



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	120 1/s
Voltage	
Rated operational voltage U <sub>e</sub> / max.	690 V
Insulation voltage	
• rated value	800 V
• at AC / rated value	800 V

Surge voltage resistance / rated value	8 kV
<b>Protection class</b>	
Protection class IP	IP20
Protective function of the overcurrent release	LI
<b>Dissipation</b>	
Power loss [W]	
• maximum	80 W
<b>Electricity</b>	
Continuous current / rated value	200 A
Derating temperature / for the rated value of the continuous current	
• acc. to UL 489	40 °C
<b>Adjustable pick-up value current</b>	
• of the current-dependent overload release / Full-scale value	200 A
• of instantaneous short-circuit trip unit / initial value	1 000 A
• of instantaneous short-circuit trip unit / Full-scale value	2 000 A
<b>Main circuit</b>	
<b>Operating frequency</b>	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
<b>Operating voltage</b>	
• 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
• for main current circuit / at DC / acc. to UL 489 / maximum	500 V
<b>Operating current</b>	
• at 40 °C / rated value	200 A
• at 50 °C / rated value	186 A
• at 55 °C / rated value	172 A
• at 60 °C / rated value	172 A
<b>Suitability</b>	
Suitability for use	system protection

## Adjustable parameters

<b>Adjustable pick-up value current / of the current-dependent overload release / initial value</b>	200 A
---	-------

## Product details

<b>Product component</b>	
• Trip indicator	No
• Auxiliary switch	No
• Voltage trigger	No
• undervoltage release	No
• undervoltage release with leading contact	No
<b>Product extension / optional / motor drive</b>	Yes

## Product function

<b>Product function</b>	
• of thermal overload trip unit	fixed
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	No
• Overload protection	Yes

## Short circuit

<b>Operational short-circuit current breaking capacity (Ics)</b>	
• at 240 V / rated value	65 kA
<b>Maximum short-circuit current breaking capacity (Icu)</b>	
• at 240 V / rated value	65 kA
• at 480 V / acc. to NEMA / rated value	35 kA

## Connections

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

## Mechanical Design

<b>Height</b>	185.5 mm
<b>Width</b>	104.5 mm
<b>Depth</b>	106.5 mm
<b>Mounting type</b>	fixed mounting

## Environmental conditions

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

## Certificates

**Certificate of suitability** UL standard switching capacity (N), non-interchangeable

### Equipment marking

- acc. to DIN EN 61346-2

Q

### General Product Approval

### EMC

### Declaration of Conformity



[Sonstige](#)



### Test Certificates

### Shipping Approval

### other

[spezielle](#)

[Prüfbescheinigung](#)

[n](#)



[Sonstige](#)

[Umweltbestätigung](#)

[Bestätigungen](#)

## 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=3VL3520-1KN30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL3520-1KN30-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VL3520-1KN30-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL3520-1KN30-0AA0)

### CAX-Online-Generator

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

### Tender specifications

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