

# Low-Voltage Power Distribution

Catalog LV 10.1 • 2013 Extract, U.S. Edition



Answers for infrastructure.

**SIEMENS**

# IEC Rated Molded Case Circuit Breakers



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**Introduction**

**3VL molded case circuit breakers  
up to 1600 A, IEC**

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Introduction

12

3-pole

36

4-pole






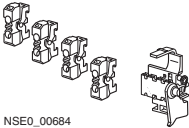
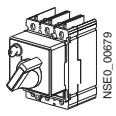
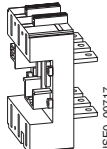
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Accessories and spare parts

# 3VL IEC Rated Molded Case Circuit Breakers

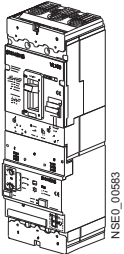

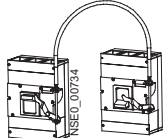
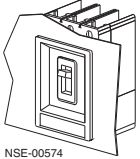
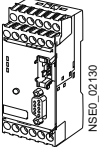
## Introduction

### Overview

Devices	Page	Applications/individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
	<a href="#">10 ... 25</a> , <a href="#">34 ... 51</a>	The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.	✓	✓	✓
	<a href="#">26 ... 29</a>	Circuit breakers for motor protection are specifically designed for the characteristic curve of the motor, and have additional function such as phase failure detection and adjustable trip class.	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.	✓	✓	✓
	<a href="#">30, 31</a>	The overload and short-circuit releases can be used for optimized protection of generators.				
	<a href="#">30, 31</a>	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.	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.	✓	✓	✓
	<a href="#">30, 31</a> , <a href="#">52, 53</a>	These circuit breakers are used as feeder circuit breakers, main control switches or disconnectors without overload protection. They have fixed short-circuit releases.	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.  Isolating features acc. to IEC 60947-2 and EN 60947-2.	✓	✓	✓
 NSE0_00684	<a href="#">58 ... 61</a>	Auxiliary switches, alarm switches, undervoltage releases and shunt releases	As for circuit breakers	✓	✓	✓
 NSE0_00679	<a href="#">62 ... 69</a>	The manual operating mechanisms are available in two versions: • Front-operated rotary operating mechanisms, • Door-coupling rotary operating mechanism  In the case of the motorized operating mechanisms there are also two versions: • MO for standard applications • SEO for network synchronization tasks	As for circuit breakers	✓	✓	✓
 NSE0_00717	<a href="#">70 ... 75</a>	Assembly in plug-in and withdrawable versions allows the 3VL molded case circuit breaker to be replaced quickly without accessing the terminals.	As for circuit breakers	✓	✓	✓

## 3VL IEC Rated Molded Case Circuit Breakers

## Introduction

Devices	Page	Applications/individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
 NSE0_00983	76	Protection of plant and personnel against damage or injury caused by residual currents and insulation faults.	As for circuit breakers	✓	✓	✓
 NSE0_00702	77 ... 82	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	✓	✓	✓
 NSE0_00784	83 ... 88	Locking devices for toggle levers, rear interlocking modules, interlocking modules for Bowden wire interlocking	As for circuit breakers	✓	✓	✓
 NSE-00574	89 ... 93	Masking frames (cover frames) for door cutouts, to increase degree of protection	As for circuit breakers	✓	✓	✓
 NSE0_02130	89	Data transmission through COM20, COM21: COM20 (PROFIBUS) for releases with communication function, COM21 (MODBUS) for releases with communication function, Switch ES Power parameterization software	As for circuit breakers	✓	✓	✓

# 3VL IEC Rated Molded Case Circuit Breakers

## Introduction

## Overview



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			
Rated operational voltage $U_e$ 50/60 Hz AC	V	690	690	690	690			
DC <sup>1)</sup>	V	500	500	600	600			
<b>Electronic Trip Units</b>								
Thermal-magnetic		✓	✓	✓	✓			
Electronic Trip Unit LCD/ETU		--	--	✓	✓			
PROFIBUS module COM20		--	--	✓	✓			
<b>Dimensions</b>								
	A	mm	105	139	105	139	139	183
	B	mm	157	157	175	175	175	279
	C	mm	81	81	81	81	81	102
	D	mm	107	107	107	107	107	138
<b>Breaking capacity <math>I_{cu}/I_{cs}</math> RMS value acc. to IEC 60947-2</b>								
<b>Standard breaking capacity N<sup>2)</sup></b>								
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>3)</sup>	12/6	12/6	15/8			
Up to 250 V DC <sup>4)</sup>	kA	30/30	32/32	32/32	32/32			
Up to 500 V DC <sup>4)</sup>	kA	--	--	--	--			
Up to 600 V DC <sup>4)</sup>	kA	--	--	--	--			
<b>NEMA breaking capacity<sup>5)</sup></b>								
Up to 480 V AC	kA	25	25	25	35			
Up to 600 V AC	kA	8 <sup>3)</sup>	12	12	20			
<b>High breaking capacity H<sup>2)</sup></b>								
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>3)</sup>	12/6	12/6	15/8			
Up to 250 V DC <sup>4)</sup>	kA	30/30	32/32	32/32	32/32			
Up to 500 V DC <sup>4)</sup>	kA	30/30	32/32	32/32	32/32			
Up to 600 V DC <sup>4)</sup>	kA	--	--	--	--			
<b>NEMA breaking capacity<sup>5)</sup></b>								
Up to 480 V AC	kA	42	50	50	50			
Up to 600 V AC	kA	12 <sup>3)</sup>	12	12	20			
<b>Very high breaking capacity L<sup>2)</sup></b>								
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>4)</sup>	kA	--	32/32	32/32	32/32			
Up to 500 V DC <sup>4)</sup>	kA	--	32/32	32/32	32/32			
Up to 600 V DC <sup>4)</sup>	kA	--	32/32	32/32	32/32			
<b>NEMA breaking capacity<sup>5)</sup></b>								
Up to 480 V AC	kA	--	75	75	75			
Up to 600 V AC	kA	--	12	12	20			

✓ Available

-- Not available

1) Rated DC voltage applies only for circuit breakers with thermal-magnetic release.

## 3VL IEC Rated Molded Case Circuit Breakers

## Introduction



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 30/30 -- -- 25 20	65/65 55/55 35/26 25/20 20/10 -- -- -- 25 20	65/35 55/28 35/26 25/20 20/10 -- -- -- 25 20	65/35 55/28 35/26 25/20 20/10 -- -- -- 25 20
100/75 70/70 50/38 40/30 20/10 30/30 30/30 --	100/75 70/70 50/38 40/30 20/10 -- -- -- 50 30	100/50 70/35 50/38 40/30 30/15 -- -- -- 50 30	100/50 70/35 50/38 40/30 30/15 -- -- -- 50 30
200/150 100/75 75/50 50/38 20/10 30/30 30/30 30/30	200/150 100/75 75/50 50/38 20/10 -- -- -- 65 35	200/100 100/50 75/50 50/38 35/17 -- -- -- 65 35	200/100 100/50 75/50 50/38 35/17 -- -- -- 65 35

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

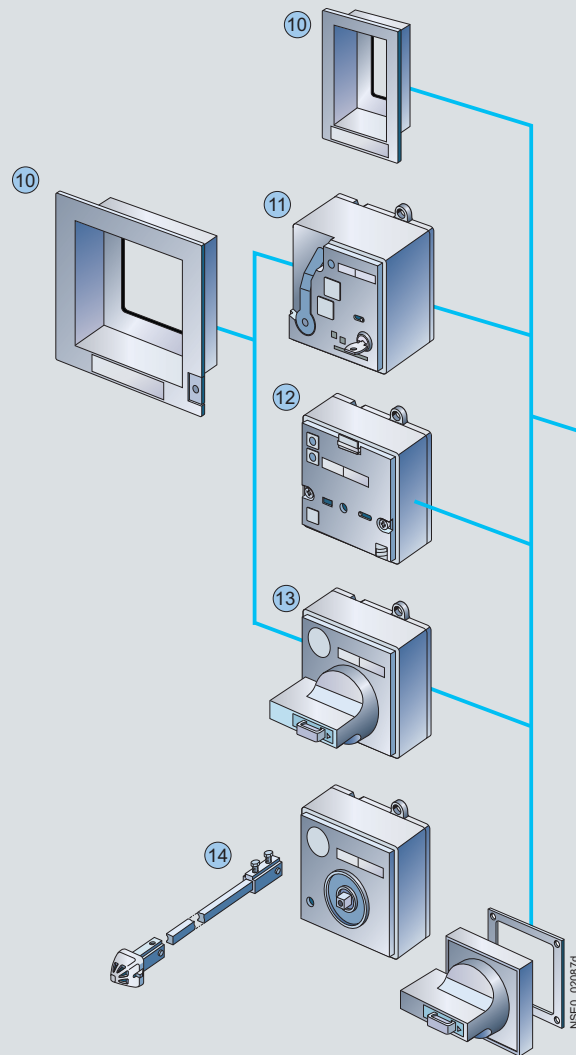
3) Rated current  $I_n \geq 25$  A.

4) 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/support](http://www.siemens.com/lowvoltage/support); time constant  $t = 15$  ms.

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

# 3VL IEC Rated Molded Case Circuit Breakers

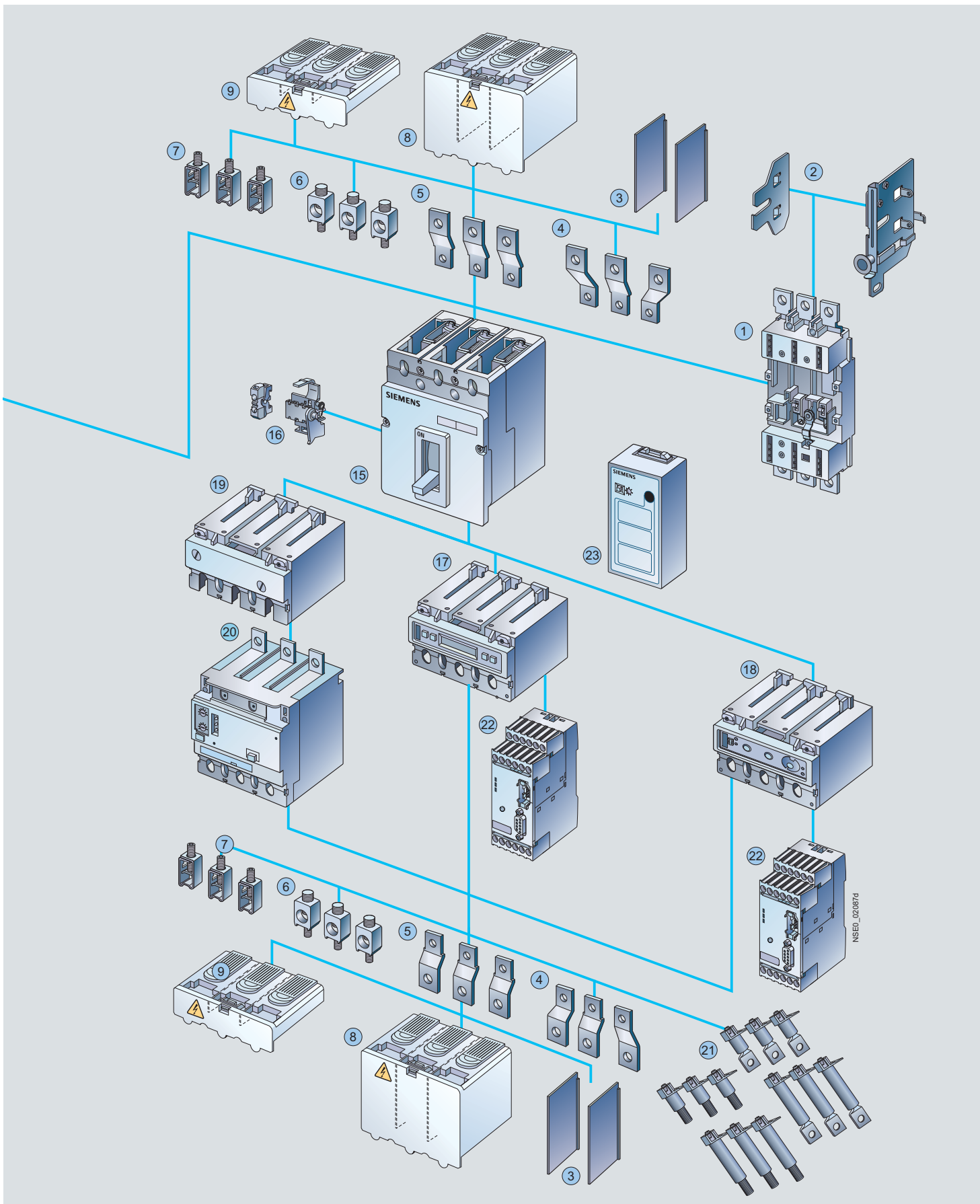
## Introduction



- ① Withdrawable/plug-in bases
- ② Side walls of withdrawable unit
- ③ Phase barriers
- ④ Flared front busbar connecting bars
- ⑤ Straight connecting bars
- ⑥ Circular conductor terminals for Al/Cu
- ⑦ Box terminals for Cu
- ⑧ Extended connection covers (terminal covers)
- ⑨ Standard connection covers (terminal covers)
- ⑩ Masking frames/cover frames for door cutout
- ⑪ Motorized operating mechanisms with stored energy mechanism (SEO)
- ⑫ Motorized operating mechanism MO
- ⑬ Front-operated rotary operating mechanisms
- ⑭ Door-coupling rotary operating mechanisms
- ⑮ 3VL molded case circuit breakers
- ⑯ Internal accessories
- ⑰ Electronic Trip Unit LCD ETU
- ⑱ Electronic Trip Units with communication function
- ⑲ Thermal/magnetic overcurrent releases
- ⑳ RCD modules
- ㉑ Rear terminals – flat and round
- ㉒ COM20/21 communication modules to the PROFIBUS DP/MODBUS
- ㉓ Battery power supplies with test function for Electronic Trip Units

# 3VL IEC Rated Molded Case Circuit Breakers

## Introduction





# 3VL IEC Rated Molded Case Circuit Breakers

## Introduction

### 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 14 to 30, 42 to 52.
- For accessories, see page 57.

### Applications

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
- Disconnecter units with features for stopping and switching off in an emergency (main control switches 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 system 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 circuit breakers, 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,  
DIN VDE 0660, Part 100,  
IEC 60947-2, EN 60947-2,  
DIN VDE 0660, Part 101.

American Bureau of Shipping (ABS) Certified  
Isolating features according to IEC 60947-2, EN 60947-2.

Disconnecting features (main control switches) according to EN 60204 and DIN VDE 0113.

The 3VL molded case circuit breakers comply in addition with requirements for "disconnecter units 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, DIN VDE 0660, Part 102.

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

# 3VL IEC Rated Molded Case Circuit Breakers

## Introduction

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### RCD modules

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

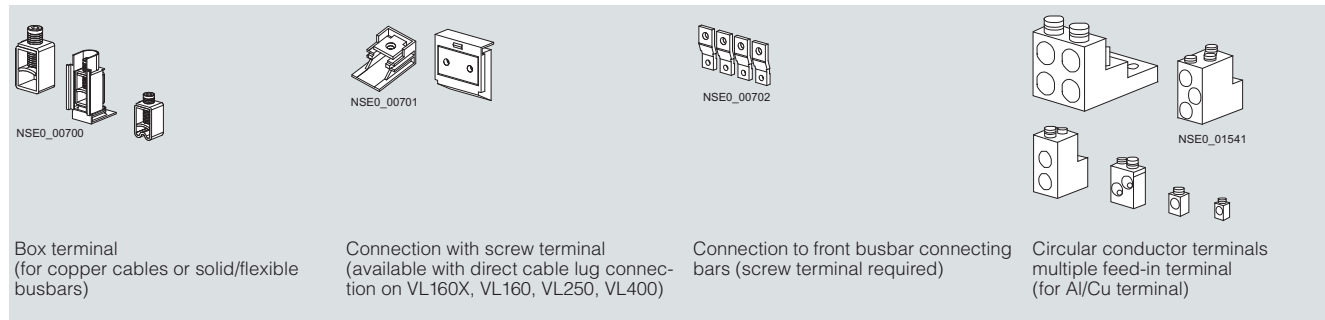
The combination of 3VL molded case circuit breaker and RCD module can be fed from the top or bottom.

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 breaker	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	<input type="checkbox"/>	<input type="checkbox"/>	x	x	x
VL160	<input type="checkbox"/>	<input type="checkbox"/>	x	x	x
VL250	<input type="checkbox"/>	<input type="checkbox"/>	x	x	x
VL400	x	O	x <sup>2)3)</sup>	x	x
VL630	x <sup>1)</sup>	O	x <sup>2)</sup>	x	x
VL800	--	O	x <sup>2)</sup>	x	x
VL1250	--	O	x <sup>2)</sup>	x	x
VL1600	--	x	--	x	O

O 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 x 10	12 x 10	17 x 10	25 x 10	--	--	--
Connecting terminal plate for flexible busbar <sup>2)</sup>		mm	--	--	--	2 units 10 x 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	Cu or Al	mm	17 x 7	22 x 7	24 x 7	32 x 10	40 x 10	2 x 40 x 10	2 x 50 x 10
• Screw for connection with screw terminal			M6	M6	M8	M8	M6	M8	M8
<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
		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

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

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

# 3VL IEC Rated Molded Case Circuit Breakers

## Introduction

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

Order No. supplement	Releases	System protection	System/generator protection	Motor protection	Starter protection	Non-automatic circuit breakers	Function	Setting options					
								L	S <sup>1)</sup>	I <sup>1)</sup>	G		
								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]	$I_1 = \times I_n$	$I_g = \times I_n$	$t_g$ [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

1) Size dependent.

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

4) Non-adjustable.

## 3VL IEC Rated Molded Case Circuit Breakers

## Introduction

Order 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 ( $t_H$ )	Thermal-magnetic releases	Magnetic releases	Electronic Trip Unit	LOD 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	✓	--	--	--	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	LCD ETU40M <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

- 1) Size dependent.  
 2) TM up to  $I_n = 630$  A.  
 3) Motor protection up to  $I_n = 500$  A.  
 4) With COM20/COM21.

✓ Function is available.

-- Function not available.

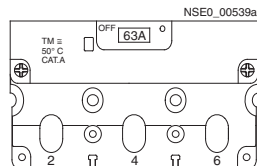
# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

### Selection and ordering data

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases $I_L$ $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)
	A	A	A	Order No.	Weight per PU approx. kg

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



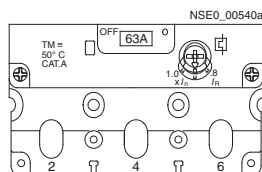
#### System protection, TM, LI function

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

VL160X/ 3VL1	16	16	300	<b>3VL17961DA3□0AA0</b>	1.900
	20	20	300	<b>3VL17021DA3□0AA0</b>	1.900
	25	25	300	<b>3VL17251DA3□0AA0</b>	2.000
	32	32	300	<b>3VL17031DA3□0AA0</b>	2.000
	40	40	600	<b>3VL17041DA3□0AA0</b>	2.000
	50	50	600	<b>3VL17051DA3□0AA0</b>	2.000
	63	63	600	<b>3VL17061DA3□0AA0</b>	2.000
	80	80	1000	<b>3VL17081DA3□0AA0</b>	2.000
	100	100	1000	<b>3VL17101DA3□0AA0</b>	2.000
	125	125	1000	<b>3VL17121DA3□0AA0</b>	2.000
	160	160	1500	<b>3VL17161DA3□0AA0</b>	2.000

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

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**



#### System protection, TM, LI function

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

VL160X/ 3VL1	20	16 ... 20	300	<b>3VL17021DD3□0AA0</b>	1.900
	32	25 ... 32	300	<b>3VL17031DD3□0AA0</b>	2.000
	40	32 ... 40	600	<b>3VL17041DD3□0AA0</b>	2.000
	50	40 ... 50	600	<b>3VL17051DD3□0AA0</b>	2.000
	63	50 ... 63	600	<b>3VL17061DD3□0AA0</b>	2.000
	80	63 ... 80	1000	<b>3VL17081DD3□0AA0</b>	2.000
	100	80 ... 100	1000	<b>3VL17101DD3□0AA0</b>	2.000
	125	100 ... 125	1000	<b>3VL17121DD3□0AA0</b>	2.000
	160	125 ... 160	1500	<b>3VL17161DD3□0AA0</b>	2.000

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

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**

# 3VL IEC Rated Molded Case Circuit Breakers

**3-pole**

<b><math>I_{cu}</math> up to 70 kA at 415 V, high breaking capacity H</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		<b><math>I_{cu}</math> up to 100 kA at 415 V, very high breaking capacity L</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	
Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg

3VL17962DA3□0AA0	1.900	--	
3VL17022DA3□0AA0	1.900	--	
3VL17252DA3□0AA0	2.000	--	
3VL17032DA3□0AA0	2.000	--	
3VL17042DA3□0AA0	2.000	--	
3VL17052DA3□0AA0	2.000	--	
3VL17062DA3□0AA0	2.000	--	
3VL17082DA3□0AA0	2.000	--	
3VL17102DA3□0AA0	2.000	--	
3VL17122DA3□0AA0	2.000	--	
3VL17162DA3□0AA0	2.000	--	

↑  
3  
6

3VL17022DD3□0AA0	1.900	--	
3VL17032DD3□0AA0	2.000	--	
3VL17042DD3□0AA0	2.000	--	
3VL17052DD3□0AA0	2.000	--	
3VL17062DD3□0AA0	2.000	--	
3VL17082DD3□0AA0	2.000	--	
3VL17102DD3□0AA0	2.000	--	
3VL17122DD3□0AA0	2.000	--	
3VL17162DD3□0AA0	2.000	--	

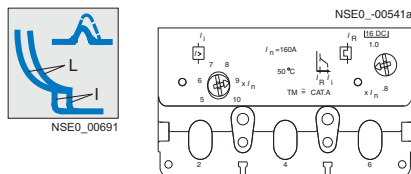
↑  
3  
6

# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)
	A	A	A	Order No.	Weight per PU approx. kg

**3-pole, fixed-mounted, for system protection, 50 A to 630 A, thermal-magnetic releases LI**



### System protection, TM, LI function

With adjustable thermal overcurrent releases, adjustable short-circuit releases

VL160/ 3VL2	50 63 80 100 125 160	40 ... 50 50 ... 63 63 ... 80 80 ... 100 100 ... 125 125 ... 160	300 ... 600 300 ... 600 400 ... 800 500 ... 1000 625 ... 1250 800 ... 1600	<b>3VL27051DC3□0AA0</b> <b>3VL27061DC3□0AA0</b> <b>3VL27081DC3□0AA0</b> <b>3VL27101DC3□0AA0</b> <b>3VL27121DC3□0AA0</b> <b>3VL27161DC3□0AA0</b>	2.200 2.200 2.200 2.200 2.200 2.200
VL250/ 3VL3	200 250	160 ... 200 200 ... 250	1000 ... 2000 1250 ... 2500	<b>3VL37201DC3□0AA0</b> <b>3VL37251DC3□0AA0</b>	2.300 2.300

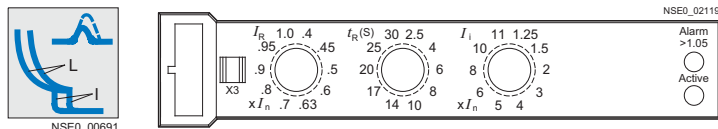
Connection type can be selected by assignment of the 12th position of Order No.

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	200 250 315 400	160 ... 200 200 ... 250 250 ... 315 320 ... 400	1000 ... 2000 1250 ... 2500 1575 ... 3150 2000 ... 4000	<b>3VL47201DC360AA0</b> <b>3VL47251DC360AA0</b> <b>3VL47311DC360AA0</b> <b>3VL47401DC360AA0</b>	5.700 5.700 5.700 5.700
VL630/3VL5	315 400 500 630	250 ... 315 320 ... 400 400 ... 500 500 ... 630	1575 ... 3150 2000 ... 4000 2500 ... 5000 3150 ... 6300	<b>3VL57311DC360AA0</b> <b>3VL57401DC360AA0</b> <b>3VL57501DC360AA0</b> <b>3VL57631DC360AA0</b>	9.000 9.000 9.000 9.000

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



### ETU10, LI function

With adjustable overcurrent releases, adjustable short-circuit releases

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<b>3VL27061□□3□0AA0</b> <b>3VL27101□□3□0AA0</b> <b>3VL27161□□3□0AA0</b>	2.400 2.400 2.400
VL250/3VL3	200 250	80 ... 200 100 ... 250	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<b>3VL37201□□3□0AA0</b> <b>3VL37251□□3□0AA0</b>	2.500 2.500

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<b>3VL47311□□360AA0</b> <b>3VL47401□□360AA0</b>	5.900 5.900
VL630/3VL5	630	525 ... 630	1.25 ... 10 × $I_n$	<b>3VL57631□□360AA0</b>	9.300
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	<b>3VL67801□□360AA0</b>	16.000
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<b>3VL77101□□360AA0</b> <b>3VL77121□□360AA0</b>	25.000 25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	<b>3VL87161□□300AA0</b>	31.300

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

SB  
MB  
LB

<sup>1)</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 57.

## 3VL IEC Rated Molded Case Circuit Breakers

3-pole

 $I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H

(H)

Order No.

Weight  
per PU  
approx.  
kg $I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L

(L)

Order No.

Weight  
per PU  
approx.  
kg3VL27052DC3□0AA0  
3VL27062DC3□0AA0  
3VL27082DC3□0AA02.200  
2.200  
2.2003VL27102DC3□0AA0  
3VL27122DC3□0AA0  
3VL27162DC3□0AA02.200  
2.200  
2.2003VL37202DC3□0AA0  
3VL37252DC3□0AA02.300  
2.3003VL27053DC3□0AA0  
3VL27063DC3□0AA0  
3VL27083DC3□0AA02.200  
2.200  
2.2003VL27103DC3□0AA0  
3VL27123DC3□0AA0  
3VL27163DC3□0AA02.200  
2.200  
2.2003VL37203DC3□0AA0  
3VL37253DC3□0AA02.300  
2.3003  
63  
63VL47202DC360AA0  
3VL47252DC360AA0  
3VL47312DC360AA0  
3VL47402DC360AA05.700  
5.700  
5.700  
5.7003VL57312DC360AA0  
3VL57402DC360AA0  
3VL57502DC360AA0  
3VL57632DC360AA09.000  
9.000  
9.000  
9.0003VL47203DC360AA0  
3VL47253DC360AA0  
3VL47313DC360AA0  
3VL47403DC360AA05.700  
5.700  
5.700  
5.7003VL57313DC360AA0  
3VL57403DC360AA0  
3VL57503DC360AA0  
3VL57633DC360AA09.000  
9.000  
9.000  
9.0003VL27062□□3□0AA0  
3VL27102□□3□0AA0  
3VL27162□□3□0AA02.400  
2.400  
2.4003VL37202□□3□0AA0  
3VL37252□□3□0AA02.500  
2.5003VL27063□□3□0AA0  
3VL27103□□3□0AA0  
3VL27163□□3□0AA02.400  
2.400  
2.4003VL37203□□3□0AA0  
3VL37253□□3□0AA02.500  
2.5003  
63  
63VL47312□□360AA0  
3VL47402□□360AA05.900  
5.900

3VL57632□□360AA0

9.300

3VL67802□□360AA0

16.000

3VL77102□□360AA0  
3VL77122□□360AA025.000  
25.000

3VL87162□□300AA0

31.300

3VL47313□□360AA0  
3VL47403□□360AA05.900  
5.900

3VL57633□□360AA0

9.300

3VL67803□□360AA0

16.000

3VL77103□□360AA0  
3VL77123□□360AA025.000  
25.000

3VL87163□□300AA0

31.300

SB  
MB  
LBSB  
MB  
LB

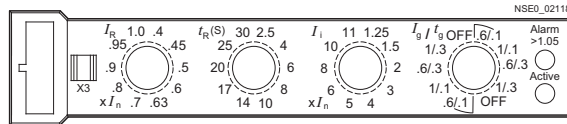


# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	Ground-fault protection "G" $I_G$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)
	A	A	A	A	Order No.	Weight per PU approx. kg

### 3-pole, fixed-mounted, for system 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	<b>3VL27061</b> □□□3□0AA0	2.400
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL27101</b> □□□3□0AA0	2.400
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL27161</b> □□□3□0AA0	2.400
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL37201</b> □□□3□0AA0	2.500
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL37251</b> □□□3□0AA0	2.500

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

- Connection with box terminal
- Connection with screw terminal

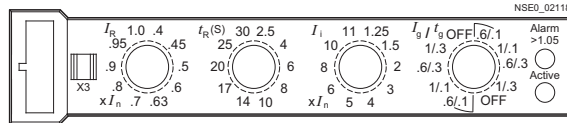
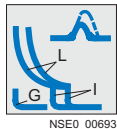
3  
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL47311</b> □□□360AA0	5.900
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL47401</b> □□□360AA0	5.900
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL57631</b> □□□360AA0	9.300
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL67801</b> □□□360AA0	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL77101</b> □□□360AA0	25.000
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL77121</b> □□□360AA0	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL87161</b> □□□300AA0	31.300

- Without communication preparation
- With communication preparation

SL  
ML

### 3-pole, fixed-mounted, for system 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 57.

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	<b>3VL27061</b> □□□3□0AA0	2.400
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL27101</b> □□□3□0AA0	2.400
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL27161</b> □□□3□0AA0	2.400
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL37201</b> □□□3□0AA0	2.500
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL37251</b> □□□3□0AA0	2.500

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL47311</b> □□□360AA0	5.900
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL47401</b> □□□360AA0	5.900
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL57631</b> □□□360AA0	9.300
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL67801</b> □□□360AA0	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL77101</b> □□□360AA0	25.000
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL77121</b> □□□360AA0	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL87161</b> □□□300AA0	31.300

- Without communication preparation
- With communication preparation

SF  
MF

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

## 3VL IEC Rated Molded Case Circuit Breakers

3-pole

 **$I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H****(H)**

Order No.

Weight  
per PU  
approx.  
kg **$I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L****(L)**

Order No.

Weight  
per PU  
approx.  
kg3VL27062□□3□0AA0  
3VL27102□□3□0AA0  
3VL27162□□3□0AA02.400  
2.400  
2.4003VL27063□□3□0AA0  
3VL27103□□3□0AA0  
3VL27163□□3□0AA02.400  
2.400  
2.4003VL37202□□3□0AA0  
3VL37252□□3□0AA02.500  
2.5003VL37203□□3□0AA0  
3VL37253□□3□0AA02.500  
2.5003  
63  
63VL47312□□360AA0  
3VL47402□□360AA05.900  
5.9003VL47313□□360AA0  
3VL47403□□360AA05.900  
5.900

3VL57632□□360AA0

9.300

3VL57633□□360AA0

9.300

3VL67802□□360AA0

16.000

3VL67803□□360AA0

16.000

3VL77102□□360AA0

25.000

3VL77103□□360AA0

25.000

3VL77122□□360AA0

25.000

3VL77123□□360AA0

25.000

3VL87162□□300AA0

31.300

3VL87163□□300AA0

31.300

SL  
MLSL  
ML3VL27062□□3□0AA0  
3VL27102□□3□0AA0  
3VL27162□□3□0AA02.400  
2.400  
2.4003VL27063□□3□0AA0  
3VL27103□□3□0AA0  
3VL27163□□3□0AA02.400  
2.400  
2.4003VL37202□□3□0AA0  
3VL37252□□3□0AA02.500  
2.5003VL37203□□3□0AA0  
3VL37253□□3□0AA02.500  
2.5003  
63  
63VL47312□□360AA0  
3VL47402□□360AA05.900  
5.9003VL47313□□360AA0  
3VL47403□□360AA05.900  
5.900

3VL57632□□360AA0

9.300

3VL57633□□360AA0

9.300

3VL67802□□360AA0

16.000

3VL67803□□360AA0

16.000

3VL77102□□360AA0

25.000

3VL77103□□360AA0

25.000

3VL77122□□360AA0

25.000

3VL77123□□360AA0

25.000

3VL87162□□300AA0

31.300

3VL87163□□300AA0

31.300

SF  
MFSF  
MF

Communication:

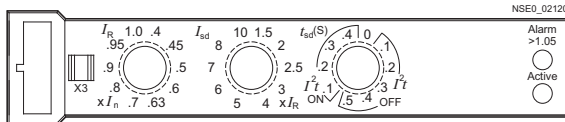
- For accessories, [see page 57](#).

# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview".	(N)
	A	A	A	A	Order No.	Weight per PU approx. kg

3-pole, fixed-mounted, for system 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 × $I_R$	<b>3VL27061</b> □□□ <b>300AA0</b>	2.400
	100	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL27101</b> □□□ <b>300AA0</b>	2.400
	160	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL27161</b> □□□ <b>300AA0</b>	2.400
VL250/3VL3	200	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL37201</b> □□□ <b>300AA0</b>	2.500
	250	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL37251</b> □□□ <b>300AA0</b>	2.500

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL47311</b> □□□ <b>360AA0</b>	5.900
	400	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL47401</b> □□□ <b>360AA0</b>	5.900
VL630/3VL5	630	0.4 ... 1.0 × $I_n$	10 × $I_n$	1.5 ... 9 × $I_R$	<b>3VL57631</b> □□□ <b>360AA0</b>	9.300
VL800/3VL6	800	0.4 ... 1.0 × $I_n$	8 × $I_n$	1.5 ... 7 × $I_R$	<b>3VL67801</b> □□□ <b>360AA0</b>	16.000
VL1250/3VL7	1000	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL77101</b> □□□ <b>360AA0</b>	25.000
	1250	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL77121</b> □□□ <b>360AA0</b>	25.000
VL1600/3VL8 <sup>1)</sup>	1600	0.4 ... 1.0 × $I_n$	9 × $I_n$	1.5 ... 8 × $I_R$	<b>3VL87161</b> □□□ <b>300AA0</b>	31.300

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

SE  
ME  
LE

<sup>1)</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 57.

# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>		$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>	
Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg

3VL27062□□3□0AA0	2.400	3VL2706-3□□3□0AA0	2.400
3VL27102□□3□0AA0	2.400	3VL2710-3□□3□0AA0	2.400
3VL27162□□3□0AA0	2.400	3VL2716-3□□3□0AA0	2.400
3VL37202□□3□0AA0	2.500	3VL3720-3□□3□0AA0	2.500
3VL37252□□3□0AA0	2.500	3VL3725-3□□3□0AA0	2.500



3VL47312□□36AA0	5.900	3VL4731-3□□360AA0	5.900
3VL47402□□360AA0	5.900	3VL4740-3□□360AA0	5.900
3VL57632□□360AA0	9.300	3VL5763-3□□360AA0	9.300
3VL67802□□360AA0	16.000	3VL6780-3□□360AA0	16.000
3VL77102□□360AA0	25.000	3VL7710-3□□360AA0	25.000
3VL77122□□360AA0	25.000	3VL7712-3□□360AA0	25.000
3VL87162□□300AA0	31.300	3VL8716-3□□300AA0	31.300

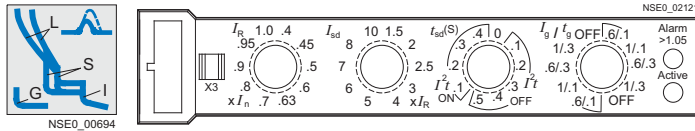


# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	S function short-circuit protection (short-time delayed) S	Ground-fault protection "G" $I_g$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview" (N)
	A	A	A	A	A	Order No.
						Weight per PU approx. kg

**3-pole, fixed-mounted, for system 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	63 100 160	25 ... 63 40 ... 100 64 ... 160	$11 \times I_n$ $11 \times I_n$ $11 \times I_n$	1.5 ... 1.5 ... 1.5 ...	$10 \times I_R$ $10 \times I_R$ $10 \times I_R$	0.6 ... 0.6 ... 0.6 ...	$1 \times I_n$ , OFF $1 \times I_n$ , OFF $1 \times I_n$ , OFF	<b>3VL27061</b> □□□ <b>300AA0</b> <b>3VL27101</b> □□□ <b>300AA0</b> <b>3VL27161</b> □□□ <b>300AA0</b>	2.400 2.400 2.400
VL250/3VL3	200 250	80 ... 200 100 ... 250	$11 \times I_n$ $11 \times I_n$	1.5 ... 1.5 ...	$10 \times I_R$ $10 \times I_R$	0.6 ... 0.6 ...	$1 \times I_n$ , OFF $1 \times I_n$ , OFF	<b>3VL37201</b> □□□ <b>300AA0</b> <b>3VL37251</b> □□□ <b>300AA0</b>	2.500 2.500

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	$11 \times I_n$ $11 \times I_n$	1.5 ... 1.5 ...	$10 \times I_R$ $10 \times I_R$	0.6 ... 0.6 ...	$1 \times I_n$ , OFF $1 \times I_n$ , OFF	<b>3VL47311</b> □□□ <b>360AA0</b> <b>3VL47401</b> □□□ <b>360AA0</b>	5.900 5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	1.5 ...	$9 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL57631</b> □□□ <b>360AA0</b>	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	1.5 ...	$7 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL67801</b> □□□ <b>360AA0</b>	16.000
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	$11 \times I_n$ $11 \times I_n$	1.5 ... 1.5 ...	$10 \times I_R$ $10 \times I_R$	0.6 ... 0.6 ...	$1 \times I_n$ , OFF $1 \times I_n$ , OFF	<b>3VL77101</b> □□□ <b>360AA0</b> <b>3VL77121</b> □□□ <b>360AA0</b>	25.000 25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	1.5 ...	$8 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL87161</b> □□□ <b>300AA0</b>	31.300

- Without communication preparation
- With communication preparation

SG  
MG

<sup>1)</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 57.

# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>		$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>	
Order No.	Weight per PU approx.	Order No.	Weight per PU approx.
	kg		kg

3VL27062□□3□0AA0	2.400	3VL27063□□3□0AA0	2.400
3VL27102□□3□0AA0	2.400	3VL27103□□3□0AA0	2.400
3VL27162□□3□0AA0	2.400	3VL27163□□3□0AA0	2.400
3VL37202□□3□0AA0	2.500	3VL37203□□3□0AA0	2.500
3VL37252□□3□0AA0	2.500	3VL37253□□3□0AA0	2.500



3VL47312□□360AA0	5.900	3VL47313□□360AA0	5.900
3VL47402□□360AA0	5.900	3VL47403□□360AA0	5.900
3VL57632□□360AA0	9.300	3VL57633□□360AA0	9.300
3VL67802□□360AA0	16.000	3VL67803□□360AA0	16.000
3VL77102□□360AA0	25.000	3VL77103□□360AA0	25.000
3VL77122□□360AA0	25.000	3VL77123□□360AA0	25.000
3VL87162□□300AA0	31.300	3VL87163□□300AA0	31.300

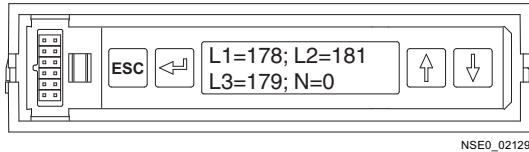
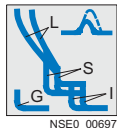


# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) S	Ground-fault protection "G" $I_g$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview"	(N)
	A	A	A	A	A	Order No.	Weight per PU approx. kg

**3-pole, fixed-mounted, for system 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  $t_g = 0.1 \dots 0.5$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s

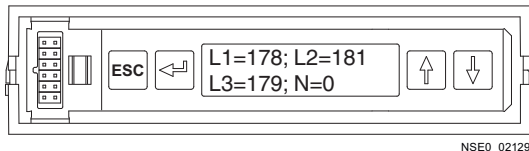
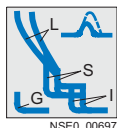
VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	$11 \times I_n$ $11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$ $0.4 \dots 1 \times I_n$ $0.4 \dots 1 \times I_n$	<b>NEW</b> <b>NEW</b> <b>NEW</b>	<b>3VL27061UL3□0AA0</b> <b>3VL27101UL3□0AA0</b> <b>3VL27161UL3□0AA0</b>	2.400 2.400 2.400
VL250/3VL3	200 250	80 ... 200 100 ... 250	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$ $0.4 \dots 1 \times I_n$	<b>NEW</b> <b>NEW</b>	<b>3VL37201UL3□0AA0</b> <b>3VL37251UL3□0AA0</b>	2.500 2.500

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$ $0.4 \dots 1 \times I_n$	<b>NEW</b> <b>NEW</b>	<b>3VL47311UL360AA0</b> <b>3VL47401UL360AA0</b>	5.900 5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	<b>NEW</b>	<b>3VL57631UL360AA0</b>	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	<b>NEW</b>	<b>3VL67801UL360AA0</b>	16.000
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$ $0.4 \dots 1 \times I_n$	<b>NEW</b> <b>NEW</b>	<b>3VL77101UL360AA0</b> <b>3VL77121UL360AA0</b>	25.000 25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	<b>NEW</b>	<b>3VL87161UL300AA0</b>	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 57.

Vectorial summation current formation, ground fault delay  $t_g = 0.1 \dots 0.5$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	$11 \times I_n$ $11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$ $0.4 \dots 1 \times I_n$ $0.4 \dots 1 \times I_n$	<b>NEW</b> <b>NEW</b> <b>NEW</b>	<b>3VL27061UM3□0AA0</b> <b>3VL27101UM3□0AA0</b> <b>3VL27161UM3□0AA0</b>	2.400 2.400 2.400
VL250/3VL3	200 250	80 ... 200 100 ... 250	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$ $0.4 \dots 1 \times I_n$	<b>NEW</b> <b>NEW</b>	<b>3VL37201UM3□0AA0</b> <b>3VL37251UM3□0AA0</b>	2.500 2.500

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$ $0.4 \dots 1 \times I_n$	<b>NEW</b> <b>NEW</b>	<b>3VL47311UM360AA0</b> <b>3VL47401UM360AA0</b>	5.900 5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	<b>NEW</b>	<b>3VL57631UM360AA0</b>	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	<b>NEW</b>	<b>3VL67801UM360AA0</b>	16.000
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$ $0.4 \dots 1 \times I_n$	<b>NEW</b> <b>NEW</b>	<b>3VL77101UM360AA0</b> <b>3VL77121UM360AA0</b>	25.000 25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	<b>NEW</b>	<b>3VL87161UM300AA0</b>	31.300

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

## 3VL IEC Rated Molded Case Circuit Breakers

3-pole

 $I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H

(H)

Order No.

Weight  
per PU  
approx.

kg

 $I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L

(L)

Order No.

Weight  
per PU  
approx.

kg

NEW

3VL27062UL3□0AA0	2.400
3VL27102UL3□0AA0	2.400
3VL27162UL3□0AA0	2.400
3VL37202UL3□0AA0	2.500
3VL37252UL3□0AA0	2.500

NEW

3VL27063UL3□0AA0	2.400
3VL27103UL3□0AA0	2.400
3VL27163UL3□0AA0	2.400
3VL37203UL3□0AA0	2.500
3VL37253UL3□0AA0	2.500

3

6

3

6

3VL47312UL360AA0	5.900	3VL47313UL360AA0	5.900
3VL47402UL360AA0	5.900	3VL47403UL360AA0	5.900
3VL57632UL360AA0	9.300	3VL57633UL360AA0	9.300
3VL67802UL360AA0	16.000	3VL67803UL360AA0	16.000
3VL77102UL360AA0	25.000	3VL77103UL360AA0	25.000
3VL77122UL360AA0	25.000	3VL77123UL360AA0	25.000
3VL87162UL300AA0	31.300	3VL87163UL300AA0	31.300

NEW

3VL27062UM3□0AA0	2.400
3VL27102UM3□0AA0	2.400
3VL27162UM3□0AA0	2.400
3VL37202UM3□0AA0	2.500
3VL37252UM3□0AA0	2.500

NEW

3VL27063UM3□0AA0	2.400
3VL27103UM3□0AA0	2.400
3VL27163UM3□0AA0	2.400
3VL37203UM3□0AA0	2.500
3VL37253UM3□0AA0	2.500

3

6

3

6

3VL47312UM360AA0	5.900	3VL47313UM360AA0	5.900
3VL47402UM360AA0	5.900	3VL47403UM360AA0	5.900
3VL57632UM360AA0	9.300	3VL57633UM360AA0	9.300
3VL67802UM360AA0	16.000	3VL67803UM360AA0	16.000
3VL77102UM360AA0	25.000	3VL77103UM360AA0	25.000
3VL77122UM360AA0	25.000	3VL77123UM360AA0	25.000
3VL87162UM300AA0	31.300	3VL87163UM300AA0	31.300

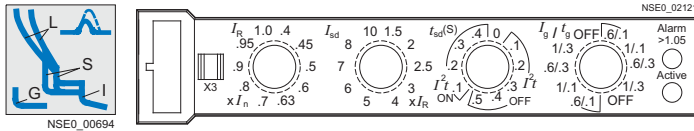


# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) S	Ground-fault protection "G" $I_g$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview".	(N)
	A	A	A	A	A	Order No.	Weight per PU approx.
							kg

3-pole, fixed-mounted, for system 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 57.

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 ...	$10 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL27061□□3□0AA0</b>	2.400
	100	40 ... 100	$11 \times I_n$	1.5 ...	$10 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL27101□□3□0AA0</b>	2.400
	160	64 ... 160	$11 \times I_n$	1.5 ...	$10 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL27161□□3□0AA0</b>	2.400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	1.5 ...	$10 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL37201□□3□0AA0</b>	2.500
	250	100 ... 250	$11 \times I_n$	1.5 ...	$10 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL37251□□3□0AA0</b>	2.500

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	1.5 ...	$10 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL47311□□360AA0</b>	5.900
	400	160 ... 400	$11 \times I_n$	1.5 ...	$10 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL47401□□360AA0</b>	5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	1.5 ...	$9 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL57631□□360AA0</b>	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	1.5 ...	$7 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL67801□□360AA0</b>	16.000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	1.5 ...	$10 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL77101□□360AA0</b>	25.000
	1250	500 ... 1250	$11 \times I_n$	1.5 ...	$10 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL77121□□360AA0</b>	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	1.5 ...	$8 \times I_R$	0.6 ...	$1 \times I_n$ , OFF	<b>3VL87161□□300AA0</b>	31.300

- Without communication preparation
- With communication preparation

SH  
MH

<sup>1)</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 57.

# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>		$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>	
Order No.	Weight per PU approx.	Order No.	Weight per PU approx.
	kg		kg

3VL27062□□3□0AA0	2.400	3VL27063□□3□0AA0	2.400
3VL27102□□3□0AA0	2.400	3VL27103□□3□0AA0	2.400
3VL27162□□3□0AA0	2.400	3VL27163□□3□0AA0	2.400
3VL37202□□3□0AA0	2.500	3VL37203□□3□0AA0	2.500
3VL37252□□3□0AA0	2.500	3VL37253□□3□0AA0	2.500



3VL47312□□360AA0	5.900	3VL47313□□360AA0	5.900
3VL47402□□360AA0	5.900	3VL47403□□360AA0	5.900
3VL57632□□360AA0	9.300	3VL57633□□360AA0	9.300
3VL67802□□360AA0	16.000	3VL67803□□360AA0	16.000
3VL77102□□360AA0	25.000	3VL77103□□360AA0	25.000
3VL77122□□360AA0	25.000	3VL77123□□360AA0	25.000
3VL87162□□300AA0	31.300	3VL87163□□300AA0	31.300

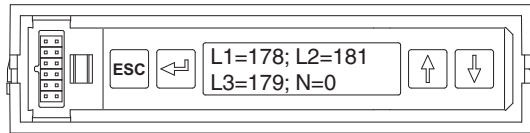


# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) S	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview".	(N)
	A	A	A	A	Order No.	Weight per PU approx. kg

3-pole, fixed-mounted, for system 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) NEW

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$	<b>3VL27061UH3□0AA0</b> <b>3VL27101UH3□0AA0</b> <b>3VL27161UH3□0AA0</b>	2.400 2.400 2.400
VL250/3VL3	200 250	80 ... 200 100 ... 250	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$	<b>3VL37201UH3□0AA0</b> <b>3VL37251UH3□0AA0</b>	2.500 2.500

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$	<b>3VL47311UH360AA0</b> <b>3VL47401UH360AA0</b>	5.900 5.900
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	1.5 ... $9 \times I_R$	<b>3VL57631UH360AA0</b>	9.300
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	1.5 ... $7 \times I_R$	<b>3VL67801UH360AA0</b>	16.000
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$	<b>3VL77101UH360AA0</b> <b>3VL77121UH360AA0</b>	25.000 25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	1.5 ... $8 \times I_R$	<b>3VL87161UH300AA0</b>	31.300

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

## 3VL IEC Rated Molded Case Circuit Breakers

3-pole

 **$I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H****H**

Order No.

Weight  
per PU  
approx.

kg

 **$I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L****L**

Order No.

Weight  
per PU  
approx.

kg

NEW

3VL27062UH3□0AA0	2.400
3VL27102UH3□0AA0	2.400
3VL27162UH3□0AA0	2.400
3VL37202UH3□0AA0	2.500
3VL37252UH3□0AA0	2.500

NEW

3VL27063UH3□0AA0	2.400
3VL27103UH3□0AA0	2.400
3VL27163UH3□0AA0	2.400
3VL37203UH3□0AA0	2.500
3VL37253UH3□0AA0	2.500

3  
63  
6

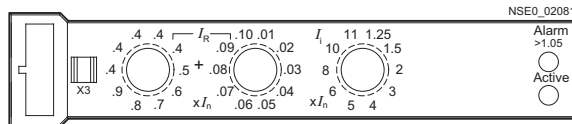
3VL47312UH360AA0	5.900	3VL47313UH360AA0	5.900
3VL47402UH360AA0	5.900	3VL47403UH360AA0	5.900
3VL57632UH360AA0	9.300	3VL57633UH360AA0	9.300
3VL67802UH360AA0	16.000	3VL67803UH360AA0	16.000
3VL77102UH360AA0	25.000	3VL77103UH360AA0	25.000
3VL77122UH360AA0	25.000	3VL77123UH360AA0	25.000
3VL87162UH300AA0	31.300	3VL87163UH300AA0	31.300

# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview"	(N)
	A	A	A	Order No.	Weight per PU approx. kg

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



### ETU10M, LI function

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

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	3VL27061□□3□0AA0 3VL27101□□3□0AA0 3VL27161□□3□0AA0	2.400 2.400 2.400
VL250/3VL3	200 250	80 ... 200 100 ... 250	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	3VL37201□□3□0AA0 3VL37251□□3□0AA0	2.500 2.500

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

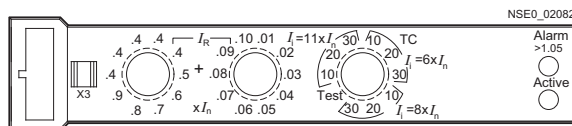
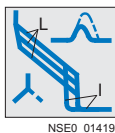
- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	125 ... 315	1.25 ... $11 \times I_n$	3VL47311□□360AA0	5.900
VL630/3VL5	500	200 ... 500	1.25 ... $12.5 \times I_n$	3VL57501□□360AA0	9.300

- Without communication preparation
- With communication preparation

SP  
MP



### ETU30M, LI function

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

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	$6/8/11 \times I_n$ $6/8/11 \times I_n$ $6/8/11 \times I_n$	3VL27061□□3□0AA0 3VL27101□□3□0AA0 3VL27161□□3□0AA0	2.400 2.400 2.400
VL250/3VL3	200 250	80 ... 200 100 ... 250	$6/8/11 \times I_n$ $6/8/11 \times I_n$	3VL37201□□3□0AA0 3VL37251□□3□0AA0	2.500 2.500

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	125 ... 315	$6/8/11 \times I_n$	3VL47311□□360AA0	5.900
VL630/3VL5	500	200 ... 500	$6/8/12.5 \times I_n$	3VL57501□□360AA0	9.300

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

SS  
MS  
LS

Communication:

- For accessories, see page 57.

# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H		(H)	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L			(L)
Order No.	Weight per PU approx.		Order No.	P	Weight per PU approx.	
	kg				kg	

3VL27062□□3□0AA0	2.400	3VL27063□□3□0AA0	2.400
3VL27102□□3□0AA0	2.400	3VL27103□□3□0AA0	2.400
3VL27162□□3□0AA0	2.400	3VL27163□□3□0AA0	2.400
3VL37202□□3□0AA0	2.500	3VL37203□□3□0AA0	2.500
3VL37252□□3□0AA0	2.500	3VL37253□□3□0AA0	2.500
3 6		3 6	
3VL47312□□360AA0	5.900	3VL47313□□360AA0	5.900
3VL57502□□360AA0	9.300	3VL57503□□360AA0	9.300
SP MP		SP MP	

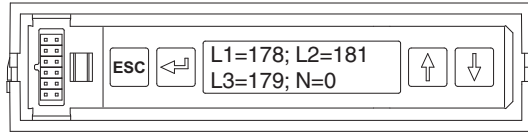
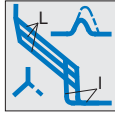
3VL27062□□3□0AA0	2.400	3VL27063□□3□0AA0	2.400
3VL27102□□3□0AA0	2.400	3VL27103□□3□0AA0	2.400
3VL27162□□3□0AA0	2.400	3VL27163□□3□0AA0	2.400
3VL37202□□3□0AA0	2.500	3VL37203□□3□0AA0	2.500
3VL37252□□3□0AA0	2.500	3VL37253□□3□0AA0	2.500
3 6		3 6	
3VL47312□□360AA0	5.900	3VL47313□□360AA0	5.900
3VL57502□□360AA0	9.300	3VL57503□□360AA0	9.300
SS MS LS		SS MS LS	

# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview"	(N)
	A	A	A	Order No.	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

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 ... 11 × $I_n$	<b>NEW</b>	<b>3VL27061UP3□0AA0</b>	2.400
	100	40 ... 100	1.25 ... 11 × $I_n$	<b>NEW</b>	<b>3VL27101UP3□0AA0</b>	2.400
	160	64 ... 160	1.25 ... 11 × $I_n$	<b>NEW</b>	<b>3VL27161UP3□0AA0</b>	2.400
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$	<b>NEW</b>	<b>3VL37201UP3□0AA0</b>	2.500
	250	100 ... 250	1.25 ... 11 × $I_n$	<b>NEW</b>	<b>3VL37251UP3□0AA0</b>	2.500

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

- Connection with box terminal
- Connection with screw terminal



3  
6

VL400/3VL4	315	128 ... 315	1.25 ... 11 × $I_n$	<b>NEW</b>	<b>3VL47311UP360AA0</b>	5.900
VL630/3VL5	500	250 ... 500	1.25 ... 11 × $I_n$	<b>NEW</b>	<b>3VL57501UP360AA0</b>	9.300

# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>		$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>	
Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg

			
3VL27062UP3□0AA0	2.400	3VL27063UP3□0AA0	2.400
3VL27102UP3□0AA0	2.400	3VL27103UP3□0AA0	2.400
3VL27162UP3□0AA0	2.400	3VL27163UP3□0AA0	2.400
3VL37202UP3□0AA0	2.500	3VL37203UP3□0AA0	2.500
3VL37252UP3□0AA0	2.500	3VL37253UP3□0AA0	2.500
<div style="border: 1px solid black; padding: 2px; display: inline-block;">3 6</div>		<div style="border: 1px solid black; padding: 2px; display: inline-block;">3 6</div>	
3VL47312UP360AA0	5.900	3VL47313UP360AA0	5.900
3VL57502UP360AA0	9.300	3VL57503UP360AA0	9.300

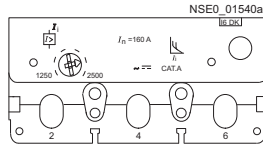


# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

Type	Rated current $I_n$	Operating current of the instantaneous short-circuit releases $I'$ $I_i$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview".	(N)
	A		Order No.	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

Without overcurrent release, with adjustable short-circuit release

VL160/3VL2	63 100 160	450 ... 900 750 ... 1500 1250 ... 2500	<b>3VL27061DK3□0AA0</b> <b>3VL27101DK3□0AA0</b> <b>3VL27161DK3□0AA0</b>	2.200 2.200 2.200
VL250/3VL3	250	1750 ... 3500	<b>3VL37251DK3□0AA0</b>	2.300

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	200 250 315	1250 ... 2500 2000 ... 4000 2000 ... 4000	<b>3VL47201DK360AA0</b> <b>3VL47251DK360AA0</b> <b>3VL47311DK360AA0</b>	5.700 5.700 5.700
VL630/3VL5	315 500	2000 ... 4000 3250 ... 6300	<b>3VL57311DK360AA0</b> <b>3VL57501DK360AA0</b>	9.000 9.000

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



#### Non-automatic molded case circuit breakers, I function

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

VL160X/3VL1	100 160	1800 1800	<b>3VL17101DE3□0AA0</b> <b>3VL17161DE3□0AA0</b>	2.000 2.000
VL160/3VL2	100 160	2500 2500	<b>3VL27101DE3□0AA0</b> <b>3VL27161DE3□0AA0</b>	2.200 2.200
VL250/3VL3	250	3500	<b>3VL37251DE3□0AA0</b>	2.300

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

- Connection with box terminal
- Connection with screw terminal not in conjunction with RCD module at 3VL1

3  
6

VL400/3VL4	400	4000	<b>3VL47401DE360AA0</b>	5.700
VL630/3VL5	630	6300	<b>3VL57631DE360AA0</b>	9.000
VL800/3VL6	800	6500	<b>3VL67801DE360AA0</b>	15.700
VL1250/3VL7	1250	12000	<b>3VL77121DE360AA0</b>	23.500
VL1600/3VL8 <sup>1)</sup>	1600	14400	<b>3VL87161DE300AA0</b>	29.800

For further versions, including for short-circuit and ground fault protection, see pages 14 to 30.

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

## 3VL IEC Rated Molded Case Circuit Breakers

3-pole

 $I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H

H

Order No.

Weight  
per PU  
approx.

kg

 $I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L

Order No.

3VL27062DK3□0AA0  
3VL27102DK3□0AA0  
3VL27162DK3□0AA02.200  
2.200  
2.200

3VL37252DK3□0AA0

2.300

3VL27063DK3□0AA0  
3VL27103DK3□0AA0  
3VL27163DK3□0AA0

3VL37253DK3□0AA0

3  
63  
63VL47202DK360AA0  
3VL47252DK360AA0  
3VL47312DK360AA05.700  
5.700  
5.7003VL57312DK360AA0  
3VL57502DK360AA09.000  
9.0003VL47203DK360AA0  
3VL47253DK360AA0  
3VL47313DK360AA03VL57313DK360AA0  
3VL57503DK360AA03VL17102DE3□0AA0  
3VL17162DE3□0AA02.000  
2.0003VL27102DE3□0AA0  
3VL27162DE3□0AA02.200  
2.200

3VL37252DE3□0AA0

2.300

--  
--3VL27103DE3□0AA0  
3VL27163DE3□0AA0

3VL37253DE3□0AA0

3  
63  
6

3VL47402DE360AA0

5.700

3VL57632DE360AA0

9.000

3VL67802DE360AA0

15.700

3VL77122DE360AA0

23.500

3VL87162DE300AA0

29.800

3VL47403DE360AA0

3VL57633DE360AA0


















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3VL77123DE360AA0

3VL87163DE300AA0

# 3VL IEC Rated Molded Case Circuit Breakers

## 3-pole

Order No. supplement (for complete Order No., see pages 14 to 30) 3VL.7 ... □□3-...	Breaking capacity	Type VL160 3VL2	VL250 3VL3		VL400 3VL4		VL630 3VL5		VL800 3VL6		VL1250 3VL7		VL1600 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
<b>Price</b>														
ETU10	<b>S B</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	<b>M B</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	<b>L B</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU12	<b>S L</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU12	<b>M L</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU12	<b>S F</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU12	<b>M F</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	<b>S E</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	<b>M E</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	<b>L E</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU22	<b>S G</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU22	<b>M G</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU42	<b>U L</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU42	<b>U M</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU22	<b>S H</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU22	<b>M H</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU40	<b>U H</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ Available  
 -- Not available

# 3VL IEC Rated Molded Case Circuit Breakers

3-pole

Order No. supplement (for complete Order No., see pages 14 to 30) <b>3VL.7 ... □□3-...</b>	Breaking capacity	Type	VL160		VL250		VL400		VL630		VL800		VL1250		VL1600	
		3VL2	3VL3		3VL4		3VL5		3VL6		3VL7		3VL8			
Releases		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		
<b>Price</b>																
ETU10M <b>SP</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10M <b>MP</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU30M <b>SS</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU30M <b>MS</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU30M <b>LS</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU40M <b>UP</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ Available  
 -- Not available

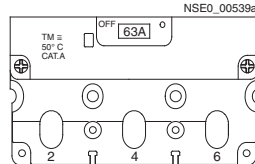
# 3VL IEC Rated Molded Case Circuit Breakers

## 4-pole

### Selection and ordering data

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases $I_L$ $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	$I_{CU}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)
	A	A	A	Order No.	Weight per PU approx. kg

4-pole, fixed-mounted, for system protection, 16 A to 630 A, thermal-magnetic trip units LI



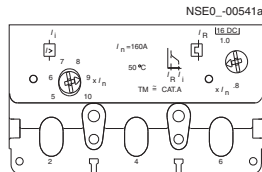
#### System protection, TM, LI function

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

VL160X/3VL1	16	16	300	3VL17961EH4□0AA0	2.300
	20	20	300	3VL17021EH4□0AA0	2.300
	25	25	300	3VL17251EH4□0AA0	2.500
	32	32	300	3VL17031EH4□0AA0	2.500
	40	40	600	3VL17041EH4□0AA0	2.500
	50	50	600	3VL17051EH4□0AA0	2.500
	63	63	600	3VL17061EH4□0AA0	2.500
	80	80	1000	3VL17081EH4□0AA0	2.500
	100	100	1000	3VL17101EH4□0AA0	2.500
	125	125	1000	3VL17121EH4□0AA0	2.500
	160	160	1500	3VL17161EH4□0AA0	2.500

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

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**



#### System protection, TM, LI function

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

VL160/3VL2	50	40 ... 50	300 ... 600	3VL27051EJ4□0AA0	3.000
	63	50 ... 63	300 ... 600	3VL27061EJ4□0AA0	3.000
	80	63 ... 80	400 ... 800	3VL27081EJ4□0AA0	3.000
	100	80 ... 100	500 ... 1000	3VL27101EJ4□0AA0	3.000
	125	100 ... 125	625 ... 1250	3VL27121EJ4□0AA0	3.000
	160	125 ... 160	800 ... 1600	3VL27161EJ4□0AA0	3.000
VL250/3VL3	200	160 ... 200	1000 ... 2000	3VL37201EJ4□0AA0	3.200
	250	200 ... 250	1250 ... 2500	3VL37251EJ4□0AA0	3.200

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

- Connection with box terminal **3**
- Connection with screw terminal **6**

VL400/3VL4	200	160 ... 200	1000 ... 2000	3VL47201EJ460AA0	7.400
	250	200 ... 250	1250 ... 2500	3VL47251EJ460AA0	7.400
	315	250 ... 315	1575 ... 3150	3VL47311EJ460AA0	7.400
	400	320 ... 400	2000 ... 4000	3VL47401EJ460AA0	7.400
VL630/3VL5	315	250 ... 315	1575 ... 3150	3VL57311EJ460AA0	11.200
	400	320 ... 400	2000 ... 4000	3VL57401EJ460AA0	11.200
	500	400 ... 500	2500 ... 5000	3VL57501EJ460AA0	11.200
	630	500 ... 630	3150 ... 6300	3VL57631EJ460AA0	11.200

## 3VL IEC Rated Molded Case Circuit Breakers

4-pole

 **$I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H****H**

Order No.

Weight  
per PU  
approx.  
kg **$I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L****L**

Order No.

Weight  
per PU  
approx.  
kg

3VL17962EH4□0AA0	2.300
3VL17022EH4□0AA0	2.300
3VL17252EH4□0AA0	2.500
3VL17032EH4□0AA0	2.500
3VL17042EH4□0AA0	2.500
3VL17052EH4□0AA0	2.500
3VL17062EH4□0AA0	2.500
3VL17082EH4□0AA0	2.500
3VL17102EH4□0AA0	2.500
3VL17122EH4□0AA0	2.500
3VL17162EH4□0AA0	2.500

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--	--
--	--
--	--
--	--

3  
6

3VL27052EJ4□0AA0	3.000
3VL27062EJ4□0AA0	3.000
3VL27082EJ4□0AA0	3.000
3VL27102EJ4□0AA0	3.000
3VL27122EJ4□0AA0	3.000
3VL27162EJ4□0AA0	3.000
3VL37202EJ4□0AA0	3.200
3VL37252EJ4□0AA0	3.200

3VL27053EJ4□0AA0	3.000
3VL27063EJ4□0AA0	3.000
3VL27083EJ4□0AA0	3.000
3VL27103EJ4□0AA0	3.000
3VL27123EJ4□0AA0	3.000
3VL27163EJ4□0AA0	3.000
3VL37203EJ4□0AA0	3.200
3VL37253EJ4□0AA0	3.200

3  
63  
6

3VL47202EJ460AA0	7.400
3VL47252EJ460AA0	7.400
3VL47312EJ460AA0	7.400
3VL47402EJ460AA0	7.400

3VL47203EJ460AA0	7.400
3VL47253EJ460AA0	7.400
3VL47313EJ460AA0	7.400
3VL47403EJ460AA0	7.400

3VL57312EJ460AA0	11.200
3VL57402EJ460AA0	11.200
3VL57502EJ460AA0	11.200
3VL57632EJ460AA0	11.200

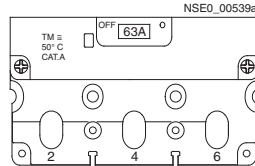
3VL57313EJ460AA0	11.200
3VL57403EJ460AA0	11.200
3VL57503EJ460AA0	11.200
3VL57633EJ460AA0	11.200

# 3VL IEC Rated Molded Case Circuit Breakers

## 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases $I_L$ $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N <a href="#">See "Overview"</a>	(N)
	A	A	A	Order No.	Weight per PU approx. kg

4-pole, fixed-mounted, for system protection, 16 A to 160 A, thermal-magnetic trip units LIN



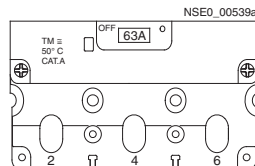
### System protection, TM, LIN function

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

VL160X/3VL1	16	16	300	<b>3VL17961EA4□0AA0</b>	2.300
	20	20	300	<b>3VL17021EA4□0AA0</b>	2.300
	25	25	300	<b>3VL17251EA4□0AA0</b>	2.500
	32	32	300	<b>3VL17031EA4□0AA0</b>	2.500
	40	40	600	<b>3VL17041EA4□0AA0</b>	2.500
	50	50	600	<b>3VL17051EA4□0AA0</b>	2.500
	63	63	600	<b>3VL17061EA4□0AA0</b>	2.500
	80	80	1000	<b>3VL17081EA4□0AA0</b>	2.500
	100	100	1000	<b>3VL17101EA4□0AA0</b>	2.500
	125	125	1000	<b>3VL17121EL4□0AA0</b>	2.500
	160	160	1500	<b>3VL17161EL4□0AA0</b>	2.500

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

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**



### System 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	125	125	1000	<b>3VL17121EA4□0AA0</b>	2.500
	160	160	1500	<b>3VL17161EA4□0AA0</b>	2.500

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

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**

# 3VL IEC Rated Molded Case Circuit Breakers

**4-pole**

$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H)		$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L)	
Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg

3VL17962EA4□0AA0	2,300	--
3VL17022EA4□0AA0	2,300	--
3VL17252EA4□0AA0	2,500	--
3VL17032EA4□0AA0	2,500	--
3VL17042EA4□0AA0	2,500	--
3VL17052EA4□0AA0	2,500	--
3VL17062EA4□0AA0	2,500	--
3VL17082EA4□0AA0	2,500	--
3VL17102EA4□0AA0	2,500	--
3VL17122EL4□0AA0	2,500	--
3VL17162EL4□0AA0	2,500	--

3  
6

3VL17122EA4□0AA0	2,500	--
3VL17162EA4□0AA0	2,500	--

3  
6

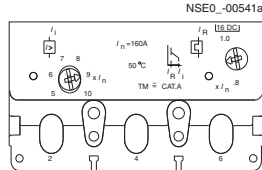


# 3VL IEC Rated Molded Case Circuit Breakers

## 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)
	A	A	A	Order No.	Weight per PU approx. kg

4-pole, fixed-mounted, for system protection, 16 A to 630 A, thermal-magnetic trip units LIN



### System protection, TM, LIN function

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

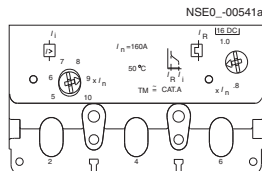
VL160/3VL2	50 63 80 100 125 160	40 ... 50 50 ... 63 63 ... 80 80 ... 100 100 ... 125 125 ... 160	300 ... 600 300 ... 600 400 ... 800 500 ... 1000 625 ... 1250 800 ... 1600	3VL27051EM4□0AA0 3VL27061EM4□0AA0 3VL27081EM4□0AA0 3VL27101EM4□0AA0 3VL27121EM4□0AA0 3VL27161EM4□0AA0	3.000 3.000 3.000 3.000 3.000 3.000
VL250/3VL3	200 250	160 ... 200 200 ... 250	1000 ... 2000 1250 ... 2500	3VL37201EM4□0AA0 3VL37251EM4□0AA0	3.200 3.200

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	200 250 315 400	160 ... 200 200 ... 250 250 ... 315 320 ... 400	1000 ... 2000 1250 ... 2500 1575 ... 3150 2000 ... 4000	3VL47201EM460AA0 3VL47251EM460AA0 3VL47311EM460AA0 3VL47401EM460AA0	7.400 7.400 7.400 7.400
VL630/3VL5	315 400 500 630	250 ... 315 320 ... 400 400 ... 500 500 ... 630	1575 ... 3150 2000 ... 4000 2500 ... 5000 3150 ... 6300	3VL57311EM460AA0 3VL57401EM460AA0 3VL57501EM460AA0 3VL57631EM460AA0	11.200 11.200 11.200 11.200



### System 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	125 160	100 ... 125 125 ... 160	625 ... 1250 800 ... 1600	3VL27121EC4□0AA0 3VL27161EC4□0AA0	3.000 3.000
VL250/3VL3	200 250	160 ... 200 200 ... 250	1000 ... 2000 1250 ... 2500	3VL37201EC4□0AA0 3VL37251EC4□0AA0	3.200 3.200

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	200 250 315 400	160 ... 200 200 ... 250 250 ... 315 320 ... 400	1000 ... 2000 1250 ... 2500 1575 ... 3150 2000 ... 4000	3VL47201EC460AA0 3VL47251EC460AA0 3VL47311EC460AA0 3VL47401EC460AA0	7.400 7.400 7.400 7.400
VL630/3VL5	315 400 500 630	250 ... 315 320 ... 400 400 ... 500 500 ... 630	1575 ... 3150 2000 ... 4000 2500 ... 5000 3150 ... 6300	3VL57311EC460AA0 3VL57401EC460AA0 3VL57501EC460AA0 3VL57631EC460AA0	11.200 11.200 11.200 11.200

## 3VL IEC Rated Molded Case Circuit Breakers

4-pole

 $I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H

(H)

Order No.

U

Weight  
per PU  
approx.  
kg $I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L

(L)

Order No.

Weight  
per PU  
approx.  
kg

3VL27052EM4□0AA0	3.000
3VL27062EM4□0AA0	3.000
3VL27082EM4□0AA0	3.000
3VL27102EM4□0AA0	3.000
3VL27122EM4□0AA0	3.000
3VL27162EM4□0AA0	3.000

3VL37202EM4□0AA0	3.200
3VL37252EM4□0AA0	3.200

3VL27053EM4□0AA0	3.000
3VL27063EM4□0AA0	3.000
3VL27083EM4□0AA0	3.000
3VL27103EM4□0AA0	3.000
3VL27123EM4□0AA0	3.000
3VL27163EM4□0AA0	3.000

3VL37203EM4□0AA0	3.200
3VL37253EM4□0AA0	3.200

3  
63  
6

3VL47202EM460AA0	7.400
3VL47252EM460AA0	7.400
3VL47312EM460AA0	7.400
3VL47402EM460AA0	7.400

3VL57312EM460AA0	11.200
3VL57402EM460AA0	11.200
3VL57502EM460AA0	11.200
3VL57632EM460AA0	11.200

3VL47203EM460AA0	7.400
3VL47253EM460AA0	7.400
3VL47313EM460AA0	7.400
3VL47403EM460AA0	7.400

3VL57313EM460AA0	11.200
3VL57403EM460AA0	11.200
3VL57503EM460AA0	11.200
3VL57633EM460AA0	11.200

3VL27122EC4□0AA0	3.000
3VL27162EC4□0AA0	3.000

3VL37202EC4□0AA0	3.200
3VL37252EC4□0AA0	3.200

3VL27123EC4□0AA0	3.000
3VL27163EC4□0AA0	3.000

3VL37203EC4□0AA0	3.200
3VL37253EC4□0AA0	3.200

3  
63  
6

3VL47202EC460AA0	7.400
3VL47252EC460AA0	7.400
3VL47312EC460AA0	7.400
3VL47402EC460AA0	7.400

3VL57312EC460AA0	11.200
3VL57402EC460AA0	11.200
3VL57502EC460AA0	11.200
3VL57632EC460AA0	11.200

3VL47203EC460AA0	7.400
3VL47253EC460AA0	7.400
3VL47313EC460AA0	7.400
3VL47403EC460AA0	7.400

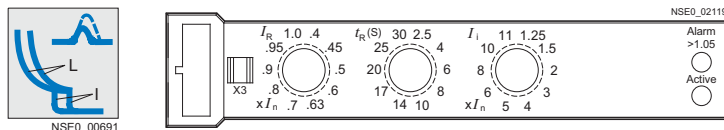
3VL57313EC460AA0	11.200
3VL57403EC460AA0	11.200
3VL57503EC460AA0	11.200
3VL57633EC460AA0	11.200

# 3VL IEC Rated Molded Case Circuit Breakers

## 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	$I_{CU}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview"	(N)
	A	A	A	Order No.	Weight per PU approx. kg

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



#### ETU10, LI function

With adjustable overcurrent releases, adjustable short-circuit releases

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<b>3VL27061□□4□0AA0</b> <b>3VL27101□□4□0AA0</b> <b>3VL27161□□4□0AA0</b>	3.100 3.100 3.100
VL250/3VL3	200 250	80 ... 200 100 ... 250	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<b>3VL37201□□4□0AA0</b> <b>3VL37251□□4□0AA0</b>	3.300 3.300

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

- Connection with box terminal
- Connection with screw terminal

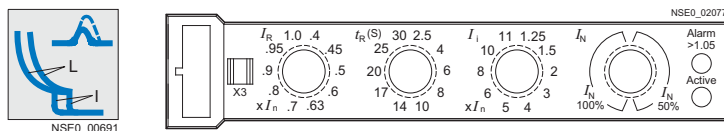
3  
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<b>3VL47311□□460AA0</b> <b>3VL47401□□460AA0</b>	7.600 7.600
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	<b>3VL57631□□460AA0</b>	11.700
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	<b>3VL67801□□460AA0</b>	20.500
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<b>3VL77101□□460AA0</b> <b>3VL77121□□460AA0</b>	33.500 33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	<b>3VL87161□□400AA0</b>	40.800

- Without communication preparation
- With communication preparation

TB  
NB

### 4-pole, fixed-mounted, for system 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 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 × $I_n$	<b>3VL27061□□4□0AA0</b> <b>3VL27101□□4□0AA0</b> <b>3VL27161□□4□0AA0</b>	3.100 3.100 3.100
VL250/3VL3	200 250	80 ... 200 100 ... 250	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<b>3VL37201□□4□0AA0</b> <b>3VL37251□□4□0AA0</b>	3.300 3.300

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<b>3VL47311□□460AA0</b> <b>3VL47401□□460AA0</b>	7.600 7.600
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	<b>3VL57631□□460AA0</b>	11.700
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	<b>3VL67801□□460AA0</b>	20.500
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	<b>3VL77101□□460AA0</b> <b>3VL77121□□460AA0</b>	33.500 33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	<b>3VL87161□□400AA0</b>	40.800

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

TA  
NA  
LA

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

## 3VL IEC Rated Molded Case Circuit Breakers

4-pole

 $I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H

H

Order No.

Weight  
per PU  
approx.  
kg $I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L

L

Order No.

Weight  
per PU  
approx.  
kg3VL27062□□4□0AA0  
3VL27102□□4□0AA0  
3VL27162□□4□0AA03.100  
3.100  
3.1003VL37202□□4□0AA0  
3VL37252□□4□0AA03.300  
3.3003VL27063□□4□0AA0  
3VL27103□□4□0AA0  
3VL27163□□4□0AA03.100  
3.100  
3.1003VL37203□□4□0AA0  
3VL37253□□4□0AA03.300  
3.3003  
63  
63VL47312□□460AA0  
3VL47402□□460AA07.600  
7.600

3VL57632□□460AA0

11.700

3VL67802□□460AA0

20.500

3VL77102□□460AA0

33.500

3VL77122□□460AA0

33.500

3VL87162□□400AA0

40.800

3VL47313□□460AA0  
3VL47403□□460AA07.600  
7.600

3VL57633□□460AA0

11.700

3VL67803□□460AA0

20.500

3VL77103□□460AA0

33.500

3VL77123□□460AA0

33.500

3VL87163□□400AA0

40.800

TB  
NBTB  
NB3VL27062□□4□0AA0  
3VL27102□□4□0AA0  
3VL27162□□4□0AA03.100  
3.100  
3.1003VL37202□□4□0AA0  
3VL37252□□4□0AA03.300  
3.3003VL27063□□4□0AA0  
3VL27103□□4□0AA0  
3VL27163□□4□0AA03.100  
3.100  
3.1003VL37203□□4□0AA0  
3VL37253□□4□0AA03.300  
3.3003  
63  
63VL47312□□460AA0  
3VL47402□□460AA07.600  
7.600

3VL57632□□460AA0

11.700

3VL67802□□460AA0

20.500

3VL77102□□460AA0

33.500

3VL77122□□460AA0

33.500

3VL87162□□400AA0

40.800

3VL47313□□460AA0  
3VL47403□□460AA07.600  
7.600

3VL57633□□460AA0

11.700

3VL67803□□460AA0

20.500

3VL77103□□460AA0

33.500

3VL77123□□460AA0

33.500

3VL87163□□400AA0

40.800

TA  
NA  
LATA  
NA  
LA

Communication:

- For accessories, see page 57.

# 3VL IEC Rated Molded Case Circuit Breakers

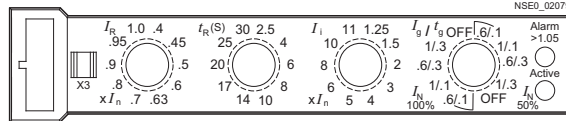
## 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	Ground-fault protection "G" $I_g$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)
	A	A	A	A	Order No.	Weight per PU approx. kg

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



NSE0\_00693



NSE0\_02079

### 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 4th pole (N), N protection = 50/100 %

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF 0.6 ... $1 \times I_n$ , OFF 0.6 ... $1 \times I_n$ , OFF	<b>3VL27061□□4□0AA0</b> <b>3VL27101□□4□0AA0</b> <b>3VL27161□□4□0AA0</b>	3.100 3.100 3.100
VL250/3VL3	200 250	80 ... 200 100 ... 250	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF 0.6 ... $1 \times I_n$ , OFF	<b>3VL37201□□4□0AA0</b> <b>3VL37251□□4□0AA0</b>	3.300 3.300

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF 0.6 ... $1 \times I_n$ , OFF	<b>3VL47311□□460AA0</b> <b>3VL47401□□460AA0</b>	7.600 7.600
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL57631□□460AA0</b>	11.700
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL67801□□460AA0</b>	20.500
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF 0.6 ... $1 \times I_n$ , OFF	<b>3VL77101□□460AA0</b> <b>3VL77121□□460AA0</b>	33.500 33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL87161□□400AA0</b>	40.800

- Without communication preparation
- With communication preparation

TN  
NN

<sup>1)</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 57.

# 3VL IEC Rated Molded Case Circuit Breakers

## 4-pole

**$I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H**

**(H)**

Order No.

Weight  
per PU  
approx.  
kg

**$I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L**

**(L)**

Order No.

Weight  
per PU  
approx.  
kg

3VL27062□□4□0AA0  
3VL27102□□4□0AA0  
3VL27162□□4□0AA0

3.100  
3.100  
3.100

3VL27063□□4□0AA0  
3VL27103□□4□0AA0  
3VL27163□□4□0AA0

3.100  
3.100  
3.100

3VL37202□□4□0AA0  
3VL37252□□4□0AA0

3.300  
3.300

3VL37203□□4□0AA0  
3VL37253□□4□0AA0

3.300  
3.300

3  
6

3  
6

3VL47312□□460AA0  
3VL47402□□460AA0

7.600  
7.600

3VL47313□□460AA0  
3VL47403□□460AA0

7.600  
7.600

3VL57632□□460AA0

11.700

3VL57633□□460AA0

11.700

3VL67802□□460AA0

20.500

3VL67803□□460AA0

20.500

3VL77102□□460AA0

33.500

3VL77103□□460AA0

33.500

3VL77122□□460AA0

33.500

3VL77123□□460AA0

33.500

3VL87162□□400AA0

40.800

3VL87163□□400AA0

40.800

TN  
NN

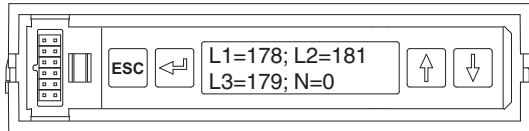
TN  
NN

# 3VL IEC Rated Molded Case Circuit Breakers

## 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview"	(N)
	A	A	A	A	Order No.	Weight per PU approx. kg

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



### 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 4th pole (N), N protection = 50 ... 100 %, OFF

VL160/3VL2	63 <sup>2)</sup>	25 ... 63	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	<b>NEW</b>	<b>3VL27061UJ4□0AA0</b>	3.100
	100 <sup>2)</sup>	40 ... 100	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$		<b>3VL27101UJ4□0AA0</b>	3.100
	160	64 ... 160	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$		<b>3VL27161UJ4□0AA0</b>	3.100
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	<b>NEW</b>	<b>3VL37201UJ4□0AA0</b>	3.300
	250	100 ... 250	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$		<b>3VL37251UJ4□0AA0</b>	3.300

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	<b>NEW</b>	<b>3VL47311UJ460AA0</b>	7.600
	400	160 ... 400	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$		<b>3VL47401UJ460AA0</b>	7.600
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	1.5 ... $9 \times I_R$		<b>3VL57631UJ460AA0</b>	11.700
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	1.5 ... $7 \times I_R$	<b>NEW</b>	<b>3VL67801UJ460AA0</b>	20.500
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	<b>NEW</b>	<b>3VL77101UJ460AA0</b>	33.500
	1250	500 ... 1250	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$		<b>3VL77121UJ460AA0</b>	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	1.5 ... $8 \times I_R$	<b>NEW</b>	<b>3VL87161UJ400AA0</b>	40.800

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

<sup>2)</sup> N = 100 % protection for  $I_n \leq 100$  A.

## 3VL IEC Rated Molded Case Circuit Breakers

4-pole

 $I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H

(H)

Order No.

Weight  
per PU  
approx.

kg

 $I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L

(L)

Order No.

Weight  
per PU  
approx.

kg

NEW

3VL27062UJ4□0AA0  
3VL27102UJ4□0AA0  
3VL27162UJ4□0AA03.100  
3.100  
3.1003VL37202UJ4□0AA0  
3VL37252UJ4□0AA03.300  
3.300

NEW

3VL27063UJ4□0AA0  
3VL27103UJ4□0AA0  
3VL27163UJ4□0AA03.100  
3.100  
3.1003VL37203UJ4□0AA0  
3VL37253UJ4□0AA03.300  
3.3003  
63  
63VL47312UJ460AA0  
3VL47402UJ460AA07.600  
7.600

3VL57632UJ460AA0

11.700

3VL67802UJ460AA0

20.500

3VL77102UJ460AA0

33.500

3VL77122UJ460AA0

33.500

3VL87162UJ400AA0

40.800

3VL47313UJ460AA0  
3VL47403UJ460AA07.600  
7.600

3VL57633UJ460AA0

11.700

3VL67803UJ460AA0

20.500

3VL77103UJ460AA0

33.500

3VL77123UJ460AA0

33.500

3VL87163UJ400AA0

40.800

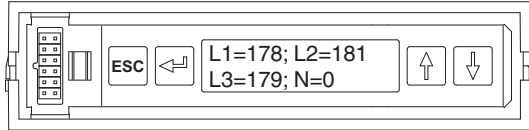
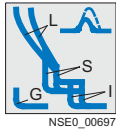


# 3VL IEC Rated Molded Case Circuit Breakers

## 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	Ground-fault protection <b>G*</b> $I_g$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview" <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">N</span>
	A	A	A	A	A	Order No. <span style="float: right;">Weight per PU approx.</span>
						kg

4-pole, fixed-mounted, for system 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  $t_{G0} = 0.1 \dots 0.5$  s, short-circuit delay  $t_{sd} = 0 \dots 0.3$  s

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

VL160/3VL2	63	25 ... 63	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL27061UN4□0AA0</b>	3.100
	100	40 ... 100	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL27101UN4□0AA0</b>	3.100
	160	64 ... 160	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL27161UN4□0AA0</b>	3.100
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL37201UN4□0AA0</b>	3.300
	250	100 ... 250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL37251UN4□0AA0</b>	3.300

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

- Connection with box terminal 3
- Connection with screw terminal 6

VL400/3VL4	315	128 ... 315	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL47311UN460AA0</b>	7.600
	400	160 ... 400	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL47401UN460AA0</b>	7.600
VL630/3VL5	630	252 ... 630	$1.25 \dots 10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL57631UN460AA0</b>	11.700
VL800/3VL6	800	320 ... 800	$1.25 \dots 8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL67801UN460AA0</b>	20.500
VL1250/3VL7	1000	400 ... 1000	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL77101UN460AA0</b>	33.500
	1250	500 ... 1250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL77121UN460AA0</b>	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$1.25 \dots 9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL87161UN400AA0</b>	40.800

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

## 3VL IEC Rated Molded Case Circuit Breakers

4-pole

 **$I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H****H**

Order No.

Weight  
per PU  
approx.

kg

 **$I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L****L**

Order No.

Weight  
per PU  
approx.

kg

NEW

3VL27062UN4□0AA0	3.100
3VL27102UN4□0AA0	3.100
3VL27162UN4□0AA0	3.100
3VL37202UN4□0AA0	3.300
3VL37252UN4□0AA0	3.300

NEW

3VL27063UN4□0AA0	3.100
3VL27103UN4□0AA0	3.100
3VL27163UN4□0AA0	3.100
3VL37203UN4□0AA0	3.300
3VL37253UN4□0AA0	3.300

3  
63  
6

3VL47312UN460AA0	7.600
3VL47402UN460AA0	7.600
3VL57632UN460AA0	11.700
3VL67802UN460AA0	20.500
3VL77102UN460AA0	33.500
3VL77122UN460AA0	33.500
3VL87162UN400AA0	40.800

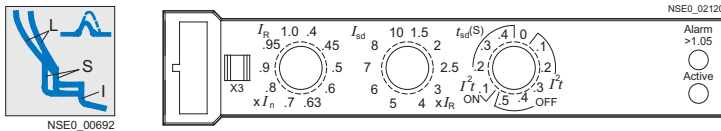
3VL47313UN460AA0	7.600
3VL47403UN460AA0	7.600
3VL57633UN460AA0	11.700
3VL67803UN460AA0	20.500
3VL77103UN460AA0	33.500
3VL77123UN460AA0	33.500
3VL87163UN400AA0	40.800

# 3VL IEC Rated Molded Case Circuit Breakers

## 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview"	(N)
	A	A	A	A	Order No.	Weight per PU approx. kg

### 4-pole, fixed-mounted, for system 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	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL27061□□4□0AA0</b> <b>3VL27101□□4□0AA0</b> <b>3VL27161□□4□0AA0</b>	3.100 3.100 3.100
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL37201□□4□0AA0</b> <b>3VL37251□□4□0AA0</b>	3.300 3.300

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

- Connection with box terminal
- Connection with screw terminal

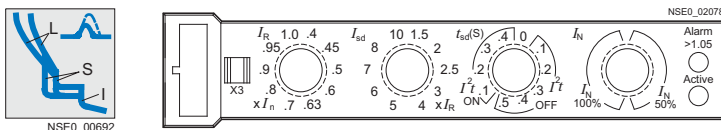
3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL47311□□460AA0</b> <b>3VL47401□□460AA0</b>	7.600 7.600
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	<b>3VL57631□□460AA0</b>	11.700
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	<b>3VL67801□□460AA0</b>	20.500
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL77101□□460AA0</b> <b>3VL77121□□460AA0</b>	33.500 33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	<b>3VL87161□□400AA0</b>	40.800

- Without communication preparation
- With communication preparation

TE  
NE

### 4-pole, fixed-mounted, for system 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 ( $t_{sd} = 0$  to 0.5 s) with overcurrent and short-circuit release in 4th pole (N), N protection = 50/100 %, OFF

VL160/3VL2	63	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL27061□□4□0AA0</b> <b>3VL27101□□4□0AA0</b> <b>3VL27161□□4□0AA0</b>	3.100 3.100 3.100
VL250/3VL3	200	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL37201□□4□0AA0</b> <b>3VL37251□□4□0AA0</b>	3.300 3.300

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL47311□□460AA0</b> <b>3VL47401□□460AA0</b>	7.600 7.600
VL630/3VL5	630	$0.4 \dots 1.0 \times I_n$	$10 \times I_n$	$1.5 \dots 9 \times I_R$	<b>3VL57631□□460AA0</b>	11.700
VL800/3VL6	800	$0.4 \dots 1.0 \times I_n$	$8 \times I_n$	$1.5 \dots 7 \times I_R$	<b>3VL67801□□460AA0</b>	20.500
VL1250/3VL7	1000	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL77101□□460AA0</b> <b>3VL77121□□460AA0</b>	33.500 33.500
VL1600/3VL8 <sup>1)</sup>	1600	$0.4 \dots 1.0 \times I_n$	$9 \times I_n$	$1.5 \dots 8 \times I_R$	<b>3VL87161□□400AA0</b>	40.800

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

TF  
NF  
LF

<sup>1)</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 57.

# 3VL IEC Rated Molded Case Circuit Breakers

4-pole

$I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H

(H)

$I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L

(L)

Order No.

Weight  
per PU  
approx.

kg

Order No.

Weight  
per PU  
approx.

kg

3VL27062□□4□0AA0	3.100
3VL27102□□4□0AA0	3.100
3VL27162□□4□0AA0	3.100
3VL37202□□4□0AA0	3.300
3VL37252□□4□0AA0	3.300

3VL27063□□4□0AA0	3.100
3VL27103□□4□0AA0	3.100
3VL27163□□4□0AA0	3.100
3VL37203□□4□0AA0	3.300
3VL37253□□4□0AA0	3.300

3  
6

3  
6

3VL47312□□460AA0	7.600
3VL47402□□460AA0	7.600
3VL57632□□460AA0	11.700
3VL67802□□460AA0	20.500
3VL77102□□460AA0	33.500
3VL77122□□460AA0	33.500
3VL87162□□400AA0	40.800

3VL47313□□460AA0	7.600
3VL47403□□460AA0	7.600
3VL57633□□460AA0	11.700
3VL67803□□460AA0	20.500
3VL77103□□460AA0	33.500
3VL77123□□460AA0	33.500
3VL87163□□400AA0	40.800

TE  
NE

TE  
NE

3VL27062□□4□0AA0	3.100
3VL27102□□4□0AA0	3.100
3VL27162□□4□0AA0	3.100
3VL37202□□4□0AA0	3.300
3VL37252□□4□0AA0	3.300

3VL27063□□4□0AA0	3.100
3VL27103□□4□0AA0	3.100
3VL27163□□4□0AA0	3.100
3VL37203□□4□0AA0	3.300
3VL37253□□4□0AA0	3.300

3  
6

3  
6

3VL47312□□460AA0	7.600
3VL47402□□460AA0	7.600
3VL57632□□460AA0	11.700
3VL67802□□460AA0	20.500
3VL77102□□460AA0	33.500
3VL77122□□460AA0	33.500
3VL87162□□400AA0	40.800

3VL47313□□460AA0	7.600
3VL47403□□460AA0	7.600
3VL57633□□460AA0	11.700
3VL67803□□460AA0	20.500
3VL77103□□460AA0	33.500
3VL77123□□460AA0	33.500
3VL87163□□400AA0	40.800

TF  
NF  
LF

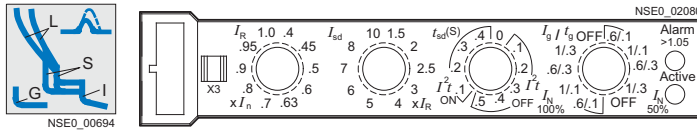
TF  
NF  
LF

# 3VL IEC Rated Molded Case Circuit Breakers

## 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	S function short-circuit protection (short-time delayed) <b>S</b>	Ground-fault protection "G" $I_g$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview" <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">N</span>	Order No.	Weight per PU approx.
	A	A	A	A	A			kg

4-pole, fixed-mounted, for system 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 4th pole (N), N protection = 50 ... 100 %, OFF

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	$11 \times I_n$ $11 \times I_n$ $11 \times I_n$	1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF 0.6 ... $1 \times I_n$ , OFF 0.6 ... $1 \times I_n$ , OFF	<b>3VL27061□□4□0AA0</b> <b>3VL27101□□4□0AA0</b> <b>3VL27161□□4□0AA0</b>	3.100 3.100 3.100
VL250/3VL3	200 250	80 ... 200 100 ... 250	$11 \times I_n$ $11 \times I_n$	1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF 0.6 ... $1 \times I_n$ , OFF	<b>3VL37201□□4□0AA0</b> <b>3VL37251□□4□0AA0</b>	3.300 3.300

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	$11 \times I_n$ $11 \times I_n$	1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF 0.6 ... $1 \times I_n$ , OFF	<b>3VL47311□□460AA0</b> <b>3VL47401□□460AA0</b>	7.600 7.600
VL630/3VL5	630	252 ... 630	$10 \times I_n$	1.5 ... $9 \times I_R$	0.6 ... $1 \times I_n$ , OFF	<b>3VL57631□□460AA0</b>	11.700
VL800/3VL6	800	320 ... 800	$8 \times I_n$	1.5 ... $7 \times I_R$	0.6 ... $1 \times I_n$ , OFF	<b>3VL67801□□460AA0</b>	20.500
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	$11 \times I_n$ $11 \times I_n$	1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF 0.6 ... $1 \times I_n$ , OFF	<b>3VL77101□□460AA0</b> <b>3VL77121□□460AA0</b>	33.500 33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	1.5 ... $8 \times I_R$	0.6 ... $1 \times I_n$ , OFF	<b>3VL87161□□400AA0</b>	40.800

- Without communication preparation
- With communication preparation

TH  
NH

<sup>1)</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 57.

# 3VL IEC Rated Molded Case Circuit Breakers

## 4-pole

$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>		$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>	
Order No.	Weight per PU approx.	Order No.	Weight per PU approx.
	kg		kg

3VL27062□□4□0AA0	3.100	3VL27063□□4□0AA0	3.100
3VL27102□□4□0AA0	3.100	3VL27103□□4□0AA0	3.100
3VL27162□□4□0AA0	3.100	3VL27163□□4□0AA0	3.100
3VL37202□□4□0AA0	3.300	3VL37203□□4□0AA0	3.300
3VL37252□□4□0AA0	3.300	3VL37253□□4□0AA0	3.300

3 6		3 6	
--------	--	--------	--

3VL47312□□460AA0	7.600	3VL47313□□460AA0	7.600
3VL47402□□460AA0	7.600	3VL47403□□460AA0	7.600
3VL57632□□460AA0	11.700	3VL57633□□460AA0	11.700
3VL67802□□460AA0	20.500	3VL67803□□460AA0	20.500
3VL77102□□460AA0	33.500	3VL77103□□460AA0	33.500
3VL77122□□460AA0	33.500	3VL77123□□460AA0	33.500
3VL87162□□400AA0	40.800	3VL87163□□400AA0	40.800

TH NH		TH NH	
----------	--	----------	--

# 3VL IEC Rated Molded Case Circuit Breakers

## 4-pole

Type	Rated current $I_n$	Operating current of the instantaneous short-circuit releases "I" $I_i$	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N see "Overview"	(N)
	A		Order No.	Weight per PU approx. kg

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



NSE0\_00708

### Non-automatic molded case circuit breakers, I function

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

VL160X/3VL1	100 160	1800 1800	<b>3VL17101EE4□0AA0</b> <b>3VL17161EE4□0AA0</b>	2.500 2.500
VL160/3VL2	100 160	2500 2500	<b>3VL27101EE4□0AA0</b> <b>3VL27161EE4□0AA0</b>	3.000 3.000
VL250/3VL3	250	3500	<b>3VL37251EE4□0AA0</b>	3.200

Connection type can be selected through the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal not in conjunction with RCD module at 3VL1

3

6

VL400/3VL4	400	4000	<b>3VL47401EE460AA0</b>	7.400
VL630/3VL5	630	6300	<b>3VL57631EE460AA0</b>	11.200
VL800/3VL6	800	6500	<b>3VL67801EE460AA0</b>	19.900
VL1250/3VL7	1250	12000	<b>3VL77121EE460AA0</b>	31.000
VL1600/3VL8 <sup>1)</sup>	1600	14400	<b>3VL87161EE400AA0</b>	38.300

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

## 3VL IEC Rated Molded Case Circuit Breakers

4-pole

 **$I_{cu}$  up to 70 kA at 415 V,  
high breaking capacity H****H**

Order No.

Weight  
per PU  
approx.

kg

 **$I_{cu}$  up to 100 kA at 415 V,  
very high breaking capacity L****L**

Order No.

Weight  
per PU  
approx.

kg

3VL17102EE4□0AA0  
3VL17162EE4□0AA02.500  
2.500--  
--3VL27102EE4□0AA0  
3VL27162EE4□0AA03.000  
3.0003VL27103EE4□0AA0  
3VL27163EE4□0AA03.000  
3.000

3VL37252EE4□0AA0

3.200

3VL37253EE4□0AA0

3.200

3  
63  
6

3VL47402EE460AA0

7.400

3VL47403EE460AA0

7.400

3VL57632EE460AA0

11.200

3VL57633EE460AA0

11.200

3VL67802EE460AA0

19.900

3VL67803EE460AA0

19.900

3VL77122EE460AA0

31.000

3VL77123EE460AA0

31.000

3VL87162EE400AA0

38.300

3VL87163EE400AA0

38.300



# 3VL IEC Rated Molded Case Circuit Breakers

## 4-pole

Order No. supplement (for complete Order No., see pages 42 to 52) 3VL.7 ... □□4-....		Breaking capacity	Type	VL160		VL250		VL400		VL630		VL800		VL1250		VL1600	
			3VL2	3VL3		3VL4		3VL5		3VL6		3VL7		3VL8			
			Rated current $I_n$														
Releases			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	<b>T B</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	<b>N B</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	<b>T A</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	<b>N A</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	<b>L A</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU12	<b>T N</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU12	<b>N N</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU40	<b>U J</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU42	<b>U N</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	<b>T E</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	<b>N E</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	<b>T F</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	<b>N F</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	<b>L F</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU22	<b>T H</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU22	<b>N H</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ Available

# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

### Overview

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

##### 3-pole circuit breakers without communication preparation

<b>VL160X</b> 3VL1	Max. 3 HS	Max. 2 HS + 1 AS			Max. 3 HS	Max. 2 HS + 1 AS
<b>VL160</b> 3VL2	Max. 3 HS	Max. 2 HS + 1 AS			Max. 3 HS	Max. 2 HS + 1 AS
<b>VL250</b> 3VL3	Max. 3 HS	Max. 2 HS + 1 AS			Max. 3 HS	Max. 2 HS + 1 AS
<b>VL400</b> 3VL4	Max. 3 HS	Max. 2 HS + 1 AS			Max. 3 HS	
<b>VL630</b> 3VL5	Max. 4 HS	Max. 2 HS + 2 AS			Max. 4 HS	
<b>VL800</b> 3VL6	Max. 4 HS	Max. 2 HS + 2 AS			Max. 4 HS	
<b>VL1250</b> 3VL7	Max. 4 HS	Max. 2 HS + 2 AS			Max. 4 HS	
<b>VL1600</b> 3VL8	Max. 4 HS	Max. 2 HS + 2 AS			Max. 4 HS	

ETU marine engineering-certified: Left accessories compartment is fitted with tripping solenoid

VL160X with RCD: Left accessories compartment is fitted with tripping solenoid

/ Shunt release or undervoltage release  
HS one auxiliary switch 1 NO or 1 NC  
AS one alarm switch 1 NO or 1 NC

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##### 4-pole circuit breakers without communication preparation

<b>VL160X</b> 3VL1	Max. 3 HS	Max. 3 HS	Max. 2 HS + 1 AS	Max. 2 HS + 1 AS			Max. 3 HS	Max. 2 HS + 1 AS
<b>VL160</b> 3VL2	Max. 3 HS	Max. 3 HS	Max. 2 HS + 1 AS	Max. 2 HS + 1 AS			Max. 3 HS	Max. 2 HS + 1 AS
<b>VL250</b> 3VL3	Max. 3 HS	Max. 3 HS	Max. 2 HS + 1 AS	Max. 2 HS + 1 AS			Max. 3 HS	Max. 2 HS + 1 AS
<b>VL400</b> 3VL4	Max. 3 HS	Max. 3 HS	Max. 2 HS + 1 AS	Max. 2 HS + 1 AS			Max. 3 HS	
<b>VL630</b> 3VL5	Max. 4 HS	Max. 4 HS	Max. 2 HS + 2 AS	Max. 2 HS + 2 AS			Max. 4 HS	
<b>VL800</b> 3VL6	Max. 4 HS	Max. 4 HS	Max. 2 HS + 2 AS	Max. 2 HS + 2 AS			Max. 4 HS	
<b>VL1250</b> 3VL7	Max. 4 HS	Max. 4 HS	Max. 2 HS + 2 AS	Max. 2 HS + 2 AS			Max. 4 HS	
<b>VL1600</b> 3VL8	Max. 4 HS	Max. 4 HS	Max. 2 HS + 2 AS	Max. 2 HS + 2 AS			Max. 4 HS	

ETU marine engineering-certified: Left accessories compartment is fitted with tripping solenoid

VL160X with RCD: Left accessories compartment is fitted with tripping solenoid

/ Shunt release or undervoltage release  
HS one auxiliary switch 1 NO or 1 NC  
AS one alarm switch 1 NO or 1 NC

Note:  
Maximum 6 switch elements (HS) per circuit breaker **VL160X** to **VL400**  
Maximum 8 switch elements (HS) per circuit breaker **VL630** to **VL1600**

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##### 3-pole circuit breakers with communication preparation

<b>VL160</b> 3VL2	Max. 1 HS			Max. 3 HS	Max. 2 HS + 1 AS
<b>VL250</b> 3VL3	Max. 1 HS			Max. 3 HS	Max. 2 HS + 1 AS
<b>VL400</b> 3VL4	Max. 1 HS			Max. 3 HS	
<b>VL630</b> 3VL5	Max. 1 HS + 1 AS			Max. 4 HS	
<b>VL800</b> 3VL6	Max. 1 HS + 1 AS			Max. 4 HS	
<b>VL1250</b> 3VL7	Max. 1 HS + 1 AS			Max. 4 HS	
<b>VL1600</b> 3VL8	Max. 1 HS + 1 AS			Max. 4 HS	

When using a communication-capable ETU, the accessory compartment X2 is fitted with an auxiliary switch and an alarm switch

/ Shunt release or undervoltage release  
HS one auxiliary switch 1 NO or 1 NC  
AS one alarm switch 1 NO or 1 NC

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##### 4-pole circuit breakers with communication preparation

<b>VL160</b> 3VL2	Max. 3 HS	Max. 1 HS			Max. 3 HS	Max. 2 HS + 1 AS
<b>VL250</b> 3VL3	Max. 3 HS	Max. 1 HS			Max. 3 HS	Max. 2 HS + 1 AS
<b>VL400</b> 3VL4	Max. 3 HS	Max. 1 HS			Max. 3 HS	
<b>VL630</b> 3VL5	Max. 4 HS	Max. 1 HS + 1 AS			Max. 4 HS	
<b>VL800</b> 3VL6	Max. 4 HS	Max. 1 HS + 1 AS			Max. 4 HS	
<b>VL1250</b> 3VL7	Max. 4 HS	Max. 1 HS + 1 AS			Max. 4 HS	
<b>VL1600</b> 3VL8	Max. 4 HS	Max. 1 HS + 1 AS			Max. 4 HS	

When using a communication-capable ETU, the accessory compartment X2 is fitted with an auxiliary switch and an alarm switch

/ Shunt release or undervoltage release  
HS one auxiliary switch 1 NO or 1 NC  
AS one alarm switch 1 NO or 1 NC

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#### Note:

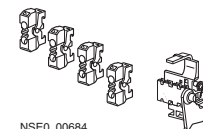
Before ordering, use the tables above to check whether the required combination of shunt releases, undervoltage releases and auxiliary/alarm switches is feasible.

# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

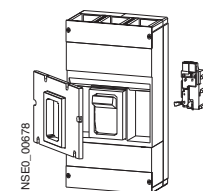
### Selection and ordering data

Wiring directly at accessories		For VL160X to VL400 (3VL1 to 3VL4)	Weight per PU approx.
		Order No.	kg
<b>Auxiliary switches and auxiliary releases</b>			
<b>3- or 4-pole</b>			
For retrofitting (for possible complements see Technical Information at <a href="http://www.siemens.com/lowvoltage/support">www.siemens.com/lowvoltage/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	<b>3VL94002AB00</b>	0.027
4 HS (2 NO + 2 NC)	N, left <sup>1)</sup> , right	--	
2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	Left <sup>1)</sup> , right <sup>3)</sup> Left <sup>1)</sup>	<b>3VL94002AD00</b> --	0.051
Additional auxiliary switch/alarm switch combinations			
<b>Shunt releases<sup>2)</sup></b>			
For retrofitting			
V AC	V DC	Mounting side	
24	24	Right pole only	<b>3VL94001SC00</b>
--	48 ... 60	Right pole only	<b>3VL94001SJ00</b>
--	110 ... 127	Right pole only	<b>3VL94001SK00</b>
--	220 ... 250	Right pole only	<b>3VL94001SQ00</b>
48 ... 60	--	Right pole only	<b>3VL94001SM00</b>
110 ... 127	--	Right pole only	<b>3VL94001SR00</b>
208 ... 277	--	Right pole only	<b>3VL94001ST00</b>
380 ... 600	--	Right pole only	<b>3VL94001SV00</b>
<b>Undervoltage releases</b>			
For retrofitting			
V AC	V DC	Mounting side	
--	12	Right pole only	<b>3VL94001UN00</b>
--	24	Right pole only	<b>3VL94001UP00</b>
--	48	Right pole only	<b>3VL94001UU00</b>
--	60	Right pole only	<b>3VL94001UV00</b>
24	--	Right pole only	<b>3VL94001UD00</b>
110 ... 127	--	Right pole only	<b>3VL94001UG00</b>
--	110 ... 127	Right pole only	<b>3VL94001UR00</b>
208	--	Right pole only	<b>3VL94001UM00</b>
220 ... 250	--	Right pole only	<b>3VL94001UH00</b>
--	220 ... 250	Right pole only	<b>3VL94001US00</b>
277	--	Right pole only	<b>3VL94001UQ00</b>
380 ... 415	--	Right pole only	<b>3VL94001UJ00</b>
440 ... 480	--	Right pole only	<b>3VL94001UK00</b>
500 ... 525	--	Right pole only	<b>3VL94001UL00</b>



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3VL94002A.00



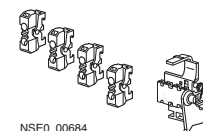
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3VL94001S.00,  
3VL94001U.00

- <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/support](http://www.siemens.com/lowvoltage/support)).

- <sup>3)</sup> In the case of VL400 (3VL4):  
Unsuitable for mounting in the right-hand accessory compartment.  
The 3VL94002AB00 assembly kit with auxiliary switches only is recommended.

Wiring directly at accessories		For VL630 up to VL1600 (3VL5 to 3VL8)	Weight per PU approx.
		Order No.	kg
<b>Auxiliary switches and auxiliary releases</b>			
<b>3- or 4-pole</b>			
For retrofitting (for possible complements see Technical Information at <a href="http://www.siemens.com/lowvoltage/support">www.siemens.com/lowvoltage/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, right	--	
4 HS (2 NO + 2 NC)	N, left, right	<b>3VL98002AC00</b>	0.058
2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	Left, right Left	-- <b>3VL98002AE00</b>	0.060
Additional auxiliary switch/alarm switch combinations			

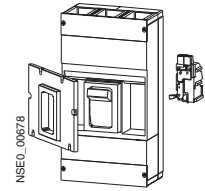


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3VL98002A.00

## 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

3VL98001S.00,  
3VL98001U.00**Shunt releases<sup>1)</sup>**

For retrofitting

V AC	V DC	Mounting side		
24	24	Right pole only	<b>3VL98001SC00</b>	0.120
--	48 ... 60	Right pole only	<b>3VL98001SJ00</b>	0.120
--	110 ... 127	Right pole only	<b>3VL98001SK00</b>	0.120
--	220 ... 250	Right pole only	<b>3VL98001SQ00</b>	0.120
48 ... 60	--	Right pole only	<b>3VL98001SM00</b>	0.120
110 ... 127	--	Right pole only	<b>3VL98001SR00</b>	0.120
208 ... 277	--	Right pole only	<b>3VL98001ST00</b>	0.120
380 ... 600	--	Right pole only	<b>3VL98001SV00</b>	0.120

**Undervoltage releases**

For retrofitting

V AC	V DC	Mounting side		
--	12	Right pole only	<b>3VL98001UN00</b>	0.088
--	24	Right pole only	<b>3VL98001UP00</b>	0.088
--	48	Right pole only	<b>3VL98001UU00</b>	0.088
--	60	Right pole only	<b>3VL98001UV00</b>	0.088
24	--	Right pole only	<b>3VL98001UD00</b>	0.088
110 ... 127	--	Right pole only	<b>3VL98001UG00</b>	0.088
--	110 ... 127	Right pole only	<b>3VL98001UR00</b>	0.088
208	--	Right pole only	<b>3VL98001UM00</b>	0.088
220 ... 250	--	Right pole only	<b>3VL98001UH00</b>	0.088
--	220 ... 250	Right pole only	<b>3VL98001US00</b>	0.088
277	--	Right pole only	<b>3VL98001UQ00</b>	0.088
380 ... 415	--	Right pole only	<b>3VL98001UJ00</b>	0.088
440 ... 480	--	Right pole only	<b>3VL98001UK00</b>	0.088
500 ... 525	--	Right pole only	<b>3VL98001UL00</b>	0.088

**Time-delay devices for undervoltage releases  
(220 ... 250 V DC)**Rated control supply voltage  $U_s$ 

220 ... 250 V AC

Delay time &gt; 200 ms

**3TX47010AN1** 0.170**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

**3WL91110BA140AA0** 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/support](http://www.siemens.com/lowvoltage/support)).

# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

For circuit breakers	Maximum combination of auxiliary switches (HS) and alarm switches (AS)	Order No.	Weight per PU approx.
Type			kg
<b>3SB adapters and 3SB contact blocks</b>			
<b>Mounting adapters for auxiliary and alarm switch combinations</b>			
<b>For installation in the N pole of the circuit breaker</b>			
VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS <sup>1)</sup>	<b>3VL94002AH00</b>	0.009
	2 HS + 1 AS <sup>1)2)</sup>	--	
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS	<b>3VL98162AL00</b>	0.075
	2 HS + 2 AS	--	
<b>For installation in the left pole of the circuit breaker</b>			
VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS <sup>1)</sup>	<b>3VL94002AH00</b>	0.009
	2 HS + 1 AS <sup>1)2)</sup>	<b>3VL94002AJ10</b>	0.001
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS	<b>3VL98162AL00</b>	0.075
	2 HS + 2 AS	<b>3VL98162AN10</b>	0.072
<b>For installation in the right pole of the circuit breaker</b>			
VL160X, VL160, VL250, VL400 (3VL1 to 3VL4) <sup>2)</sup>	Up to 3 HS <sup>1)</sup>	<b>3VL94002AH00</b>	0.009
	2 HS + 1 AS <sup>1)2)</sup>	<b>3VL94002AJ20</b>	0.001
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS	<b>3VL98162AL00</b>	0.075
	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: 3VL94002AJ20 unsuitable for mounting in the right-hand accessory compartment.

## 3VL IEC Rated Molded Case Circuit Breakers

### Accessories and spare parts

For auxiliary/alarm switches	Circuit breakers Type <b>VL160X to VL1600 (3VL1 to 3VL8)</b>	Weight per PU approx.
	Order No.	kg
<b>Switching blocks for auxiliary and alarm switch combinations</b>		
1 NO	<b>3SB34000J</b>	0.010
1 NC	<b>3SB34000K</b>	0.010

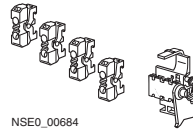
For auxiliary switch or alarm switch combinations not included in the kits provided as standard, the mounting adapters specified can be ordered separately together with the required contact blocks:

- 1 HS or 1 AS with NO contact 3SB34000J
- 1 HS or 1 AS with NC contact 3SB34000K

#### 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.

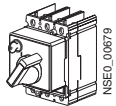
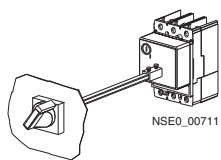
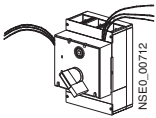


NSE0\_00684

For retrofitting/possible complement see Technical Information at [www.siemens.com/lowvoltage/support](http://www.siemens.com/lowvoltage/support).

## 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	For VL160X to VL250 (3VL1 to 3VL3) Order No.	Weight per PU approx. kg
<b>Operating mechanisms</b>		
 NSE0_00679 3VL9.003H.00	<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.	<b>3VL93003HA00</b> 0.362 <b>3VL93003HC00</b> 0.362
	<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>3VL93003HE00</b> 0.267
 NSE0_00711 3VL9.003H.05	<b>Door-coupling rotary operating mechanisms, complete<sup>1)</sup></b> <b>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, door interlocking <u>EMERGENCY-STOP version</u> Red knob, yellow indicator plate, without leading auxiliary switch Safety locks for installation by the customer.	<b>3VL93003HF05</b> 0.970 <b>3VL93003HG05</b> 0.980
	<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 2 changeover contacts with 1.5 m long cables <u>"ON after OFF"</u> 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>3VL93003AS10</b> 0.080 <b>3VL93003AT10</b> 0.130  <b>3VL93003AU10</b> 0.080 <b>3VL93003AW10</b> 0.130
 NSE0_00712 3VL9.003A.10	<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 - With 1000 mm Bowden wire - With 1500 mm Bowden wire	<b>3VL93003HR10</b> 1.400 <b>3VL93003HR20</b> 1.400 <b>3VL93003HR30</b> 1.400
	<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 - With 1000 mm Bowden wire - With 1500 mm Bowden wire	<b>3VL93003HR11</b> 1.400 <b>3VL93003HR21</b> 1.400 <b>3VL93003HR31</b> 1.400
	<b>Retaining bracket for matching door-coupling rotary operating mechanisms, complete</b> Retaining bracket mounted on the oper. mechanism, recommended for extens. shafts >250 mm - for 6 mm shaft	<b>3VL93003HP02</b> 0.435 <b>3VL93003HP00</b> 0.253

Additional accessories and components for door-coupling rotary operating mechanism.

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

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

## 3VL IEC Rated Molded Case Circuit Breakers

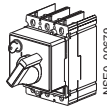
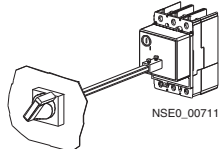
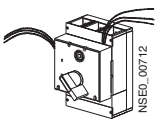
## Accessories and spare parts

For VL400 (3VL4)		For VL630 (3VL5)	
Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg
<b>3VL94003HA00</b>	0.725	<b>3VL96003HA00</b>	0.834
<b>3VL94003HC00</b>	0.725	<b>3VL96003HC00</b>	0.834
<b>3VL94003HE00</b>	0.267	<b>3VL96003HE00</b>	0.755
<b>3VL94003HF05</b>	0.970	<b>3VL96003HF05</b>	2.465
<b>3VL94003HG05</b>	1.100	<b>3VL96003HG05</b>	2.460
<b>3VL94003AS10</b>	0.080	<b>3VL96003AS10</b>	0.080
<b>3VL94003AT10</b>	0.130	<b>3VL96003AT10</b>	0.130
<b>3VL94003AU10</b>	0.080	<b>3VL96003AU10</b>	0.080
<b>3VL94003AW10</b>	0.130	<b>3VL96003AW10</b>	0.130
<b>3VL94003HR10</b>	2.000	<b>3VL9500-3HR10</b>	2.400
<b>3VL94003HR20</b>	2.000	<b>3VL9500-3HR20</b>	2.400
<b>3VL94003HR30</b>	2.000	<b>3VL9500-3HR30</b>	2.400
<b>3VL94003HR11</b>	2.000	<b>3VL9500-3HR11</b>	2.400
<b>3VL94003HR21</b>	2.000	<b>3VL9500-3HR21</b>	2.400
<b>3VL94003HR31</b>	2.000	<b>3VL9500-3HR31</b>	2.400
<b>3VL94003HP00</b>	0.379	<b>3VL96003HP00</b>	0.437
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# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	For VL800 (3VL6)	Weight per PU approx.
	Order No.	kg
<b>Operating mechanisms</b>		
 NSE0_00679 3VL9.003H.00	<b>3- or 4-pole</b> <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.	<b>3VL96003HA00</b> 0.834 <b>3VL96003HC00</b> 0.834
	<b>Front-operated rotary operating mechanisms with shaft stub, without knob</b> without leading auxiliary switch, for auxiliary switches <u>see below</u> .	<b>3VL96003HE00</b> 0.755
 NSE0_00711 3VL9.003H.05	<b>Door-coupling rotary operating mechanisms, complete, installation in doors and covers</b> Degree of protection IP65, including handle, ti-grey, 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.	<b>3VL96003HF05</b> 2.465 <b>3VL96003HG05</b> 2.460
	<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>3VL96003AS10</b> 0.080 <b>3VL96003AT10</b> 0.130 <b>3VL96003AU10</b> 0.080 <b>3VL96003AW10</b> 0.130
 NSE0_00712 3VL9.003A.10	<b>Retaining brackets suitable for matching door-coupling rotary operating mechanisms, complete</b> Retaining bracket is mounted on the operating mechanism, recommended for extension shafts >250 mm	<b>3VL96003HP00</b> 0.437

Additional accessories and components for door-coupling rotary operating mechanism.

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

## 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

For VL1250 to VL1600  
(3VL7 to 3VL8)

Order No.

Weight  
per PU  
approx.

kg

3VL98003HA00

2.831

3VL98003HC00

2.831

3VL98003HE00

2.175

3VL98003HF05

4.102

3VL98003HG05

4.100

3VL98003AS20

0.080

3VL98003AT20

0.130

3VL98003AU10

0.080

3VL98003AW10

0.130

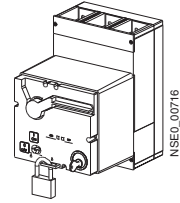
3VL98003HP00

0.529

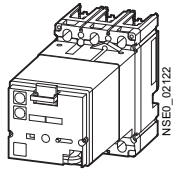
# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	Order No.	Weight per PU approx.	
		kg	
<b>Motorized operating mechanisms</b>			
<b>3- or 4-pole</b>			
<b>Motorized operating mechanisms with stored energy mechanisms (SEO) for synchronization tasks<sup>1)2)</sup></b>			
Degree of protection IP30, with locking device for 3 padlocks			
50/60 Hz V AC	V DC		
--	24		
42 ... 48	42 ... 48		
60	60		
110 ... 127	110 ... 127		
220 ... 250	220 ... 250		
		<b>For VL160X to VL250 (3VL1 to 3VL3)</b>	
		<b>3VL93003MJ00</b>	2.140
		<b>3VL93003ML00</b>	2.140
		<b>3VL93003MS00</b>	2.140
		<b>3VL93003MN00</b>	2.140
		<b>3VL93003MQ00</b>	2.140
		<b>For VL400 (3VL4)</b>	
		<b>3VL94003MJ00</b>	3.910
		<b>3VL94003ML00</b>	3.910
		<b>3VL94003MS00</b>	3.910
		<b>3VL94003MN00</b>	3.910
		<b>3VL94003MQ00</b>	3.910
		<b>For VL630 and VL800 (3VL5 and 3VL6)</b>	
		<b>3VL96003MJ00</b>	4.800
		<b>3VL96003ML00</b>	4.800
		<b>3VL96003MS00</b>	4.800
		<b>3VL96003MN00</b>	4.800
		<b>3VL96003MQ00</b>	4.800
<b>Motorized operating mechanisms (MO)<sup>2)</sup></b>			
Degree of protection IP30, with locking device for 3 padlocks			
50/60 Hz V AC	V DC		
--	24		
42 ... 60	42 ... 60		
110 ... 127	110 ... 127		
220 ... 250	220 ... 250		
		<b>For VL160X (3VL1)</b>	
		<b>3VL91003MA10</b>	1.000
		<b>3VL91003MC10</b>	1.000
		<b>3VL91003MD10</b>	1.000
		<b>3VL91003ME10</b>	1.000
		<b>For VL160 and VL250 (3VL2 and 3VL3)</b>	
		<b>3VL93003MA10</b>	1.000
		<b>3VL93003MC10</b>	1.000
		<b>3VL93003MD10</b>	1.000
		<b>3VL93003ME10</b>	1.000
		<b>For VL400 (3VL4)</b>	
		<b>3VL94003MA10</b>	1.000
		<b>3VL94003MC10</b>	1.000
		<b>3VL94003MD10</b>	1.000
		<b>3VL94003ME10</b>	1.000
		<b>For VL630 and VL800 (3VL5 and 3VL6)</b>	
		<b>3VL96003MA10</b>	1.000
		<b>3VL96003MC10</b>	1.000
		<b>3VL96003MD10</b>	1.000
		<b>3VL96003ME10</b>	1.000
		<b>For VL1,250 and VL1600 (3VL7 and 3VL8)</b>	
		<b>3VL98003MA10</b>	1.000
		<b>3VL98003MC10</b>	1.000
		<b>3VL98003MD10</b>	1.000
		<b>3VL98003ME10</b>	1.000
<b>Toggle handle extensions</b>			
<b>Toggle handle extensions</b>			
<ul style="list-style-type: none"> <li>• for VL400 (3VL4)</li> <li>• for VL630 and VL800 (3VL5 and 3VL6)</li> <li>• for VL1,250 and VL1600 (3VL7 and 3VL8)</li> </ul>		<b>For VL400 up to VL1600 (3VL4 to 3VL8)</b> <b>3VL94003HN00</b> 0.100 <b>3VL96003HN00</b> 0.140 <b>3VL98003HN00</b> 0.234	



3VL9.003M.00






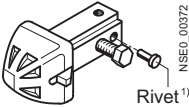
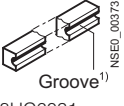
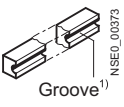
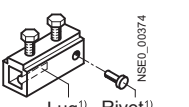

3VL9.003M.10

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

<sup>2)</sup> For safety lock as an assembly kit for retrofitting.

## 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Switch-gears	Rotary operating mechanisms	Size	Cross-section of the actuating shaft	Version <sup>3)</sup>	Individual parts for 8UC7 door-coupling rotary operating mechanisms	Weight per PU approx.
Type	Type	mm × mm			Order No.	kg
<b>Individual parts for 8UC door-coupling rotary operating mechanisms</b>						
<b>Handles with masking plate (including flat gasket and fixing screws)</b>						
 8UC71101BB	3VL1, 3VL2, 3VL3	8UC71 1	6 × 6 or 8 × 8	Standard EMER- GENCY- STOP	<b>8UC71106BD</b> <b>8UC71208BD</b>	0.200 0.200
 8UC72106BD	3VL4, 3VL5, 3VL6	8UC72 2	8 × 8	Standard EMER- GENCY- STOP	<b>8UC72106BD</b> <b>8UC72208BD</b>	0.200 0.200
 8UC73101BB	3VL7, 3VL8	8UC73 3	12 × 12	Standard EMER- GENCY- STOP	<b>8UC73106BD</b> <b>8UC73208BD</b>	0.200 0.200
<b>Individual parts for 8UC door-coupling rotary operating mechanisms</b>						
Rotary operating mechanisms				Cross-section of the actuating shaft	Individual parts for 8UC6 door-coupling rotary operating mechanisms	Weight per PU approx.
Type				mm × mm	Order No.	kg
<b>Individual parts for 8UC door-coupling rotary operating mechanisms</b>						
<b>Coupling drivers for 3VL</b>						
 8UC6014	8UC71 (plastic) 8UC71/8UC72 <sup>2)</sup> (die cast) 8UC73/74 (die cast)		6 × 6 8 × 8 12 × 12		<b>8UC70112AA</b> <b>8UC60172AA</b> <b>8UC6014</b>	0.200 0.047 0.253
<b>Extension shafts 300 mm long</b>						
 8UC6031	8UC71 8UC71/8UC72 8UC73 8UC73/74		6 × 6 8 × 8 10 × 10 12 × 12		<b>8UC6031</b> <b>8UC6032</b> <b>8UC6033</b> <b>8UC6034</b>	0.068 0.132 0.217 0.315
<b>Extension shafts 600 mm long</b>						
 8UC6081	8UC71 8UC71/8UC72 8UC73 8UC73/74		6 × 6 8 × 8 10 × 10 12 × 12		<b>8UC6081</b> <b>8UC6082</b> <b>8UC6083</b> <b>8UC6084</b>	0.136 0.265 0.430 0.640
<b>Shaft couplings</b>						
 8UC6021 to 8UC6024	8UC71 8UC72 8UC73 8UC73/74		6 × 6 8 × 8 10 × 10 12 × 12		<b>8UC6021</b> <b>8UC6022</b> <b>8UC6023</b> <b>8UC6024</b>	0.031 0.023 0.085 0.077
<b>Reducers</b>						
 8UC7058	8UC71 8UC72		8 × 8 to 6 × 6 12 × 12 to 8 × 8		<b>8UC7058</b> <b>8UC7050</b>	0.200 0.200


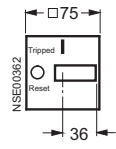

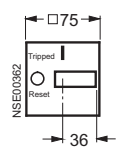

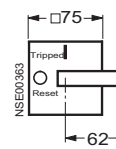
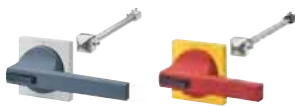
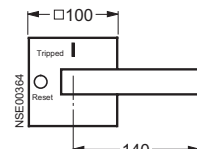
<sup>1)</sup> Non-interchangeability features.

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

<sup>3)</sup> Standard: Ti-grey handle, light-gray masking plate;  
EMERGENCY-STOP: Red handle, yellow masking plate.

# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Switchgears	Rated current	Cross-section of the actuating shaft	Torque	Rotary operating mechanisms	Illustrated: Handle, masking plate	
<b>8UC Door-coupling Rotary Operating Mechanisms</b>						
<b>8UC71 - 3VL circuit breakers</b>						
	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)						
<b>8UC72 - 3VL circuit breakers</b>						
	3VL4	200 ... 400	8 × 8	9	2	
	3VL5	315 ... 600	8 × 8	9		
	3VL6	320 ... 800	8 × 8	9		
<b>8UC73 - 3VL circuit breakers</b>						
	3VL7	400 ... 1250	12 × 12	25	3	
	3VL8	640 ... 1600	12 × 12	25		

1) 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.

## 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	Rotary operating mechanisms, complete <sup>1)</sup> Order No.	Weight per PU approx.	Individual parts of the rotary operating mechanism				
			Handle with masking plate	Coupling drivers	Extension shaft (length 300 mm)	Reducer/shaft coupling	
Standard: Ti-grey handle, light-gray masking plate; EMERGENCY-STOP: Red handle, yellow masking plate		kg	Order No.	Order No.	Order No.	Order No.	
Standard EMERGENCY-STOP (coupling driver made of plastic)	<b>8UC71116BD15</b>	0.200	8UC7110-6BD	□ 6 mm 8UC7011-2AA	□ 6 mm 8UC6031	□ 8 mm by 6 mm 8UC7058	
	<b>8UC71218BD15</b>	0.200	8UC7120-8BD	8UC7011-2AA	8UC6031	8UC7058	
Standard EMERGENCY-STOP (Die cast coupling driver with reduced tolerance compensation)	<b>8UC71626BD22</b>	0.200	8UC7110-6BD	□ 8 mm 8UC6017-2AA	□ 8 mm 8UC6032	□ 8 mm by 8 mm 8UC6022	
	<b>8UC71728BD22</b>	0.200	8UC7120-8BD	8UC6017-2AA	8UC6032	8UC6022	
Standard EMERGENCY-STOP (Die cast coupling driver with reduced tolerance compensation)	<b>8UC72626BD26</b>	0.200	8UC7210-6BD	□ 8 mm 8UC6017-2AA	□ 8 mm 8UC6032	□ 12 mm by 8 mm 8UC7050	
	<b>8UC72628BD26</b>	0.200	8UC7220-8BD	8UC6017-2AA	8UC6032	8UC7050	
Standard EMERGENCY-STOP (Die cast coupling driver)	<b>8UC73146BD44</b>	0.200	8UC7310-6BD	□ 12 mm 8UC6014	□ 12 mm 8UC6034	□ 12 mm by 12 mm 8UC6024	
	<b>8UC73248BD44</b>	0.200	8UC7320-8BD	8UC6014	8UC6034	8UC6024	

# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	For VL160X (3VL1) Order No.	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	A <b>3VL91004PA30</b>	2.170
3-pole with RCD module	A <b>3VL91004PB30</b>	2.460
4-pole	A <b>3VL91004PA40</b>	2.850
4-pole with RCD module	A <b>3VL91004PB40</b>	3.200
<b>90° angle connecting adapters</b>		
For rear connection, 3-pole	A <b>3VL93004PE30</b>	0.375
For rear connection, 4-pole	A <b>3VL93004PE40</b>	0.500
<b>Front-accessible connections</b>		
3-pole	A <b>3VL91004PC30</b>	1.980
3-pole with RCD module	A <b>3VL91004PD30</b>	2.260
4-pole	A <b>3VL91004PC40</b>	2.620
4-pole with RCD module	A <b>3VL91004PD40</b>	2.960
<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 version</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	A <b>3VL91004PS30</b>
1 set = 8 units	4-pole	A <b>3VL91004PS40</b>
		0.226
		0.295
<b>Trip pins and springs</b> As replacement for plug-in/withdrawable circuit breaker		
	A <b>3VL91004PF00</b>	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	A <b>3VL93004PJ00</b>	0.134
<b>Position signaling switches</b> (connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible		
	A <b>3VL90004WL00</b>	0.019

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

## 3VL IEC Rated Molded Case Circuit Breakers

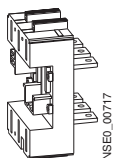
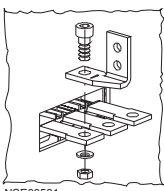
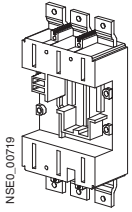
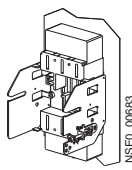


## Accessories and spare parts

For VL160 (3VL2)		Weight per PU approx. kg	For VL250 (3VL3)		Weight per PU approx. kg
Order No.			Order No.		
3VL92004PA30		2.170	3VL93004PA30		2.280
3VL92004PB30		2.460	3VL93004PB30		2.570
3VL92004PA40		2.850	3VL93004PA40		3.000
3VL92004PB40		3.200	3VL93004PB40		3.330
3VL93004PE30		0.375	3VL93004PE30		0.375
3VL93004PE40		0.500	3VL93004PE40		0.500
3VL92004PC30		1.980	3VL93004PC30		2.090
3VL92004PD30		2.260	3VL93004PD30		2.370
3VL92004PC40		2.620	3VL93004PC40		2.770
3VL92004PD40		2.960	3VL93004PD40		3.070
3VL93004WF30		1.260	3VL93004WF30		1.260
3VL93004WG30		2.031	3VL93004WG30		2.031
3VL93004WF40		1.280	3VL93004WF40		1.280
3VL93004WG40		2.050	3VL93004WG40		2.050
3VL92004WA30		3.430	3VL93004WA30		3.540
3VL92004WB30		4.000	3VL93004WB30		4.601
3VL92004WA40		4.130	3VL93004WA40		4.280
3VL92004WB40		4.940	3VL93004WB40		5.361
3VL92004WC30		3.240	3VL93004WC30		3.350
3VL92004WD30		3.810	3VL93004WD30		4.398
3VL92004WC40		3.940	3VL93004WC40		4.050
3VL92004WD40		4.710	3VL93004WD40		5.158
3VL92004PS30		0.248	3VL93004PS30		0.342
3VL92004PS40		0.330	3VL93004PS40		0.426
3VL93004PF00		0.013	3VL93004PF00		0.013
1) 3VL93004PJ00		0.134	1) 3VL93004PJ00		0.134
3VL90004WL00		0.019	3VL90004WL00		0.019



# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	For VL400 (3VL4) Order No.	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					
 <p>3VL9.004PA30</p>	3-pole	A 3VL94004PA30 --1)	5.869		
	3-pole with RCD module	A	3VL94004PA40	8.008	
	4-pole	A	3VL94004PB40	10.100	
	4-pole with RCD module	A			
<b>Rear terminals</b>					
<b>90° angle connecting adapters</b> For rear connection, 3-pole For rear connection, 4-pole					
<b>Front-accessible connections</b>					
 <p>3VL9.004PE30</p>	3-pole	A 3VL94004PC30 --1)	5.424		
	3-pole with RCD module	A	3VL94004PC40	7.408	
	4-pole	A	3VL94004PD40	9.500	
	4-pole with RCD module	A			
<b>Withdrawable version assembly kits</b> Upgrade of the plug-in base assembly kit to					
 <p>3VL9.004WF30</p>	Withdrawable version including side panels and racking mechanism.	3-pole 3-pole with RCD 4-pole 4-pole with RCD	A A A A	3VL94004WF30 --1) 3VL94004WF40 3VL94004WG40	3.400 3.600 3.800
	<b>Withdrawable version</b> Same as plug-in base assembly kit, with additional side panels and racking mechanism				
	<b>Rear terminals<sup>3)</sup></b>				
 <p>3VL9.004WA30</p>	3-pole	A	3VL94004WA30 --1)	8.769	
	3-pole with RCD module	A	3VL94004WA40	11.549	
	4-pole with RCD module	A	3VL94004WB40	13.200	
<b>Front-accessible connections</b>					
 <p>3VL9.004WC30</p>	3-pole	A	3VL94004WC30 --1)	8.324	
	3-pole with RCD module	A	3VL94004WC40	10.949	
	4-pole with RCD module	A	3VL94004WD40	12.600	
<b>Blade contacts</b> As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin					
 <p>3VL9.004WA30</p>	1 set = 6 units	3-pole	A	3VL94004PS30	0.720
	1 set = 8 units	4-pole	A	3VL94004PS40	0.960
<b>Trip pins and springs</b> As replacement for plug-in/withdrawable circuit breaker					
	A		3VL94004PF00	0.015	
<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	A		3VL94004PJ00	0.144	
<b>Position signaling switches</b> (connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible					
	A		3VL90004WL00	0.019	

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.

## 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

For VL630 (3VL5)		Weight per PU approx. kg	For VL800 (3VL6)	
Order No.	Order No.		Weight per PU approx. kg	
3VL95004PA30	8.200	--		
--		--		
3VL95004PA40	11.200	--		
--		--		
--		--		
3VL95004PC30	7.400	--		
--		--		
3VL95004PC40	9.600	--		
--		--		
3VL95004WF30	3.600	--		
--		--		
3VL95004WF40	3.800	--		
--		--		
3VL95004WA30	11.000	3VL96004WA30	40.104	
--		--		
3VL95004WA40	15.000	3VL96004WA40	48.060	
--		--		
3VL95004WC30	10.300	3VL96004WC30	40.716	
--		--		
3VL95004WC40	13.400	3VL96004WC40	48.876	
--		--		
3VL95004PS30	1.260	3VL96004PS30	1.500	
3VL95004PS40	1.680	3VL96004PS40	2.000	
3VL95004PF00	0.018	3VL96004PF00	0.025	
2)		2)		
3VL96004PJ00	0.144	3VL96004PJ00	0.144	
3VL90004WL00	0.019	3VL90004WL00	0.019	

# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	For VL1250 (3VL7) Order No.	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	--	
<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 3-pole	--	
	including side panels 3-pole with RCD	--	
	and racking mechanism. 4-pole	--	
	4-pole with RCD	--	
<b>Withdrawable version</b> Same as plug-in base assembly kit, with additional side panels and racking mechanism			
<b>Rear terminals<sup>1)</sup></b>			
	3-pole	A 3VL98004WA30	39.996
	3-pole with RCD module	--	
	4-pole	A 3VL98004WA40	47.148
	4-pole with RCD module	--	
<b>Front-accessible connections</b>			
	3-pole	A 3VL98004WC30	40.608
	3-pole with RCD module	--	
	4-pole	A 3VL98004WC40	47.964
	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	A 3VL98004PS30	2.000
	1 set = 8 units 4-pole	A 3VL98004PS40	2.660
<b>Trip pins and springs</b> As replacement for plug-in/withdrawable circuit breaker			
		A 3VL98004PF00	0.030
<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	A 3VL98004PJ00	0.144
<b>Position signaling switches</b> (connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible			
		A 3VL90004WL00	0.019

<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).

# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

**For VL1600 (3VL8)**

Order No.

Weight  
per PU  
approx.

kg

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---

**3VL98004WA30**  
---  
**3VL98004WA40**  
---  
**3VL98004WC30**  
---  
**3VL98004WC40**  
---

39.996  
47.148  
40.608  
47.964

**3VL98004PS30**  
**3VL98004PS40**

2.000  
2.660

**3VL98004PF00**

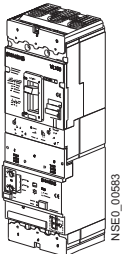
0.030

2)  
**3VL98004PJ00**  
**3VL90004WL00**

0.144  
0.019












# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

	Circuit breakers for system protection, <b>only for TM, starters, disconnectors</b>	Rated current $I_n$	Residual currents $I_{\Delta}$ adjustable	Delay time $t_d$ adjustable	Rated operational voltage $U_e$	Order No.	Weight per PU approx.	
	A	A	s	V AC		kg		
<b>RCD modules</b>								
	<b>3-pole</b>							
	VL160X (3VL1)		0.03	Instantaneous				
	Bottom mounting <sup>1)2)</sup>	160	0.10	0.06	127 ... 480	A	<b>3VL91125GA30</b>	1.340
	VL160 (3VL2)	160	0.30	0.10	127 ... 480	A	<b>3VL92165GC30</b>	1.320
			0.50	0.25	230 ... 690	A	<b>3VL92165GD30</b>	1.320
	VL250 (3VL3)	250	1.00	0.50	127 ... 480	A	<b>3VL93255GE30</b>	1.400
			3.00	1.00	230 ... 690	A	<b>3VL93255GF30</b>	1.400
	VL400 (3VL4)	400			127 ... 480	--	--	
					230 ... 690	--	--	
	Molded case circuit breakers VL160X to VL400 with RCD module mounted below the circuit breaker	<b>4-pole</b>						
VL160X (3VL1)		0.03	Instantaneous					
Bottom mounting <sup>1)2)</sup>	160	0.10	0.06	127 ... 480	A	<b>3VL91125GA40</b>	1.590	
VL160 (3VL2)	160	0.30	0.10	127 ... 480	A	<b>3VL92165GC40</b>	1.570	
		0.50	0.25	230 ... 690	A	<b>3VL92165GD40</b>	1.570	
VL250 (3VL3)	250	1.00	0.50	127 ... 480	A	<b>3VL93255GE40</b>	1.650	
		3.00	1.00	230 ... 690	A	<b>3VL93255GF40</b>	1.650	
VL400 (3VL4)	400			127 ... 480	A	<b>3VL94405GG40</b>	2.980	
				230 ... 690	A	<b>3VL94405GH40</b>	2.980	

## 3VL IEC Rated Molded Case Circuit Breakers































## Accessories and spare parts

Version	For VL160X (3VL1) Order No.	Weight per PU approx. kg
<b>Connection parts for fixed-mounted circuit breakers</b>		
<b>3- or 4-pole</b>		
<b>Front connecting bars<sup>1)</sup></b>		
Phase barriers included.		
Standard		
 NSE0_00702	1 set = 3 units      3-pole	<b>3VL92164EC30</b> 0.198
3VL9.004EC40	1 set = 4 units      4-pole	<b>3VL92164EC40</b> 0.198
For increased pole spacing		
 NSE0_00722	1 set = 3 units      3-pole	<b>3VL92164ED30</b> 0.189
3VL9.004ED40	1 set = 4 units      4-pole	<b>3VL92164ED40</b> 0.252
<b>Rear terminals</b>		
Short connection (1 unit)		
		<b>3VL91004RA00</b> 0.126
Long connection (1 unit)		
		<b>3VL91004RB00</b> 0.229
Terminal kit (2 short + 1 long)		
3VL9.004RA00, 3VL9.004RB00	3-pole	<b>3VL91004RC30</b> 0.481
Terminal kit (2 short + 2 long)		
	4-pole	<b>3VL91004RF40</b> 0.711
Short flat connection (1 unit)		
		<b>3VL91004RK00</b> 0.104
Long flat connection (1 unit)		
		<b>3VL91004RL00</b> 0.200
Flat connector kit (2 short + 1 long)		
3VL9.004RK00, 3VL9.004RL00	3-pole	<b>3VL91004RM30</b> 0.408
Flat connector kit (2 short + 2 long)		
	4-pole	<b>3VL91004RN40</b> 0.608
<b>Box terminals</b>		
For connection for flexible flat copper busbar or cable, see Technical Information at <a href="http://www.siemens.com/lowvoltage/support">www.siemens.com/lowvoltage/support</a> .		
 NSE0_00700	1 set = 3 units	<b>3VL91004TC30</b> 0.084
3VL9.004TC.0	1 set = 4 units	<b>3VL91004TC40</b> 0.112
<b>Circular conductor terminals</b>		
Only for cables (Al or Cu)		
Aluminum terminal (tinned)		
 NSE0_01529	1 set = 3 units	<b>3VL91004TD30</b> 0.041
3VL9.004TD.0	1 set = 4 units	<b>3VL91004TD40</b> 0.055
<b>Circular conductor terminal with terminal covers for cable (Al or Cu)</b>		
	1 set = 3 units	<b>3VL91154TD30</b> 0.150
	1 set = 4 units	<b>3VL91154TD40</b> 0.150
<b>Auxiliary conductor terminals</b>		
For box terminals/circular conductor terminals		
	1 set = 10 units	<b>3VL92003TN00</b> 0.130
<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/support">www.siemens.com/lowvoltage/support</a> .		
 NSE0_00701	1 set = 3 units	<b>3VL91164TA30</b> 0.055
3VL9.004TA.0	1 set = 4 units	<b>3VL91164TA40</b> 0.070
<b>Connection covers (terminal covers) for circuit breakers</b>		
Degree of protection IP30 for main connections		
1 set = 2 units		
 NSE0_00730	Extended      3-pole	<b>3VL93008CA30</b> 0.204
3VL9.003CB.0	Standard      3-pole	<b>3VL93008CB30</b> 0.053
	Extended      4-pole	<b>3VL93008CA40</b> 0.264
	Standard      4-pole	<b>3VL93008CB40</b> 0.071
<b>Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions</b>		
 NSE0_00731	1 set = 2 units	<b>3VL93008CE00</b> 0.023
3VL9.008CE00		

<sup>1)</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/support](http://www.siemens.com/lowvoltage/support).

# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	For VL160 (3VL2) Order No.	Weight per PU approx. kg
<b>Connection parts for fixed-mounted circuit breakers</b>		
<b>3- or 4-pole</b>		
<b>Front connecting bars<sup>1)</sup></b> Phase barriers included.		
Standard		
 NSE0_00702 3VL9.004EC40	1 set = 3 units A	<b>3VL92164EC30</b> 0.198
 NSE0_00722 3VL9.004ED40	1 set = 4 units A	<b>3VL92164EC40</b> 0.198
For increased pole spacing		
 NSE0_00722 3VL9.004ED40	1 set = 3 units A	<b>3VL92164ED30</b> 0.189
 NSE0_00722 3VL9.004ED40	1 set = 4 units A	<b>3VL92164ED40</b> 0.252
<b>Rear terminals</b>		
 NSE0_00723 3VL9.004RA00, 3VL9.004RB00	Short connection (1 unit) A	<b>3VL92004RA00</b> 0.126
 NSE0_00723 3VL9.004RA00, 3VL9.004RB00	Long connection (1 unit) A	<b>3VL92004RB00</b> 0.229
 NSE0_00724 3VL9.004RK00, 3VL9.004RL00	Terminal kit (2 short + 1 long) 3-pole A	<b>3VL92004RC30</b> 0.481
 NSE0_00724 3VL9.004RK00, 3VL9.004RL00	Terminal kit (2 short + 2 long) 4-pole A	<b>3VL92004RF40</b> 0.711
 NSE0_00724 3VL9.004RK00, 3VL9.004RL00	Short flat connection (1 unit) A	<b>3VL92004RK00</b> 0.104
 NSE0_00724 3VL9.004RK00, 3VL9.004RL00	Long flat connection (1 unit) A	<b>3VL92004RL00</b> 0.200
 NSE0_00724 3VL9.004RK00, 3VL9.004RL00	Flat connector kit (2 short + 1 long) 3-pole A	<b>3VL92004RM30</b> 0.408
 NSE0_00724 3VL9.004RK00, 3VL9.004RL00	Flat connector kit (2 short + 2 long) 4-pole A	<b>3VL92004RN40</b> 0.608
<b>Box terminals</b> Connection for flexible flat copper busbar or cable. see Technical Information at <a href="http://www.siemens.com/lowvoltage/support">www.siemens.com/lowvoltage/support</a>		
 NSE0_00700 3VL9.004TC.0	1 set = 3 units A	<b>3VL92004TC30</b> 0.084
 NSE0_01529 3VL9.004TD.0	1 set = 4 units A	<b>3VL92004TC40</b> 0.112
<b>Circular conductor terminals</b> Only for cables (Al or Cu) <u>Aluminum terminal (tinned)</u>		
 NSE0_01529 3VL9.004TD.0	1 set = 3 units C	<b>3VL92004TD30</b> 0.041
 NSE0_01529 3VL9.004TD.0	1 set = 4 units C	<b>3VL92004TD40</b> 0.055
<b>Circular conductor terminal with terminal covers for cable (Al or Cu)</b>		
 NSE0_01542 3VL9.004TF.0	1 set = 3 units A	<b>3VL92154TD30</b> 0.150
 NSE0_01543 3VL9.004TF.0	1 set = 4 units B	<b>3VL92154TD40</b> 0.150
<b>Multiple feed-in terminals</b>		
 NSE0_01542 3VL9.004TF.0	3 units --	--
 NSE0_01543 3VL9.004TF.0	4 units --	--
<b>Multiple feed-in terminal with terminal covers</b>		
 NSE0_01543 3VL9.004TF.0	3 units (2 x 70 ... 300) --	--
 NSE0_01543 3VL9.004TF.0	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		
 NSE0_00701 3VL9.004TA.0	A	<b>3VL92003TN00</b> 0.130
<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/support">www.siemens.com/lowvoltage/support</a> .		
 NSE0_00701 3VL9.004TA.0	1 set = 3 units A	<b>3VL92164TA30</b> 0.055
 NSE0_00701 3VL9.004TA.0	1 set = 4 units A	<b>3VL92164TA40</b> 0.070
<b>Connection covers (terminal covers) for circuit breakers</b> Degree of protection IP30 for main connections 1 set = 2 units		
 NSE0_00730 3VL9.003CB.0	Extended 3-pole A	<b>3VL93008CA30</b> 0.204
 NSE0_00730 3VL9.003CB.0	Standard 3-pole A	<b>3VL93008CB30</b> 0.053
 NSE0_00730 3VL9.003CB.0	Extended 4-pole A	<b>3VL93008CA40</b> 0.264
 NSE0_00730 3VL9.003CB.0	Standard 4-pole A	<b>3VL93008CB40</b> 0.071
<b>Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions</b>		
 NSE0_00731 3VL9.008CE00	1 set = 2 units A	<b>3VL93008CE00</b> 0.023

<sup>1)</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/support](http://www.siemens.com/lowvoltage/support).

## 3VL IEC Rated Molded Case Circuit Breakers





















## Accessories and spare parts

For VL250 (3VL3)		Weight per PU approx. kg	For VL400 (3VL4)		Weight per PU approx. kg
Order No.			Order No.		
3VL93004EC30 3VL93004EC40		0.256 0.345	3VL94004EC30 3VL94004EC40		0.889 1.193
3VL93004ED30 3VL93004ED40		0.256 0.345	3VL94004ED30 3VL94004ED40		0.916 1.229
3VL93004RA00 3VL93004RB00		0.126 0.229	3VL94004RA00 3VL94004RB00		0.219 0.377
3VL93004RC30 3VL93004RF40		0.481 0.711	3VL94004RC30 3VL94004RF40		0.816 1.192
3VL93004RK00 3VL93004RL00		0.104 0.200	3VL94004RK00 3VL94004RL00		0.343 0.502
3VL93004RM30 3VL93004RN40		0.408 0.608	3VL94004RM30 3VL94004RN40		1.190 1.690
3VL93004TC30 3VL93004TC40		0.192 0.256	3VL94004TC30 3VL94004TC40		0.423 0.573
3VL93004TD30 3VL93004TD40		0.159 0.212	3VL94004TD30 3VL94004TD40		0.260 0.340
3VL93244TD30 3VL93244TD40		0.150 0.150	-- --		
-- --			3VL94004TF30 3VL94004TF40		0.420 0.560
-- --			3VL94604TF30 3VL94604TF40		0.150 0.150
3VL93003TN00		0.150	3VL94003TN00		0.140
3VL93004TA30 3VL93004TA40		0.090 0.120	3VL94004TA30 3VL94004TA40		0.112 0.149
3VL93008CA30 3VL93008CB30 3VL93008CA40 3VL93008CB40		0.204 0.053 0.264 0.071	3VL94008CA30 3VL94008CB30 3VL94008CA40 3VL94008CB40		0.450 0.120 0.594 0.164
3VL93008CE00		0.023	3VL96008CE00		0.042



# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	For VL630 (3VL5) Order No.	Weight per PU approx. kg
<b>Connection parts for fixed-mounted circuit breakers</b>		
<b>3- or 4-pole</b>		
<b>Front connecting bars</b>		
Phase barriers included.		
Standard		
 NSE0_00702 3VL9.004EC40	1 set = 3 units 3-pole A	<b>3VL95004EC30</b> 1.028
 NSE0_00722 3VL9.004ED40	1 set = 4 units 4-pole A	<b>3VL95004EC40</b> 1.371
For increased pole spacing		
 NSE0_00722 3VL9.004ED40	1 set = 3 units 3-pole A	<b>3VL95004ED30</b> 1.059
 NSE0_00722 3VL9.004ED40	1 set = 4 units 4-pole A	<b>3VL95004ED40</b> 1.412
<b>Rear terminals</b>		
Short connection (1 unit)		
Long connection (1 unit)		
Terminal kit (2 short + 1 long) 3-pole		
Terminal kit (2 short + 2 long) 4-pole		
Short flat connection (1 unit)		
Long flat connection (1 unit)		
Flat connector kit (2 short + 1 long) 3-pole		
Flat connector kit (2 short + 2 long) 4-pole		
 NSE0_00723 3VL9.004RA00, 3VL9.004RB00		--
 NSE0_00723 3VL9.004RA00, 3VL9.004RB00		--
 NSE0_00724 3VL9.004RK00, 3VL9.004RL00		--
 NSE0_00724 3VL9.004RK00, 3VL9.004RL00		--
 NSE0_00725 3VL9.004RG00		--
 NSE0_00725 3VL9.004RG00		--
 NSE0_01542 3VL9.004TF.0		--
 NSE0_01543 3VL9.004TF.0		--
 NSE0_01544 3VL9.004TG.0		--
 NSE0_01544 3VL9.004TG.0		--
 NSE0_01530 3VL9.004TT.0		--
 NSE0_01530 3VL9.004TT.0		--
 NSE0_00701 3VL9.004TA.0		--
 NSE0_00701 3VL9.004TA.0		--
 NSE0_00730 3VL9.003CB.0		--
 NSE0_00731 3VL9.008CE00		--
<b>Multiple feed-in terminals</b>		
Only for cables (Al or Cu)		
<u>Aluminum terminal (tinned)</u>		
1 set = 3 units		
1 set = 4 units		
A		
<b>3VL95004TG30</b>		
<b>3VL95004TG40</b>		
0.461		
0.614		
<b>Auxiliary conductor terminals</b>		
For multiple feed-in terminals		
1 set = 10 units		
A		
<b>3VL94003TN00</b>		
0.140		
<b>Terminal plates<sup>1)</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		
1 set = 4 units		
A		
<b>3VL95004TT30</b>		
<b>3VL95004TT40</b>		
1.350		
1.800		
<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/support">www.siemens.com/lowvoltage/support</a> .		
1 set = 3 units		
1 set = 4 units		
C		
<b>3VL95004TA30</b>		
<b>3VL95004TA40</b>		
0.150		
0.200		
<b>Connection covers (terminal covers) for circuit breakers</b>		
Degree of protection IP30 for main connections		
1 set = 2 units		
Extended 3-pole		
Standard 3-pole		
Extended 4-pole		
Standard 4-pole		
A		
<b>3VL96008CA30</b>		
<b>3VL96008CB30</b>		
<b>3VL96008CA40</b>		
<b>3VL96008CB40</b>		
0.696		
0.210		
0.960		
0.270		
<b>Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions<sup>2)</sup></b>		
1 set = 2 units		
A		
<b>3VL96008CE00</b>		
0.042		

1) Front connecting bars included in scope of supply; not for 690 V AC/600 V DC.

## 3VL IEC Rated Molded Case Circuit Breakers











## Accessories and spare parts

For VL800 (3VL6)		Weight	For VL1250 (3VL7)		Weight
Order No.		per PU	Order No.		per PU
		approx.			approx.
		kg			kg
<b>3VL96004EC30</b>		1.602	<b>3VL98004EC30</b>		3.313
<b>3VL96004EC40</b>		2.136	<b>3VL98004EC40</b>		4.438
<b>3VL96004ED30</b>		1.613	--		--
<b>3VL96004ED40</b>		2.154	--		--
--			--		
--			--		
--			--		
--			--		
--			--		
--			--		
<b>3VL96004RG00</b>		1.604	<b>3VL97004RG00</b>		1.604
<b>3VL96004RH30</b>		4.812	<b>3VL97004RH30</b>		4.812
<b>3VL96004RH40</b>		6.416	<b>3VL97004RH40</b>		6.416
<b>3VL96004TG30</b>		0.918	<b>3VL97004TG30</b>		2.175
<b>3VL96004TG40</b>		1.224	<b>3VL97004TG40</b>		2.900
<b>3VL94003TN00</b>		0.140	<b>3VL94003TN00</b>		0.140
			--		
			--		
<b>3VL96004TA30</b>		0.289	<b>3VL98004TA30</b>		0.319
<b>3VL96004TA40</b>		0.386	<b>3VL98004TA40</b>		0.426
<b>3VL96008CA30</b>		0.696	<b>3VL98008CA30</b>		1.060
<b>3VL96008CB30</b>		0.210	<b>3VL98008CB30</b>		0.360
<b>3VL96008CA40</b>		0.960	<b>3VL98008CA40</b>		1.326
<b>3VL96008CB40</b>		0.270	<b>3VL98008CB40</b>		0.470
<b>3VL96008CE00</b>		0.042	<b>3VL98008CE00</b>		0.130

<sup>2)</sup> Plug-in version: Not for VL1250 (3VL7),  
 withdrawable version: Not for VL800 (3VL6) and VL1250 (3VL7).

# 3VL IEC Rated Molded Case Circuit Breakers

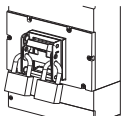
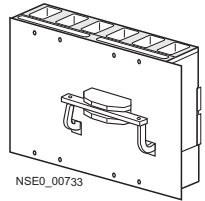
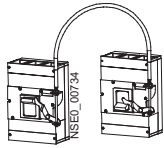
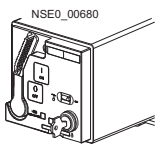
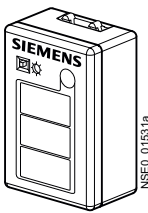
## Accessories and spare parts

Version	For VL1600 (3VL8) Order No.	Weight per PU approx. kg
<b>Connection parts for fixed-mounted circuit breakers</b>		
<b>3- or 4-pole</b>		
<b>Front connecting bars</b>		
Phase barriers included.		
Standard <sup>1)</sup>		
 NSE0_00702 3VL9.004EC40	1 set = 3 units 3-pole C	<b>3VL98004EC30</b> 3.313
	1 set = 4 units 4-pole C	<b>3VL98004EC40</b> 4.438
For increased pole spacing		
 NSE0_00722 3VL9.004ED40	1 set = 3 units 3-pole --	
	1 set = 4 units 4-pole --	
<b>Rear terminals</b>		
Short connection (1 unit)		
	--	
Long connection (1 unit)		
	--	
 NSE0_00723 3VL9.004RA00, 3VL9.004RB00	Terminal kit (2 short + 1 long) 3-pole --	
	Terminal kit (2 short + 2 long) 4-pole --	
Short flat connection (1 unit)		
	--	
Long flat connection (1 unit)		
	--	
 NSE0_00724 3VL9.004RK00, 3VL9.004RL00	Flat connector kit (2 short + 1 long) 3-pole --	
	Flat connector kit (2 short + 2 long) 4-pole --	
 NSE0_00725 3VL9.004RG00	Flat connecting bar (1 unit) A	<b>3VL98004RG00</b> 1.527
	Flat connecting bar Set = 3 units, 3-pole A	<b>3VL98004RH30</b> 4.581
	Flat connecting bar Set = 4 units, 4-pole A	<b>3VL98004RH40</b> 6.108
<b>Box terminals</b>		
For connection for flexible flat copper busbar or cable, see Technical Information at <a href="http://www.siemens.com/lowvoltage/support">www.siemens.com/lowvoltage/support</a> .		
 NSE0_00700 3VL9.004TC.0	1 set = 3 units --	
	1 set = 4 units --	
<b>Multiple feed-in terminals</b>		
Only for cables (Al or Cu)		
Aluminum terminal (tinned)		
 NSE0_01544 3VL9.004TG.0	1 set = 3 units --	
	1 set = 4 units --	
<b>Auxiliary conductor terminals</b>		
For box terminals/aluminum terminals		
<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/support">www.siemens.com/lowvoltage/support</a> .		
 NSE0_00701 3VL9.004TA.0	1 set = 3 units C	<b>3VL98004TA30</b> 0.319
	1 set = 4 units C	<b>3VL98004TA40</b> 0.426
<b>Connection covers (terminal covers) for circuit breakers</b>		
Degree of protection IP30 for main connections		
1 set = 2 units		
 NSE0_00730 3VL9.003CB.0	Extended 3-pole A	<b>3VL98008CA30</b> 1.060
	Standard 3-pole A	<b>3VL98008CB30</b> 0.360
	Extended 4-pole A	<b>3VL98008CA40</b> 1.326
 NSE0_00731 3VL9.008CE00	Standard 4-pole A	<b>3VL98008CB40</b> 0.470
<b>Phase barriers for fixed-mounted circuit breakers</b>		
	1 set = 2 units C	<b>3VL98008CE00</b> 0.130

<sup>1)</sup> In scope of supply of circuit breaker.

## 3VL IEC Rated Molded Case Circuit Breakers

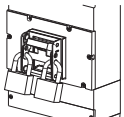
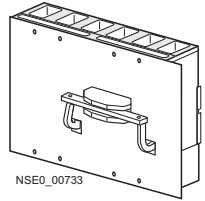
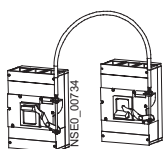
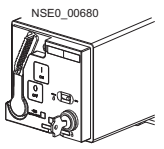
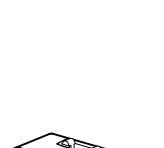
## Accessories and spare parts

Version	For VL160X (3VL1) Order No.	Weight per PU approx. kg
<b>Interlocks</b>		
	<b>3- or 4-pole</b>	
 NSE0_00732 3VL9.003HL00	<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)	<b>3VL93003HL00</b> 0.052
 NSE0_00733 3VL9.008L.00	<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	<b>3VL93008LC00</b> 0.215 <b>3VL93008LD00</b> 0.223
	<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 Order No.) <b>3VL93008LA00</b> 0.174
 NSE0_00734 3VL9.008LA00	<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>3VL90008LH10</b> 0.206 <b>3VL90008LH20</b> 0.298 <b>3VL90008LH30</b> 0.412
 NSE0_00680 3VL9...8HA00	<b>Safety lock assembly kits</b> Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms Lock types Ronis For motorized operating mechanism with stored energy mechanism Lock types Ronis Filli Giussani	<b>3VL97158HA00</b> 0.309 -- <b>3VL93218HA00</b> 0.053
	<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	<b>3VL93008SA40</b> 0.030
	<b>Transparent covers for releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Units Thermal-magnetic	-- <b>3VL93008BM00</b> 0.015
 NSE0_01531a 3VL90008AP01	<b>Battery power supply for activating/parameterizing the LCD ETU release, with test function for all IEC and UL ETUs.</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 and withdrawable version.

# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	For VL160 (3VL2) Order No.	Weight per PU approx. kg
<b>Interlocks</b>		
<b>3- or 4-pole</b>		
 NSE0_00732 3VL9.003HL00	<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)	C 3VL93003HL00 0.052
 NSE0_00733 3VL9.008L.00	<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	C 3VL93008LC00 0.215 C 3VL93008LD00 0.223
 NSE0_00734 3VL9.008LA00	<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	C 3VL93008LA00 0.174
 NSE0_00680 3VL9...8HA00	<b>Bowden wires for Bowden wire interlocking<sup>1)</sup></b> Wire length 0.5 m Wire length 1.0 m Wire length 1.5 m	C 3VL90008LH10 0.206 C 3VL90008LH20 0.298 C 3VL90008LH30 0.412
 NSE0_01531a 3VL90008AP01	<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 Filli Giussani	A 3VL97158HA00 0.309 -- A 3VL93218HA00 0.053
	<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	A 3VL93008SA40 0.030
	<b>Transparent covers for releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Units Thermal-magnetic	C 3VL97008BL00 0.002 A 3VL93008BM00 0.015
	<b>Battery power supply for activating/parameterizing the LCD ETU release, with test function for all IEC and UL ETUs.</b> (two 9 V blocks are required in addition)	B 3VL90008AP01 0.605

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

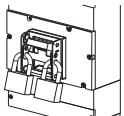
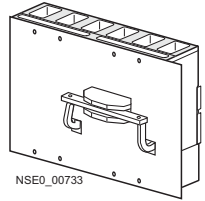
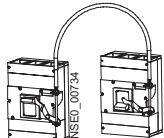
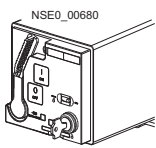
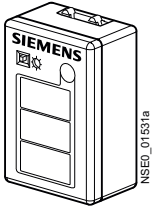
## 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

For VL250 (3VL3) Order No.	Weight per PU approx. kg	For VL400 (3VL4) Order No.	Weight per PU approx. kg
3VL93003HL00	0.052	3VL94003HL00	0.122
3VL93008LC00 3VL93008LD00	0.215 0.223	3VL94008LC00 3VL94008LD00	0.386 0.436
3VL93008LA00	0.174	3VL94008LA00	0.196
3VL90008LH10 3VL90008LH20 3VL90008LH30	0.206 0.298 0.412	-- 3VL90008LH20 3VL90008LH30	0.298 0.412
3VL97158HA00	0.309	3VL97158HA00	0.309
-- 3VL93218HA00	0.053	3VL97158HA00 --	0.309
3VL93008SA40	0.030	3VL95008SA40	0.090
3VL97008BL00 3VL93008BM00	0.002 0.015	3VL97008BL00 3VL94008BM00	0.002 0.017
3VL90008AP01	0.605	3VL90008AP01	0.605

# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	For VL630 (3VL5) Order No.	Weight per PU approx. kg
<b>Interlocks</b>		
<b>3- or 4-pole</b>		
 NSE0_00732 3VL9.003HL00	<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)	C
	<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)	C
 NSE0_00733 3VL9.008L.00	Fixed-mounted circuit breakers	C
	Plug-in/withdrawable circuit breakers	C
 NSE0_00734 3VL9.008LA00	<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	C
	<b>Bowden wires for Bowden wire interlocking<sup>1)</sup></b> Wire length 0.5 m Wire length 1.0 m Wire length 1.5 m	-- C C
 NSE0_00680 3VL9...8HA00	<b>Safety lock assembly kits</b> Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms Lock types Ronis	A
	For motorized operating mechanism with stored energy mechanism Lock types Ronis Filli Giussani	A --
 NSE0_01531a 3VL90008AP01	<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	C
	<b>Transparent covers for releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Units Thermal-magnetic	C C
	<b>Battery power supply for activating/parameterizing the LCD ETU release, with test function for all IEC and UL ETUs.</b> (two 9 V blocks are required in addition)	B

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

## 3VL IEC Rated Molded Case Circuit Breakers

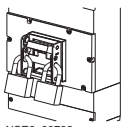
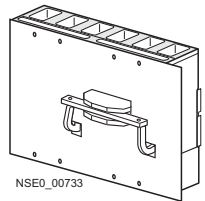
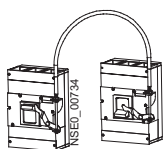
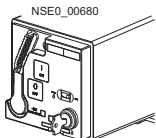
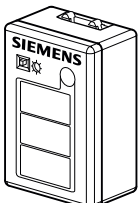
## Accessories and spare parts

For VL800 (3VL6)		Weight per PU approx. kg	For VL1250 (3VL7)		Weight per PU approx. kg
Order No.			Order No.		
3VL96003HL00		0.130	3VL98003HL00		0.238
3VL96008LC00		1.499	3VL98008LC00		2.935
3VL96008LD00		5.076	3VL98008LD00		3.825
3VL96008LA00		0.244	3VL98008LA00		0.283
--			--		
3VL90008LH20		0.298	--		
3VL90008LH30		0.412	3VL90008LH30		0.412
3VL97158HA00		0.309	3VL97158HA00		0.309
3VL97158HA00		0.309	3VL97158HA00		0.309
--			--		
3VL96008SA40		0.090	3VL98008SA40		0.090
3VL97008BL00		0.002	3VL97008BL00		0.002
--			--		
3VL90008AP01		0.605	3VL90008AP01		0.605



# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	For VL1600 (3VL8) Order No.	Weight per PU approx. kg
<b>Interlocks</b>		
<b>3- or 4-pole</b>		
 NSE0_00732 3VL9.003HL00	<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)	C 3VL98003HL00 0.238
	<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	C 3VL98008LC00 2.935 C 3VL98008LD00 3.825
 NSE0_00733 3VL9.008L.00	<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	C 3VL98008LA00 0.283
 NSE0_00734 3VL9.008LA00	<b>Bowden wires for Bowden wire interlocking<sup>2)</sup></b> Wire length 0.5 m Wire length 1.0 m Wire length 1.5 m	-- -- C 3VL90008LH30 0.412
	<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	A 3VL97158HA00 0.309
 NSE0_00680 3VL9...8HA00	<u>For motorized operating mechanisms</u> Lock types Ronis Filli Giussani	A 3VL97158HA00 0.309 --
	<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	A 3VL98008SA40 0.090
 NSE0_01531a 3VL90008AP01	<b>Transparent covers for releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)	C 3VL97008BL00 0.002 --
	<b>Battery power supply for activating/parameterizing the LCD ETU release, with test function for all IEC and UL ETUs.</b> (two 9 V blocks are required in addition)	B 3VL90008AP01 0.605

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

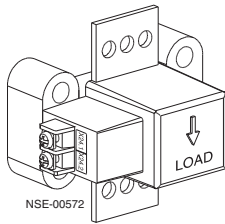
<sup>2)</sup> Two interlocking modules and one Bowden wire are required.  
 Cannot be used in conjunction with motorized operating mechanism and withdrawable version.

## 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Type	Rated current $I_n$ A	Order No.	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	<b>3VL92808TC00</b>	0.500
	100	<b>3VL92108TC00</b>	0.450
	160	<b>3VL92168TC00</b>	0.485
VL250/3VL3	200	<b>3VL93208TC00</b>	0.445
	250	<b>3VL93258TC00</b>	0.493
VL400/3VL4	315	<b>3VL94408TC00</b>	0.493
	400	<b>3VL94408TC00</b>	0.493
VL630/3VL5	630	<b>3VL95638TC00</b>	0.760
VL800/3VL6	800	<b>3VL96808TC00</b>	0.778
VL1250/3VL7	1000	<b>3VL97128TC00</b>	2.080
	1250	<b>3VL97128TC00</b>	2.080
VL1600/3VL8	1600	<b>3VL98168TC00</b>	2.110

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

Version	Order No.	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 ETU release with communication function and LCD ETU**

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.

**3VL90008AU00** 1.038

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

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.

**3VL90008AV00** 1.038

**Connection cable ETU – COM20/COM21**

For VL400, length 3 m  
For VL630 ... VL1600, length 3 m  
For VL160 ... VL250, length 3 m

**3VL90008AQ61** 0.210  
**3VL90008AQ71** 0.210  
**3VL90008AQ81** 0.210

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

On COM20/COM21 through the system interface

**3UF79100AA000** 0.030

**Switch ES Power parameterization software**

Calibration, operation, monitoring, and diagnostics of SENTRON circuit breakers via PROFIBUS DP; runs under Windows XP Professional, requires additional PROFIBUS card, e. g. CP5613

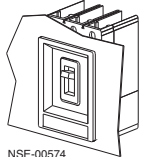

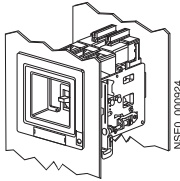
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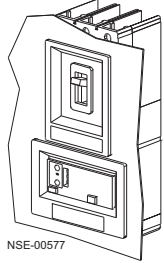
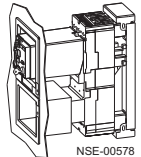
Communication:

- For molded case circuit breakers with communication function  
see pages 14 to 30, 42 to 52.

# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version		For VL160X (3VL1)		Weight per PU approx.
		Order No.	kg	
<b>Further accessories</b>				
<b>3- or 4-pole</b>				
<b>Masking frames (cover frames)</b>				
<b>For door cutouts</b>				
 NSE-00574 Masking frame A	<b>A</b>	Fixed-mounted or plug-in circuit breaker	A	0.038
	<b>IP40</b>			
 NSE-00575 Masking frame B	<b>B<sup>1)</sup></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	0.099
	<b>IP40</b>			
 NSE-00924 Masking frame C	<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)	--	
	<b>IP20</b>			
	<b>D</b>	Fixed-mounted circuit breaker or plug-in circuit breaker	A	0.034
	<b>IP40</b>	RCD circuit breaker masking frame	A	
		RCD masking frame	A	0.034
	<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	--	
	<b>IP40</b>	Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon	--	

Version		For VL400 (3VL4)		Weight per PU approx.
		Order No.	kg	
<b>Further accessories</b>				
<b>3- or 4-pole</b>				
<b>Masking frames (cover frames)</b>				
<b>For door cutouts</b>				
 NSE-00577 Masking frame D	<b>A</b>	Fixed-mounted or plug-in circuit breaker	A	0.027
	<b>IP40</b>			
	<b>B<sup>1)</sup></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	0.149
	<b>IP40</b>			
	<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)	A	0.426
	<b>IP20</b>			
 NSE-00578 Masking frame E	<b>D</b>	Fixed-mounted circuit breaker or plug-in circuit breaker	A	0.027
	<b>IP40</b>	RCD circuit breaker masking frame	A	
		RCD masking frame	A	0.047
	<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	A	0.426
	<b>IP40</b>	Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon	A	
			A	0.395

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

## 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

**For VL160 (3VL2)**

Order No.

Weight  
per PU  
approx.

kg

**For VL250 (3VL3)**

Order No.

Weight  
per PU  
approx.

kg

3VL93008BC00

0.038

3VL93008BC00

0.038

3VL93008BG00

0.099

3VL93008BG00

0.099

3VL93008BH00

0.267

3VL93008BH00

0.267

3VL93008BD00

0.034

3VL93008BD00

0.034

3VL93008BD00

0.034

3VL93008BD00

0.034

3VL93008BH00

0.267

3VL93008BH00

0.267

3VL93008BJ00

0.230

3VL93008BJ00

0.230

**For VL630 (3VL5)**

Order No.

Weight  
per PU  
approx.

kg

**For VL800 (3VL6)**

Order No.

Weight  
per PU  
approx.

kg

3VL96008BC00

0.055

3VL96008BC00

0.055

3VL96008BG00

0.177

3VL96008BG00

0.177

3VL96008BH00

0.575

3VL96008BH00

0.575

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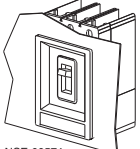
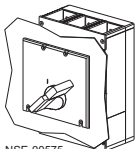
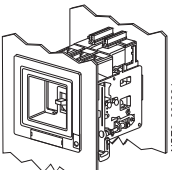
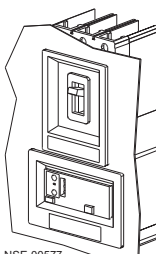
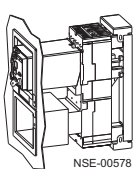
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# 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

Version	For VL1250 (3VL7) Order No.	Weight per PU approx. kg
<b>Further accessories</b>		
<b>3- or 4-pole</b>		
<b>Masking frames (cover frames) For door cutouts</b>		
 NSE-00574 Masking frame A	<b>A</b> <b>IP40</b> Fixed-mounted or plug-in circuit breaker	<b>3VL98008BC00</b>  0.043
 NSE-00575 Masking frame B	<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	<b>3VL98008BG00</b>  0.192
 NSE-00576 Masking frame C	<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>3VL98008BH00</b>  0.531
 NSE-00577 Masking frame D	<b>D</b> <b>IP40</b> Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame RCD masking frame	-- --
 NSE-00578 Masking frame E	<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	--  --

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

## 3VL IEC Rated Molded Case Circuit Breakers

## Accessories and spare parts

For VL1600 (3VL8)

Order No.

Weight  
per PU  
approx.

kg

3VL98008BC00

0.043

3VL98008BG00

0.192

3VL98008BH00

0.531

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# 3VL IEC Rated Molded Case Circuit Breakers

## Notes

Siemens Industry, Inc.  
5400 Triangle Parkway  
Norcross, GA, 30092  
USA

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US Catalog Number -CBSA-VLIEC-0113  
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