

circuit breaker VL800 UL; type MG (cat no. NMX3B700) non-interchangeable frame, with circuit breaker approval acc. to UL 489 standard breaking capacity 3-pole, NEMA rating 35kA/480V, (molded case circuit breaker) trip unit TM, LI TA=40°C In=< 700A, rated current II=3250...6500A short-circuit protection IR=700A ETU for line protection without connection accessories without auxiliary release without auxiliary/alarm switch

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
mechanical service life (switching cycles) / typical	10 000
electrical endurance (switching cycles) / typical	3 000
utilization category	A
performance class for circuit breaker	N
reference code / 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 - insulation voltage (Ui) / at AC / rated value	800 V
surge voltage resistance / rated value	8 kV
operating voltage - rated value / maximum - for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum - for main current circuit / at AC / at 50 Hz / maximum - for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum - for main current circuit / at AC / at 60 Hz / maximum	690 V 600 V 690 V 600 V 690 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LI
Current	
operational current - at 40 °C / rated value - at 45 °C / rated value - at 50 °C / rated value - at 55 °C / rated value - at 60 °C / rated value	700 A 651 A 651 A 602 A 602 A
continuous current / rated value	700 A
derating temperature / for the rated value of the continuous current acc. to UL 489	50 °C 40 °C
adjustable current response value current - of the current-dependent overload release / full-scale value - of instantaneous short-circuit trip unit / minimum - of instantaneous short-circuit trip unit / maximum	700 A 3 250 A 6 500 A

Main circuit		
operating frequency		
• 1 / rated value	50 Hz	
• 2 / rated value	60 Hz	
Auxiliary circuit		
number of CO contacts / for auxiliary contacts	0	
number of NC contacts / for auxiliary contacts	0	
number of NO contacts / for auxiliary contacts	0	
Suitability		
suitability for use	system protection	
Adjustable parameters		
adjustable current response value current / of the current-dependent overload release / initial value	700 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	fixed	
• grounding protection	No	
• for neutral conductors / short-circuit and overload proof	No	
• overload protection	Yes	
Short circuit		
breaking capacity operating short-circuit current (Ics)		
• at 240 V / rated value	65 kA	
• at 415 V / rated value	50 kA	
• at 690 V / rated value	10 kA	
breaking capacity maximum short-circuit current (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	
type of electrical connection / for main current circuit	without connection accessoires	
Mechanical Design		
height	406.5 mm	
width	190 mm	
depth	176.5 mm	
fastening method	fixed mounting	
Environmental conditions		
ambient temperature / during operation		
• minimum	0 °C	
• maximum	70 °C	
ambient temperature / during storage		
• minimum	-40 °C	
• maximum	80 °C	
General Product Approval		EMC Declaration of Conformity



[Miscellaneous](#)



Test Certificates

Marine / Shipping

other

[Special Test Certificate](#)



[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=3VL6170-1KN30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL6170-1KN30-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6170-1KN30-0AA0

CAX-Online-Generator

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

Tender specifications

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

