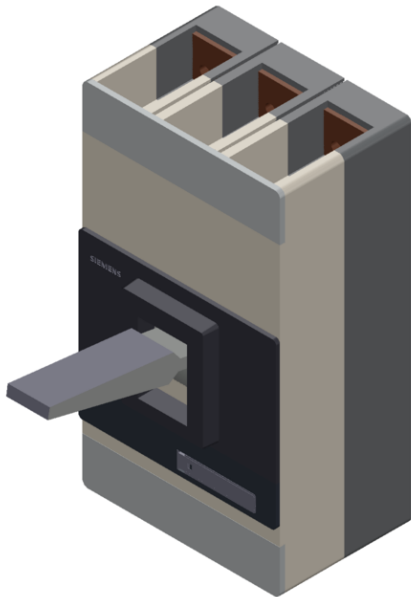


circuit breaker VL1200 UL; type NG (cat no. NNX3B100) non-interchangeable frame, with circuit breaker approval acc. to UL 489 standard breaking capacity 3-pole, NEMA rating 35kA/480V, (molded case circuit breaker) trip unit TM, LI TA=40°C In=< 1000A, rated current II=6000...10000A short-circuit protection IR=1000A ETU 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	3VL7 UL
Electrical endurance (switching cycles) / typical	1 500

Usage category	A
Performance class for circuit breaker	N
Mechanical service life (switching cycles) / typical	3 000
Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	Q
Operating frequency / maximum	30 1/s

Voltage

Rated operational voltage U_e / max.	690 V
Insulation voltage / rated value	800 V
Surge voltage resistance / rated value	8 kV
Operating voltage	
<ul style="list-style-type: none"> rated value / maximum 	690 V
<ul style="list-style-type: none"> for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum 	600 V
<ul style="list-style-type: none"> for main current circuit / at AC / at 50 Hz / maximum 	690 V
<ul style="list-style-type: none"> for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum 	600 V
<ul style="list-style-type: none"> for main current circuit / at AC / at 60 Hz / maximum 	690 V

Protection class

Protection class IP	IP20
Protective function of the overcurrent release	LI

Current

Operating current / at 45 °C / rated value	930 A
Continuous current / rated value	1 000 A
Derating temperature / for the rated value of the continuous current	50 °C
<ul style="list-style-type: none"> acc. to UL 489 	40 °C
Adjustable pick-up value current	
<ul style="list-style-type: none"> of the current-dependent overload release / Full-scale value 	1 000 A
<ul style="list-style-type: none"> of instantaneous short-circuit trip unit / initial value 	5 000 A
<ul style="list-style-type: none"> of instantaneous short-circuit trip unit / Full-scale value 	10 000 A

Main circuit

Operating frequency	
<ul style="list-style-type: none"> 1 / rated value 	50 Hz
<ul style="list-style-type: none"> 2 / rated value 	60 Hz
Operating current	
<ul style="list-style-type: none"> at 40 °C / rated value 	1 000 A

• at 50 °C / rated value	930 A
• at 55 °C / rated value	860 A
• at 60 °C / rated value	860 A

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	80 A
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Product details

Product component	
• 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

Product function	
• of thermal overload trip unit	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	35 kA
• at 415 V / rated value	25 kA
• at 690 V / rated value	10 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	65 kA
• at 415 V / rated value	50 kA
• at 480 V / acc. to NEMA / rated value	35 kA
• at 600 V / acc. to NEMA / rated value	25 kA
• at 690 V / rated value	20 kA

Connections

Arrangement of electrical connectors / for main current circuit	front side
Type of electrical connection / for main current circuit	without connection accessoires

Mechanical Design	
Height	406.5 mm
Width	228.5 mm
Depth	333.5 mm
Mounting type	fixed mounting

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

General Product Approval	EMC	Declaration of Conformity	Test Certificates	Shipping Approval
Miscellaneous	 UL	 C-Tick	 EG-Konf.	Special Test Certificate  RMRS

other				
Environmental Confirmations	Confirmation	Miscellaneous	Manufacturer Declaration	

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?mfb=3VL7110-1KN30-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VL7110-1KN30-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL7110-1KN30-0AA0
CAX-Online-Generator http://www.siemens.com/cax
Tender specifications http://www.siemens.com/specifications