



CIRCUIT-BREAKER VL 800 UL; TYP MG (CAT NO. HMX3W800)
NON-INTERCHANGEABLE FRAME W. APPROBATION CIRCUIT-
BREAKER TO UL489 HIGH BREAKING CAPACITY 3-POLE, NEMA
RATING 65KA/480V, (MOLDED CASE CIRCUIT BREAKER)
ELECTRONIC TRIP UNIT ETU, LIG TU= 40 DEGR. CELSIUS 3
PHASES/4 CABLES IN= 800A, RATED CURRENT II= 1.25 TO 8 X
IN, SHORT-CIRCUIT PROTECTION IR= 300-800A
OVERCURRENT REL. F. PLANT PROTECTION W/O
CONNECTION ACCESSORIES

Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	ETU545
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
Equipment marking / 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
Protective function of the overcurrent release	LIG
Dissipation	
Power loss [W]	
• maximum	250 W
Electricity	
Operating current / at 45 °C / rated value	760 A
Continuous current / rated value	800 A
Derating temperature / for the rated value of the continuous current	
• 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	760 A
• at 55 °C / rated value	640 A
• at 60 °C / rated value	640 A
Suitability	
Suitability for use	system protection
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	adjustable
• Ground fault protection	Yes
• for neutral conductors / Short-circuit and overload proof	No
• Overload protection	Yes
Short circuit	
Operational short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	75 kA
• at 415 V / rated value	70 kA
• at 690 V / rated value	10 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	100 kA
• at 415 V / rated value	70 kA
• at 480 V / acc. to NEMA / rated value	65 kA
• at 600 V / acc. to NEMA / rated value	35 kA
• at 690 V / rated value	20 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	406.5 mm
Width	190 mm
Depth	176.5 mm
Mounting type	fixed mounting
Environmental conditions	
Ambient temperature	
• during operation / minimum	-25 °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	Test Certificates
 CSA	Miscellaneous  UL	 C-Tick	 EG-Konf.

Shipping Approval	other
 RMRS	Environmental Confirmations Miscellaneous 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=3VL6180-2PD30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL6180-2PD30-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6180-2PD30-0AA0

CAX-Online-Generator

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

Tender specifications

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