

circuit breaker VL250N standard breaking capacity Icu=55kA, 415V AC 3-pole, starter combination Trip Unit magnetic In=250A, rated current Il=1750...3500A, short-circuit protection, with box terminal without auxiliary release without auxiliary/alarm switch

Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	M
General technical data	
number of poles	3
size of the circuit-breaker	3VL3
mechanical service life (operating cycles) typical	20 000
electrical endurance (operating cycles) typical	10 000
utilization category	A
performance class for circuit breaker	N
reference code according to DIN 40719 extended according to IEC 204-2 according 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 maximum for main current circuit at AC at 60 Hz maximum for main current circuit at DC maximum 	690 V 690 V 690 V 500 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	I
Main circuit	
operating frequency <ul style="list-style-type: none"> 1 rated value 2 rated value 	50 Hz 60 Hz
operating power at AC-3 <ul style="list-style-type: none"> at 230 V rated value at 400 V rated value 	46 kW 138.5 kW
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	Starter protection
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 	without No No No

Short circuit

operating short-circuit current breaking capacity (Ics)	
<ul style="list-style-type: none"> • at 240 V rated value • at 415 V rated value • at 500 V rated value • at 690 V rated value 	65 kA 55 kA 20 kA 6 kA

maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> • at 240 V rated value • at 415 V rated value • at 440 V rated value • at 480 V according to NEMA rated value • at 500 V rated value • at 600 V according to NEMA rated value • at 690 V rated value 	65 kA 55 kA 25 kA 25 kA 25 kA 12 kA 12 kA

Connections

arrangement of electrical connectors for main current circuit	front side
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type of connectable conductor cross-sections for main contacts	
<ul style="list-style-type: none"> • with flexible busbar • solid • finely stranded with core end processing • stranded 	17 x 10 mm 25 ... 185 mm ² 25 ... 120 mm ² 25 ... 185 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	box terminal
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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 • maximum 	0 °C 70 °C
ambient temperature during storage	
<ul style="list-style-type: none"> • minimum • maximum 	-40 °C 80 °C

Approvals Certificates

General Product Approval



[Confirmation](#)



EMV Test Certificates Marine / Shipping



[KC](#)

[Type Test Certificates/Test Report](#)



other Railway Environment

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3VL3725-1DK33-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL3725-1DK33-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3725-1DK33-0AA0

CAX-Online-Generator

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

Tender specifications

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

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