SIEMENS

Data sheet	3VL2716-1AA43-0AA0

circuit breaker VL160N without Electronic Trip Unit standard breaking capacity Icu=55kA/415V AC, 4-pole In=< 160A, rated current without auxiliary release with box terminals f. 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	4
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 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
Protection class	
protection class IP	IP20
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
Product details	
product component	
● trip indicator	No
● auxiliary switch	No
● voltage trigger	No
● undervoltage release	No
product extension optional motor drive	Yes

Product function

product function	
● of thermal overload trip unit	without
● grounding protection	No
● for neutral conductors short-circuit and overload proof	No
● overload protection	No

Short circuit

operating short-circuit current breaking capacity (Ics)	
● at 240 V rated value	65 kA
● at 415 V rated value	55 kA
● at 500 V rated value	20 kA
● at 690 V rated value	6 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	25 kA
● at 600 V according to NEMA rated value	12 kA
● 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	139.5 mm
depth	106.5 mm
fastening method	fixed mounting

Environmental conditions

ambient temperature during operation	
● minimum	-25 °C
● maximum	70 °C
ambient temperature during storage	
● minimum	-40 °C
● maximum	80 °C

General Product Approval	Declaration of Conformity	Test Certificates
[Confirmation](#) CCC EAC	CE EG-Konf. UKCA	[Special Test Certificate](#)

Marine / Shipping

ABS   BUREAU VERITAS   PRS   RINA   RMRS   DNV·GL

other			Environment
[Miscellaneous](#)	[Confirmation](#)	[Miscellaneous](#)	[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=3VL2716-1AA43-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
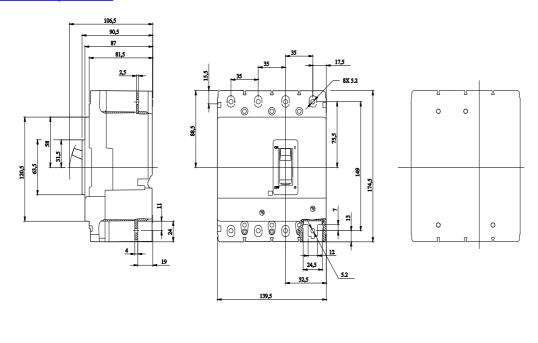https://support.industry.siemens.com/cs/ww/en/ps/3VL2716-1AA43-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
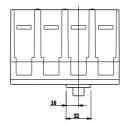http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2716-1AA43-0AA0

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://www.siemens.com/specifications

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