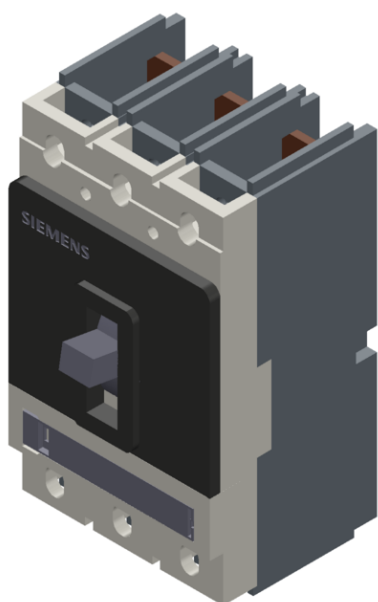


CIRCUIT-BREAKER VL 250 UL TYPE FG (CAT NO. HFK3B225)  
NON-INTERCHANGEABLE FRAME W. APPROBATION CIRCUIT-  
BREAKER ACC. UL489 HIGH BREAKING CAPACITY 3-POLE,  
NEMA RATING 65KA@480V AND 18KA@600/347V (MOLDED  
CASE CIRCUIT BREAKER) OVERCURRENT RELEASE TM, LI TU=  
40 DEGR. CELSIUS IN=225A, RATED CURRENT II= 1250...2500A  
SHORT-CIRCUIT PROTECTION IR= 225A 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

Electricity	
Operating current / at 45 °C / rated value	209.3 A
Continuous current / rated value	225 A
Derating temperature / for the rated value of the continuous current	50 °C
• acc. to UL 489	40 °C
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	225 A
• of instantaneous short-circuit trip unit / initial value	1 250 A
• of instantaneous short-circuit trip unit / Full-scale value	2 500 A

Main circuit	
<b>Operating frequency</b>	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
<b>Operating voltage</b>	
• rated value / maximum	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
<b>Operating current</b>	
<ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> </ul>	225 A
<ul style="list-style-type: none"> <li>• at 50 °C / rated value</li> </ul>	209.3 A
<ul style="list-style-type: none"> <li>• at 55 °C / rated value</li> </ul>	193.5 A
<ul style="list-style-type: none"> <li>• at 60 °C / rated value</li> </ul>	193.5 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	225 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>	No
<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>	75 kA
Maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> </ul>	100 kA
<ul style="list-style-type: none"> <li>• at 480 V / acc. to NEMA / rated value</li> </ul>	65 kA

<b>Connections</b>	
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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 high switching capacity (H), non-interchangeable
Reference identifier	Q
<ul style="list-style-type: none"> <li>acc. to DIN EN 61346-2</li> </ul>	

<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>
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[Miscellaneous](#)



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



[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=3VL3522-2KN30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL3522-2KN30-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL3522-2KN30-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3522-2KN30-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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