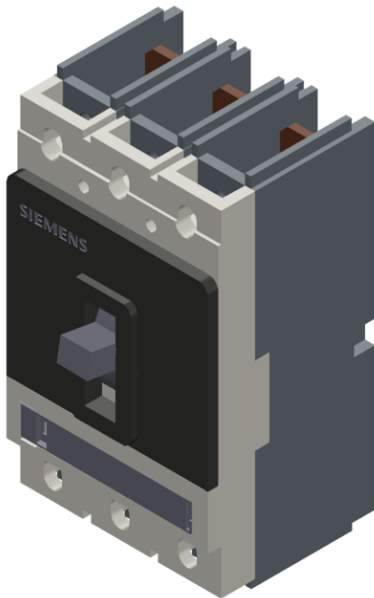


CIRCUIT-BREAKER VL 250 UL TYPE FG (CAT NO. HFP3H250)
NON-INTERCHANGEABLE FRAME W. APPROBATION CIRCUIT-
BREAKER ACC. UL489 HIGH BREAKING CAPACITY 3-POLE,
NEMA RATING 65KA@480V AND 18KA@600/347V (MOTOR
STARTER PROTECTOR) OVERCURRENT RELEASE MAGNETIC
TU= 40 DEGR. CELSIUS IN=250A, RATED CURRENT II=
1750..3500A SHORT-CIRCUIT PROTECTION STARTER
COMBINATION W/O CONNECTION ACCESSORIES



Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	M
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 _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	I
Dissipation	
Power loss [W]	
• maximum	60 W
Electricity	
Operating current / at 45 °C / rated value	232.5 A
Continuous current / rated value	250 A
Derating temperature / for the rated value of the continuous current	
• acc. to UL 489	40 °C
Adjustable pick-up value current	
• of instantaneous short-circuit trip unit / initial value	1 750 A
• of instantaneous short-circuit trip unit / Full-scale value	3 500 A
Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating power / at AC-3	

• at 230 V / rated value • at 400 V / rated value	46 kW 138.5 kW
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
• for main current circuit / at DC / acc. to UL 489 / maximum	500 V
Operating current	
• at 40 °C / rated value	250 A
• at 50 °C / rated value	232.5 A
• at 55 °C / rated value	215 A
• at 60 °C / rated value	215 A

Suitability

Suitability for use	Starter protection
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Product details

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

Product function

Product function	
• of thermal overload trip unit	without
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	No
• Overload protection	No

Short circuit

Operational short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	75 kA
Maximum short-circuit current breaking capacity (Icu)	

- at 240 V / rated value
- at 480 V / acc. to NEMA / rated value

100 kA

65 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

Environmental conditions

Ambient temperature	
• 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 high switching capacity (H), non-interchangeable
Equipment marking	
• acc. to DIN EN 61346-2	Q

General Product Approval

EMC

Declaration of Conformity



[Miscellaneous](#)



Test Certificates

Shipping Approval

other

[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=3VL3525-2KL30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL3525-2KL30-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3525-2KL30-0AA0

CAX-Online-Generator

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

Tender specifications

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