



CIRCUIT-BREAKER VL 800 UL; TYPE MG (CAT NO. LMX3B600)
 NON-INTERCHANGEABLE FRAME W. APPROBATION CIRCUIT-
 BREAKER TO UL489 VERY HIGH BREAKING CAPACITY 3-POLE,
 NEMA RATING 100KA/480V, (MOLDED CASE CIRCUIT BREAKER)
 OVERCURRENT RELEASE TM, LI TU= 40 DEGR. CELSIUS IN= <
 600A, RATED CURRENT II= 3000...6000A SHORT-CIRCUIT
 PROTECTION IR= 600A 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	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 U _e / max.	690 V
Insulation voltage	
• rated value	800 V
• at AC / rated value	800 V

Surge voltage resistance / rated value	8 kV
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Protection class

Protection class IP	IP20
Protective function of the overcurrent release	LI

Electricity

Operating current / at 45 °C / rated value	558 A
Continuous current / rated value	600 A
Derating temperature / for the rated value of the continuous current	50 °C
<ul style="list-style-type: none"> • acc. to UL 489 	40 °C
Adjustable pick-up value current	
<ul style="list-style-type: none"> • of the current-dependent overload release / Full-scale value 	600 A
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / initial value 	3 000 A
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / Full-scale value 	6 000 A

Main circuit

Operating frequency	
<ul style="list-style-type: none"> • 1 / rated value 	50 Hz
<ul style="list-style-type: none"> • 2 / rated value 	60 Hz
Operating voltage	
<ul style="list-style-type: none"> • rated value / maximum 	690 V
<ul style="list-style-type: none"> • for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum 	600 V
<ul style="list-style-type: none"> • for main current circuit / at AC / at 50 Hz / maximum 	690 V
<ul style="list-style-type: none"> • for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum 	600 V
<ul style="list-style-type: none"> • for main current circuit / at AC / at 60 Hz / maximum 	690 V
Operating current	
<ul style="list-style-type: none"> • at 40 °C / rated value 	600 A
<ul style="list-style-type: none"> • at 50 °C / rated value 	558 A
<ul style="list-style-type: none"> • at 55 °C / rated value 	516 A
<ul style="list-style-type: none"> • at 60 °C / rated value 	516 A

Suitability

Suitability for use	system protection
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Adjustable parameters

Adjustable pick-up value current / of the current-dependent overload release / initial value	600 A
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Product details

Product component	
• Trip indicator	No
• Auxiliary switch	Yes
• 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	fixed
• Ground fault protection	No
• 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	150 kA
• at 415 V / rated value	75 kA
• at 690 V / rated value	10 kA
Maximum short-circuit current breaking capacity (Icu)	
• 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

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

Environmental conditions

Ambient temperature	
• during operation / minimum	0 °C
• during operation / maximum	70 °C

- during storage / minimum
- during storage / maximum

-40 °C

80 °C

Certificates

Certificate of suitability UL very high switching capacity (L), 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.

[Special Test Certificate](#)

Shipping Approval

other



RMRS

[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=3VL6160-3KN30-0AC1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL6160-3KN30-0AC1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6160-3KN30-0AC1

CAX-Online-Generator

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

Tender specifications

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