



CIRCUIT-BREAKER VL 800 UL; TYP MG (CAT NO. LMX3W800)  
 NON-INTERCHANGEABLE FRAME W. APPROBATION CIRCUIT-  
 BREAKER TO UL489 VERY HIGH BREAKING CAPACITY 3-POLE,  
 NEMA RATING 100KA/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
<b>Protection class</b>	
Protection class IP	IP20
Protective function of the overcurrent release	LIG
<b>Dissipation</b>	
Power loss [W]	
• maximum	250 W
<b>Electricity</b>	
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
<b>Main circuit</b>	
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
<b>Suitability</b>	
Suitability for use	system protection
<b>Product details</b>	
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

<b>Product function</b>	
• of thermal overload trip unit	adjustable
• Ground fault protection	Yes
• for neutral conductors / Short-circuit and overload proof	No
• Overload protection	Yes

### Short circuit

<b>Operational short-circuit current breaking capacity (Ics)</b>	
• at 240 V / rated value	150 kA
• at 415 V / rated value	75 kA
• at 690 V / rated value	10 kA
<b>Maximum short-circuit current breaking capacity (Icu)</b>	
• at 240 V / rated value	200 kA
• at 415 V / rated value	100 kA
• at 480 V / acc. to NEMA / rated value	100 kA
• at 600 V / acc. to NEMA / rated value	50 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





<b>Height</b>	406.5 mm
<b>Width</b>	190 mm
<b>Depth</b>	176.5 mm
<b>Mounting type</b>	fixed mounting


### Environmental conditions

<b>Ambient temperature</b>	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C

### Certificates

<b>Certificate of suitability</b>	UL very high switching capacity (L), non-interchangeable
<b>Equipment marking</b>	
• acc. to DIN EN 61346-2	Q

General Product Approval	EMC	Declaration of Conformity	Test Certificates
 CSA	<a href="#">Miscellaneous</a>	 UL	 C-Tick
		 EG-Konf.	<a href="#">Special Test Certificate</a>

Shipping Approval	other		
 RMRS	<a href="#">Environmental Confirmations</a>	<a href="#">Miscellaneous</a>	<a href="#">Confirmation</a>

## 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=3VL6180-3PD30-0AA0>

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

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

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL6180-3PD30-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6180-3PD30-0AA0)

### CAX-Online-Generator

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

### Tender specifications

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