

circuit breaker VL630N standard breaking capacity I<sub>cu</sub>=55kA, 415V AC 4-pole, line protection trip unit TM, LI I<sub>n</sub>=630A, rated current I<sub>R</sub>=500...630A, overload protection, I<sub>I</sub>=3250...6500A, short-circuit protection N unprotected without auxiliary release without auxiliary/alarm switch

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
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 U <sub>e</sub> max.	690 V
<ul style="list-style-type: none"> <li>insulation voltage rated value</li> <li>insulation voltage (U<sub>i</sub>) 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	LI
Current	
operational current	
<ul style="list-style-type: none"> <li>at 40 °C rated value</li> <li>at 45 °C rated value</li> <li>at 50 °C rated value</li> <li>at 55 °C rated value</li> <li>at 60 °C rated value</li> <li>at 65 °C rated value</li> <li>at 70 °C rated value</li> </ul>	630 A
continuous current rated value	630 A
derating temperature for the rated value of the continuous current	50 °C
adjustable current response value current	
<ul style="list-style-type: none"> <li>of the current-dependent overload release full-scale value</li> <li>of instantaneous short-circuit trip unit minimum</li> <li>of instantaneous short-circuit trip unit maximum</li> </ul>	630 A
	3 150 A
	6 300 A
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	504 A
Product details	
product component	
<ul style="list-style-type: none"> <li>• trip indicator</li> </ul>	No
<ul style="list-style-type: none"> <li>• auxiliary switch</li> </ul>	No
<ul style="list-style-type: none"> <li>• voltage trigger</li> </ul>	No
<ul style="list-style-type: none"> <li>• undervoltage release</li> </ul>	No
<ul style="list-style-type: none"> <li>• undervoltage release with leading contact</li> </ul>	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
<ul style="list-style-type: none"> <li>• grounding protection</li> </ul>	No
<ul style="list-style-type: none"> <li>• for neutral conductors short-circuit and overload proof</li> </ul>	No
<ul style="list-style-type: none"> <li>• overload protection</li> </ul>	Yes
Short circuit	
operating short-circuit current breaking capacity (Ics)	
<ul style="list-style-type: none"> <li>• at 240 V rated value</li> </ul>	65 kA
<ul style="list-style-type: none"> <li>• at 415 V rated value</li> </ul>	55 kA
<ul style="list-style-type: none"> <li>• at 500 V rated value</li> </ul>	20 kA
<ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>	10 kA
maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> <li>• at 240 V rated value</li> </ul>	65 kA
<ul style="list-style-type: none"> <li>• at 415 V rated value</li> </ul>	55 kA
<ul style="list-style-type: none"> <li>• at 440 V rated value</li> </ul>	35 kA
<ul style="list-style-type: none"> <li>• at 480 V according to NEMA rated value</li> </ul>	25 kA
<ul style="list-style-type: none"> <li>• at 500 V rated value</li> </ul>	25 kA
<ul style="list-style-type: none"> <li>• at 600 V according to NEMA rated value</li> </ul>	20 kA
<ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>	20 kA
Connections	
arrangement of electrical connectors for main current circuit	front side
type of connectable conductor cross-sections for auxiliary contacts	
<ul style="list-style-type: none"> <li>• solid</li> </ul>	0.75 ... 1.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>	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	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	0 °C
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	70 °C
ambient temperature during storage	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	-40 °C
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	80 °C
General Product Approval	
	EMC



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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?mfb=3VL5763-1EJ46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL5763-1EJ46-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VL5763-1EJ46-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL5763-1EJ46-0AA0)

CAX-Online-Generator

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

Tender specifications

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



