



CIRCUIT BREAKER VL 150X UL, TYPE CG (CAT NO. NCX3B040) NON-INTERCHANGEABLE FRAME W/APPROVAL CIRCUIT BREAKER TO UL489 STANDARD BREAKING CAPACITY 3-POLE, NEMA RATING 35KA/480V (MOLDED CASE CIRCUIT BREAKER) OVERCURRENT RELEASE TM, LI FUNCTION TU=40DEGR CELSIUS IN=<40A RATED CURRENT II=600A SHORT-CIRCUIT PROT. IR=40A OVERCURRENT RELEASE FOR SYSTEM PROTECTION W/O CONNECTION ACCESSORIES

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
Electrical endurance (switching cycles) / typical		10 000
Usage category		A
Performance class for circuit breaker		N
Mechanical service life (switching cycles) / typical		20 000
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		Q
Operating frequency / maximum	1/s	120
Voltage		
Rated operational voltage U <sub>e</sub> / max.	V	690
Insulation voltage		
• rated value	V	800
• at AC / rated value	V	800
Surge voltage resistance / rated value	kV	8
Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LI
Electricity		
Continuous current / rated value	A	40
Derating temperature / for the rated value of the continuous current		
• acc. to UL 489	°C	40

Adjustable pick-up value current		
• of the current-dependent overload release / Full-scale value	A	40
• of instantaneous short-circuit trip unit / initial value	A	600
• of instantaneous short-circuit trip unit / Full-scale value	A	600

### Main circuit

<b>Operating frequency</b>		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
<b>Operating voltage</b>		
• for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum	V	600
• for main current circuit / at AC / at 50 Hz / maximum	V	690
• for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum	V	600
• for main current circuit / at AC / at 60 Hz / maximum	V	690
• for main current circuit / at DC / acc. to UL 489 / maximum	V	250
<b>Operating current</b>		
• at 40 °C / rated value	A	40
• at 50 °C / rated value	A	37.2
• at 55 °C / rated value	A	34.4
• at 60 °C / rated value	A	34.4

### 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
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### Adjustable parameters

Adjustable pick-up value current / of the current-dependent overload release / initial value	A	40
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### Product details

<b>Product component</b>		
• 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

<b>Product function</b>		
• of thermal overload trip unit		fixed
• Ground fault protection		No
• for neutral conductors / Short-circuit and overload proof		No
• Overload protection		Yes

### Short circuit

<b>Operational short-circuit current breaking capacity (Ics)</b>		
• at 240 V / rated value	kA	65
• at 415 V / rated value	kA	40
• at 690 V / rated value	kA	4
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
• at 240 V / rated value	kA	65
• at 415 V / rated value	kA	40
• at 480 V / acc. to NEMA / rated value	kA	35
• at 600 V / acc. to NEMA / rated value	kA	8
• at 690 V / rated value	kA	8

### Connections

Arrangement of electrical connectors / for main current circuit		front side
Type of connectable conductor cross-sections		
• for main contacts		
— with flexible busbar		17 x 7 mm
— solid		2,5 ... 50 mm <sup>2</sup>
— stranded		2.5 ... 50 mm <sup>2</sup>
• for auxiliary contacts		
— solid		0.75 ... 1.5 mm <sup>2</sup>
— finely stranded / with core end processing		0,75 ... 1.0 mm <sup>2</sup>
Type of electrical connection / for main current circuit		without connection accessoires

### Mechanical Design

<b>Height</b>	mm	157.5
<b>Width</b>	mm	104.5
<b>Depth</b>	mm	106.5
<b>Mounting type</b>		fixed mounting

### Environmental conditions

<b>Ambient temperature</b>		
• during operation / minimum	°C	0
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	80

## Certificates

<b>Certificate of suitability</b>		UL standard switching capacity (N), non-interchangeable
<b>Equipment marking</b>		Q
• acc. to DIN EN 61346-2		

## General Product Approval

EMC



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<b>Declaration of Conformity</b>	<b>Test Certificates</b>	<b>Shipping Approval</b>	<b>other</b>
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## Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VL11041KM300AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL11041KM300AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL11041KM300AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL11041KM300AA0)

**CAX-Online-Generator**

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

**Tender specifications**

<http://ausschreibungstexte.siemens.com/tiplv>

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