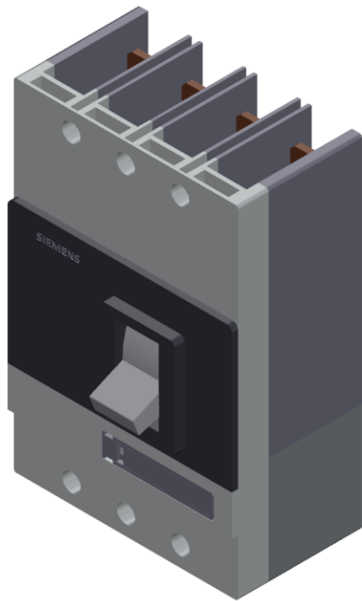


circuit breaker VL400L very high breaking capacity Icu=100kA, 415V AC 4-pole, line protection Electronic Trip Unit TM, LI In=200A, rated current IR=160...200A, overload protection, II=1000...2000A, short-circuit protection N unprotected without auxiliary release without auxiliary/alarm switch



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	3VL4
Electrical endurance (switching cycles) / typical	10 000

Usage category	A
Performance class for circuit breaker	N
Mechanical service life (switching cycles) / typical	20 000
Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	Q
Operating frequency / maximum	120 1/s

### Voltage

Rated operational voltage U <sub>e</sub> / 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
• for main current circuit / at DC / maximum	500 V

### Protection class

Protection class IP	IP20
protection function of the overcurrent release	LI

### Current

Continuous current / rated value	200 A
Derating temperature / for the rated value of the continuous current	50 °C
adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	200 A
• of instantaneous short-circuit trip unit / initial value	1 000 A
• of instantaneous short-circuit trip unit / Full-scale value	2 000 A

### Main circuit

Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating current	
• at 40 °C / rated value	200 A
• at 50 °C / rated value	200 A
• at 55 °C / rated value	186 A
• at 60 °C / rated value	186 A

- at 65 °C / rated value 172 A
- at 70 °C / rated value 172 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	system protection
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### Adjustable parameters

adjustable pick-up value current / of the current-dependent overload release / initial value	160 A
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### 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>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
Product extension / optional / motor drive	Yes

### Product function

Product function	
<ul style="list-style-type: none"> <li>• of thermal overload trip unit</li> <li>• Ground fault protection</li> <li>• for neutral conductors / Short-circuit and overload proof</li> <li>• Overload protection</li> </ul>	<p>adjustable</p> <p>No</p> <p>No</p> <p>Yes</p>

### Short circuit

Operational short-circuit current breaking capacity (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>	<p>150 kA</p> <p>75 kA</p> <p>38 kA</p> <p>8 kA</p>
Maximum short-circuit current breaking capacity (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> </ul>	<p>200 kA</p> <p>100 kA</p> <p>75 kA</p> <p>75 kA</p> <p>50 kA</p> <p>20 kA</p>

- at 690 V / rated value

15 kA

## Connections

Arrangement of electrical connectors / for main current circuit	front side
Type of connectable conductor cross-sections / for main contacts	
<ul style="list-style-type: none"> <li>• with flexible busbar</li> </ul>	25 x 10
<ul style="list-style-type: none"> <li>• solid</li> </ul>	50 ... 300 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• finely stranded / with core end processing</li> </ul>	50 ... 240 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• stranded</li> </ul>	50 ... 300 mm <sup>2</sup>
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	183.5 mm
Depth	163.5 mm
Mounting type	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

## Certificates

certificate of suitability	IEC, very high switching capacity (L)
<ul style="list-style-type: none"> <li>• reference code / acc. to DIN EN 61346-2</li> </ul>	Q

General Product Approval		EMC	Declaration of Conformity	Test Certificates
 CCC	<a href="#">Miscellaneous</a>	<a href="#">KC</a>	 C-Tick	 EG-Konf.
				<a href="#">Special Test Certificate</a>

Shipping Approval					
 ABS	 BUREAU VERITAS	 LRS	 PRS	 RINA	 RMRS

other					
<a href="#">Environmental Conformations</a>	<a href="#">Confirmation</a>	<a href="#">Miscellaneous</a>	<a href="#">Manufacturer Declaration</a>		

### 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=3VL4720-3EJ46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4720-3EJ46-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL4720-3EJ46-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4720-3EJ46-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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