## SIEMENS

## Data sheet

## 3VL1703-1DD36-0AA0

circuit breaker VL160X N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection Trip Unit TM, LI In=32A, rated current Ir=25...32A, overload prot. 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	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	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		
rated value maximum	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	26 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 Extension optional motor unve		
product function		

<ul> <li>of thermal overload trip unit</li> </ul>	adjustable		
<ul> <li>grounding protection</li> </ul>	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	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		
<ul> <li>at 480 V according to NEMA rated value</li> </ul>	25 kA		
• at 500 V rated value	18 kA		
<ul> <li>at 600 V according to NEMA rated value</li> </ul>	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			
<ul> <li>with flexible busbar</li> </ul>	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 °C		
• maximum	70 °C		
ambient temperature during storage			
• minimum	-40 °C		
• maximum	80 °C		
Approvals Certificates			
General Product Approval		Test Certificates	other
<u>Confirmation</u>		Special Test Certific-	Confirmation
	E EAC	ate	
EG-Kor	nf. <b>B. B. B. B.</b>		
other Environme	nt		
Miscellaneous <u>Miscellaneous</u> Environmer firmati			

Environmental Con-firmations

Environmental Con-firmations

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VL1703-1DD36-0AA0 https://m

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VL1703-1DD36-0A/

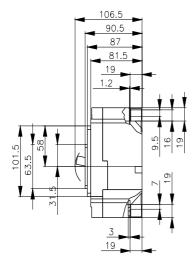
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VL1703-1DD36-0AA0

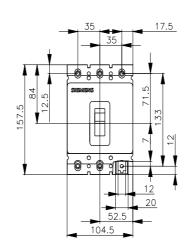
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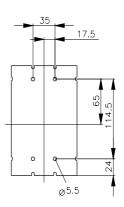
http://www.siemens.com/cax

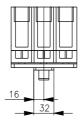
Tender specifications

http://www.siemens.com/specifications









last modified:

6/9/2021 🖸