

CIRCUIT BREAKER 3VT2 HIGH BREAKING CAPACITY ICU=65KA,
415V AC 4-POLE; CIRCUIT BREAKER W/O OVERCURRENT
RELEASE N SWITCHED W/O AUXILIARY TRIP UNIT W/O
AUXILIARY/ALARM SWITCH 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	3VT2
Electrical endurance (switching cycles) / typical	3 000
Usage category	A
Performance class for circuit breaker	H
Mechanical service life (switching cycles) / typical	30 000
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	6 W
maximum	18 W
Electricity	
Continuous current / rated value	250 A
Derating temperature / for the rated value of the continuous current	70 °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	250 A
• at 50 °C / rated value	250 A
• at 55 °C / rated value	250 A
• at 60 °C / rated value	250 A
• at 65 °C / rated value	250 A
• at 70 °C / rated value	250 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	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	50 kA
• at 415 V / rated value	36 kA
• at 500 V / rated value	13 kA
• at 690 V / rated value	8 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	100 kA

• at 415 V / rated value	65 kA
• at 500 V / rated value	25 kA
• at 690 V / rated value	13 kA

Connections

Arrangement of electrical connectors / for main current circuit	front side
Type of electrical connection / for main current circuit	screw-type terminals

Mechanical Design

Height	225 mm
Width	140 mm
Depth	117 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	4.1 kg

Environmental conditions

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

Certificates

Equipment marking	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

General Product Approval	Declaration of Conformity	Test Certificates	other
 CCC	 EAC	 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/3VT2725-3AA46-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VT2725-3AA46-0AA0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT2725-3AA46-0AA0

CAX-Online-Generator

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

