SIEMENS

Data sheet 3VL3720-1EJ46-0AA0

	circuit breaker VL250N standard breaking capacity Icu=55kA, 415V AC 4-pole, line protection Electronic Trip Unit TM, LI In=200A, rated current IR=160...200A, overload protection, II=1000...2000A, short-circuit protection N unprotected without auxiliary release without auxiliary/alarm switch
Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	TM
General technical data	
number of poles	4
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
● 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	186 A
● at 60 °C rated value	186 A
● at 65 °C rated value	172 A
● at 70 °C rated value	172 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	1 000 A
● of instantaneous short-circuit trip unit maximum	2 000 A
Main circuit	
operating frequency	
● 1 rated value	50 Hz
● 2 rated value	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 protection
Adjustable parameters	
adjustable current response value current of the current-dependent overload release initial value	160 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	
operating short-circuit current breaking capacity (Ics)	
● at 240 V rated value	65 kA
● at 415 V rated value	55 kA
● at 500 V rated value	20 kA
● at 690 V rated value	6 kA
maximum short-circuit current breaking capacity (Icu)	
● at 240 V rated value	65 kA
● at 415 V rated value	55 kA
● at 440 V rated value	25 kA
● at 480 V according to NEMA rated value	25 kA
● at 500 V rated value	25 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 mm²
● finely stranded with core end processing	25 ... 120 mm²
● stranded	25 ... 185 mm²
type of connectable conductor cross-sections for auxiliary contacts	
● solid	0.75 ... 1.5 mm²
● finely stranded with core end processing	0,75 ... 1.0 mm²
type of electrical connection for main current circuit	screw-type terminals
Mechanical Design	
height	185.5 mm
width	139.5 mm
depth	106.5 mm
fastening method	fixed mounting
Environmental conditions	
ambient temperature during operation	
● minimum	0 °C
● maximum	70 °C
ambient temperature during storage	
● minimum	-40 °C
● maximum	80 °C
General Product Approval	

Miscellaneous	Confirmation	TSE	KC	

EMC	Declaration of Conformity	Test Certificates	Marine / Shipping	
		Special Test Certific-ate		

Marine / Shipping					other
					Confirmation

other		
Miscellaneous	Environmental Con-firmations	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=3VL3720-1EJ46-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VL3720-1EJ46-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3720-1EJ46-0AA0
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications