SIEMENS

Data sheet

3VL1712-1EH46-0AA0

circuit breaker VL160X N standard breaking capacity Icu=55kA, 415V AC 4-pole, line protection Trip Unit TM, LI In=125A, rated current Ir=125A, overload protection II=1000A, short-circuit prot. N unprotected 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	4		
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	125 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			

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	139.5 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		



Confirmation



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

Confirmation

other **Environment**

Environmental Confirmations Environmental Confirmations Miscellaneous **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)

nall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VL1712-1EH46-0AA0

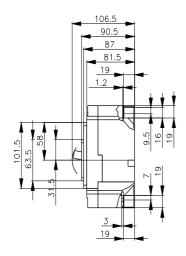
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VL1712-1EH46-0A/

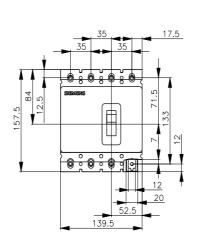
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1712-1EH46-0AA0

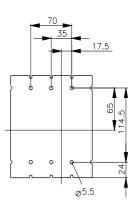
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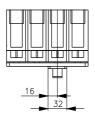
Tender specifications

http://www.siemens.com/specifications









last modified:

6/17/2023