Data sheet

3VL1706-1DA36-0AA0

circuit breaker VL160X N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection Trip Unit TM, LI In=63A, rated current Ir=63A, overload protection II=600A, short-circuit prot. with screw terminals without auxiliary release without auxiliary/alarm switch

Model	auxiliary/alarm switch	
type of the driving mechanism motor drive	No	
design of the overcurrent release	TM	
General technical data		
number of poles	3	
size of the circuit-breaker	3VL1	
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	
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	5,5.5 p. 5.000001	
adjustable current response value current of the current- dependent overload release initial value	63 A	
Product details		
product component		
trip indicator	No	
auxiliary switch	No	
voltage trigger	No	
undervoltage release	No	
undervoltage release undervoltage release with leading contact	No	
product extension optional motor drive	Yes	
Product function	100	
product function		

of thermal overload trip unit	fixed			
grounding protection	No			
for neutral conductors short-circuit and overload proof	No			
overload protection				
Short circuit	Yes			
operating short-circuit current breaking capacity (lcs) • at 240 V rated value	65 kA			
at 240 V rated value at 415 V rated value				
	55 kA			
at 500 V rated value at 600 V rated value	14 kA			
at 690 V rated value maximum short circuit current breaking capacity (lou)	4 kA			
maximum short-circuit current breaking capacity (Icu) • at 240 V rated value	CE IA			
at 415 V rated value	65 kA			
	55 kA			
at 440 V rated value at 490 V according to NEMA rated value	25 kA			
at 480 V according to NEMA rated value at 500 V rated value	25 kA			
at 500 V casesding to NEMA rated value	18 kA			
 at 600 V according to NEMA rated value at 690 V rated value 	8 kA			
• at 690 V rated value Connections	8 kA			
	frant	aida		
arrangement of electrical connectors for main current circuit	front	side		
type of connectable conductor cross-sections for main contacts • with flexible busbar	10 11	10		
	12 x 10 mm			
• solid	2.5 95 mm²			
finely stranded with core end processing	2.5 50 mm ²			
stranded type of connectable conductor cross-sections for auxiliary contacts	2.5 95 mm²			
• solid	0.75 1.5 mm²			
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	157.5 mm			
width	104.5 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			
Approvals Certificates				
General Product Approval		other	Environment	







Confirmation

Environmental Confirmations

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=3VL1706-1DA36-0AA0

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

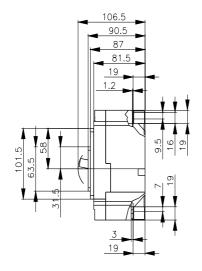
https://support.industry.siemens.com/cs/ww/en/ps/3VL1706-1DA36-0AA0

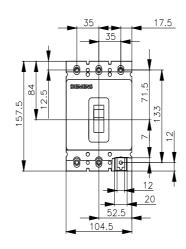
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

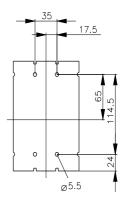
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1706-1DA36-0AA0

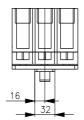
CAx-Online-Generator

http://www.siemens.com/cax









6/17/2023 last modified:

