## **SIEMENS**

Product data sheet 3VT1705-2EC46-0AA0

CIRCUIT BREAKER 3VT1 STANDARD BREAKING
CAPACITY ICU=25KA,
415V AC 4-POLE,
SYSTEM PROTECTION ELECTRONIC TRIP UNIT TM,
LI IN= 50A RATED CURRENT IR= 40... 50A OVERLOAD
PROT. II= 250... 500A,
SHORT-CIRCUIT PROTECTION N CONDUCTOR W/O
PROTECTION W/O AUXILIARY TRIP UNIT W/O
AUXILIARY/ALARM SWITCH WITHOUT AUXILIARY
RELEASE WITHOUT AUXILIARY/ALARM SWITCH

Technical data:				
Width	mm	100		
Height	mm	130		
Depth	mm	80		
Acceptability for application		system protection		
Design of the overcurrent release		TM		
Product function / ground-fault protection		No		
Continuous current / rated value	Α	50		
Operating voltage / for main current circuit				
• at 50 Hz / for AC / maximum	V	690		
• at 60 Hz / for AC / maximum	V	690		
• for DC / maximum	V	440		
Impulse voltage resistance / rated value	kV	8		
Number of poles		4		
Active power loss / maximum	W	5		
Operating cycles / maximum	1/h	120		
Operating frequency				
• 1 / rated value	Hz	50		
• 2 / rated value	Hz	60		
Breaking capacity limit short-circuit current (lcu)				
• at 240 V / rated value	kA	40		
• at 415 V / rated value	kA	25		
• at 500 V / rated value	kA	12		
• at 690 V / rated value	kA	6		
Breaking capacity operating short-circuit current (Ics)				
• at 240 V / rated value	kA	20		
• at 415 V / rated value	kA	13		

• at 500 V / rated value	kA	6
• at 690 V / rated value	kA	3
Ultimate short-circuit current making capacity (lcm) / at 415 V / rated value	kA	52
Adjustable response current / of the current-dependent overload release		
• initial value	Α	40
• final value	Α	50
Adjustable response current / of the non-delayed short-circuit release		
• initial value	Α	250
• final value	Α	500
Type of mounting		fixed mounting
Design of the electrical connection / for main current circuit		box terminals
Arrangement of electrical connectors / for main current circuit		front side
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Number of change-over switches / for auxiliary contacts		0
Product component		
• undervoltage release mechanism		No
Voltage trigger		No
<ul> <li>undervoltage release with leading contact</li> </ul>		No
Suitability for use / circuit breaker		Yes
Item designation		
according to DIN EN 61346-2		Q
Ambient temperature		
during operating		
• minimum	°C	-40
• maximum	°C	55
during storage		
• minimum	°C	-40
• maximum	°C	55
Derating temperature / for the rated value of the continuous current	°C	40
Protection class IP		IP40
Product function		
overload protection		No
• for zero conductors / short-circuit and overload protection		No
of the thermal overload release		adjustable
mounting position		with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back

Mechanical operating cycles as operating time / typical	20,000
Electrical operating cycles as operating time / typical	6,000

## Certificates/approvals:

**General Product Approval** 

other





other

## **Further information:**

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

http://www.siemens.com/lowvoltage/mall

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

http://support.automation.siemens.com/WW/view/en/3VT1705-2EC46-0AA0/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VT1705-2EC46-0AA0

**CAx-Online-Generator** 

http://www.siemens.com/cax

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