

CIRCUIT-BREAKER VL 400N STANDARD BREAKING
CAPACITY ICU=55KA / 415 V AC 4 POLE, LINE
PROTECTION ELECTRONIC TRIP UNIT ETU20, LSI
IN=315A, RATED CURRENT IR=128-315A,
OVERLOAD ISD=1,5TO10XIR, II=11XIN SHORT-
CIRCUIT N PROTECTED

Model		
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		ETU20
General technical data		
Number of poles		4
Size of the circuit-breaker		3VL4
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 Ue / 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
Protective function of the overcurrent release		LSIN
Electricity		
Continuous current / rated value	A	315
Derating temperature / for the rated value of the continuous current	°C	50
Adjustable pick-up value current		
• of the current-dependent overload release / Full-scale value	A	315
• of instantaneous short-circuit trip unit / initial value	A	3 465

• of instantaneous short-circuit trip unit / Full-scale value	A	3 465
Main circuit		
Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Operating voltage		
• for main current circuit / at AC / at 50 Hz / maximum	V	690
• for main current circuit / at AC / at 60 Hz / maximum	V	690
• for main current circuit / at DC / maximum	V	500
Operating current		
• at 40 °C / rated value	A	315
• at 50 °C / rated value	A	315
• at 55 °C / rated value	A	299.3
• at 60 °C / rated value	A	299.3
• at 65 °C / rated value	A	252
• at 70 °C / rated value	A	252
Auxiliary circuit		
Number of CO contacts / for auxiliary contacts		0
Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		2
Suitability		
Suitability for use		system/generator protection
Adjustable parameters		
Adjustable pick-up value current / of the current-dependent overload release / initial value	A	126
Product details		
Product component		
• Trip indicator		Yes
• Auxiliary switch		Yes
• Voltage trigger		No
• undervoltage release		No
• undervoltage release with leading contact		No
Product extension / optional / motor drive		Yes
Product function		
Product function		
• of thermal overload trip unit		adjustable
• Ground fault protection		No

- for neutral conductors / Short-circuit and overload proof
- Overload protection

Yes

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	20
kA	8

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	35
kA	35
kA	25
kA	20
kA	15

Connections

Arrangement of electrical connectors / for main current circuit

front side

Type of connectable conductor cross-sections

- for main contacts
 - with flexible busbar
 - solid
 - finely stranded / with core end processing
 - stranded
- for auxiliary contacts
 - solid
 - finely stranded / with core end processing

25 x 10
50 ... 300 mm ²
50 ... 240 mm ²
50 ... 300 mm ²
0.75 ... 1.5 mm ²
0,75 ... 1.0 mm ²

Type of electrical connection / for main current circuit

screw-type terminals

Mechanical Design

Height

mm	279.5
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Width

mm	183.5
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Depth

mm	163.5
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Mounting type

fixed mounting

Environmental conditions

Ambient temperature

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

°C	-25
°C	70
°C	-40

• during storage / maximum

°C 80

Certificates

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

General Product Approval	EMC	Declaration of Conformity
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Test Certificates	Shipping Approval	other
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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/3VL47311TF460AD1>

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

<http://support.automation.siemens.com/WW/view/en/3VL47311TF460AD1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL47311TF460AD1

CAX-Online-Generator

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

Tender specifications

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

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