

CIRCUIT BREAKER 3VT5 HIGH BREAKING CAPACITY ICU=55KA,
415V AC 3-POLE; CIRCUIT BREAKER W/O OVERCURRENT
RELEASE WITHOUT AUXILIARY RELEASE WITHOUT
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	3VT5
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	40 W
• maximum	120 W
Electricity	
Continuous current / rated value	1 600 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	1 600 A
• at 50 °C / rated value	1 600 A
• at 55 °C / rated value	1 460 A
• at 60 °C / rated value	1 460 A
• at 65 °C / rated value	1 320 A
• at 70 °C / rated value	1 320 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	

- Ground fault protection
- for neutral conductors / Short-circuit and overload proof
- Phase failure detection
- Overload protection

No
No
No
No

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

45 kA
36 kA
30 kA
20 kA

Maximum short-circuit current breaking capacity (Icu)

- at 240 V / rated value
- at 415 V / rated value
- at 500 V / rated value
- at 690 V / rated value

85 kA
55 kA
45 kA
20 kA

Connections

Arrangement of electrical connectors / for main current circuit

front side

Type of electrical connection / for main current circuit

busbar connection

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

22.96 kg

Environmental conditions

Ambient temperature

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

-40 °C
70 °C
-40 °C
70 °C

Certificates

Equipment marking

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

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General Product Approval	Declaration of Conformity	Test Certificates	other	
 CCC		 EG-Konf.	Typprüfbescheinigung/Werkszeugnis	Umweltbestätigung sonstig

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/3VT5716-3AA30-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VT5716-3AA30-0AA0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT5716-3AA30-0AA0

CAX-Online-Generator

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

Tender specifications

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



