



circuit breaker 3VT4 high breaking capacity I<sub>cu</sub>=65kA, 415V AC 3-pole;  
circuit breaker w/o Electronic Trip Unit without auxiliary release without  
auxiliary/alarm switch

Model	
product brand name	SENTRON
product designation	3VT1_5 molded case circuit breakers
design of the actuating element	toggle handle
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
size of the circuit-breaker	3VT4
mechanical service life (operating cycles) typical	10 000
electrical endurance (operating cycles) typical	4 000
utilization category	A
performance class for circuit breaker	H
operating frequency maximum	120 1/h
Voltage	
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
Current	
operational current	
• at 40 °C rated value	1 000 A
• at 45 °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
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
operational current rated value	1 000 A
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
<ul style="list-style-type: none"> <li>• disconnecting means</li> </ul>	Yes
Product details	
product component	
<ul style="list-style-type: none"> <li>• trip indicator</li> </ul>	No
<ul style="list-style-type: none"> <li>• auxiliary switch</li> </ul>	No
<ul style="list-style-type: none"> <li>• voltage trigger</li> </ul>	No
<ul style="list-style-type: none"> <li>• undervoltage release</li> </ul>	No
<ul style="list-style-type: none"> <li>• undervoltage release with leading contact</li> </ul>	No
product extension optional motor drive	Yes
Product function	
product function	
<ul style="list-style-type: none"> <li>• grounding protection</li> </ul>	No
<ul style="list-style-type: none"> <li>• for neutral conductors short-circuit and overload proof</li> </ul>	No
<ul style="list-style-type: none"> <li>• phase failure detection</li> </ul>	No
<ul style="list-style-type: none"> <li>• overload protection</li> </ul>	No
Short circuit	
operating short-circuit current breaking capacity (Ics)	
<ul style="list-style-type: none"> <li>• at 240 V rated value</li> </ul>	45 kA
<ul style="list-style-type: none"> <li>• at 415 V rated value</li> </ul>	36 kA
<ul style="list-style-type: none"> <li>• at 500 V rated value</li> </ul>	30 kA
<ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>	20 kA
maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> <li>• at 240 V rated value</li> </ul>	85 kA
<ul style="list-style-type: none"> <li>• at 415 V rated value</li> </ul>	65 kA
<ul style="list-style-type: none"> <li>• at 500 V rated value</li> </ul>	45 kA
<ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>	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
fastening method	fixed mounting
mounting position	with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
net weight	19.082 kg
Environmental conditions	
ambient temperature during operation	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	-40 °C
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	70 °C
ambient temperature during storage	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	-40 °C
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	70 °C
Certificates	
reference code	
<ul style="list-style-type: none"> <li>• according to EN 61346-2</li> </ul>	Q
<ul style="list-style-type: none"> <li>• according to IEC 81346-2</li> </ul>	Q

**General Product Approval**
**Declaration of Conformity**
**Test Certificates**
[Confirmation](#)

[Type Test Certificates/Test Report](#)

other

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?mfb=3VT4710-3AA30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VT4710-3AA30-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VT4710-3AA30-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VT4710-3AA30-0AA0)

CAX-Online-Generator

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

Tender specifications

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





