SIEMENS

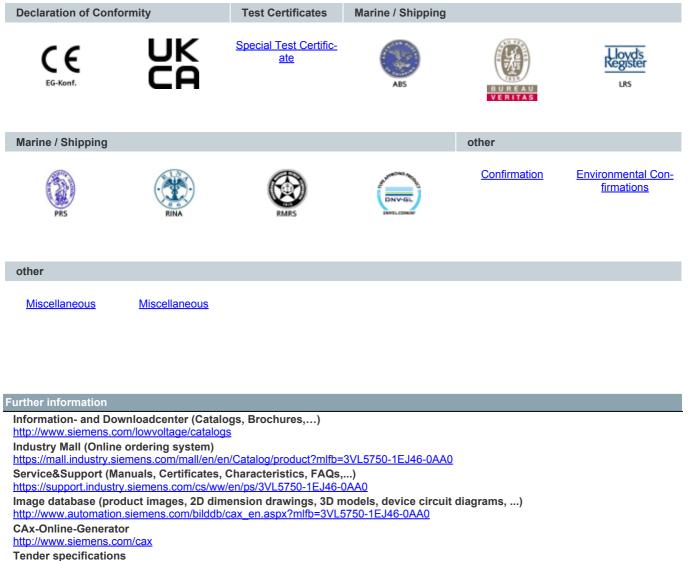
Data sheet

3VL5750-1EJ46-0AA0

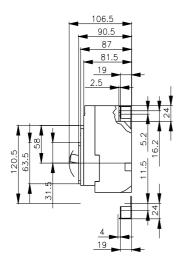
circuit breaker VL630N standard breaking capacity Icu=55kA, 415V AC 4pole, line protection trip unit TM, LI In=500A, rated current IR=400...500A, overload protection, II=2500...5000A, short-circuit protection N unprotected without auxiliary release without auxiliary/alarm switch

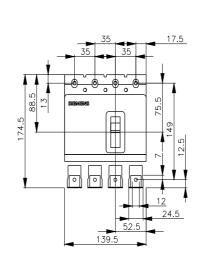
	without auxiliary release without auxiliary/alarm switch
Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	ТМ
General technical data	
number of poles	4
size of the circuit-breaker	3VL5
mechanical service life (operating cycles) typical	10 000
electrical endurance (operating cycles) typical	5 000
utilization category	A
performance class for circuit breaker	Ν
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	Q
operating frequency maximum	60 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
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LI
Current	
operational current	
 at 40 °C rated value 	500 A
 at 45 °C rated value 	500 A
 at 50 °C rated value 	500 A
 at 55 °C rated value 	465 A
 at 60 °C rated value 	465 A
 at 65 °C rated value 	430 A
 at 70 °C rated value 	430 A
continuous current rated value	500 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 	500 A
 of instantaneous short-circuit trip unit minimum 	2 500 A
 of instantaneous short-circuit trip unit maximum 	5 000 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

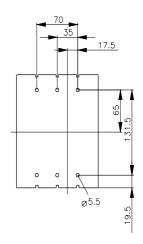
Suitability	
suitability for use	system protection
Adjustable parameters	
adjustable current response value current of the current- dependent overload release initial value	400 A
Product details	
product component	
trip indicator	No
auxiliary switch	No
 voltage trigger 	No
 undervoltage release 	No
 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	10 kA
maximum short-circuit current breaking capacity (Icu)	
 at 240 V rated value at 415 V rated value 	65 kA 55 kA
 at 440 V rated value 	35 kA
 at 440 V rated value 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 	20 kA
• at 690 V rated value	20 kA
Connections	
arrangement of electrical connectors for main current circuit	front side
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	279.5 mm
width	253.5 mm
depth	138.5 mm
fastening method	fixed mounting
Environmental conditions	
ambient temperature during operation	
● minimum	0°0
• maximum	70 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	0° 08
General Product Approval	EMC
Miscellaneous Confirmation	

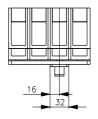


http://www.siemens.com/specifications









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