

CIRCUIT-BREAKER VL 400H WITHOUT ELECTRONIC TRIP UNIT
HIGH BREAKING CAPACITY ICU= 70 KA / 415 V AC, 4-POLE IN=
< 400 A, RATED CURRENT WITHOUT AUXILIARY RELEASE
WITH SCREW CONNECTIONS FOR CONTACT UNIT AND
OVERVOLTAGE RELEASE

Model	
Type of the driving mechanism / motor drive	No
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
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 U _e / 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
Electricity	
Operating current / at 45 °C / rated value	400 A
Continuous current / rated value	400 A
Derating temperature / for the rated value of the continuous current	50 °C
• acc. to UL 489	40 °C
Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
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
Operating current	
• at 40 °C / rated value	400 A
• at 50 °C / rated value	400 A
• at 55 °C / rated value	372 A
• at 60 °C / rated value	372 A

• at 65 °C / rated value	344 A
• at 70 °C / rated value	344 A

Product details

Product component

• Trip indicator	No
• Auxiliary switch	No
• Voltage trigger	No
• undervoltage release	No
• undervoltage release with leading contact	No

Product extension / optional / motor drive	Yes
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Product function

Product function

• of thermal overload trip unit	without
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	No
• Overload protection	No

Short circuit

Operational short-circuit current breaking capacity (Ics)

• at 240 V / rated value	75 kA
• at 415 V / rated value	70 kA
• at 500 V / rated value	30 kA
• at 690 V / rated value	8 kA

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	183.5 mm
Depth	163.5 mm

Mounting type	fixed mounting
Environmental conditions	
Ambient temperature	
• during operation / minimum	-25 °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	Declaration of Conformity	Test Certificates	Shipping Approval
 CCC	 C-Tick	 EG-Konf.	Special Test Certificate	 ABS
Miscellaneous				

Shipping Approval	other
 BUREAU VERITAS	 PRR
 RINA	 RMRS
	Confirmation
	Miscellaneous

other
Environmental Confirmations

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=3VL4740-2AA46-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VL4740-2AA46-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4740-2AA46-0AA0
CAX-Online-Generator http://www.siemens.com/cax
Tender specifications http://www.siemens.com/specifications

