



CIRCUIT-BREAKER VL 150 UL TYPE DG (CAT NO. NDK3B100)
NON-INTERCHANGEABLE FRAME W. APPROBATION CIRCUIT-
BREAKER ACC. UL489 STANDARD BREAKING CAPACITY 3-
POLE, NEMA RATING 35KA@480V AND 18KA@600/347V
(MOLDED CASE CIRCUIT BREAKER) OVERCURRENT RELEASE
TM, LI TU= 40 DEGR. CELSIUS IN=100A, RATED CURRENT II=
500...1000A SHORT-CIRCUIT PROTECTION IR= 100A
OVERCURRENT RELEASE F. PLANT 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	3VL2 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	120 1/s
Voltage	
Rated operational voltage Ue / max.	690 V
Insulation voltage	
• rated value	800 V
• at AC / rated value	800 V

Surge voltage resistance / rated value	8 kV
Protection class	
Protection class IP	IP20
Protective function of the overcurrent release	LI
Dissipation	
Power loss [W]	
• maximum	48 W
Electricity	
Continuous current / rated value	100 A
Derating temperature / for the rated value of the continuous current	
• acc. to UL 489	40 °C
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	100 A
• of instantaneous short-circuit trip unit / initial value	500 A
• of instantaneous short-circuit trip unit / Full-scale value	1 000 A
Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating voltage	
• for main current circuit / at AC / at 50 Hz / acc. 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 / acc. to UL 489 / maximum	600 V
• for main current circuit / at AC / at 60 Hz / maximum	690 V
• for main current circuit / at DC / acc. to UL 489 / maximum	500 V
Operating current	
• at 40 °C / rated value	100 A
• at 50 °C / rated value	93 A
• at 55 °C / rated value	86 A
• at 60 °C / rated value	86 A
Suitability	
Suitability for use	system protection

Adjustable parameters

Adjustable pick-up value current / of the current-dependent overload release / initial value	100 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
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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	65 kA
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Maximum short-circuit current breaking capacity (Icu)

• at 240 V / rated value	65 kA
• at 480 V / acc. to NEMA / rated value	35 kA

Connections

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

Height	174.5 mm
Width	104.5 mm
Depth	106.5 mm
Mounting type	fixed mounting

Environmental conditions

Ambient temperature

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

Certificates

Certificate of suitability UL standard switching capacity (N), non-interchangeable

Equipment marking

- acc. to DIN EN 61346-2

Q

General Product Approval

EMC

Declaration of Conformity



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Test Certificates

Shipping Approval

other

[spezielle Prüfbescheinigungen](#)
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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=3VL2510-1KN30-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL2510-1KN30-0AA0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2510-1KN30-0AA0

CAX-Online-Generator

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

Tender specifications

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