

CIRCUIT BREAKER 3VT3 HIGH BREAKING CAPACITY ICU=65KA, 415V AC 4-POLE; CIRCUIT BREAKER W/O OVERCURRENT RELEASE N SWITCHED 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		4
Size of the circuit-breaker		3VT3
Electrical endurance (switching cycles) / typical		5 000
Usage category		A
Performance class for circuit breaker		H
Mechanical service life (switching cycles) / typical		20 000
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		
<b>Power loss [W]</b>		
<ul style="list-style-type: none"> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	W	25
<ul style="list-style-type: none"> <li>maximum</li> </ul>	W	75
Electricity		
Continuous current / rated value	A	630
Derating temperature / for the rated value of the continuous current	°C	55
Main circuit		
<b>Operating frequency</b>		
<ul style="list-style-type: none"> <li>1 / rated value</li> </ul>	Hz	50
<ul style="list-style-type: none"> <li>2 / rated value</li> </ul>	Hz	60

<b>Operating voltage</b>		
• 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
<b>Operating current</b>		
• at 40 °C / rated value	A	630
• at 50 °C / rated value	A	630
• at 55 °C / rated value	A	600
• at 60 °C / rated value	A	600
• at 65 °C / rated value	A	540
• at 70 °C / rated value	A	540

<b>Auxiliary circuit</b>		
Number of CO contacts / for auxiliary contacts		0
<b>Number of NC contacts / for auxiliary contacts</b>		0
<b>Number of NO contacts / for auxiliary contacts</b>		0

<b>Suitability</b>		
<b>Suitability for use</b>		Contact unit without release
• Disconnecting means		Yes

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

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

<b>Short circuit</b>		
<b>Operational short-circuit current breaking capacity (Ics)</b>		
• at 240 V / rated value	kA	75
• at 415 V / rated value	kA	36

• at 500 V / rated value	kA	20
• at 690 V / rated value	kA	15
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
• at 240 V / rated value	kA	100
• at 415 V / rated value	kA	65
• at 500 V / rated value	kA	35
• 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		screw-type terminals

### Mechanical Design




<b>Height</b>	mm	275
<b>Width</b>	mm	185
<b>Depth</b>	mm	117
<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>		fixed mounting
<b>Net weight</b>	kg	7.4

### 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

<b>Equipment marking</b>		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

General Product Approval	Declaration of Conformity	Test Certificates	other	
 CCC		 EG-Konf.	<a href="#">Typprüfbescheinigung/Werkszeugnis</a>	<a href="#">sonstig</a> <a href="#">Umweltbestätigung</a>

### 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/3VT3763-3AA46-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VT3763-3AA46-0AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VT3763-3AA46-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT3763-3AA46-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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

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