SIEMENS

Data sheet



circuit breaker 3VT1 standard breaking capacity Icu=25kA, 415V AC 3-pole, line protection trip unit TM, LI In=80A rated current IR=80A overload protection II=320A, short-circuit prot. 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		
design of the overcurrent release	TM		
General technical data			
number of poles	3		
size of the circuit-breaker	3VT1		
mechanical service life (operating cycles) typical	20 000		
electrical endurance (operating cycles) typical	6 000		
utilization category	A		
performance class for circuit breaker	N		
operating frequency maximum	120 1/h		
Voltage			
surge voltage resistance rated value	8 kV		
Protection class			
protection class IP	IP40		
protection function of the overcurrent release	LI		
Dissipation			
power loss [W] for rated value of the current at AC in hot operating state per pole	2.33 W		
Current			
operational current			
 at 40 °C rated value 	80 A		
 at 45 °C rated value 	73 A		
 at 50 °C rated value 	73 A		
derating temperature for the rated value of the continuous current	40 °C		
adjustable current response value current			
 of the current-dependent overload release full-scale value 	80 A		
 of instantaneous short-circuit trip unit minimum 	320 A		
 of instantaneous short-circuit trip unit maximum 	320 A		
Main circuit			
operating frequency			
1 rated value	50 Hz		
• 2 rated value	60 Hz		
operational current rated value	80 A		
Association advanta	307.		
Auxiliary circuit			

number of NC centests for auxiliary centests	0				
number of NC contacts for auxiliary contacts	0				
number of NO contacts for auxiliary contacts Suitability	0				
	av rata	no municipalities			
suitability for use • disconnecting means	Yes	m protection			
	168				
Adjustable parameters	00.4				
adjustable current response value current of the current- dependent overload release initial value	80 A				
Product details					
product component					
trip indicator	No				
auxiliary switch	No				
 voltage trigger 	No				
undervoltage release	No	No			
 undervoltage release with leading contact 	No				
product extension optional motor drive	Yes				
Product function					
product function					
 of thermal overload trip unit 	fixed				
 grounding protection 	No				
 for neutral conductors short-circuit and overload proof 	No				
phase failure detection	No	No			
 overload protection 	Yes				
Short circuit					
operating short-circuit current breaking capacity (lcs)					
at 240 V rated value	20 kA				
at 415 V rated value	13 kA				
at 500 V rated value	6 kA				
at 690 V rated value	3 kA				
maximum short-circuit current breaking capacity (Icu)					
at 240 V rated value	40 kA				
at 415 V rated value	25 kA				
at 500 V rated value	12 kA				
at 690 V rated value	6 kA				
Connections					
arrangement of electrical connectors for main current circuit	front	side			
type of electrical connection for main current circuit	box to	erminal			
Mechanical Design					
height	130 r	nm			
width	75 m				
depth	80 m				
fastening method		fixed mounting			
mounting position		with vertical mounting surface +/-180° rotatable, with vertical mounting			
		ce +/- 30° tiltable to the front and back			
net weight	1.05	kg			
Environmental conditions					
ambient temperature during operation					
• minimum	-40 °				
• maximum	55 °C				
ambient temperature during storage					
• minimum	-40 °				
• maximum	55 °C	55 °C			
Certificates					
reference code					
according to EN 61346-2	Q				
• according to IEC 81346-2	Q				
General Product Approval		Declaration of Conformity	Test Certificates		
Contract Todat Approval		200 and on or on online	. oot oortmoates		









Type Test Certificates/Test Report

other

Miscellaneous

Further information

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

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

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VT1708-2DA36-0AA0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3VT1708-2DA36-0AA0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT1708-2DA36-0AA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







