

circuit breaker VL160X H high breaking capacity Icu=70kA, 415V AC 4-pole, line protection Trip Unit TM, LI In=32A, rated current Ir=32A, overload protection II=300A, short-circuit prot. N protected 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
<ul style="list-style-type: none"> insulation voltage rated value insulation voltage (Ui) at AC rated value 	800 V
surge voltage resistance rated value	8 kV
operating voltage <ul style="list-style-type: none"> 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 	690 V 690 V 690 V 500 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LIN
Main circuit	
operating frequency <ul style="list-style-type: none"> 1 rated value 2 rated value 	50 Hz 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	32 A
Product details	
product component <ul style="list-style-type: none"> trip indicator auxiliary switch voltage trigger undervoltage release undervoltage release with leading contact 	No No No No No
product extension optional motor drive	Yes
Product function	
product function	

- of thermal overload trip unit
- grounding protection
- for neutral conductors short-circuit and overload proof
- overload protection

fixed
No
Yes
Yes

Short circuit

operating short-circuit current breaking capacity (Ics)

- at 240 V rated value
- at 415 V rated value
- at 500 V rated value
- at 690 V rated value

75 kA
70 kA
23 kA
6 kA

maximum short-circuit current breaking capacity (Icu)

- at 240 V rated value
- at 415 V rated value
- at 440 V rated value
- at 480 V according to NEMA rated value
- at 500 V rated value
- at 600 V according to NEMA rated value
- at 690 V rated value

100 kA
70 kA
42 kA
42 kA
30 kA
12 kA
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
- solid
- finely stranded with core end processing
- stranded

12 x 10 mm
2.5 ... 95 mm²
2.5 ... 50 mm²
2.5 ... 95 mm²

type of connectable conductor cross-sections for auxiliary contacts

- solid
- finely stranded with core end processing

0.75 ... 1.5 mm²
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
- maximum

0 °C
70 °C

ambient temperature during storage

- minimum
- maximum

-40 °C
80 °C

Approvals Certificates

General Product Approval

Test Certificates

other



[Confirmation](#)



[Special Test Certificate](#)

[Miscellaneous](#)

other

Environment

[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

[Environmental Confirmations](#)

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=3VL1703-2EA46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL1703-2EA46-0AA0>

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

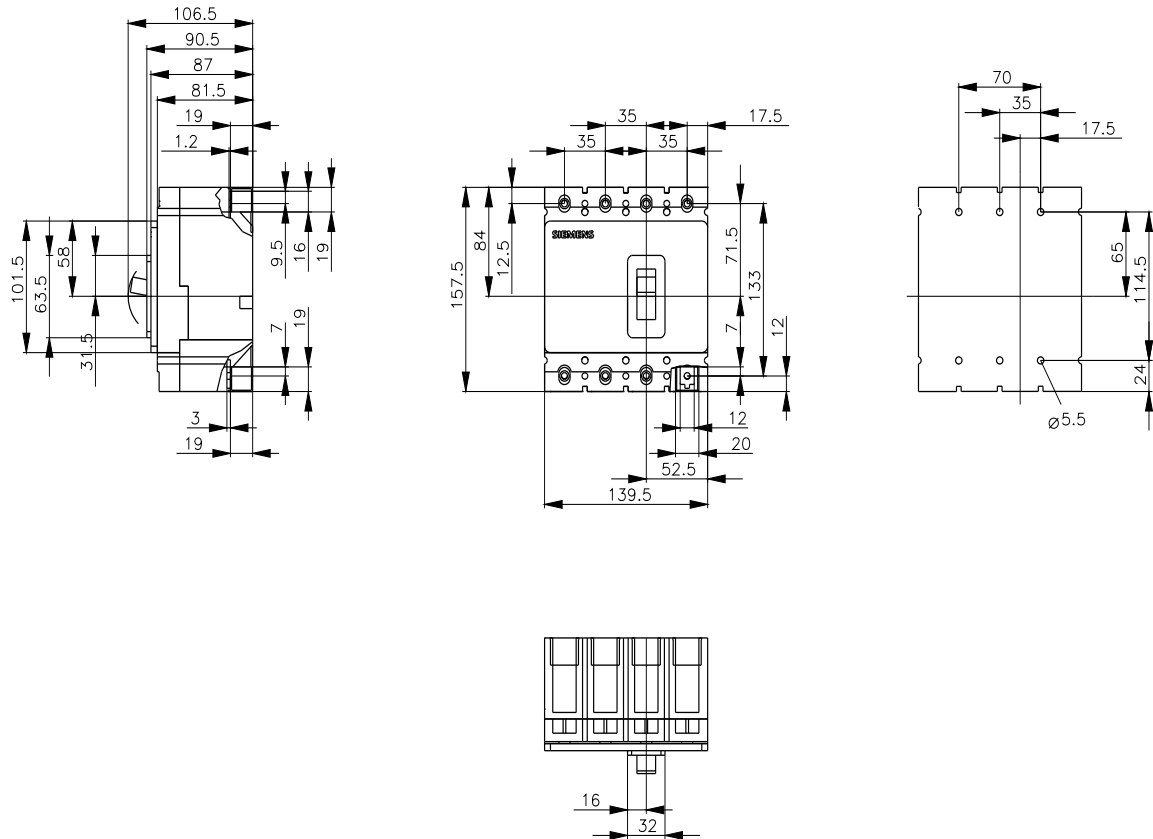
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1703-2EA46-0AA0

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



last modified:

6/17/2021

