

circuit breaker VL150X UL, type CG (cat no. NCX3B040) 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<40A rated current II=600A short-circuit protection IR=40A 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 (operating cycles) typical	20 000
electrical endurance (operating 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
<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 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
Main circuit	
operating frequency <ul style="list-style-type: none"> 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	40 A
Product details	
product component <ul style="list-style-type: none"> trip indicator auxiliary switch voltage trigger undervoltage release 	No No No 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

operating short-circuit current breaking capacity (Ics)	
• at 240 V rated value	75 kA
• at 415 V rated value	70 kA
• at 690 V rated value	5 kA

maximum short-circuit current breaking capacity (Icu)	
• at 240 V rated value	100 kA
• at 415 V rated value	70 kA
• at 480 V according to NEMA rated value	65 kA
• at 600 V according to NEMA rated value	10 kA
• at 690 V rated value	10 kA

Connections

arrangement of electrical connectors for main current circuit	front side
type of electrical connection for main current circuit	without connection accessories

Mechanical Design

height	157.5 mm
width	104.5 mm
depth	106.5 mm

fastening method	fixed mounting
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Environmental conditions

ambient temperature during operation	
• minimum	0 °C
• maximum	70 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	80 °C

Approvals Certificates

General Product Approval



[Confirmation](#)



Test Certificates	other	Environment
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[Special Test Certificate](#)

[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3VL1104-2KM30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL1104-2KM30-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1104-2KM30-0AA0

CAx-Online-Generator

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

Tender specifications

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