

Breaker VL3P 800A 480V 35 kA FR CAT NMB. NMG3F800 3P 800A
480V 35kA FR DISYUNTOR VL CAT NMB. NMG3F800 3P 800A
480V 35kA FR

Model	
Type of the driving mechanism / motor drive	No
General technical data	
Number of poles	3
Size of the circuit-breaker	3VL6 UL
Electrical endurance (switching cycles) / typical	3 000
Usage category	A
Performance class for circuit breaker	N
Mechanical service life (switching cycles) / typical	10 000
Reference identifier / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	Q
Operating frequency / maximum	60 1/s
Voltage	
Rated operational voltage Ue / 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
Electricity	
Operating current / at 45 °C / rated value	744 A
Continuous current / rated value	800 A
Derating temperature / for the rated value of the continuous current	50 °C
• acc. to UL 489	40 °C
Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
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
Operating current	
• at 40 °C / rated value	800 A
• at 50 °C / rated value	744 A
• at 55 °C / rated value	688 A
• at 60 °C / rated value	688 A

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	65 kA
• at 415 V / rated value	50 kA
• at 690 V / rated value	10 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	65 kA
• at 415 V / rated value	50 kA
• at 480 V / acc. to NEMA / rated value	35 kA
• at 600 V / acc. to NEMA / rated value	25 kA
• at 690 V / rated value	20 kA

Connections

Arrangement of electrical connectors / for main current circuit	front side
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Type of electrical connection / for main current circuit	without connection accessoires
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Mechanical Design

Height	406.5 mm
Width	190 mm
Depth	176.5 mm
Mounting type	fixed mounting

Certificates

Certificate of suitability	UL, standard switching capacity (N), interchangeable
• Reference identifier / acc. to DIN EN 61346-2	Q

General Product Approval	EMC	Test Certificates	Shipping Approval
 Miscellaneous		 Special Test Certificate	

other
Environmental Confirmations Confirmation Miscellaneous

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=3VL6080-1RA30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL6080-1RA30-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6080-1RA30-0AA0

CAX-Online-Generator

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

Tender specifications

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

