



CIRCUIT-BREAKER VL 800H HIGH BREAKING
CAPACITY ICU=70KA / 415 V AC 3 POLE, LINE
PROTECTION ELECTRONIC TRIP UNIT ETU20, LSI
IN=800A, RATED CURRENT IR=320-800A,
OVERLOAD ISD=1,5TO7XIR, II=8XIN SHORT-
CIRCUIT

Model		
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		ETU20
General technical data		
Number of poles		3
Tripping characteristics / Upper tolerance band		AK_VL_ETU12_LIG_u.txt
Tripping characteristics / Lower tolerance band		AK_VL_ETU22_LSIGN_o.txt
Size of the circuit-breaker		3VL6
Electrical endurance (switching cycles) / typical		3 000
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	1/s	60
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		LSI

Dissipation

Active power loss		
• maximum	W	250

Electricity

Continuous current / Rated value	A	800
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	800
• of the instantaneous short-circuit release / initial value	A	6 400
• of the instantaneous short-circuit release / Full-scale value	A	6 400

Main circuit

Operating frequency		
• 1 / Rated value	Hz	50
• 2 / Rated value	Hz	60
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
Operating current		
• at 40 °C / Rated value	A	800
• at 50 °C / Rated value	A	800
• at 55 °C / Rated value	A	760
• at 60 °C / Rated value	A	760
• at 65 °C / Rated value	A	640
• at 70 °C / Rated value	A	640

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		2

Suitability

Suitability for use		system/generator protection
Adjustable parameters		
Adjustable response value current / of the current-dependent overload release / initial value	A	320
Product details		
Product component • Trip indicator • Auxiliary switch • Voltage trigger • undervoltage release • undervoltage release with leading contact		Yes 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
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	75 70 30 10
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	100 70 50 50 40 30 20
Connections		
Arrangement of electrical connectors / for main current circuit		front side
Type of connectable conductor cross-section • for auxiliary contacts — solid		0.75 ... 1.5 mm²

— finely stranded / with core end processing		0,75 ... 1.0 mm ²
Type of electrical connection / for main current circuit		screw-type terminals

Mechanical Design		
Height	mm	406.5
Width	mm	190
Depth	mm	176.5
Mounting type		fixed mounting

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

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

General Product Approval		EMC
 CCC	 CSA	 EAC

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Declaration of Conformity	Test Certificates	Shipping Approval			
 EG-Konf.	spezielle Prüfbescheinigungen n	 DNV	 GL	 RINA	 RMRS

other		
sonstig	Umweltbestätigung	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/3VL67802SE360AE1

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

<http://support.automation.siemens.com/WW/view/en/3VL67802SE360AE1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL67802SE360AE1

CAX-Online-Generator

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

Tender specifications

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

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