

CIRCUIT BREAKER 3VT1 STANDARD BREAKING CAPACITY ICU=25KA, 415V AC 4-POLE, SYSTEM PROTECTION ELECTRONIC TRIP UNIT TM, LI IN= 80A RATED CURRENT IR= 63... 80A OVERLOAD PROT. II= 400... 800A, 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	A	80
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	7
Operating cycles / maximum	1/h	120
Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Breaking capacity limit short-circuit current (I_{cu})		
• 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 (I_{cs})		
• at 240 V / rated value	kA	20
• at 415 V / rated value	kA	13

<ul style="list-style-type: none"> • at 500 V / rated value 	kA	6
<ul style="list-style-type: none"> • at 690 V / rated value 	kA	3
Ultimate short-circuit current making capacity (I_{cm}) / at 415 V / rated value	kA	52
Adjustable response current / of the current-dependent overload release		
<ul style="list-style-type: none"> • initial value 	A	63
<ul style="list-style-type: none"> • final value 	A	80
Adjustable response current / of the non-delayed short-circuit release		
<ul style="list-style-type: none"> • initial value 	A	400
<ul style="list-style-type: none"> • final value 	A	800
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		
<ul style="list-style-type: none"> • undervoltage release mechanism 		No
<ul style="list-style-type: none"> • Voltage trigger 		No
<ul style="list-style-type: none"> • undervoltage release with leading contact 		No
Suitability for use / circuit breaker		Yes
Item designation		
<ul style="list-style-type: none"> • according to DIN EN 61346-2 		Q
Ambient temperature		
<ul style="list-style-type: none"> • during operating 		
<ul style="list-style-type: none"> • minimum 	°C	-40
<ul style="list-style-type: none"> • maximum 	°C	55
<ul style="list-style-type: none"> • during storage 		
<ul style="list-style-type: none"> • minimum 	°C	-40
<ul style="list-style-type: none"> • maximum 	°C	55
Derating temperature / for the rated value of the continuous current	°C	40
Protection class IP		IP40
Product function		
<ul style="list-style-type: none"> • overload protection 		No
<ul style="list-style-type: none"> • for zero conductors / short-circuit and overload protection 		No
<ul style="list-style-type: none"> • 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



CCC



GOST

[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/WWW/view/en/3VT1708-2EC46-0AA0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT1708-2EC46-0AA0

CAX-Online-Generator

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

last change:

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