

CIRCUIT-BREAKER VL 630H HIGH BREAKING CAPACITY  
 ICU=70KA / 415 V AC 3 POLE, LINE PROTECTION  
 OVERCURRENT RELEASE TM, LI IN=630A, RATED CURRENT  
 IR=500-630A, OVERLOAD II=3250-6500A, SHORT CIRCUIT

Model	
Design of the operating mechanism	toggle handle
Type of the driving mechanism / motor drive	Yes
Design of the overcurrent release	TM
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
Equipment marking / 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 <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
Protection class	
Protection class IP	IP20
Protective function of the overcurrent release	LI
Electricity	
Continuous current / rated value	630 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	630 A
• of instantaneous short-circuit trip unit / initial value	3 150 A
• of instantaneous short-circuit trip unit / Full-scale value	6 300 A

Main circuit	
<b>Operating frequency</b>	
<ul style="list-style-type: none"> <li>• 1 / rated value</li> <li>• 2 / rated value</li> </ul>	50 Hz 60 Hz
<b>Operating voltage</b>	
<ul style="list-style-type: none"> <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 690 V
<b>Operating current</b>	
<ul style="list-style-type: none"> <li>• at 40 °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 630 A 585.9 A 585.9 A 541.8 A 541.8 A
Suitability	
<b>Suitability for use</b>	system protection
Adjustable parameters	
<b>Adjustable pick-up value current / of the current-dependent overload release / initial value</b>	504 A
Product details	
<b>Product component</b>	
<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>	Yes Yes No No No
Product extension / optional / motor drive	No
Product function	
<b>Product function</b>	
<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>	adjustable No No Yes
Short circuit	
<b>Operational short-circuit current breaking capacity (Ics)</b>	
<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> </ul>	75 kA

• at 415 V / rated value	70 kA
• at 500 V / rated value	30 kA
• at 690 V / rated value	10 kA
<b>Maximum short-circuit current breaking capacity (Icu)</b>	
• at 240 V / rated value	100 kA
• at 415 V / rated value	70 kA
• at 440 V / rated value	50 kA
• at 480 V / acc. to NEMA / rated value	50 kA
• at 500 V / rated value	40 kA
• at 600 V / acc. to NEMA / rated value	30 kA
• at 690 V / rated value	20 kA

### Connections

Arrangement of electrical connectors / for main current circuit	front side
Type of electrical connection / for main current circuit	screw-type terminals

### Mechanical Design




<b>Height</b>	279.5 mm
<b>Width</b>	190 mm
<b>Depth</b>	138.5 mm
<b>Mounting type</b>	fixed mounting






### Environmental conditions

<b>Ambient temperature</b>	
• during operation / minimum	0 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C

### Certificates

<b>Certificate of suitability</b>	IEC, high switching capacity (H)
<b>Equipment marking</b>	
• acc. to DIN EN 61346-2	Q

General Product Approval		EMC	Declaration of Conformity	Test Certificates
 CCC	<a href="#">sonstig</a>	<a href="#">TSE</a>	 C-Tick	 EG-Konf.
				<a href="#">spezielle Prüfbescheinigung</a> <a href="#">n</a>

Shipping Approval					other
 BUREAU VERITAS	 LRS	 PRS	 RINA	 RMRS	<a href="#">sonstig</a>

other
<a href="#">Umweltbestätigung</a> <a href="#">Bestätigungen</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=3VL5763-2DC36-0AE1-Z M11>

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

<http://support.automation.siemens.com/WW/view/en/3VL5763-2DC36-0AE1-Z M11/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL5763-2DC36-0AE1-Z M11](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5763-2DC36-0AE1-Z M11)

**CAX-Online-Generator**

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

**Tender specifications**

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