Data sheet

3VL1706-1DD36-0AA0

circuit breaker VL160X N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection Trip Unit TM, LI In=63A, rated current Ir=50...63A, overload prot. II=600A, short-circuit prot. with screw terminals 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	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				
adjustable current response value current of the current- dependent overload release initial value	50 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 (lcs)			
• at 240 V rated value	65 kA		
at 415 V rated value	55 kA		
at 500 V rated value	14 kA		
at 690 V rated value	4 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	18 kA		
 at 600 V according to NEMA rated value 	8 kA		
• at 690 V rated value	8 kA		
Connections			
arrangement of electrical connectors for main current circuit	front side		
type of connectable conductor cross-sections for main contacts			
with flexible busbar	12 x 10 mm		
• solid	2.5 95 mm²		
• finely stranded with core end processing	2.5 50 mm ²		
• stranded	2.5 95 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	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		Test Certificates	other



Confirmation



Special Test Certific-<u>ate</u>

Miscellaneous

other **Environment**

Environmental Confirmations Environmental Con-firmations Confirmation **Miscellaneous**

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=3VL1706-1DD36-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VL1706-1DD36-0AA0

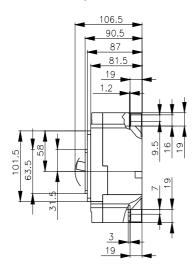
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1706-1DD36-0AA0

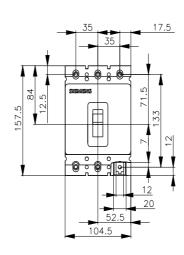
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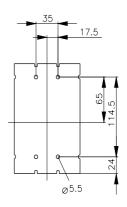
http://www.siemens.com/cax

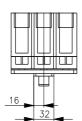
Tender specifications

http://www.siemens.com/specifications









last modified:

6/17/2023