

circuit breaker VL150 UL type DG (cat no. NDK3T150) 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 ETU, LSI TA=40°C In=150A, rated current ISD=1.5-10xIR, II=11xIN short-circuit protection Ir=60-150A Electronic Trip Unit for line protection without connection accessories Auxiliary switch mounting kit 2 AUX (1 NO + 1 NC)

Model	
type of the driving mechanism / motor drive	No
design of the overcurrent release	ETU545
General technical data	
number of poles	3
size of the circuit-breaker	3VL2 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
- insulation voltage / rated value - insulation voltage (Ui) / at AC / rated value	800 V
surge voltage resistance / rated value	8 kV
operating voltage - 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	690 V 600 V 690 V 600 V 690 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LSI
Current	
operational current - 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	150 A 142.5 A 142.5 A 120 A 120 A
continuous current / rated value	150 A
derating temperature / for the rated value of the continuous current acc. to UL 489	40 °C
Main circuit	
operating frequency 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	1
number of NO contacts / for auxiliary contacts	1
Suitability	
suitability for use	system/generator protection
Product details	
product component	
• trip indicator	No
• auxiliary switch	Yes
• 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	adjustable
• grounding protection	No
• for neutral conductors / short-circuit and overload proof	No
• overload protection	Yes
Short circuit	
breaking capacity operating short-circuit current (Ics)	
• at 240 V / rated value	65 kA
breaking capacity maximum short-circuit current (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
type of connectable conductor cross-sections / for main contacts	
• with flexible busbar	22 x 7 mm
• solid	10 ... 50 mm ²
• stranded	10 ... 50 mm ²
type of connectable conductor cross-sections / for auxiliary contacts	
• solid	0.75 ... 1.5 mm ²
• finely stranded / with core end processing	0,75 ... 1.0 mm ²
type of electrical connection / for main current circuit	without connection accessoires
Mechanical Design	
height	174.5 mm
width	104.5 mm
depth	106.5 mm
fastening method	fixed mounting
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	80 °C
General Product Approval	
EMC	



[Miscellaneous](#)



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



[Confirmation](#)

[Environmental Confirmations](#)

[Miscellaneous](#)

other

[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=3VL2515-1PE30-0AB1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL2515-1PE30-0AB1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2515-1PE30-0AB1

CAX-Online-Generator

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

Tender specifications

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



