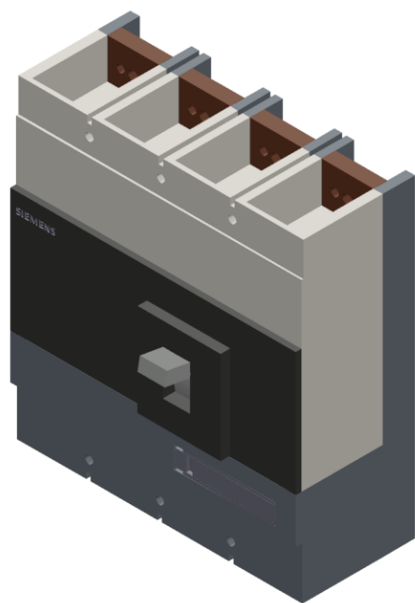


circuit breaker VL630N standard breaking capacity Icu=55kA, 415V AC 4-pole, non-auto. air circ. br. trip unit magnetic In=630A, rated current II=6500A, short-circuit protection without auxiliary release without auxiliary/alarm switch



Model	
type of the driving mechanism / motor drive	No
design of the overcurrent release	M
General technical data	
number of poles	4
size of the circuit-breaker	3VL5
mechanical service life (switching cycles) / typical	10 000

electrical endurance (switching cycles) / typical	5 000
usage category	A
performance class for circuit breaker	N
reference code / 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
operating voltage	
• rated value / maximum	690 V
• for main current circuit / at AC / at 50 Hz / maximum	690 V
• for main current circuit / at AC / at 60 Hz / maximum	690 V

Protection class

protection class IP	IP20
protection function of the overcurrent release	I

Current

continuous current / rated value	630 A
derating temperature / for the rated value of the continuous current	50 °C
adjustable pick-up value current	
• of instantaneous short-circuit trip unit / initial value	6 300 A
• of instantaneous short-circuit trip unit / full-scale value	6 300 A

Main circuit

operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
operating current	
• at 40 °C / rated value	630 A
• at 50 °C / rated value	630 A
• at 55 °C / rated value	585.9 A
• at 60 °C / rated value	585.9 A
• at 65 °C / rated value	541.8 A
• at 70 °C / rated value	541.8 A

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	non-automatic circuit-breakers
Product details	
product component	
• trip indicator	No
• auxiliary switch	No
• 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	without
• ground fault protection	No
• for neutral conductors / short-circuit and overload proof	No
• overload protection	No
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 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	279.5 mm
width	253.5 mm
depth	138.5 mm
mounting type	fixed mounting

Environmental conditions

ambient temperature / during operation

- minimum
- maximum

0 °C

70 °C

ambient temperature / during storage

- minimum
- maximum

-40 °C

80 °C

Certificates

certificate of suitability IEC, standard switching capacity (N)

reference code

- acc. to DIN EN 61346-2

Q

General Product Approval

EMC

Declaration of Conformity

Test Certifi- cates



[Miscellaneous](#)

[TSE](#)



[Special Test Certi-
ficate](#)

Shipping Approval



other

[Confirmation](#)

[Environmental Con-
firmations](#)

[Manufacturer De-
claration](#)

[Miscellaneous](#)

Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VL5763-1EE46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL5763-1EE46-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5763-1EE46-0AA0

CAX-Online-Generator

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

Tender specifications

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