

circuit breaker VL250H high breaking capacity Icu=70kA, 415V AC 3-pole, motor protection Electronic Trip Unit ETU30M, LI IR=80...200A, overload prot., TC=10A...30, II=6/8/11 xIN, short-circuit protection without auxiliary release without auxiliary/alarm switch

Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	ETU30M
General technical data	
number of poles	3
size of the circuit-breaker	3VL3
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 according to DIN 40719 extended	Q
according to IEC 204-2 according to IEC 750	
operating frequency maximum	120 1/s
Voltage	
Rated operational voltage Ue max.	690 V
insulation voltage rated value	800 V
insulation voltage (Ui) at AC rated value	800 V
surge voltage resistance rated value	8 kV
operating voltage	
rated value maximum	690 V
for main current circuit at AC at 50 Hz maximum	690 V
for main current circuit at AC at 60 Hz maximum	690 V
for main current circuit at DC maximum	500 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LI
Current	
operational current	
at 40 °C rated value	200 A
at 45 °C rated value	200 A
at 50 °C rated value	200 A
at 55 °C rated value	190 A
at 60 °C rated value	190 A
at 65 °C rated value	160 A
at 70 °C rated value	160 A
continuous current rated value	200 A
derating temperature for the rated value of the continuous current	50 °C
adjustable current response value current	
of the current-dependent overload release full-scale value	200 A
of instantaneous short-circuit trip unit minimum	1 200 A
of instantaneous short-circuit trip unit maximum	2 200 A
Main circuit	
operating frequency	
1 rated value	50 Hz
2 rated value	60 Hz
operating power at AC-3	
at 230 V rated value	36.8 kW
at 400 V rated value	110.8 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	Motor Protection
Adjustable parameters	
adjustable current response value current of the current-dependent overload release initial value	80 A
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
• at 415 V rated value	70 kA
• at 500 V rated value	30 kA
• at 690 V rated value	6 kA
breaking capacity maximum short-circuit current (Icu)	
• at 240 V rated value	100 kA
• at 415 V rated value	70 kA
• at 440 V rated value	50 kA
• at 480 V according to NEMA rated value	50 kA
• at 500 V rated value	40 kA
• at 600 V according to NEMA rated value	12 kA
• at 690 V rated value	12 kA
Connections	
arrangement of electrical connectors for main current circuit	front side
type of connectable conductor cross-sections for main contacts	
• with flexible busbar	17 x 10 mm
• solid	25 ... 185 mm ²
• finely stranded with core end processing	25 ... 120 mm ²
• stranded	25 ... 185 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	screw-type terminals
Mechanical Design	
height	185.5 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
- maximum

-40 °C
80 °C

General Product Approval

EMC



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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=3VL3720-2SS36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL3720-2SS36-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3720-2SS36-0AA0

CAX-Online-Generator

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

Tender specifications

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



