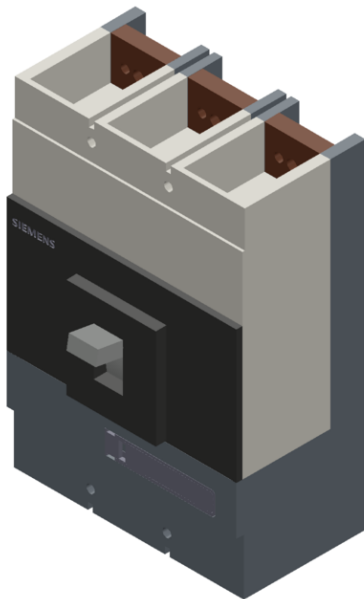


circuit breaker VL630N standard breaking capacity $I_{cu}=55kA$, 415V AC 3-pole, non-auto. air circ. br. trip unit magnetic $I_n=630A$, rated current $I_l=6300A$, short-circuit protection Shunt release 110...127 V AC without auxiliary/alarm switch



Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	M
General technical data	
Number of poles	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
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
Protective function of the overcurrent release	I

Current

Operating current / at 45 °C / rated value	630 A
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	
<ul style="list-style-type: none"> • Trip indicator • Auxiliary switch • Voltage trigger • undervoltage release • undervoltage release with leading contact 	<ul style="list-style-type: none"> No No Yes No No
Product extension / optional / motor drive	Yes
Product function	
Product function	
<ul style="list-style-type: none"> • of thermal overload trip unit • Ground fault protection • for neutral conductors / Short-circuit and overload proof • Overload protection 	<ul style="list-style-type: none"> without No No No
Short circuit	
Operational short-circuit current breaking capacity (Ics)	
<ul style="list-style-type: none"> • at 240 V / rated value • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value 	<ul style="list-style-type: none"> 65 kA 55 kA 20 kA 10 kA
Maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> 65 kA 55 kA 35 kA 25 kA 25 kA 20 kA 20 kA
Connections	
Arrangement of electrical connectors / for main current circuit	front side
Type of connectable conductor cross-sections	

- for auxiliary contacts / solid 0.75 ... 1.5 mm²
- for auxiliary contacts / finely stranded / with core end processing 0,75 ... 1.0 mm²

Type of electrical connection / for main current circuit screw-type terminals

Mechanical Design

Height	279.5 mm
Width	190 mm
Depth	138.5 mm
Mounting type	fixed mounting
<ul style="list-style-type: none"> • during operation • during storage 	0 ... 70 °C -40 ... +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 Certificates
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[Miscellaneous](#)

[TSE](#)



[Special Test Certificate](#)

Shipping Approval



other

[Environmental Confirmations](#)

[Confirmation](#)

[Manufacturer Declaration](#)

[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=3VL5763-1DE36-8RA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL5763-1DE36-8RA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5763-1DE36-8RA0

CAx-Online-Generator
<http://www.siemens.com/cax>

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