

circuit breaker VL250 UL; type FG (cat no. NFX3B250) 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 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 (switching cycles) / typical	20 000
electrical endurance (switching cycles) / typical	10 000
utilization category	A
performance class for circuit breaker	N
reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. 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 / acc. to UL 489 / maximum for main current circuit / at AC / at 50 Hz / maximum for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum for main current circuit / at AC / at 60 Hz / maximum for main current circuit / at DC / acc. to UL 489 / maximum 	690 V 600 V 690 V 600 V 690 V 500 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LI
Current	
operational current	
<ul style="list-style-type: none"> at 40 °C / rated value at 45 °C / rated value at 50 °C / rated value at 55 °C / rated value at 60 °C / rated value 	250 A 232.5 A 232.5 A 215 A 215 A
continuous current / rated value	250 A
derating temperature / for the rated value of the continuous current	
<ul style="list-style-type: none"> acc. to UL 489 	40 °C
adjustable current response value current	
<ul style="list-style-type: none"> of the current-dependent overload release / full-scale value of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / maximum 	250 A 1 250 A 2 500 A

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	250 A
Product details	
product component	
<ul style="list-style-type: none"> • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact 	No No No No No
product extension / optional / motor drive	Yes
Product function	
product function	
<ul style="list-style-type: none"> • of thermal overload trip unit • grounding protection • for neutral conductors / short-circuit and overload proof • overload protection 	fixed No No Yes
Short circuit	
breaking capacity operating short-circuit current (Ics)	
<ul style="list-style-type: none"> • at 240 V / rated value • at 415 V / rated value • at 690 V / rated value 	65 kA 40 kA 6 kA
breaking capacity maximum short-circuit current (Icu)	
<ul style="list-style-type: none"> • at 240 V / rated value • at 415 V / rated value • at 480 V / acc. to NEMA / rated value • at 600 V / acc. to NEMA / rated value • at 690 V / rated value 	65 kA 40 kA 35 kA 18 kA 12 kA
Connections	
arrangement of electrical connectors / for main current circuit	front side
type of connectable conductor cross-sections / for main contacts	
<ul style="list-style-type: none"> • with flexible busbar • solid • stranded 	24 x 7 mm 35 ... 120 mm ² 35 ... 120 mm ²
type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> • solid • finely stranded / with core end processing 	0.75 ... 1.5 mm ² 0,75 ... 1.0 mm ²
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	
<ul style="list-style-type: none"> • minimum 	0 °C

<ul style="list-style-type: none"> • maximum 	70 °C	
ambient temperature / during storage		
<ul style="list-style-type: none"> • minimum • maximum 	-40 °C 80 °C	
General Product Approval	EMC	Declaration of Conformity



[Miscellaneous](#)



Test Certificates	Marine / Shipping	other
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[Special Test Certificate](#)



[Environmental Confirmations](#)

[Confirmation](#)

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[Miscellaneous](#)

Further information

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=3VL3125-1KN30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL3125-1KN30-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3125-1KN30-0AA0

CAX-Online-Generator

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

Tender specifications

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



