

circuit breaker VL800 UL; type MG (cat no. HMX3B600) non-interchangeable frame, with circuit breaker approval acc. to UL 489 high breaking capacity 3-pole, NEMA rating 65kA/480V, (molded case circuit breaker) trip unit TM, LI TA=40°C In=< 600A, rated current II=3000...6000A short-circuit protection IR=600A 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
<ul style="list-style-type: none"> insulation voltage / rated value insulation voltage (Ui) / at AC / rated value 	800 V
surge voltage resistance / rated value	8 kV
operating voltage <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 	600 A 558 A 558 A 516 A 516 A
continuous current / rated value	600 A
derating temperature / for the rated value of the continuous current <ul style="list-style-type: none"> acc. to UL 489 	50 °C 40 °C
adjustable current response value current <ul style="list-style-type: none"> of the current-dependent overload release / full-scale value of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / maximum 	600 A 3 000 A 6 000 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	600 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	75 kA		
• at 415 V / rated value	70 kA		
• at 690 V / rated value	10 kA		
breaking capacity maximum short-circuit current (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		
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](#)

[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=3VL6160-2KN30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL6160-2KN30-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6160-2KN30-0AA0

CAX-Online-Generator

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

Tender specifications

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

