

circuit breaker VL160N standard breaking capacity  $I_{cu}=55\text{kA}$ , 415V AC 3-pole, line protection Electronic Trip Unit ETU12, LIG 3 phases/3 lines  $I_n=63\text{A}$ , rated current  $I_R=25\ldots63\text{A}$ , overload protection,  $I_t=1.25$  to  $11\times I_n$ , short-circuit protection with screw terminals without auxiliary release without auxiliary/alarm switch

Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	ETU12
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"> <li>insulation voltage rated value</li> <li>insulation voltage (<math>U_i</math>) at AC rated value</li> </ul>	800 V
surge voltage resistance rated value	8 kV
operating voltage <ul style="list-style-type: none"> <li>rated value maximum</li> <li>for main current circuit at AC at 50 Hz maximum</li> <li>for main current circuit at AC at 60 Hz maximum</li> <li>for main current circuit at DC maximum</li> </ul>	690 V 690 V 690 V 500 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LIG
Main circuit	
operating frequency <ul style="list-style-type: none"> <li>1 rated value</li> <li>2 rated value</li> </ul>	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	25 A
Product details	
product component <ul style="list-style-type: none"> <li>trip indicator</li> <li>auxiliary switch</li> <li>voltage trigger</li> <li>undervoltage release</li> <li>undervoltage release with leading contact</li> </ul>	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

adjustable  
Yes  
No  
Yes

#### 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 connectable conductor cross-sections for main contacts

- with flexible busbar 12 x 10 mm
- solid 2.5 ... 95 mm<sup>2</sup>
- finely stranded with core end processing 2.5 ... 50 mm<sup>2</sup>
- stranded 2.5 ... 95 mm<sup>2</sup>

type of connectable conductor cross-sections for auxiliary contacts

- solid 0.75 ... 1.5 mm<sup>2</sup>
- finely stranded with core end processing 0,75 ... 1.0 mm<sup>2</sup>

type of electrical connection for main current circuit

screw-type terminals

#### Mechanical Design

height 174.5 mm

width 104.5 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

#### Approvals Certificates

General Product Approval

Test Certificates



[Confirmation](#)



[Special Test Certificate](#)

other

Dangerous goods

Environment

[Confirmation](#)

[Miscellaneous](#)

[Miscellaneous](#)

[Transport Information](#)

[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=3VL2706-1SL36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL2706-1SL36-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL2706-1SL36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2706-1SL36-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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

---

last modified:

12/23/2020 

