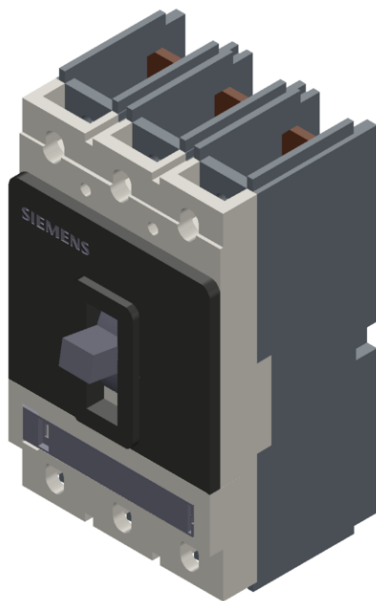


circuit breaker VL250 UL type FG (cat no. NFK3R100) non-interchangeable frame, with circuit breaker approval acc. to UL 489 standard breaking capacity 3-pole; NEMA rating 35KA@480V and 18KA@600/347V (molded case circuit breaker) Electronic Trip Unit ETU, LI TA=40°C In=100A, rated current II=1.25-11 xIN, short-circuit protection IR=40-100A Electronic Trip Unit for line protection without connection accessories without auxiliary/alarm switch



Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	ETU545
General technical data	
Number of poles	3
Size of the circuit-breaker	3VL3 UL
Electrical endurance (switching cycles) / typical	10 000

Usage category	A
Performance class for circuit breaker	N
Mechanical service life (switching cycles) / typical	20 000
Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	Q
Operating frequency / maximum	120 1/s

Voltage

Rated operational voltage U _e / max.	690 V
Insulation voltage / rated value	800 V
Surge voltage resistance / rated value	8 kV
Operating voltage	
• rated value / maximum	690 V
• for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum	600 V
• for main current circuit / at AC / at 50 Hz / maximum	690 V
• for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum	600 V
• for main current circuit / at AC / at 60 Hz / maximum	690 V

Protection class

Protection class IP	IP20
Protective function of the overcurrent release	LI

Current

Operating current / at 45 °C / rated value	100 A
Continuous current / rated value	100 A
Derating temperature / for the rated value of the continuous current	50 °C
• acc. to UL 489	40 °C

Main circuit

Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating current	
• at 40 °C / rated value	100 A
• at 50 °C / rated value	100 A
• at 55 °C / rated value	95 A
• at 60 °C / rated value	95 A
• at 65 °C / rated value	80 A
• at 70 °C / rated value	80 A

Auxiliary circuit

Number of CO contacts / for auxiliary contacts	0
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	0

Suitability

Suitability for use	system protection
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Product details

Product component	
<ul style="list-style-type: none"> • Trip indicator • Auxiliary switch • Voltage trigger • undervoltage release • undervoltage release with leading contact 	<ul style="list-style-type: none"> No No No No No
Product extension / optional / motor drive	Yes

Product function

Product function	
<ul style="list-style-type: none"> • of thermal overload trip unit • Ground fault protection • for neutral conductors / Short-circuit and overload proof • Overload protection 	<ul style="list-style-type: none"> adjustable No No Yes

Short circuit

Operational short-circuit current breaking capacity (Ics)	
<ul style="list-style-type: none"> • at 240 V / rated value 	65 kA
Maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> • at 240 V / rated value • at 480 V / acc. to NEMA / rated value 	<ul style="list-style-type: none"> 65 kA 35 kA

Connections

Arrangement of electrical connectors / for main current circuit	front side
Type of electrical connection / for main current circuit	without connection accessoires

Mechanical Design

Height	185.5 mm
Width	104.5 mm
Depth	106.5 mm
Mounting type	fixed mounting

Certificates

Certificate of suitability	UL standard switching capacity (N), non-interchangeable
Reference code	
<ul style="list-style-type: none"> • acc. to DIN EN 61346-2 	Q

General Product Approval	EMC	Declaration of Conformity
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CCC



CSA

[Miscellaneous](#)



UL



C-Tick



EG-Konf.

Test Certificates	Shipping Approval	other			
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[Special Test Certificate](#)



RMRS

[Miscellaneous](#)

[Environmental Confirmations](#)

[Confirmation](#)

[Manufacturer Declaration](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3VL3510-1PB30-0AA0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3VL3510-1PB30-0AA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL3510-1PB30-0AA0

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>