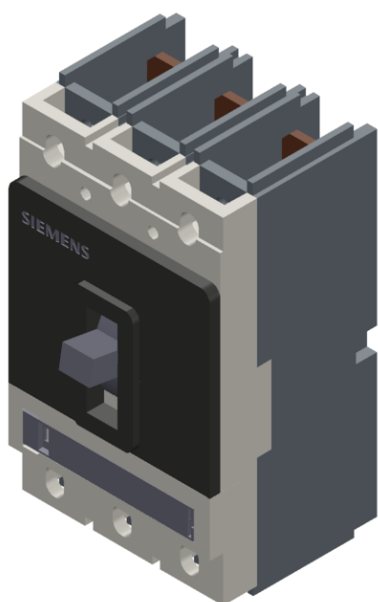


CIRCUIT-BREAKER VL 250 UL TYPE FG (CAT NO. NFK3B175)  
NON-INTERCHANGEABLE FRAME W. APPROBATION CIRCUIT-  
BREAKER ACC. UL489 STANDARD BREAKING CAPACITY 3-  
POLE, NEMA RATING 35KA@480V AND 18KA@600/347V  
(MOLDED CASE CIRCUIT BREAKER) OVERCURRENT RELEASE  
TM, LI TU= 40 DEGR. CELSIUS IN=175A, RATED CURRENT II=  
1000...2000A SHORT-CIRCUIT PROTECTION IR= 175A  
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
Reference identifier / 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
• at AC / rated value	800 V
Surge voltage resistance / rated value	8 kV

Protection class	
Protection class IP	IP20
Protective function of the overcurrent release	LI

Dissipation	
Power loss [W]	
• maximum	80 W

Electricity	
Operating current / at 45 °C / rated value	162.8 A
Continuous current / rated value	175 A
Derating temperature / for the rated value of the continuous current	
• acc. to UL 489	40 °C
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	175 A
• of instantaneous short-circuit trip unit / initial value	1 000 A
• of instantaneous short-circuit trip unit / Full-scale value	2 000 A

Main circuit	
Operating frequency	
• 1 / rated value	50 Hz

<ul style="list-style-type: none"> <li>• 2 / rated value</li> </ul>	60 Hz
<b>Operating voltage</b>	
<ul style="list-style-type: none"> <li>• rated value / maximum</li> </ul>	690 V
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum</li> </ul>	600 V
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 50 Hz / maximum</li> </ul>	690 V
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum</li> </ul>	600 V
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 60 Hz / maximum</li> </ul>	690 V
<ul style="list-style-type: none"> <li>• for main current circuit / at DC / acc. to UL 489 / maximum</li> </ul>	500 V
<b>Operating current</b>	
<ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> </ul>	175 A
<ul style="list-style-type: none"> <li>• at 50 °C / rated value</li> </ul>	162.8 A
<ul style="list-style-type: none"> <li>• at 55 °C / rated value</li> </ul>	150.5 A
<ul style="list-style-type: none"> <li>• at 60 °C / rated value</li> </ul>	150.5 A

<b>Suitability</b>	
Suitability for use	system protection

<b>Adjustable parameters</b>	
Adjustable pick-up value current / of the current-dependent overload release / initial value	175 A

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

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

<b>Short circuit</b>	
Operational short-circuit current breaking capacity (Ics)	

<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> </ul>	65 kA
Maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> <li>• at 480 V / acc. to NEMA / rated value</li> </ul>	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 identifier	
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>	Q

<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>
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CCC



CSA

[Miscellaneous](#)



UL



C-Tick



EG-Konf.

<b>Test Certificates</b>	<b>Shipping Approval</b>	<b>other</b>
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[Special Test Certificate](#)



RMRS

[Miscellaneous](#)

[Environmental Confirmations](#)

[Confirmation](#)

### 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?mlfb=3VL3517-1KN30-0AB1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL3517-1KN30-0AB1>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL3517-1KN30-0AB1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3517-1KN30-0AB1)

#### CAX-Online-Generator

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

#### Tender specifications

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

