

circuit breaker VL150X UL, type CG (cat no. NCX3B090) non-interchangeable frame, with circuit breaker approval acc. to UL 489 high breaking capacity 3-pole, NEMA rating 65kA/480V (molded case circuit breaker) Electronic Trip Unit TM, LI function TA=40°C In=<90A rated current II=1000A short-circuit protection Ir=90A Electronic Trip Unit 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	3VL1 UL
mechanical service life (switching cycles) / typical	20 000
electrical endurance (switching cycles) / typical	10 000
utilization category	A
performance class for circuit breaker	N
reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750	Q
operating frequency / maximum	120 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 / according to UL 489 / maximum - for main current circuit / at AC / at 50 Hz / maximum - for main current circuit / at AC / at 60 Hz / according 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	90 A 83.5 A 83.5 A 77.4 A 77.4 A
continuous current / rated value	90 A
derating temperature / for the rated value of the continuous current according 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	90 A 1 000 A 1 000 A
Main circuit	
operating frequency	

• 1 / rated value • 2 / rated value	50 Hz 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	90 A
Product details	
product component	
• trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact	No No No No No
product extension / optional / motor drive	Yes
Product function	
product function	
• of thermal overload trip unit • grounding protection • for neutral conductors / short-circuit and overload proof • overload protection	fixed No No Yes
Short circuit	
breaking capacity operating short-circuit current (Ics)	
• at 240 V / rated value • at 415 V / rated value • at 690 V / rated value	75 kA 70 kA 5 kA
breaking capacity maximum short-circuit current (Icu)	
• at 240 V / rated value • at 415 V / rated value • at 480 V / according to NEMA / rated value • at 600 V / according to NEMA / rated value • at 690 V / rated value	100 kA 70 kA 65 kA 10 kA 10 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	157.5 mm
width	104.5 mm
depth	106.5 mm
fastening method	fixed mounting
Environmental conditions	
ambient temperature / during operation	
• minimum • maximum	0 °C 70 °C
ambient temperature / during storage	
• minimum • maximum	-40 °C 80 °C
General Product Approval	



[Miscellaneous](#)



[Confirmation](#)



EMC	Declaration of Conformity	Test Certificates	Marine / Shipping	other
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[Special Test Certificate](#)



[Environmental Conformations](#)

[Miscellaneous](#)

other

[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=3VL1191-2KM30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL1191-2KM30-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1191-2KM30-0AA0

CAX-Online-Generator

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

Tender specifications

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



