

CIRCUIT-BREAKER VL 630H HIGH BREAKING CAPACITY
ICU=70KA / 415 V AC 3 POLE, LINE PROTECTION ELECTRONIC
TRIP UNIT ETU22, LSIG 3PHASES/3WIRES IN=630A, RATED
CURRENT IR=252-630A, OVERLOAD ISD=1,5TO9XIR, II=10XIN
SHORT-CIRCUIT

Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	ETU22
General technical data	
Number of poles	3
Size of the circuit-breaker	3VL5
Electrical endurance (switching cycles) / typical	5 000
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 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
Protective function of the overcurrent release	LSIG
Dissipation	
Power loss [W]	
• maximum	160 W
Electricity	
Operating current / at 45 °C / rated value	630 A
Continuous current / rated value	630 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	630 A
• of instantaneous short-circuit trip unit / initial value	6 300 A
• of instantaneous short-circuit trip unit / Full-scale value	6 300 A

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	630 A
• at 50 °C / rated value	630 A
• at 55 °C / rated value	598.5 A
• at 60 °C / rated value	598.5 A
• at 65 °C / rated value	504 A
• at 70 °C / rated value	504 A

Suitability

Suitability for use	system/generator protection
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Adjustable parameters

Adjustable pick-up value current / of the short-time delayed short-circuit release / Full-scale value	5 670 A
Adjustable pick-up value current / of the current-dependent overload release / initial value	252 A

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	Yes
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Product function

Product function

• of thermal overload trip unit	adjustable
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- Ground fault protection
- for neutral conductors / Short-circuit and overload proof
- Overload protection

Yes
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

75 kA
70 kA
30 kA
10 kA

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

100 kA
70 kA
50 kA
50 kA
40 kA
30 kA
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

Height

279.5 mm

Width

190 mm

Depth

138.5 mm

Mounting type

fixed mounting

Environmental conditions

Ambient temperature

- during operation / minimum
- during operation / maximum
- during storage / minimum
- during storage / maximum

-25 °C
70 °C
-40 °C
80 °C

Certificates

Certificate of suitability

IEC, high switching capacity (H)

Equipment marking

- acc. to DIN EN 61346-2

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General Product Approval		EMC	Declaration of Conformity	Test Certificates
	Miscellaneous			Special Test Certificate
CCC		C-Tick	EG-Konf.	

Shipping Approval		other		
		Environmental Confirmations	Confirmation	Miscellaneous
RINA	RMRS			

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=3VL5763-2SG36-0AE1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL5763-2SG36-0AE1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5763-2SG36-0AE1

CAX-Online-Generator

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

Tender specifications

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