SIEMENS

Data sheet 3VL1712-1EH43-0AA0

circuit breaker VL160X N standard breaking capacity Icu=55kA, 415V AC 4-pole, line protection Electronic Trip Unit TM, LI In=125A, rated current Ir=125A, overload protection II=1000A, short-circuit prot. N unprotected without auxiliary release without auxiliary/alarm switch

type of the driving mechanism motor drive design of the overcurrent release TM General technical data number of poles size of the circulibreaker activity of the poles and the poles and the poles are size of the circulibreaker and the poles and the poles are size of the circulibreaker and the poles are poles and the poles are poles and the poles and the poles and the poles are poles and the	Model		
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number of poles size of the circuit-breaker 3VL1 mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical 10 000 utilization category A A Performance class for circuit breaker N Performance Class (1)	design of the overcurrent release	TM	
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Voltage		Q	
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operating voltage • rated value maximum • for main current circuit at AC at 50 Hz maximum • for main current circuit at AC at 60 Hz maximum • for main current circuit at DC maximum • for main current circuit at DC maximum 500 V Protection class protection class IP protection function of the overcurrent release LI Current operational current • at 40 °C rated value • at 45 °C rated value • at 45 °C rated value • at 65 °C rated value • at 70 °C rated value • at 70 °C rated value continuous current rated value • of instantaneous short-circuit trip unit minimum • of instantaneous short-circuit trip unit minimum • of instantaneous short-circuit trip unit maximum Main circuit operating frequency • 1 rated value • 2 rated value • 2 rated value • 30 Hz • 3	 insulation voltage (Ui) at AC rated value 	800 V	
• rated value maximum • for main current circuit at AC at 50 Hz maximum • for main current circuit at AC at 60 Hz maximum • for main current circuit at DC maximum Protection class P	surge voltage resistance rated value	8 kV	
for main current circuit at AC at 50 Hz maximum for main current circuit at AC at 60 Hz maximum for main current circuit at DC maximum 500 V Protection class protection class IP protection function of the overcurrent release LI Current operational current at 40 °C rated value at 55 °C rated value at 60 °C rated value at 60 °C rated value at 65 °C rated value at 65 °C rated value at 60 °C rated value for instantaneous short-circuit trip unit minimum of instantaneous short-circuit trip unit maximum Main circuit output number of CO contacts for auxilliary contacts 0			
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at 60 °C rated value at 65 °C rated value at 70 °C rated value 125 A 250 °C 26	 at 50 °C rated value 	125 A	
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current adjustable current response value current • of the current-dependent overload release full-scale value • of instantaneous short-circuit trip unit minimum • of instantaneous short-circuit trip unit maximum 1 000 A • of instantaneous short-circuit trip unit maximum 1 000 A Main circuit operating frequency • 1 rated value • 2 rated value • 2 rated value Auxiliary circuit number of CO contacts for auxiliary contacts 0	continuous current rated value	125 A	
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of instantaneous short-circuit trip unit maximum 1 000 A Main circuit operating frequency	·	125 A	
Main circuit operating frequency • 1 rated value • 2 rated value 50 Hz 60 Hz Auxiliary circuit number of CO contacts for auxiliary contacts 0	 of instantaneous short-circuit trip unit minimum 	1 000 A	
operating frequency • 1 rated value • 2 rated value • 60 Hz Auxiliary circuit number of CO contacts for auxiliary contacts 0	of instantaneous short-circuit trip unit maximum	1 000 A	
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2 rated value 60 Hz Auxiliary circuit number of CO contacts for auxiliary contacts 0	operating frequency		
Auxiliary circuit number of CO contacts for auxiliary contacts 0	1 rated value	50 Hz	
number of CO contacts for auxiliary contacts 0	• 2 rated value	60 Hz	
	Auxiliary circuit		
number of NC contacts for auxiliary contacts	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	System protestion
	125 A
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	
of thermal overload trip unit	fixed
grounding protection	No
for neutral conductors short-circuit and overload	No
proof	
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	front side
circuit 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 ²
finely stranded with core end processing	0,75 1.0 mm²
type of electrical connection for main current circuit	box terminal
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
General Product Approval	

Confirmation



Miscellaneous

TSE

<u>KC</u>



EMC

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certificate





Marine / Shipping

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Environmental Confirmations

other

other

Confirmation

Miscellaneous

Miscellaneous

Further information

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=3VL1712-1EH43-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3VL1712-1EH43-0AA0

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

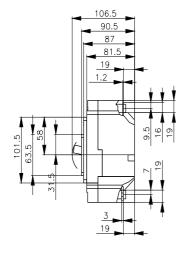
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1712-1EH43-0AA0

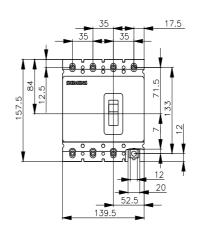
CAx-Online-Generator

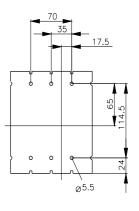
http://www.siemens.com/cax

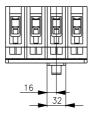
Tender specifications

http://www.siemens.com/specifications









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