



CIRCUIT-BREAKER VL 630N STANDARD BREAKING CAPACITY
 ICU=55KA / 415 V AC 4 POLE, LINE PROTECTION
 OVERCURRENT RELEASE TM, LI IN=500A, RATED CURRENT
 IR=400-500A, OVERLOAD II=2500-5000A, SHORT CIRCUIT N
 NOT PROTECTED

Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	TM
General technical data	
Number of poles	4
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	60 1/s
Voltage	
Rated operational voltage U _e / max.	690 V
Insulation voltage	
• rated value	800 V
• at AC / rated value	800 V

Surge voltage resistance / rated value	8 kV
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Protection class

Protection class IP	IP20
Protective function of the overcurrent release	LI

Electricity

Continuous current / rated value	500 A
Derating temperature / for the rated value of the continuous current	50 °C
Adjustable pick-up value current	
<ul style="list-style-type: none"> • of the current-dependent overload release / Full-scale value 	500 A
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / initial value 	2 500 A
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / Full-scale value 	5 000 A

Main circuit

Operating frequency	
<ul style="list-style-type: none"> • 1 / rated value 	50 Hz
<ul style="list-style-type: none"> • 2 / rated value 	60 Hz
Operating voltage	
<ul style="list-style-type: none"> • for main current circuit / at AC / at 50 Hz / maximum 	690 V
<ul style="list-style-type: none"> • for main current circuit / at AC / at 60 Hz / maximum 	690 V
Operating current	
<ul style="list-style-type: none"> • at 40 °C / rated value 	500 A
<ul style="list-style-type: none"> • at 50 °C / rated value 	500 A
<ul style="list-style-type: none"> • at 55 °C / rated value 	465 A
<ul style="list-style-type: none"> • at 60 °C / rated value 	465 A
<ul style="list-style-type: none"> • at 65 °C / rated value 	430 A
<ul style="list-style-type: none"> • at 70 °C / rated value 	430 A

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	400 A
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Product details

Product component	
<ul style="list-style-type: none"> • Trip indicator 	Yes
<ul style="list-style-type: none"> • Auxiliary switch 	Yes
<ul style="list-style-type: none"> • 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	No
• Overload protection	Yes

Short circuit

Operational 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	10 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	35 kA
• at 480 V / acc. to NEMA / rated value	25 kA
• at 500 V / rated value	25 kA
• at 600 V / acc. to NEMA / rated value	20 kA
• at 690 V / rated value	20 kA

Connections

Arrangement of electrical connectors / for main current circuit	front side
Type of electrical connection / for main current circuit	screw-type terminals

Mechanical Design

Height	279.5 mm
Width	253.5 mm
Depth	138.5 mm
Mounting type	fixed mounting

Environmental conditions

Ambient temperature	
• during operation / minimum	0 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C

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

Test Certificates



CCC

[sonstig](#)

[TSE](#)



C-Tick



EG-Konf.

[spezielle
Prüfbescheinigunge
n](#)

Shipping Approval

other



LRS



PRS



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/3VL5750-1EJ46-0AE1>

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

<http://support.automation.siemens.com/WW/view/en/3VL5750-1EJ46-0AE1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5750-1EJ46-0AE1

CAX-Online-Generator

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

Tender specifications

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