

circuit breaker VL150X UL, type CG (cat no. NCX3B030) non-interchangeable frame, with circuit breaker approval acc. to UL 489 standard breaking capacity 3-pole, NEMA rating 35kA/480V (molded case circuit breaker) Electronic Trip Unit TM, LI function TA=40°C In=<30A rated current II=300A short-circuit protection IR=30A 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"> <li>insulation voltage rated value</li> <li>insulation voltage (Ui) at AC rated value</li> </ul>	800 V
surge voltage resistance rated value	8 kV
operating voltage <ul style="list-style-type: none"> <li>rated value maximum</li> <li>for main current circuit at AC at 50 Hz according to UL 489 maximum</li> <li>for main current circuit at AC at 50 Hz maximum</li> <li>for main current circuit at AC at 60 Hz according to UL 489 maximum</li> <li>for main current circuit at AC at 60 Hz maximum</li> </ul>	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"> <li>1 rated value</li> <li>2 rated value</li> </ul>	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	30 A
Product details	
product component <ul style="list-style-type: none"> <li>trip indicator</li> <li>auxiliary switch</li> <li>voltage trigger</li> <li>undervoltage release</li> </ul>	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	65 kA
• at 415 V rated value	40 kA
• at 690 V rated value	4 kA
maximum short-circuit current breaking capacity (Icu)	
• at 240 V rated value	65 kA
• at 415 V rated value	40 kA
• at 480 V according to NEMA rated value	35 kA
• at 600 V according to NEMA rated value	8 kA
• at 690 V rated value	8 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

<b>fastening method</b>	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](#)



EMV	Marine / Shipping	other	Environment
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[CCS \(China Classification Society\)](#)

[Confirmation](#)

[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=3VL1103-1KM30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL1103-1KM30-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL1103-1KM30-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1103-1KM30-0AA0)

CAx-Online-Generator

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

Tender specifications

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last modified:

6/30/2024 

