

CIRCUIT-BREAKER VL 630N STANDARD BREAKING
CAPACITY ICU=55KA / 415 V AC 3 POLE, LINE
PROTECTION ELECTRONIC TRIP UNIT ETU10, LI
IN=630A, RATED CURRENT IR=252-630A,
OVERLOAD II=1,25TO10XIN, SHORT CIRCUIT

Model		
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		ETU10
General technical data		
Number of poles		3
Size of the circuit-breaker		3VL5
Electrical endurance (switching cycles) / typical		5 000
Usage category		A
Performance class for circuit breaker		N
Mechanical service life (switching cycles) / typical		10 000
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		Q
Operating frequency / maximum	1/s	60
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		LI
Dissipation		
Power loss [W]		
• maximum	W	160
Electricity		
Continuous current / rated value	A	630
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	630

- of instantaneous short-circuit trip unit / initial value
- of instantaneous short-circuit trip unit / Full-scale value

A	788
A	6 300

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
Operating current		
• at 40 °C / rated value	A	630
• at 50 °C / rated value	A	630
• at 55 °C / rated value	A	598.5
• at 60 °C / rated value	A	598.5
• at 65 °C / rated value	A	504
• at 70 °C / rated value	A	504

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
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Adjustable parameters

Adjustable pick-up value current / of the current-dependent overload release / initial value	A	252
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Product details

Product component		
• Trip indicator		No
• Auxiliary switch		No
• Voltage trigger		Yes
• 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
- 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 20
kA 10

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 25
kA 25
kA 20
kA 20

Connections

Arrangement of electrical connectors / for main current circuit

front side

Type of connectable conductor cross-sections

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

0.75 ... 1.5 mm²
0,75 ... 1.0 mm²

Type of electrical connection / for main current circuit

screw-type terminals

Mechanical Design

Height

mm 279.5

Width

mm 190

Depth

mm 138.5

Mounting type

fixed mounting

Environmental conditions

Ambient temperature

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

°C -25
°C 70
°C -40
°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



CCC

[sonstig](#)



[TSE](#)



C-TICK



EG-Konf.

Test Certificates

Shipping Approval

other

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DNV



GL



RINA



RMRS

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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/3VL57631SB368RA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL57631SB368RA0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL57631SB368RA0

CAX-Online-Generator

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

Tender specifications

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

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