## SIEMENS

## Data sheet

## 3VL1702-2DD36-0AA0

circuit breaker VL160X H high breaking capacity Icu=70kA, 415V AC 3-pole, line protection Trip Unit TM, LI In=20A, rated current Ir=20A, overload protection II=300A, short-circuit prot. with screw terminals without auxiliary release without auxiliary/alarm switch

auxiliary/alarm switch		
Model		
type of the driving mechanism motor drive	No	
design of the overcurrent release	ТМ	
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	Ν	
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	
<ul> <li>insulation voltage rated value</li> </ul>	800 V	
• insulation voltage (Ui) at AC rated value	800 V	
surge voltage resistance rated value	8 kV	
operating voltage		
<ul> <li>rated value maximum</li> </ul>	690 V	
<ul> <li>for main current circuit at AC at 50 Hz maximum</li> </ul>	690 V	
<ul> <li>for main current circuit at AC at 60 Hz maximum</li> </ul>	690 V	
<ul> <li>for main current circuit at DC maximum</li> </ul>	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		
productionouon		

<ul> <li>of thermal overload trip unit</li> </ul>	adjustable		
grounding protection	No		
<ul> <li>for neutral conductors short-circuit and overload proof</li> </ul>	No		
<ul> <li>overload protection</li> </ul>	Yes		
Short circuit			
operating short-circuit current breaking capacity (Ics)			
at 240 V rated value	75 kA		
<ul> <li>at 415 V rated value</li> </ul>	70 kA		
• at 500 V rated value	23 kA		
• at 690 V rated value	6 kA		
maximum short-circuit current breaking capacity (lcu)			
• at 240 V rated value	100 kA		
• at 415 V rated value	70 kA		
• at 440 V rated value	42 kA		
<ul> <li>at 480 V according to NEMA rated value</li> </ul>	42 kA		
• at 500 V rated value	30 kA		
<ul> <li>at 600 V according to NEMA rated value</li> </ul>	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	12 x 10 mm		
• solid	2.5 95 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	2.5 50 mm²		
stranded	2.5 95 mm²		
type of connectable conductor cross-sections for auxiliary contacts			
• solid	0.75 1.5 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	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°0		
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-	Miscellaneous
UK CE CA EG-Konf.		ate	
other Environment			

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)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VL1702-2DD36-0AA0 https://m

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VL1702-2DD36-0A/

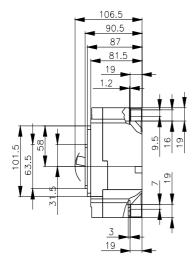
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VL1702-2DD36-0AA0

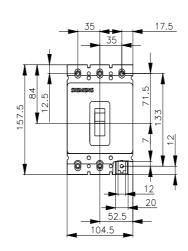
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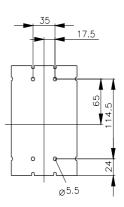
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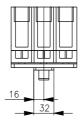
Tender specifications

http://www.siemens.com/specifications









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