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Data sheet 3VL3525-1KN30-0AA0

circuit breaker VL250 UL type FG (cat no. NFK3B250) non-interchangeable frame, with circuit breaker approval acc. to UL 489 standard breaking capacity 3-pole; NEMA rating 35KA@480V and 18KA@600/347V (molded case circuit breaker) Electronic Trip Unit TM, LI TA=40°C In=250A, rated current II=1250...2500A short-circuit protection IR=250A 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	3VL3 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
insulation voltage rated value	800 V
insulation voltage (Ui) at AC rated value	800 V
surge voltage resistance rated value	8 kV
operating voltage	
● rated value maximum	690 V
● for main current circuit at AC at 50 Hz according to UL 489 maximum	600 V
● for main current circuit at AC at 50 Hz maximum	690 V
● for main current circuit at AC at 60 Hz according to UL 489 maximum	600 V
● for main current circuit at AC at 60 Hz maximum	690 V
● for main current circuit at DC according to UL 489 maximum	500 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LI
Main circuit	
operating frequency	
● 1 rated value	50 Hz
● 2 rated value	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	250 A
Product details	
product component	
● trip indicator	No
● auxiliary switch	No
● voltage trigger	No

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● undervoltage release	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
maximum short-circuit current breaking capacity (Icu)	
● at 240 V rated value	65 kA
● at 480 V according to NEMA rated value	35 kA
Connections	
arrangement of electrical connectors for main current circuit	front side
type of connectable conductor cross-sections for main contacts	
● with flexible busbar	24 x 7 mm
● solid	35 ... 120 mm²
● stranded	35 ... 120 mm²
type of connectable conductor cross-sections for auxiliary contacts	
● solid	0.75 ... 1.5 mm²
● 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	185.5 mm
width	104.5 mm
depth	106.5 mm
fastening method	fixed mounting
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				other
CE EG-Konf.	Confirmation	UKCA	Miscellaneous	EAC	Confirmation

other	Environment	
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=3VL3525-1KN30-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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https://support.industry.siemens.com/cs/ww/en/ps/3VL3525-1KN30-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3525-1KN30-0AA0

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

Tender specifications
http://www.siemens.com/specifications

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