Data sheet

3VL1702-1DD36-0AA0

circuit breaker VL160X N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection Trip Unit TM, LI In=20A, rated current Ir=16...20A, overload prot. II=300A, 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	16 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 mm²	
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	0°C	
Approvals Certificates		
General Product Approval		For use in hazard- ous locations

ous locations



Confirmation









Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping

other







Confirmation

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)

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VL1702-1DD36-0AA0

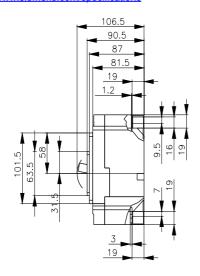
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

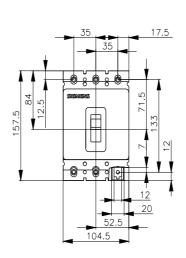
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1702-1DD36-0AA0

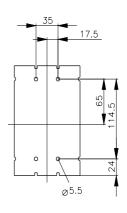
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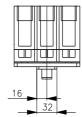
Tender specifications

http://www.siemens.com/specifications









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