

circuit breaker VL630N standard breaking capacity Icu=55kA, 415V AC 4-pole, line protection trip unit ETU12, LIG In=630A, rated current IR=252...630A, overload protection, II=1.25 to 10xIN, short-circuit protection N protected without auxiliary release without auxiliary/alarm switch

Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	ETU12
General technical data	
number of poles	4
size of the circuit-breaker	3VL5
mechanical service life (operating cycles) typical	10 000
electrical endurance (operating cycles) typical	5 000
utilization category	A
performance class for circuit breaker	N
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	Q
operating frequency maximum	60 1/s
Voltage	
Rated operational voltage Ue max.	690 V
<ul style="list-style-type: none"> <li>insulation voltage rated value</li> <li>insulation voltage (Ui) at AC rated value</li> </ul>	800 V
surge voltage resistance rated value	8 kV
operating voltage <ul style="list-style-type: none"> <li>rated value maximum</li> <li>for main current circuit at AC at 50 Hz maximum</li> <li>for main current circuit at AC at 60 Hz maximum</li> </ul>	690 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LING
Main circuit	
operating frequency <ul style="list-style-type: none"> <li>1 rated value</li> <li>2 rated value</li> </ul>	50 Hz
	60 Hz
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
Adjustable parameters	
adjustable current response value current of the current-dependent overload release initial value	252 A
Product details	
product component <ul style="list-style-type: none"> <li>trip indicator</li> <li>auxiliary switch</li> <li>voltage trigger</li> <li>undervoltage release</li> <li>undervoltage release with leading contact</li> </ul>	No
	No
	No
	No
	No
product extension optional motor drive	Yes
Product function	
product function <ul style="list-style-type: none"> <li>of thermal overload trip unit</li> </ul>	adjustable

- grounding protection
- for neutral conductors short-circuit and overload proof
- overload protection

Yes  
Yes  
Yes

#### Short circuit

operating 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 according to NEMA rated value	25 kA
• at 500 V rated value	25 kA
• at 600 V according 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	0.75 ... 1.5 mm <sup>2</sup>
• finely stranded with core end processing	0,75 ... 1.0 mm <sup>2</sup>
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
fastening method	fixed mounting

#### Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	80 °C

#### Approvals Certificates

General Product Approval	Test Certificates
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[Confirmation](#)



[Special Test Certificate](#)

other	Dangerous goods	Environment
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[Confirmation](#)

[Miscellaneous](#)

[Miscellaneous](#)

[Transport Information](#)

[Environmental Confirmations](#)

[Environmental Confirmations](#)

#### Further information

Information on the packaging  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>  
 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=3VL5763-1TN46-0AA0>  
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/3VL5763-1TN46-0AA0>  
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL5763-1TN46-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5763-1TN46-0AA0)  
 CAX-Online-Generator

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