

circuit breaker VL150 UL type DG (cat no. HDK3T100L) non-interchangeable frame, with circuit breaker approval acc. to UL 489 high breaking capacity 3-pole; NEMA rating 65KA@480V and 18KA@600/347V (molded case circuit breaker) Electronic Trip Unit ETU, LSI TA=40°C In=100A, rated current ISD=1.5-10xIR, II=11xIN short-circuit protection Ir=40-100A Electronic Trip Unit for line protection with terminals feeder and load-side (line and load) without auxiliary/alarm switch

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
<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 	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	
<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 	100 A 95 A 95 A 80 A 80 A
continuous current / rated value	100 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
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/generator protection
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	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	75 kA
breaking capacity maximum short-circuit current (Icu)	
• at 240 V / rated value	100 kA
• at 480 V / acc. to NEMA / rated value	65 kA
Connections	
arrangement of electrical connectors / for main current circuit	front side
type of electrical connection / for main current circuit	box terminal
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](#)



Test Certificates

Marine / Shipping

other

[Special Test Certificate](#)



[Environmental Confirmations](#)

[Miscellaneous](#)

[Confirmation](#)

[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?mfb=3VL2510-2PE33-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL2510-2PE33-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL2510-2PE33-0AA0

CAX-Online-Generator

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

Tender specifications

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

