



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	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		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		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	kA	45
• at 415 V / rated value	kA	36
• at 500 V / rated value	kA	30
• at 690 V / rated value	kA	20
Maximum short-circuit current breaking capacity (Icu)		
• 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		
Height	mm	494
Width	mm	210
Depth	mm	157
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	kg	22.96
Environmental conditions		
Ambient temperature		
• 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		Q
• acc. to DIN EN 81346-2		Q

- Q
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General Product Approval	Declaration of Conformity	Test Certificates	other
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Further information

<http://www.siemens.com/lowvoltage/catalogs>

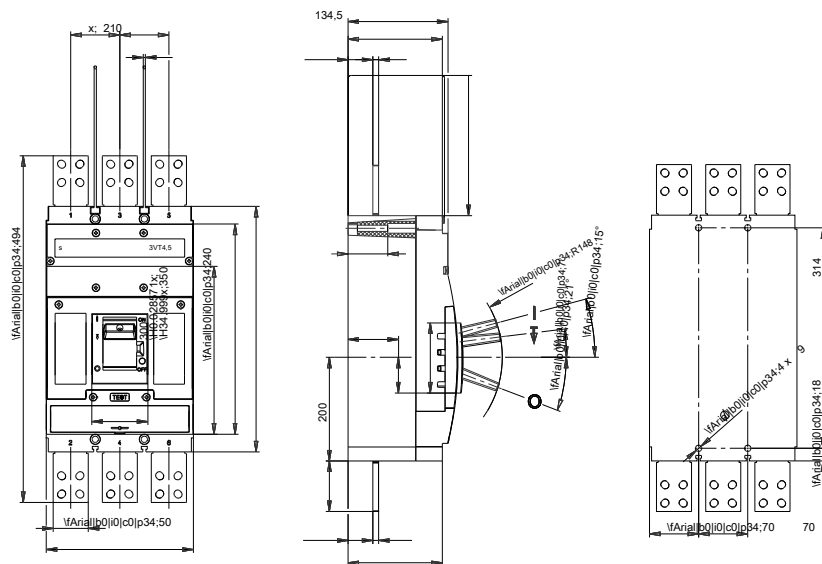
<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VT5716-3AA30-0AA0>

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

Image database (product images, 2D dimension drawings, 3D models, etc.)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT5716-3AA30-0AA0

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

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



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