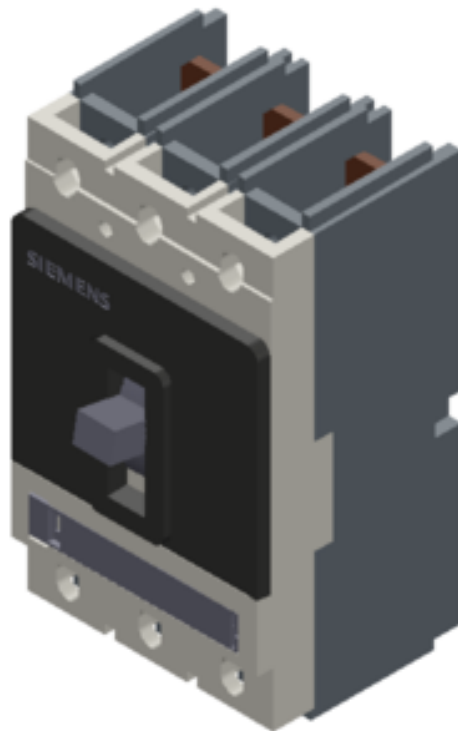




CIRCUIT-BREAKER VL 250 UL TYPE FG (CAT NO. NFK3B200) NON-INTERCHANGEABLE FRAME W. APPROBATION CIRCUIT-BREAKER ACC. UL489 STANDARD BREAKING CAPACITY 3-POLE, NEMA RATING 35KA@480V AND 18KA@600/347V (MOLDED CASE CIRCUIT BREAKER) OVERCURRENT RELEASE TM, LI TU= 40 DEGR. CELSIUS IN=200A, RATED CURRENT II= 1000...2000A SHORT-CIRCUIT PROTECTION IR= 200A OVERCURRENT RELEASE F. PLANT PROTECTION W/O CONNECTION ACCESSORIES

Model		
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		TM
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
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		Q
Operating frequency / maximum	1/s	120
Voltage		
Rated operational voltage Ue / max.	V	690
Insulation voltage		
• Rated value	V	800
• at AC / Rated value	V	800

Surge voltage resistance / Rated value	kV	8
Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LI
Dissipation		
Active power loss		
• maximum	W	80
Electricity		
Continuous current / Rated value	A	200
Derating temperature / for the rated value of the continuous current		
• acc. to UL 489	°C	40
Adjustable response value current		
• of the current-dependent overload release / Full-scale value	A	200
• of the instantaneous short-circuit release / initial value	A	1 000
• of the instantaneous short-circuit release / Full-scale value	A	2 000
Main circuit		
Operating frequency		
• 1 / Rated value	Hz	50
• 2 / Rated value	Hz	60
Operating voltage		
• for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum	V	600
• for main current circuit / at AC / at 50 Hz / maximum	V	690
• for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum	V	600
• for main current circuit / at AC / at 60 Hz / maximum	V	690
• for main current circuit / at DC / acc. to UL 489 / maximum	V	500
Operating current		
• at 40 °C / Rated value	A	200
• at 50 °C / Rated value	A	186
• at 55 °C / Rated value	A	172
• at 60 °C / Rated value	A	172
Auxiliary circuit		
Number of CO contacts / for auxiliary contacts		0
Number of NC contacts / for auxiliary contacts		1

Number of NO contacts / for auxiliary contacts		1
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current / of the current-dependent overload release / initial value	A	200
Product details		
Product component		
• Trip indicator		No
• Auxiliary switch		Yes
• Voltage trigger		No
• undervoltage release		No
• undervoltage release with leading contact		No
Product expansion / optional / motor drive		Yes
Product function		
Product function		
• of the thermal overload release		fixed
• Ground fault protection		No
• for neutral conductors / Short-circuit and overload proof		No
• overload protection		Yes
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	65
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	65
• at 480 V / acc. to NEMA / Rated value	kA	35
Connections		
Arrangement of electrical connectors / for main current circuit		front side
Type of connectable conductor cross-section		
• for main contacts		
— with flexible busbar		24 x 7 mm
— solid		35 ... 120 mm ²
— stranded		35 ... 120 mm ²
• for auxiliary contacts		
— solid		0.75 ... 1.5 mm ²
— finely stranded / with core end processing		0,75 ... 1.0 mm ²
Type of electrical connection / for main current circuit		without connection accessoires

Mechanical Design

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

Environmental conditions

Ambient temperature		
• during operation / minimum	°C	0
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	80

Certificates

Certificate of suitability		UL standard switching capacity (N), non-interchangeable
Equipment marking		Q
• acc. to DIN EN 61346-2		

General Product Approval

EMC



[sonstig](#)



Declaration of Conformity	Test Certificates	Shipping Approval	other
EG-Konf.	spezielle Prüfbescheinigung n	RMRS	sonstig Umweltbestätigung Bestätigungen

Further information

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

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

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VL35201KN300AB1>

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

<http://support.automation.siemens.com/WW/view/en/3VL35201KN300AB1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL35201KN300AB1

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

last modified:

09.11.2015