

CIRCUIT-BREAKER VL 800H HIGH BREAKING CAPACITY  
 ICU=70KA / 415 V AC 3 POLE, LINE PROTECTION ELECTRONIC  
 TRIP UNIT ETU10, LI IN=800A, RATED CURRENT IR=320-800A,  
 OVERLOAD II=1,25TO8XIN, SHORT-CIRCUIT

Model	
Design of the operating mechanism	toggle handle
Type of the driving mechanism / motor drive	Yes
Design of the overcurrent release	ETU10
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	60 1/s
Voltage	
Rated operational voltage Ue / 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
Protective function of the overcurrent release	LI
Dissipation	
Power loss [W]	
• maximum	250 W
Electricity	
Continuous current / rated value	800 A
Derating temperature / for the rated value of the continuous current	50 °C
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	800 A

• of instantaneous short-circuit trip unit / initial value	1 000 A
• of instantaneous short-circuit trip unit / Full-scale value	6 400 A

### Main circuit

#### Operating frequency

• 1 / rated value	50 Hz
• 2 / rated value	60 Hz

#### Operating voltage

• 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	800 A
• at 50 °C / rated value	800 A
• at 55 °C / rated value	760 A
• at 60 °C / rated value	760 A
• at 65 °C / rated value	640 A
• at 70 °C / rated value	640 A

### Suitability

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

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

#### Product component

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

Product extension / optional / motor drive	No
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### Product function

#### Product function

• of thermal overload trip unit	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	75 kA
• at 415 V / rated value	70 kA
• at 500 V / rated value	30 kA
• at 690 V / rated value	10 kA
<b>Maximum short-circuit current breaking capacity (Icu)</b>	
• 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	30 kA
• at 690 V / rated value	20 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





<b>Height</b>	406.5 mm
<b>Width</b>	190 mm
<b>Depth</b>	176.5 mm
<b>Mounting type</b>	fixed mounting



## Environmental conditions

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

## Certificates

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

General Product Approval				EMC	Declaration of Conformity
 CCC	 CSA	<a href="#">sonstig</a>	<a href="#">TSE</a>	 C-Tick	 EG-Konf.

Test Certificates	Shipping Approval		other		
<a href="#">spezielle Prüfbescheinigung</a> <a href="#">n</a>	 RINA	 RMRS	<a href="#">sonstig</a>	<a href="#">Bestätigungen</a>	<a href="#">Umweltbestätigung</a>

#### 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=3VL6780-2SB36-0AE1-Z M11>

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

<http://support.automation.siemens.com/WW/view/en/3VL6780-2SB36-0AE1-Z M11/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL6780-2SB36-0AE1-Z M11](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6780-2SB36-0AE1-Z M11)

##### CAX-Online-Generator

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

##### Tender specifications

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