

CIRCUIT-BREAKER VL 160N WITHOUT ELECTRONIC TRIP UNIT STANDARD BREAKING CAPACITY ICU= 55KA / 415 V AC, 3-POLE IN= < 160 A, RATED CURRENT WITHOUT AUXILIARY RELEASE WITH BOX TERMINALS FOR CONTACT UNIT AND OVERVOLTAGE RELEASE

Model		
Type of the driving mechanism / motor drive		No
General technical data		
Number of poles		3
Size of the circuit-breaker		3VL2
Electrical endurance (switching cycles) / typical		10 000
Usage category		A
Performance class for circuit breaker		N
Mechanical service life (switching cycles) / typical		20 000
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		Q
Operating frequency / maximum	1/s	120
Voltage		
Rated operational voltage U _e / max.	V	690
Insulation voltage		
• rated value	V	800
• at AC / rated value	V	800
Surge voltage resistance / rated value	kV	8
Protection class		
Protection class IP		IP20
Electricity		
Continuous current / rated value	A	160
Derating temperature / for the rated value of the continuous current	°C	50
• acc. to UL 489	°C	40
Main circuit		
Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Operating voltage		

<ul style="list-style-type: none"> • for main current circuit / at AC / at 50 Hz / maximum 	V	690
<ul style="list-style-type: none"> • for main current circuit / at AC / at 60 Hz / maximum 	V	690
Operating current		
<ul style="list-style-type: none"> • at 40 °C / rated value 	A	160
<ul style="list-style-type: none"> • at 50 °C / rated value 	A	160
<ul style="list-style-type: none"> • at 55 °C / rated value 	A	148.8
<ul style="list-style-type: none"> • at 60 °C / rated value 	A	148.8
<ul style="list-style-type: none"> • at 65 °C / rated value 	A	137.6
<ul style="list-style-type: none"> • at 70 °C / rated value 	A	137.6

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 		No
<ul style="list-style-type: none"> • Auxiliary switch 		No
<ul style="list-style-type: none"> • Voltage trigger 		No
<ul style="list-style-type: none"> • undervoltage release 		No
<ul style="list-style-type: none"> • undervoltage release with leading contact 		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"> • Ground fault 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		
Operational short-circuit current breaking capacity (Ics)		
<ul style="list-style-type: none"> • at 240 V / rated value 	kA	65
<ul style="list-style-type: none"> • at 415 V / rated value 	kA	55
<ul style="list-style-type: none"> • at 500 V / rated value 	kA	20
<ul style="list-style-type: none"> • at 690 V / rated value 	kA	6
Maximum short-circuit current breaking capacity (Icu)		
<ul style="list-style-type: none"> • at 240 V / rated value 	kA	65
<ul style="list-style-type: none"> • at 415 V / rated value 	kA	55
<ul style="list-style-type: none"> • at 440 V / rated value 	kA	25

- 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	25
kA	25
kA	12
kA	12

Connections

Arrangement of electrical connectors / for main current circuit		front side
Type of electrical connection / for main current circuit		box terminals

Mechanical Design

Height	mm	174.5
Width	mm	104.5
Depth	mm	106.5
Mounting type		fixed mounting

Environmental conditions

Ambient temperature		
• during operation / minimum	°C	-25
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	80

Certificates

Certificate of suitability		IEC, standard switching capacity (N)
Equipment marking		
• acc. to DIN EN 61346-2		Q

General Product Approval	EMC	Declaration of Conformity
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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/3VL2716-1AA33-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL2716-1AA33-0AA0/all>

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

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

CAX-Online-Generator

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

Tender specifications

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

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