



CIRCUIT-BREAKER VL 400H HIGH BREAKING CAPACITY ICU=70KA / 415 V AC 3 POLE, LINE PROTECTION OVERCURRENT RELEASE TM, LI IN=400A, RATED CURRENT IR=320-400A, OVERLOAD II=2000-4000A, SHORT CIRCUIT

Model		
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		TM
General technical data		
Number of poles		3
Tripping characteristics / Upper tolerance band		AK_VL250_TM_I_u.txt
Tripping characteristics / Lower tolerance band		AK_VL160x_TM_I_o.txt
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	1/s	120
Voltage		
Rated operational voltage Ue / max.	V	690
Insulation voltage		

• Rated value	V	800
• at AC / Rated value	V	800
Surge voltage resistance / Rated value	kV	8

### Protection class

<b>Protection class IP</b>		IP20
<b>Protective function of the overcurrent release</b>		LI

### Electricity

Continuous current / Rated value	A	400
Derating temperature / for the rated value of the continuous current	°C	50
<b>Adjustable response value current</b>		
• of the current-dependent overload release / Full-scale value	A	400
• of the instantaneous short-circuit release / initial value	A	2 000
• of the instantaneous short-circuit release / Full-scale value	A	4 000

### Main circuit

<b>Operating frequency</b>		
• 1 / Rated value	Hz	50
• 2 / Rated value	Hz	60
<b>Operating voltage</b>		
• for main current circuit / at AC / at 50 Hz / maximum	V	690
• for main current circuit / at AC / at 60 Hz / maximum	V	690
• for main current circuit / at DC / maximum	V	500
<b>Operating current</b>		
• at 40 °C / Rated value	A	400
• at 50 °C / Rated value	A	400
• at 55 °C / Rated value	A	372
• at 60 °C / Rated value	A	372
• at 65 °C / Rated value	A	344
• at 70 °C / Rated value	A	344

### Auxiliary circuit

Number of CO contacts / for auxiliary contacts		0
<b>Number of NC contacts / for auxiliary contacts</b>		0
<b>Number of NO contacts / for auxiliary contacts</b>		0

### Suitability

<b>Suitability for use</b>		system protection
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### Adjustable parameters

Adjustable response value current / of the current-dependent overload release / initial value	A	320
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### Product details

<b>Product component</b>		
• Trip indicator		No
• Auxiliary switch		No
• Voltage trigger		No
• undervoltage release		No
• undervoltage release with leading contact		No
Product expansion / optional / motor drive		Yes

### Product function

<b>Product function</b>		
• of the thermal overload release		adjustable
• Ground fault protection		No
• for neutral conductors / Short-circuit and overload proof		No
• overload protection		Yes

### Short circuit

<b>Operational short-circuit current breaking capacity (Ics)</b>		
• at 240 V / Rated value	kA	75
• at 415 V / Rated value	kA	70
• at 500 V / Rated value	kA	30
• at 690 V / Rated value	kA	8
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
• at 240 V / Rated value	kA	100
• at 415 V / Rated value	kA	70
• at 440 V / Rated value	kA	50
• at 480 V / acc. to NEMA / Rated value	kA	50
• at 500 V / Rated value	kA	40
• at 600 V / acc. to NEMA / Rated value	kA	20
• at 690 V / Rated value	kA	15

### Connections

Arrangement of electrical connectors / for main current circuit		front side
Type of connectable conductor cross-section		
• for main contacts		
— with flexible busbar		25 x 10
— solid		50 ... 300 mm <sup>2</sup>
— finely stranded / with core end processing		50 ... 240 mm <sup>2</sup>
— stranded		50 ... 300 mm <sup>2</sup>

<ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded / with core end processing</li> </ul> </li> </ul>	0.75 ... 1.5 mm <sup>2</sup> 0,75 ... 1.0 mm <sup>2</sup>
Type of electrical connection / for main current circuit	screw-type terminals

### Mechanical Design

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

### Environmental conditions

<b>Ambient temperature</b>		
<ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul>	°C	0 70 -40 80

### Certificates

Certificate of suitability		IEC, high switching capacity (H)
Equipment marking		Q
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>		

### General Product Approval EMC



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### Declaration of Conformity Test Certificates Shipping Approval



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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/3VL47402DC360AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL47402DC360AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL47402DC360AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL47402DC360AA0)

**CAX-Online-Generator**

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

**Tender specifications**

<http://ausschreibungstexte.siemens.com/tiplv>

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