

CIRCUIT BREAKER 3VT4 HIGH BREAKING CAPACITY ICU=65KA, 415V AC 3-POLE; CIRCUIT BREAKER W/O OVERCURRENT RELEASE W/O AUXILIARY TRIP UNIT W/O AUXILIARY/ALARM SWITCH



Model	
product brandname	SENTRON
Product designation	3VT1_5 molded case circuit breakers
Design of the operating mechanism	toggle handle
Type of the driving mechanism / motor drive	No
General technical data	
Number of poles	3
Size of the circuit-breaker	3VT4
Electrical endurance (switching cycles) / typical	4 000
Usage category	A
Performance class for circuit breaker	H
Mechanical service life (switching cycles) / typical	10 000
Operating frequency / maximum	120 1/h
Voltage	
Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	8 kV
Protection class	
Protection class IP	IP40

Dissipation

Power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	33.3 W
• maximum	100 W

Electricity

Continuous current / rated value	1 000 A
Derating temperature / for the rated value of the continuous current	50 °C

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
• for main current circuit / at DC / maximum	440 V
Operating current	
• at 40 °C / rated value	1 000 A
• at 50 °C / rated value	1 000 A
• at 55 °C / rated value	1 000 A
• at 60 °C / rated value	1 000 A
• at 65 °C / rated value	980 A
• at 70 °C / rated value	980 A

Suitability

Suitability for use	Contact unit without release
• Disconnecting means	Yes

Product details

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

Product function

Product function	
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• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	No
• Phase failure detection	No
• Overload protection	No

Short circuit

Operational short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	45 kA
• at 415 V / rated value	36 kA
• at 500 V / rated value	30 kA
• at 690 V / rated value	20 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	85 kA
• at 415 V / rated value	65 kA
• at 500 V / rated value	45 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	without connection accessoires

Mechanical Design

Height	494 mm
Width	210 mm
Depth	157 mm
Mounting position	with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
Mounting type	fixed mounting
Net weight	19.082 kg

Environmental conditions

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

Certificates

Equipment marking	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

General Product Approval	Declaration of Conformity	Test Certificates	other
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EG-Konf.

[Typprüfbescheinigung/Werkszeugnis](#)

[sonstig](#)

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=3VT4710-3AA30-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VT4710-3AA30-0AA0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT4710-3AA30-0AA0

CAX-Online-Generator

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

Tender specifications

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



