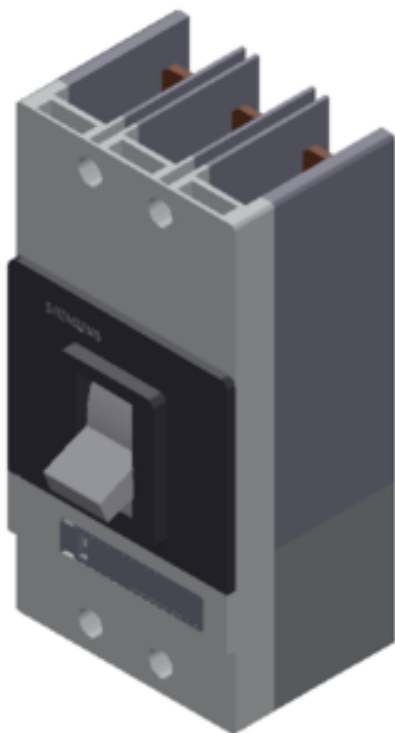




CIRCUIT-BREAKER VL 400L VERY HIGH BREAKING CAPACITY R.U.S.-C.BR.C.= 100 KA, 415V AC 3-POLE, MOTOR PROTECTION ELECTRONIC TRIP UNIT ETU30M, LI IN=315A, RATED CURRENT TC= 10A ... 30, TIME LAG CLASS II= 6 ... 11 X IN, SHORT-CIRCUIT PROTECTION

Model		
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		ETU30M
General technical data		
Number of poles		3
Tripping characteristics / Upper tolerance band		AK_VL_ETU30M_LI_u.txt
Tripping characteristics / Lower tolerance band		AK_VL_ETU42_LSIGN_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

Protection class IP		IP20
Protective function of the overcurrent release		LI

Dissipation

Active power loss		
• maximum	W	60

Electricity

Continuous current / Rated value	A	315
Derating temperature / for the rated value of the continuous current	°C	50
Adjustable response value current		
• of the current-dependent overload release / Full-scale value	A	315
• of the instantaneous short-circuit release / initial value	A	1 890
• of the instantaneous short-circuit release / Full-scale value	A	3 465

Main circuit

Operating frequency		
• 1 / Rated value	Hz	50
• 2 / Rated value	Hz	60
Operating power / at AC-3		
• at 230 V / Rated value	kW	57.9
• at 400 V / Rated value	kW	174.6
Operating voltage		
• 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
Operating current		
• at 40 °C / Rated value	A	315
• at 50 °C / Rated value	A	315
• at 55 °C / Rated value	A	299.3
• at 60 °C / Rated value	A	299.3
• at 65 °C / Rated value	A	252
• at 70 °C / Rated value	A	252

Auxiliary circuit

Number of CO contacts / for auxiliary contacts		0
Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		1

Suitability

Suitability for use		Motor Protection
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Adjustable parameters

Adjustable response value current / of the current-dependent overload release / initial value	A	126
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Product details

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

Product function

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

Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 500 V / Rated value • at 690 V / Rated value	kA kA kA kA	150 75 38 8
Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 480 V / acc. to NEMA / Rated value • at 500 V / Rated value • at 600 V / acc. to NEMA / Rated value • at 690 V / Rated value	kA kA kA kA kA kA kA	200 100 75 75 50 20 15

Connections

Arrangement of electrical connectors / for main current circuit		front side
Type of connectable conductor cross-section		
• for main contacts — with flexible busbar — solid — finely stranded / with core end processing — stranded • for auxiliary contacts — solid — finely stranded / with core end processing		25 x 10 50 ... 300 mm ² 50 ... 240 mm ² 50 ... 300 mm ² 0.75 ... 1.5 mm ² 0,75 ... 1.0 mm ²
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

Ambient temperature		
• during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum	°C °C °C °C	-25 70 -40 80

Certificates

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

General Product Approval				EMC	Declaration of Conformity
 CCC	 CSA	sonstig	 EAC	 C-TICK	 EG-Konf.

Test Certificates	Shipping Approval				other
spezielle Prüfbescheinigung n	 DNV	 GL	 RINA	 RMRS	Umweltbestätigung

other	
sonstig	Bestätigungen

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/3VL47313SS360AB1>

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

<http://support.automation.siemens.com/WW/view/en/3VL47313SS360AB1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL47313SS360AB1

CAX-Online-Generator

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

Tender specifications

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

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