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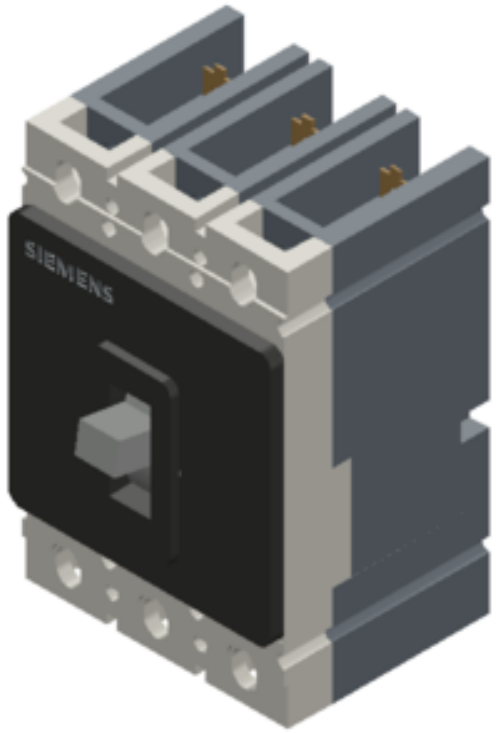
Data sheet 3VL1125-1KM30-0AA0



CIRCUIT BREAKER VL 150X UL, TYPE CG (CAT NO. NCX3B025) 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=<25A RATED CURRENT II=300A SHORT-CIRCUIT PROT. IR=25A 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 Ue / max.	V	690
Insulation voltage		
• rated value	V	800
• at AC / rated value	V	800

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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	25
Derating temperature / for the rated value of the continuous current		
• acc. to UL 489	°C	40
Adjustable response value current		
• of the current-dependent overload release / Full-scale value	A	25
• of the instantaneous short-circuit release / initial value	A	300
• of the instantaneous short-circuit release / Full-scale value	A	300

Main circuit		
Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Operating voltage		
• 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
Operating current		
• at 40 °C / rated value	A	25
• at 50 °C / rated value	A	23.3
• at 55 °C / rated value	A	21.5
• at 60 °C / rated value	A	21.5

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 response value current / of the current-dependent overload release / initial value	A	25

Product details		
Product component		
• Trip indicator		No
• Auxiliary switch		No
• Voltage trigger		No
• undervoltage release		No
• undervoltage release with leading contact		No
Product expansion / optional / motor drive		Yes

Product function		
Product function		
• of the thermal overload release		fixed
• Ground fault protection		No
• for neutral conductors / Short-circuit and overload proof		No
• Overload protection		Yes

Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / rated value	kA	65
• at 415 V / rated value	kA	40
• at 690 V / rated value	kA	4
Maximum short-circuit current breaking capacity (Icu)		
• 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 mm²
— stranded		2.5 ... 50 mm²
• for auxiliary contacts		
— solid		0.75 ... 1.5 mm²

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— finely stranded / with core end processing		0,75 ... 1.0 mm²
Type of electrical connection / for main current circuit		without connection accessoires

Mechanical Design

Height	mm	157.5
Width	mm	104.5
Depth	mm	106.5
Mounting type		fixed mounting

Environmental conditions

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

Certificates

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

General Product Approval					EMC
CCC	CSA	sonstig	UL	EAC	C-TICK

Declaration of Conformity	Test Certificates	Shipping Approval	other		
EG-Konf.	spezielle Prüfbescheinigungen	RMRS	Umweltbestätigung	sonstig	Bestätigungen

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/3VL11251KM300AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3VL11251KM300AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL11251KM300AA0

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://ausschreibungstexte.siemens.com/tiplv

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