



CIRCUIT-BREAKER VL160X N STANDARD
 BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE,
 LINE PROTECTION OVERCURRENT RELEASE TM, LI
 IN=32A, RATED CURRENT IR=25-32A, OVERLOAD
 II=300A, SHORT-CIRCUIT

Model		
Type of the driving mechanism / motor drive		No
General technical data		
Number of poles		3
Electrical endurance (switching cycles)		
• typical		10 000
Performance class for circuit breaker		N
Mechanical service life (switching cycles) / typical		20 000
Operating frequency / maximum	1/s	120
Voltage		
Rated operational voltage U_e / max.	V	690
Insulation voltage		
• Rated value	V	800
• with AC / Rated value	V	800
Surge voltage resistance		
• Rated value	kV	8
Protection class		
Protection class IP		IP20
Dissipation		
Active power loss		
• maximum	W	70
Electricity		
Continuous current		
• Rated value	A	32
Derating temperature / for the rated value of the continuous current	°C	50
Adjustable response value current		

- of the current-dependent overload release / Full-scale value
- of the instantaneous short-circuit release / initial value
- of the instantaneous short-circuit release / Full-scale value

A	32
A	300
A	300

Main circuit

Operating frequency

- 1 / Rated value
- 2 / Rated value

Hz	50
Hz	60

Operating voltage

- for main current circuit / with AC / at 50 Hz / maximum
- for main current circuit / with AC / at 60 Hz / maximum
- for main current circuit / for DC / maximum

V	690
V	690
V	500

Operating current

- at 40 °C / Rated value
- at 50 °C / Rated value
- at 55 °C / Rated value
- at 60 °C / Rated value
- at 65 °C / Rated value
- at 70 °C / Rated value

A	32
A	32
A	29.8
A	29.8
A	27.5
A	27.5

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

Adjustable parameters

Adjustable response value current / of the current-dependent overload release / initial value

A	26
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Appearance

Product details

Product component

- Trip indicator
- Auxiliary switch
- Voltage trigger
- undervoltage release
- undervoltage release with leading contact

No
No
No
No
No

Product expansion

- optional
- motor drive

Yes

Product function

Product function

- Ground fault protection
- for neutral conductors / Short-circuit and overload proof
- overload protection

No

No

Yes

Short circuit

Operational 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

kA	65
kA	55
kA	14
kA	4

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 / acc. to NEMA / Rated value
- at 500 V / Rated value
- at 600 V / acc. to NEMA / Rated value
- at 690 V / Rated value

kA	65
kA	55
kA	25
kA	25
kA	18
kA	8
kA	8

Mechanical Design

Height

mm 157.5

Width

mm 104.5

Depth

mm 106.5

Environmental conditions

Ambient temperature

- during operation / minimum
- during operation / maximum
- during storage / minimum
- during storage / maximum

°C	0
°C	70
°C	-40
°C	80

Certificates

General Product Approval	EMC
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[other](#)



[TSE](#)

[KTL](#)



Declaration of Conformity	Test Certificates	Shipping Approval
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EG-Konf.

[Special Test Certificate](#)



ABS



BUREAU VERITAS



DNV



GL

Shipping Approval	other
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PRS



RINA



RMRS

[Environmental Confirmations](#)

[Confirmation](#)

[other](#)

other

[other](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VL17031DD330AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL17031DD330AA0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL17031DD330AA0

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

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