



CIRCUIT BREAKER 3VT5 HIGH BREAKING CAPACITY ICU=55KA, 415V AC 3-POLE; CIRCUIT BREAKER W/O OVERCURRENT RELEASE W/O AUXILIARY TRIP UNIT W/O AUXILIARY/ALARM SWITCH WITHDRAWABLE VERSION

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	1/h	120
Voltage		
Insulation voltage / rated value	V	690
Surge voltage resistance / rated value	kV	8
Protection class		
Protection class IP		IP40

## Dissipation

### Power loss [W]

• for rated value of the current / at AC / in hot operating state / per pole	W	40
• maximum	W	120

## Electricity

Continuous current / rated value	A	1 600
Derating temperature / for the rated value of the continuous current	°C	50

## Main circuit

### Operating frequency

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

### Operating voltage

• rated value / maximum	V	690
• for main current circuit / at AC / at 50 Hz / maximum	V	690
• for main current circuit / at AC / at 60 Hz / maximum	V	690
• for main current circuit / at DC / maximum	V	440

### Operating current

• at 40 °C / rated value	A	1 600
• at 50 °C / rated value	A	1 600
• at 55 °C / rated value	A	1 460
• at 60 °C / rated value	A	1 460
• at 65 °C / rated value	A	1 320
• at 70 °C / rated value	A	1 320

## Auxiliary circuit

Number of CO contacts / for auxiliary contacts		0
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0

## Suitability

### Suitability for use

• Disconnecting means	Contact unit without release
	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

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

### Short circuit

<b>Operational short-circuit current breaking capacity (Ics)</b>		
• at 240 V / rated value	kA	45
• at 415 V / rated value	kA	36
• at 500 V / rated value	kA	30
• at 690 V / rated value	kA	20
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
• at 240 V / rated value	kA	85
• at 415 V / rated value	kA	55
• at 500 V / rated value	kA	45
• at 690 V / rated value	kA	20

### Connections

Arrangement of electrical connectors / for main current circuit		front side
Type of electrical connection / for main current circuit		busbar connection

### Mechanical Design

<b>Height</b>	mm	494
<b>Width</b>	mm	210
<b>Depth</b>	mm	157
<b>Mounting position</b>		with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
<b>Mounting type</b>		drawer unit
<b>Net weight</b>	kg	23

### Environmental conditions

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

### Certificates

**Equipment marking**

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

Q  
Q

General Product Approval	Declaration of Conformity	Test Certificates	other
--------------------------	---------------------------	-------------------	-------



[Typrüfbescheinigung/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/3VT5716-3AA38-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VT5716-3AA38-0AA0/all>

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

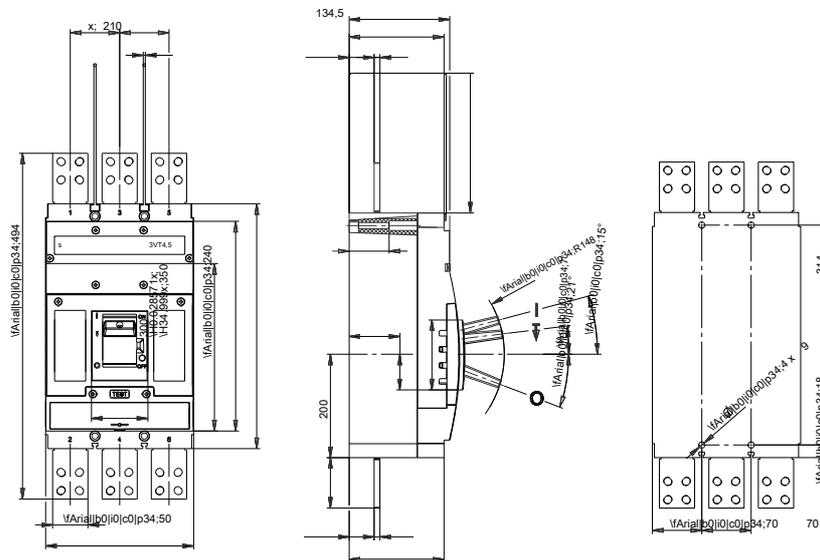
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VT5716-3AA38-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT5716-3AA38-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

<http://ausschreibungstexte.siemens.com/tiplv>



**last modified:**

10/14/2016