## **Data sheet**

## 3VL1712-2DD36-0AA0

circuit breaker VL160X H high breaking capacity Icu=70kA, 415V AC 3-pole, line protection Trip Unit TM, LI In=125A, rated current Ir=125A, overload protection II=1000A, 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		
<ul> <li>insulation voltage (Ui) at AC rated value</li> </ul>	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	- Joseph Protocolori		
adjustable current response value current of the current- dependent overload release initial value	100 A		
Product details			
product component			
trip indicator	No		
auxiliary switch	No		
voltage trigger	No		
voltage trigger     undervoltage release	No		
undervoltage release     undervoltage release with leading contact			
	No Yes		
product extension optional motor drive	155		
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	75 kA		
at 415 V rated value	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		
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 mm <sup>2</sup>		
<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
General Product Approval		rest Certificates	otner



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=3VL1712-2DD36-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VL1712-2DD36-0AA0

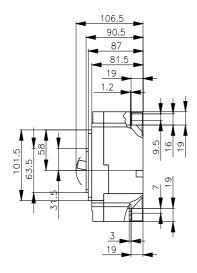
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VL1712-2DD36-0AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VL1712-2DD36-0AA0</a>

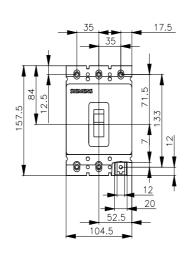
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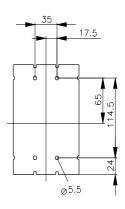
http://www.siemens.com/cax

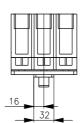
Tender specifications

http://www.siemens.com/specifications









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