



circuit breaker VL160N without Electronic Trip Unit standard breaking capacity I_{cu}=55kA/415V AC, 3-pole I_n<= 160A, rated current without auxiliary release with box terminals for switching unit and Electronic Trip Unit

Model	
design of the actuating element	Toggle lever
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
size of the circuit-breaker	3VL2
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 U _e max.	690 V
<ul style="list-style-type: none"> insulation voltage rated value insulation voltage (U_i) 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 	690 V
Protection class	
protection class IP	IP20
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
Product details	
product component <ul style="list-style-type: none"> trip indicator auxiliary switch voltage trigger undervoltage release 	No No No No
product extension optional motor drive	Yes

Product function

product function	
<ul style="list-style-type: none"> of thermal overload trip unit 	without
<ul style="list-style-type: none"> grounding protection 	No
<ul style="list-style-type: none"> for neutral conductors short-circuit and overload proof 	No
<ul style="list-style-type: none"> overload protection 	No

Short circuit

operating short-circuit current breaking capacity (Ics)	
<ul style="list-style-type: none"> at 240 V rated value 	65 kA
<ul style="list-style-type: none"> at 415 V rated value 	55 kA
<ul style="list-style-type: none"> at 500 V rated value 	20 kA
<ul style="list-style-type: none"> at 690 V rated value 	6 kA

maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> at 240 V rated value 	65 kA
<ul style="list-style-type: none"> at 415 V rated value 	55 kA
<ul style="list-style-type: none"> at 440 V rated value 	25 kA
<ul style="list-style-type: none"> at 480 V according to NEMA rated value 	25 kA
<ul style="list-style-type: none"> at 500 V rated value 	25 kA
<ul style="list-style-type: none"> at 600 V according to NEMA rated value 	12 kA
<ul style="list-style-type: none"> at 690 V rated value 	12 kA

Connections

arrangement of electrical connectors for main current circuit	front side
type of electrical connection for main current circuit	box terminal

Mechanical Design

height	174.5 mm
width	104.5 mm
depth	106.5 mm
fastening method	fixed mounting

Environmental conditions

ambient temperature during operation	
<ul style="list-style-type: none"> minimum 	-25 °C
<ul style="list-style-type: none"> maximum 	70 °C
ambient temperature during storage	
<ul style="list-style-type: none"> minimum 	-40 °C
<ul style="list-style-type: none"> maximum 	80 °C

General Product Approval

EMC

[Miscellaneous](#)

[Confirmation](#)



[TSE](#)



Declaration of Conformity

Test Certificates

Marine / Shipping



EG-Konf.



[Special Test Certificate](#)



ABS



BUREAU
VERITAS



PRS

Marine / Shipping

other



RINA



RMRS



DNV-GL

[Confirmation](#)

[Miscellaneous](#)

[Miscellaneous](#)

Environment

[Environmental Confirmations](#)

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3VL2716-1AA33-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL2716-1AA33-0AA0>

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

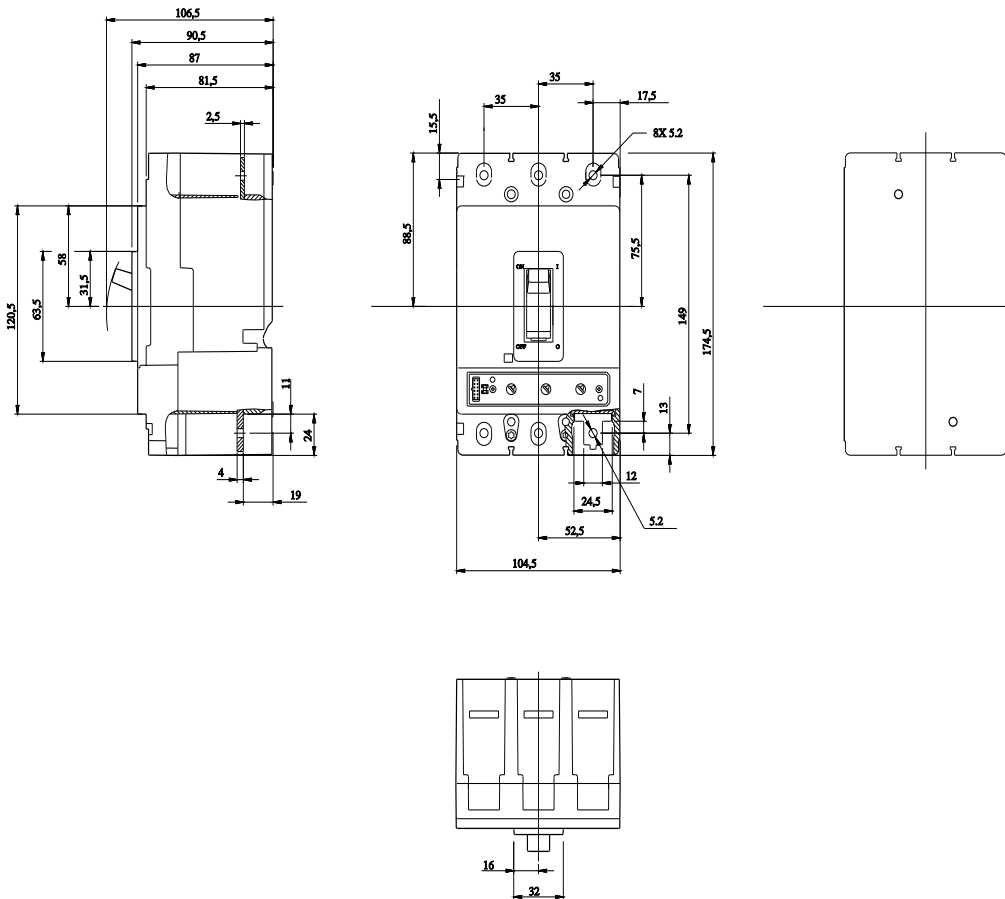
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2716-1AA33-0AA0

CAX-Online-Generator

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

Tender specifications

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



last modified:

8/11/2023

