

circuit breaker VL630N standard breaking capacity  $I_{cu}=55kA$ , 415V AC 3-pole, line protection trip unit TM, LI  $I_n=500A$ , rated current  $I_R=400...500A$ , overload protection,  $I_t=2500...5000A$ , short-circuit protection 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	3
size of the circuit-breaker	3VL5
mechanical service life (operating cycles) / typical	10 000
electrical endurance (switching cycles) / typical	5 000
utilization 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	LI
Current	
operational current	
• at 40 °C / rated value	500 A
• at 45 °C / rated value	500 A
• at 50 °C / rated value	500 A
• at 55 °C / rated value	465 A
• at 60 °C / rated value	465 A
• at 65 °C / rated value	430 A
• at 70 °C / rated value	430 A
continuous current / rated value	500 A
derating temperature / for the rated value of the continuous current	50 °C
adjustable current response value current	
• of the current-dependent overload release / full-scale value	500 A
• of instantaneous short-circuit trip unit / minimum	2 500 A
• of instantaneous short-circuit trip unit / maximum	5 000 A
Main circuit	
operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	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	400 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>	<ul style="list-style-type: none"> <li>No</li> <li>No</li> <li>No</li> <li>No</li> <li>No</li> </ul>
product extension / optional / motor drive	Yes
Product function	
product function	
<ul style="list-style-type: none"> <li>• of thermal overload trip unit</li> <li>• grounding protection</li> <li>• for neutral conductors / short-circuit and overload proof</li> <li>• overload protection</li> </ul>	<ul style="list-style-type: none"> <li>adjustable</li> <li>No</li> <li>No</li> <li>Yes</li> </ul>
Short circuit	
breaking capacity operating short-circuit current (Ics)	
<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> <li>• at 415 V / rated value</li> <li>• at 500 V / rated value</li> <li>• at 690 V / rated value</li> </ul>	<ul style="list-style-type: none"> <li>65 kA</li> <li>55 kA</li> <li>20 kA</li> <li>10 kA</li> </ul>
breaking capacity maximum short-circuit current (Icu)	
<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> <li>• at 415 V / rated value</li> <li>• at 440 V / rated value</li> <li>• at 480 V / acc. to NEMA / rated value</li> <li>• at 500 V / rated value</li> <li>• at 600 V / acc. to NEMA / rated value</li> <li>• at 690 V / rated value</li> </ul>	<ul style="list-style-type: none"> <li>65 kA</li> <li>55 kA</li> <li>35 kA</li> <li>25 kA</li> <li>25 kA</li> <li>20 kA</li> <li>20 kA</li> </ul>
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> <li>• finely stranded / with core end processing</li> </ul>	<ul style="list-style-type: none"> <li>0.75 ... 1.5 mm<sup>2</sup></li> <li>0,75 ... 1.0 mm<sup>2</sup></li> </ul>
type of electrical connection / for main current circuit	screw-type terminals
Mechanical Design	
height	279.5 mm
width	190 mm
depth	138.5 mm
fastening method	fixed mounting
Environmental conditions	
ambient temperature / during operation	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<ul style="list-style-type: none"> <li>0 °C</li> <li>70 °C</li> </ul>
ambient temperature / during storage	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<ul style="list-style-type: none"> <li>-40 °C</li> <li>80 °C</li> </ul>

General Product Approval	EMC	Declaration of Conformity
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[Miscellaneous](#)



[TSE](#)



Test Certificates	Marine / Shipping
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[Special Test Certificate](#)



Marine / Shipping	other
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[Confirmation](#)

[Environmental Confirmations](#)

[Miscellaneous](#)

[Manufacturer Declaration](#)

other
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[Miscellaneous](#)

Further information
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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=3VL5750-1DC36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL5750-1DC36-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL5750-1DC36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5750-1DC36-0AA0)

CAx-Online-Generator

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

Tender specifications

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

