
frame)

General information:

- No auxiliary voltage required for release system
- All ETUs have a thermal image
- A flashing green LED indicates correct operation of the microprocessor

- Overload status ( $I > 1.05 \times I_r$ ) is indicated by a permanently lit yellow LED (alarm)
- Integral self-test function
- Socket for battery power supply
- Communication link to PROFIBUS DP and Modbus RTU possible



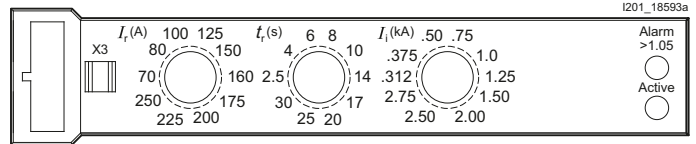
NSE0\_00691

Application: line protection – model 555, LI function

Overload protection  $I_r = 0.28$  to  $1 \times I_n^{(1)}$ ,  
time-lag class  $t_r = 2.5$  to  $30$

Short-circuit protection (instantaneous)  
 $I_i = 1.25$  to  $11 \times I_n^{(1)}$ ;

PB version



NSE0\_00920

Application: line and generator protection – model 555, LSI function

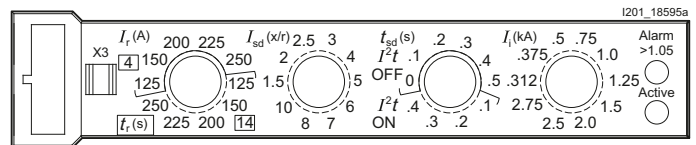
Overload protection  $I_r = 0.4$  to  $1 \times I_n^{(1)}$ ,

Short-circuit protection (short-time delay)  
 $I_{sd} = 1.5$  to  $10 \times I_n^{(1)}$ ,  $t_{sd} = 0$  to  $0.5$  s,

$I^2t$  on/off selectable

Short-circuit protection (instantaneous)  
 $I_i = 1.25$  to  $11 \times I_n$  (fixed)<sup>1)</sup>

PE version



NSE0\_00693

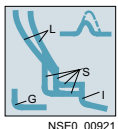
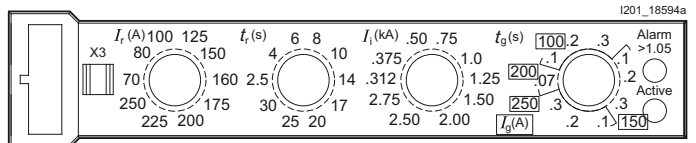
Application: line protection – model 555, LIG function

Overload protection  $I_r = 0.28$  to  $1 \times I_n^{(1)}$ ,  
time-lag class  $t_r = 2.5$  to  $30$

Short-circuit protection (instantaneous)  
 $I_i = 1.25$  to  $11 \times I_n^{(1)}$

Ground-fault protection:  
Measurement method No. 1:  
( $G_R$ ) vectorial summation current formation of  
the currents in the three phases and the neutral  
conductor (4-wire systems);  $I_g = 0.4$  to  $1 \times I_n^{(1)}$

PD version



NSE0\_00921

Application: line and generator protection – model 555, LSIG function

Overload protection  $I_r = 0.4$  to  $1 \times I_n^{(1)}$ ,

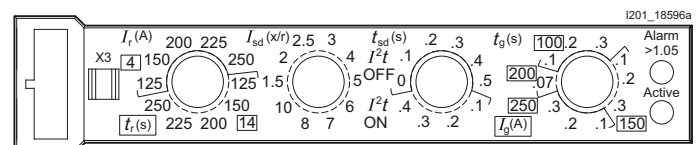
Short-circuit protection (short-time delay)  
 $I_{sd} = 1.5$  to  $10 \times I_n^{(1)}$ ,  $t_{sd} = 0$  to  $0.5$  s,

$I^2t$  on/off selectable

Short-circuit protection (instantaneous)  
 $I_i = 1.25$  to  $11 \times I_n^{(1)}$

Ground-fault protection:  
Measurement method No. 1:  
( $G_R$ ) vectorial summation current formation of  
the currents in the three phases and the neutral  
conductor (4-wire systems);  $I_g = 0.4$  to  $1 \times I_n^{(1)}$

PH version



<sup>1)</sup> Size-dependent, see "Selection and ordering data".

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

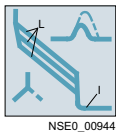
### General data

#### Electronic Trip Units with LCD (LCD ETU)

##### General information:

- No auxiliary voltage required for release system
- Current display
- An illuminated green LCD display indicates correct operation of the microprocessor
- Overload status ( $I > 105 \% I_r$ ) is indicated by "Overload" on the LCD display

- Direct, user-friendly, menu-driven setting of the absolute values of the protection parameters in the ampere values via keys
- Integral self-test function
- Socket for battery power supply
- Communication link to PROFIBUS DP and Modbus RTU possible



##### Application: line protection – model 586, LSI function

Overload protection  $I_r = 0.4$  to  $1 \times I_n$ ,  
time-lag class  $t_r = 2.5$  to  $30$

Thermal image selectable on/off

Short-circuit protection (short-time delay)

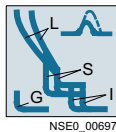
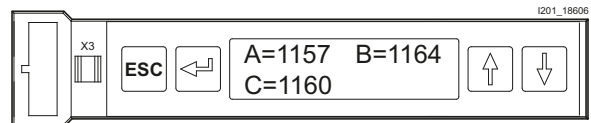
$I_{sd} = 1.25$  to  $10 \times I_R^{(1)}$ ,  $t_{sd} = 0$  to  $0.5$  s,

$I^2t$  on/off selectable

Short-circuit protection (instantaneous)

$I_i = 1.25$  to  $11 \times I_n^{(1)}$

VH version



##### Application: line protection – model 586, LSI G function

Overload protection  $I_r = 0.4$  to  $1 \times I_n$ ,  
time-lag class  $t_r = 2.5$  to  $30$

Thermal image selectable on/off

Short-circuit protection (short-time delay)

$I_{sd} = 1.25$  to  $10 \times I_R^{(1)}$ ,  $t_{sd} = 0$  to  $0.5$  s,

$I^2t$  on/off selectable

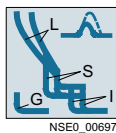
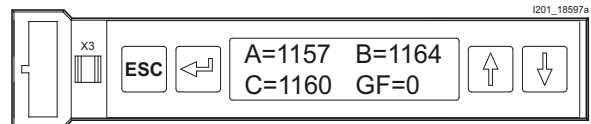
Short-circuit protection (instantaneous)

$I_i = 1.25$  to  $11 \times I_n^{(1)}$

Ground-fault protection: Measurement method No. 1:  
( $G_R$ ) vectorial summation current formation of the currents  
in the three phases and the neutral conductor  
(4-wire systems);  
 $I_g = 0.4$  to  $1 \times I_n^{(1)}$ .

Measurement method No. 2:  
( $G_{GND}$ ) direct measurement of the ground-fault current  
using a current transformer,  $I_g = 0.4$  to  $1 \times I_n$ ,  
 $t_g = 0.1$  to  $0.5$  s.

VM version



##### Application: line protection – model 586, LSI G (alarm) function

Overload protection  $I_r = 0.4$  to  $1 \times I_n$ ,  
time-lag class  $t_r = 2.5$  to  $30$

Thermal image selectable on/off

Short-circuit protection (short-time delay)

$I_{sd} = 1.25$  to  $10 \times I_R^{(1)}$ ,  $t_{sd} = 0$  to  $0.5$  s,

$I^2t$  on/off selectable

Short-circuit protection (instantaneous)

$I_i = 1.25$  to  $11 \times I_n^{(1)}$

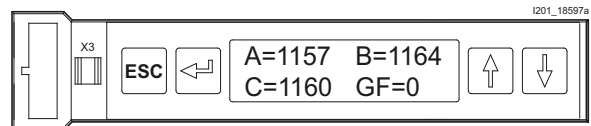
Ground-fault protection:

Measurement method No. 1:  
( $G_R$ ) vectorial summation current formation of the currents  
in the three phases and the neutral conductor  
(4-wire systems);  
 $I_g = 0.4$  to  $1 \times I_n^{(1)}$ .

Measurement method No. 2:  
( $G_{GND}$ ) direct measurement of the ground-fault current  
using a current transformer,  $I_g = 0.4$  to  $1 \times I_n$ ,  
 $t_g = 0.1$  to  $0.5$  s.

If a ground fault is detected, the LCD ETU only issues an  
alarm, without tripping the circuit breaker. This alarm is  
displayed direct on the display and/or is communicated to  
higher-level systems via PROFIBUS DP/Modbus RTU.

VJ version



<sup>1)</sup> Size-dependent, see "Selection and ordering data".

## Configuration

### Communication

All 3VL molded case circuit breakers according to UL 489 with electronic trip unit (ETU) are communication-capable. To this end, the molded case circuit breaker's ETU is connected to a COM20 or COM21 communication module by means of a cable. The COM20 module (Release 2) supports the PROFIBUS DP protocol, while the COM21 module (Release 2) enables data transfer via Modbus RTU.

A communication kit – COMKIT 3 to 8 – is needed to connect the 3VL molded case circuit breaker (see page 2/271).

The COMKITs consists of a connecting cable including a protective cover and also one alarm and auxiliary switch each for installation in the molded case circuit breaker.<sup>1)</sup> These are also connected to the electronic trip unit and signal the ON/OFF/TRIPPED circuit breaker status to the electronic trip unit.

The communication modules enable activation and deactivation of an optional motorized operating mechanism.

	Data transmission through COM20/COM21 (Release 2)
<b>Data transferred</b>	
<b>Commands</b>	
Closing or opening	✓
Deleting alarm and tripping operation buffer and also maintenance information	✓
<b>Operating states<sup>2)</sup></b>	
ON or OFF status trip position	✓
<b>Event messages</b>	
Tripped messages with tripping current	✓
Alarms (e.g. overload, phase unbalance current, etc.)	✓
Threshold violation (e.g. phase currents)	✓
<b>Measured values</b>	
Phase currents and neutral conductor current	✓
<b>Parameter values</b>	
Reading and writing	✓
<b>Maintenance information</b>	
(e.g. number of trips, number of switching operations)	✓
<b>Data for device identification</b>	
	✓
<b>Clock synchronization</b>	
	✓

✓ Available

Function	COM20/21 (Release 2) module with overcurrent release version	
	ETU	LCD ETU
<b>Functions of communication components</b>		
Transfer of the operating state (ON, OFF, tripped, warnings, tripped causes, event log, etc.) to the PROFIBUS	✓	✓
Display of measured values (current only) and parameters in the release, modifying parameters via the display	--	✓ <sup>3)</sup>
Transferring the maximum value of the actual current in %	✓	✓
Transferring the individual current phase currents	✓	✓
Transferring PROFIBUS identification data	✓	✓
Reading protection parameters via PROFIBUS/Modbus	✓	✓
Reading and setting protection parameters via PROFIBUS/Modbus	--	✓

✓ Function available

Function can optionally be adopted by several trip units.

-- Function not available

<sup>1)</sup> Only an alarm switch is included with the COMKITs 3 and 6 because the auxiliary switch in the case of DG and FG frame sizes of the 3VL molded case circuit breakers is already included in the magnetic release (Maglatch).

<sup>2)</sup> Only in the case of built-in auxiliary switches connected to COM20/21 (Release 2)

<sup>3)</sup> COM20/21 not required

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### General data

#### Switching direct current

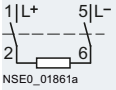
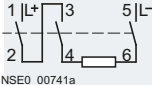
The VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers (for line protection with TM, for starter combinations, and for non-automatic air circuit breakers) with the exception of the VL150 UL (DG frame) to VL1600 UL (PG frame) molded case circuit breakers with electronic trip units (ETU), are also suitable for switching and protecting direct current.

The maximum permitted DC voltage for each conducting path needs to be taken into account for DC switching applications, however.

Series connection of 2 to 3 conducting paths is required for voltages in excess of 250 V in the case of VL150 UL (DG frame) to VL1600 UL (PG frame).

The following circuits are recommended since the current must flow through all conducting paths in order to conform to the thermal tripping characteristic curves.

The threshold values of the instantaneous short-circuit release ("I" release) increase by 30 to 40 %.

Recommended circuit/maximum permitted DC voltage $U_e$		Remarks
Circuit A	Circuit B	
<b>For 3-pole molded case circuit breakers</b>		
250 V DC 	500 V DC rated / 600 V DC max. for use in ungrounded UPS DC applications (according to UL 489, Supplement SC) 	2-pole switching (ungrounded system)

### Technical specifications

Type	VL150X UL CG frame	VL150 UL DG frame	VL250 UL FG frame	VL400 UL JG frame	VL400X UL LG frame	VL800 UL MG frame	VL1200 UL NG frame	VL1600 UL PG frame	
<b>Max. rated current <math>I_n</math></b>	A 150	150	250	400	600	800	1200	1600	
<b>Rated insulation voltage <math>U_i</math>, only in accordance with IEC 60947-2</b>									
Main conducting paths	AC	V 800							
Auxiliary circuits	AC	V 690							
<b>Rated operational voltage <math>U_e</math></b>									
NEMA 50/60 Hz	AC	V 600							
	DC <sup>1)</sup>	V 250	2)						
IEC 50/60 Hz	AC	V 690							
<b>Utilization category</b>	A								
<b>Permissible ambient temperature</b>									
Operation: 0 °C ... +70 °C for devices with TM release (cf. IEC system manual)	°C	-25 ... +70							
Storage	°C	-40 ... +80							
<b>Permissible load at different ambient temperatures</b>									
Directly next to the molded case circuit breaker, referred to the molded case circuit breaker's rated current									
• Molded case circuit breaker for line protection	TM/ETU	up to 40 °C	% 100	100/100				100/100	100/100
	TM/ETU	at 50 °C	% 93	93/100				94/100	92/100
	TM/ETU	at 60 °C	% 86	86/95				88/95	83/95
	TM/ETU	at 70 °C	% 79	79/80				82/80	75/80
• Molded case circuit breaker for starter combinations and non-automatic air circuit breakers		up to 40 °C	% 100						
		at 50 °C	% 100						
		at 60 °C	% 93						
		at 70 °C	% 86						
<b>Weight data of 3-pole molded case circuit breakers</b>									
Basic circuit breaker									
• With thermal-magnetic release	kg	2.5	2.2	2.3	5.7	9.0	14.0	32.8	
• With electronic trip unit	kg	--	2.4	2.5	5.9	9.3	16.0	31.3	
<b>Rated short-circuit breaking capacity</b>	Rated short-circuit breaking capacity: see under "Overview" in table.								

<sup>1)</sup> DC rated data applies to thermal-magnetic releases only.

<sup>2)</sup> 500 V DC rated / 600 V DC max. for use in ungrounded UPS DC applications (according to UL 489, Supplement SC)

Type		VL150X UL CG frame	VL150 UL DG frame	VL250 UL FG frame	VL400 UL JG frame	VL400X UL LG frame	VL800 UL MG frame	VL1200 UL NG frame	VL1600 UL PG frame
<b>Endurance</b>	Switching cycles	20000				10000	3000		
<b>Electrical endurance</b>	Switching cycles	10000				5000	3000	1500	
<b>Max. switching frequency</b>	1/h	120				60	30		
<b>Connection types</b>		See "Main connections, basic equipment and options"							
<b>Connection cross-sections for stranded cables</b>									
Box terminal (Cu)	AWG/kcmil mm <sup>2</sup>	1 x (14 ... 1/0) 1 x (2.5 ... 50)	1 x (8 ... 1/0) 1 x (10 ... 50)	1 x (3 ... 250) 1 x (35 ... 120)	1 x (1/0 ... 600) 1 x (70 ... 300)	--			
Circular conductor terminal (Cu/Al)	AWG/kcmil mm <sup>2</sup>	1 x (6 ... 3/0)		1 x (4 ... 350)	1 x Cu: 3/0 ... 600 Al: 250 ... 750	--			
	mm <sup>2</sup>	1 x (16 ... 70)		1 x (25 ... 150)	1 x Cu: 95 ... 300 Al: 150 ... 300	--			
Circular conductor terminal with terminal cover (Cu/Al)	AWG/kcmil mm <sup>2</sup>	--	1 x (6 ... 300) 1 x (16 ... 150)	--	--	--			
<ul style="list-style-type: none"> <li>Terminal with auxiliary conductor connection up to 0.5 A</li> <li>Aluminium terminals with control cable connection</li> </ul>									
Multiple feed-in terminal (Cu/Al)	AWG/kcmil mm <sup>2</sup>	--	--	--	2 x (3/0 ... 250) 2 x (95 ... 120)	2 x (2 ... 600) 2 x (35 ... 300)	2 x (500 ... 750) 2 x 300	--	--
	AWG/kcmil mm <sup>2</sup>	--	--	--	--	--	3 x (1/0 ... 500) 3 x (70 ... 240)	3 x (500 ... 750) 3 x 300	--
	AWG/kcmil mm <sup>2</sup>	--	--	--	--	--	--	4 x (1/0 ... 500) 4 x (70 ... 240)	--
	AWG/kcmil mm <sup>2</sup>	--	--	--	--	--	--	--	4 x (600 ... 750) 4 x 300
Multiple feed-in terminal with terminal cover	AWG/kcmil mm <sup>2</sup>	--	--	--	2 x (2 ... 600) 2 x (35 ... 300)	--	--	--	--
<ul style="list-style-type: none"> <li>Terminal with auxiliary conductor connection up to 0.5 A</li> <li>Aluminium terminals with control cable connection</li> </ul>									
Direct connection of busbars (Cu/Al, for IEC only)	mm	17 x 7	22 x 7	24 x 7	32 x 10	32 x 10	2 x 40 x 10	2 x 50 x 10	3 x 60 x 10
Screw for connection with screw terminal, metric	M	M 6	--	M 8	--	M10	M 8	--	--
	inch	--	10-32 UNF	5/16	--	3/8	5/16	--	--
<b>Power losses per molded case circuit breaker at max. rated current</b>									
Line protection	TM	W 17 ... 36	15 ... 48	32 ... 80	60 ... 175	85 ... 230	194 ... 269	150 ... 204	204 ... 329
Line protection	ETU or LCD ETU	W --	6 ... 40	11 ... 60	38 ... 90	71 ... 160	140 ... 250	93 ... 210	146 ... 260
For starter combinations or non-automatic air circuit breakers	W	36	40	60	90	160	250	210	260
<b>Permissible mounting position<sup>1)</sup></b>									

<sup>1)</sup> For VL800 UL (MG frame) to VL1600 UL (PG frame) molded case circuit breakers with withdrawable unit frame in lateral installation position. Adapter set on request.

<sup>2)</sup> Permissible current load factor 0.9; with internal accessories only.

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### General data

Type		VL150X UL CG frame	VL150 UL DG frame	VL250 UL FG frame	VL400 UL JG frame	VL400X UL LG frame	VL800 UL MG frame	VL1200 UL NG frame	VL1600 UL PG frame	
<b>Auxiliary switches and alarm switches</b>										
Conventional free-air thermal current $I_{th}$	A	10								
Rated making capacity	A	10								
<b>AC</b>										
Rated operational voltage	V	24	48	110	230	400	600	--		
Rated operating current	AC-12 A	10						--		
	AC-15 A	6				3	1	--		
<b>DC</b>										
Rated operational voltage	V	24	48	110	230	--				
Rated operating current	DC-12 A	10		5	2.5	1	--			
	DC-13 A	3		1.5	0.7	0.3	--			
Back-up fuse/miniature circuit breaker	A	10 TDz/10								
<b>Leading auxiliary switch in rotary mechanism</b>										
Rated thermal current $I_{th}$	A	2								
Rated making capacity	A	2 (ind. 0.5)								
Rated operational voltage	V AC	230								
Rated operating current	A	2								
Rated breaking capacity, inductive, p.f. = 0.7	A	0.5								
Rated breaking capacity	A	2								
Quick-response short-circuit fuse	A	2								
<b>Position signaling switches</b>										
Rated thermal current $I_{th}$	A	16		--						
Rated making capacity	A	16		10	--					
Rated operational voltage	V AC	250		400	--					
Rated operating current	A	16		10	--					
Rated breaking capacity, inductive, p.f. = 0.7	A	4		--						
Rated breaking capacity	A	16		10	--					
Quick-response short-circuit fuse	A	16		10	--					
<b>Release</b>										
		<b>Family 1: VL150X UL (CG frame) to VL400X UL (LG frame)</b>					<b>Family 2: VL800 UL (MG frame) to VL1600 UL (PG frame)</b>			
<b>Undervoltage releases</b>										
Response voltage:										
• Release (circuit breaker trips)	V	0.35 ... 0.70 × $U_s$					0.35 ... 0.70 × $U_s$			
• Pick-up (circuit breaker can be switched on)	V	0.85 ... 1.1 × $U_s$					0.85 ... 1.1 × $U_s$			
Power consumption (continuous operation) at:										
• 24 V AC 50/60 Hz <sup>1)</sup>	VA	1.4					--			
• 110 ... 127 V AC 50/60 Hz	VA	1.0					1.8			
• 220 ... 250 V AC 50/60 Hz	VA	1.0					1.8			
• 208 V AC 50/60 Hz	VA	1.0					1.8			
• 277 V AC 50/60 Hz	VA	1.0					1.8			
• 380 ... 415 V AC 50/60 Hz	VA	1.0					1.8			
• 440 ... 480 V AC 50/60 Hz	VA	1.0					1.8			
• 500 ... 525 V AC 50/60 Hz	VA	1.0					--			
• 12 V DC	W	0.8					1.5			
• 24 V DC	W	0.8					1.5			
• 48 V DC	W	0.8					1.5			
• 60 V DC	W	0.8					1.5			
• 110 ... 127 V DC	W	0.8					1.5			
• 220 ... 250 V DC	W	0.8					1.5			
Max. opening time	ms	50					50			
<b>Shunt releases</b>										
Response voltage:										
Pick-up (switch tripped)	V	$U_s$					$U_s$			
		0.7 ... 1,1					0.7 ... 1,1			
Power consumption ( <b>short-time</b> ) at:										
• 24 V AC 50/60 Hz	VA	310					330			
• 48 ... 60 V AC 50/60 Hz	VA	335 ... 465					380 ... 460			
• 110 ... 127 V AC 50/60 Hz	VA	470 ... 630					330 ... 430			
• 208 ... 277 V AC 50/60 Hz	VA	585 ... 1000					520 ... 800			
• 380 ... 600 V AC 50/60 Hz	VA	180 ... 500					228 ... 750			
• 24 V DC	W	360					385			
• 48 ... 60 V DC	W	380 ... 590					480 ... 720			
• 110 ... 127 V DC	W	506 ... 680					362 ... 424			
• 220 ... 250 V DC	W	470 ... 580					418 ... 476			
Max. opening time	ms	50					50			
Max. in-service period	s	interrupts automatically, less than 10 ms					interrupts automatically, less than 10 ms			

<sup>1)</sup> On request.

Type	VL150X UL		VL150 UL		VL250 UL		VL400 UL		VL400X UL		VL800 UL		VL1200 UL		VL1600 UL	
	CG frame	DG frame	FG frame	JG frame	LG frame	MG frame	NG frame	PG frame	CG frame	DG frame	FG frame	JG frame	LG frame	MG frame	NG frame	PG frame
<b>Motorized operating mechanism</b>	--															
Motorized operating mechanism with spring energy store (synchronizable)	x															
Motorized operating mechanism	--															
Power consumption	VA/W -- < 250															
Rated control supply voltage $U_s$	50/60Hz V AC -- 42 ... 48/60 110 ... 127/220 ... 250															
	V DC -- 24 / 42 ... 48/60 110 ... 127/220 ... 250															
Fusible link (operational class gG, slow-blow characteristic)	A -- 4 2															
Miniature circuit breakers	A -- 4 2															
Primary operating range	V -- 0.85 ... 1.1 x $U_s$															
Min. command duration $U_s$	ms -- 50															
Max. command duration, connection-dependent <sup>1)</sup>	Jog/pushbutton or continuous command -- Jog/pushbutton or continuous command															
Total make-time	s -- < 5															
Break-time	s -- < 5															
Interval between the commands OFF and ON	s -- > 5															
Interval between the commands ON and OFF	s -- > 5															
Max. permissible switching frequency	1/h -- 30															
<b>Motorized operating mechanism with spring energy store (synchronizable)</b>																
Power consumption	VA/W < 100 < 200 < 250 --															
Rated control supply voltage $U_s$	50/60Hz V AC 42 ... 48 / 60 110 ... 127 / 220 ... 250 --															
	V DC 24 / 42 ... 48 / 60 110 ... 127 / 220 ... 250 --															
Fusible link (operational class gG, slow-blow characteristic)	A 4 2 --															
Miniature circuit breakers	A 4 2 --															
Primary operating range	V 0.85 ... 1.1 x $U_s$ --															
Min. command duration $U_s$	ms 50 --															
Max. command duration, connection-dependent <sup>1)</sup>	Jog/pushbutton or continuous command --															
Total make-time	ms < 100 --															
Break-time	s < 5 --															
Interval between the commands OFF and ON	s > 5 --															
Interval between the commands ON and OFF	s > 1 --															
Max. permissible switching frequency	1/h 120 60 --															

x Available

-- Not available

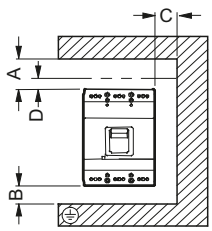
<sup>1)</sup> Changeover contact also permissible, but note the interval times between ON and OFF.

## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### General data

#### Space requirement above arc chutes, safety clearance (applicable to IEC application)



#### Arcing spaces

Minimum clearances from adjacent grounded parts and non-insulated live parts.

Inside the arcing space, bare conductors and bars must be insulated with phase barriers.

For bare conductors and bars outside the arcing space, the specific mounting instructions for the different frame sizes must be observed.

For mounting instructions, see [www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)

#### Space requirement above arcing spaces according to IEC 60947-2

Molded case circuit breaker	Breaking capacity	Minimum enclosure volume	A			B		C		D	
			≤ 415 V	>415 ... 690 V	>415 ... 690 V	≤ 690 V	≤ 690 V	≤ 690 V	≤ 690 V	≤ 690 V	
Type		m <sup>3</sup>	without/with terminal cover	without terminal cover	with terminal cover						
VL150X UL (CG frame)	Standard High Very high	0.011	35	70	35	25	25	35			
VL150 UL (DG frame)	Standard High Very high	0.011	50	100	50	25	25	35			
VL250 UL (FG frame)	Standard High Very high	0.015	50	100	50	25	25	35			
VL400 UL (JG frame)	Standard High Very high	0.036	50	100	50	25	25	35			
VL400X UL (LG frame)	Standard High Very high	0.18	50	100	50	25	25	35			
VL800 UL (MG frame)	Standard High Very high	0.22	50	100	50	25	25	35			
VL1200 UL (NG frame)	Standard High Very high	0.22	70	100	70	30	30	50			
VL1600 UL (PG frame)	Standard High Very high	0.264	100	100	100	100	30	100			

Definition of permissible safety clearances

Clearance between

- A: molded case circuit breaker and busbars (uninsulated and grounded metal); terminal cover required above 600 V AC, 500 V DC
- B: molded case circuit breaker terminal and lower panel
- C: side of the molded case circuit breaker and side panels (uninsulated and grounded metal)
- D: molded case circuit breaker and non-conductive parts with at least 3 mm thick insulation (insulator, insulated bar, painted plate)