

CIRCUIT-BREAKER VL 400H HIGH BREAKING CAPACITY
 ICU=70KA / 415 V AC 3 POLE, NON-AUTOMATIC OVERCURRENT
 RELEASE MAGNETIC IN=400A, RATED CURRENT II=4000A,
 SHORT CIRCUIT

Model

Design of the operating mechanism	toggle handle
Type of the driving mechanism / motor drive	Yes
Design of the overcurrent release	M

General technical data

Number of poles	3
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
Equipment marking / 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 Ue / 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	I

Electricity

Continuous current / rated value	400 A
Derating temperature / for the rated value of the continuous current	50 °C
Adjustable pick-up value current	
• of instantaneous short-circuit trip unit / initial value	4 000 A
• of instantaneous short-circuit trip unit / Full-scale value	4 000 A

Main circuit

Operating frequency	
<ul style="list-style-type: none"> • 1 / rated value • 2 / rated value 	<p>50 Hz</p> <p>60 Hz</p>
Operating voltage	
<ul style="list-style-type: none"> • for main current circuit / at AC / at 50 Hz / maximum • for main current circuit / at AC / at 60 Hz / maximum • for main current circuit / at DC / maximum 	<p>690 V</p> <p>690 V</p> <p>500 V</p>
Operating current	
<ul style="list-style-type: none"> • at 40 °C / rated value • at 50 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at 65 °C / rated value • at 70 °C / rated value 	<p>400 A</p> <p>400 A</p> <p>372 A</p> <p>372 A</p> <p>344 A</p> <p>344 A</p>

Suitability

Suitability for use	non-automatic circuit-breakers
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Product details

Product component	
<ul style="list-style-type: none"> • Trip indicator • Auxiliary switch • Voltage trigger • undervoltage release • undervoltage release with leading contact 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p>
Product extension / optional / motor drive	No

Product function

Product function	
<ul style="list-style-type: none"> • of thermal overload trip unit • Ground fault protection • for neutral conductors / Short-circuit and overload proof • Overload protection 	<p>without</p> <p>No</p> <p>No</p> <p>No</p>

Short circuit

Operational short-circuit current breaking capacity (Ics)	
<ul style="list-style-type: none"> • at 240 V / rated value • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value 	<p>75 kA</p> <p>70 kA</p> <p>30 kA</p> <p>8 kA</p>
Maximum short-circuit current breaking capacity (Icu)	

• 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	20 kA
• at 690 V / rated value	15 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

Height	279.5 mm
Width	139 mm
Depth	163.5 mm
Mounting type	fixed mounting

Environmental conditions

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

Certificates

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

General Product Approval	EMC
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Declaration of Conformity	Test Certificates	Shipping Approval
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Shipping Approval	other
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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VL4740-2DE36-8QD1-Z L12+M22>

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

<http://support.automation.siemens.com/WW/view/en/3VL4740-2DE36-8QD1-Z L12+M22/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL4740-2DE36-8QD1-Z L12+M22

CAX-Online-Generator

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

Tender specifications

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