



CIRCUIT-BREAKER VL 800N STANDARD BREAKING CAPACITY ICU=55KA / 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
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 $U_e$ / max.	V	690
Insulation voltage		
• Rated value	V	800
• at AC / Rated value	V	800

Surge voltage resistance / Rated value	kV	8
<b>Protection class</b>		
<b>Protection class IP</b>		IP20
<b>Protective function of the overcurrent release</b>		LSI
<b>Dissipation</b>		
<b>Active power loss</b>		
• maximum	W	250
<b>Electricity</b>		
Continuous current / Rated value	A	800
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	800
• of the instantaneous short-circuit release / initial value	A	6 400
• of the instantaneous short-circuit release / Full-scale value	A	6 400
<b>Main circuit</b>		
<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
<b>Operating current</b>		
• 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
<b>Auxiliary circuit</b>		
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
<b>Suitability</b>		
<b>Suitability for use</b>		system/generator protection

## Adjustable parameters

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

### Product component

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

Product expansion / optional / motor drive	Yes
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## Product function

### Product function

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

## Short circuit

### Operational short-circuit current breaking capacity (Ics)

• at 240 V / Rated value	kA	65
• at 415 V / Rated value	kA	55
• at 500 V / Rated value	kA	20
• at 690 V / Rated value	kA	10

### Maximum short-circuit current breaking capacity (Icu)

• at 240 V / Rated value	kA	65
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	35
• at 480 V / acc. to NEMA / Rated value	kA	25
• at 500 V / Rated value	kA	25
• at 600 V / acc. to NEMA / Rated value	kA	20
• at 690 V / Rated value	kA	20

## Connections

Arrangement of electrical connectors / for main current circuit	front side
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### Type of connectable conductor cross-section

• for auxiliary contacts	
— solid	0.75 ... 1.5 mm <sup>2</sup>
— finely stranded / with core end processing	0,75 ... 1.0 mm <sup>2</sup>

Type of electrical connection / for main current circuit	screw-type terminals
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Mechanical Design		
Height	mm	406.5
Width	mm	190
Depth	mm	176.5
Mounting type		fixed mounting

Environmental conditions		
<b>Ambient temperature</b>		
• 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, standard switching capacity (N)
Equipment marking		Q
• acc. to DIN EN 61346-2		

General Product Approval	EMC
 CCC  CSA <a href="#">sonstig</a>	 EAC <a href="#">TSE</a>  C-TICK

Declaration of Conformity	Test Certificates	Shipping Approval			
 EG-Konf.	<a href="#">spezielle Prüfbescheinigung</a> <a href="#">n</a>	 DNV	 GL	 RINA	 RMRS

other
<a href="#">sonstig</a> <a href="#">Umweltbestätigung</a> <a href="#">Bestätigungen</a>

Further information
<b>Information- and Downloadcenter (Catalogs, Brochures,...)</b> <a href="http://www.siemens.com/lowvoltage/catalogs">http://www.siemens.com/lowvoltage/catalogs</a>
<b>Industry Mall (Online ordering system)</b> <a href="https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VL67801SE360AA0">https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VL67801SE360AA0</a>
<b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b> <a href="http://support.automation.siemens.com/WW/view/en/3VL67801SE360AA0/all">http://support.automation.siemens.com/WW/view/en/3VL67801SE360AA0/all</a>
<b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b> <a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL67801SE360AA0">http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL67801SE360AA0</a>

**CAX-Online-Generator**  
<http://www.siemens.com/cax>

**Tender specifications**  
<http://ausschreibungstexte.siemens.com/tiplv>

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