SIEMENS

Data sheet

3VT1706-2DA36-0AA0



circuit breaker 3VT1 standard breaking capacity Icu=25kA, 415V AC 3pole, line protection trip unit TM, LI In=63A rated current IR=63A overload protection II=252A, short-circuit prot. without auxiliary release without auxiliary/alarm switch

Model SENTRON product designation 3VT1_5 molded case circuit breakers design of the actualing element toggle handle type of the driving mechanism motor drive No Ceneral technical data TM Ceneral technical data TM Ceneral technical data 3VT1 mechanical service life (operating cycles) typical 6 000 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 Protection class Protection class IP protection flass IP IP40 protection flass IP IP40 protection class IP V power loss [M] for rated value of the current at AC in hot 2 W operating state per pole 2 W operating temperature for the rated value 57 A • at 40 °C rated value 57 A • at 50 °C rated value 57 A • at 50 °C rated value 57 A <th>-</th> <th></th>	-	
product designation 3VT1_5 molded case circuit breakers design of the actuating element toggle handle No No General technical data TM Ceneral technical data 3 number of poles 3 size of the circuit-breaker 3VT1 mechanical service life (operating cycles) typical 20 000 electrical endurance (operating cycles) typical 6000 utilization category A operating frequency maximum 120 1/h Voltago surge voltage resistance rated value protection class B kV Protection class Protection class protection function of the overcurrent release Li Dissipation 2W operating state per pole STA Current 63 A • at 40 °C rated value 57 A • at 43 °C rated value 57 A • at 43 °C rated value 57 A • at 43 °C rated value 63 A • at 43 °C rated value 57 A • at 43 °C rated value 63 A • at 43 °C rated value 61 A • at 43 °C rated value 63 A • at 43 °C rated value 63 A • at 43 °C rated value 63 A • at 40 °C ra	Model	
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General technical data 3 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 8 kV Protection class Protection class protection function of the overcurrent release Li Dissipation 2 W operating state per pole 2 W Current operating state per pole operating temperature for the rated value of the continuous current 63 A • at 40 °C rated value 57 A • at 50 °C rated value 57 A • at 50 °C rated value 61 A • of instantaneous short-circuit trip unit minimum 252 A • of instantaneous short-circuit trip unit minimum 252 A • of instantaneous short-circuit trip unit maximum 252 A • of instantaneous short-circuit trip unit maximum 252 A • of instantaneous short-circuit trip unit maximum 252 A • of instantaneous short-circuit trip unit maximum 252 A • of instantaneous short-circuit trip unit maximum 252 A		
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protection function of the overcurrent release L1 Dissipation 2 power loss [M] for rated value of the current at AC in hot operating state per pole 2 Current 2 operational current 63 A • at 40 °C rated value 63 A • at 45 °C rated value 57 A • at 50 °C rated value 57 A • at 50 °C rated value 63 A • at 50 °C rated value of the continuous current 40 °C • of the current-dependent overload release full-scale value 63 A • of instantaneous short-circuit trip unit minimum 252 A • of instantaneous short-circuit trip unit maximum 252 A • of instantaneous short-circuit trip unit maximum 252 A Main circuit 60 Hz • 2 rated value 60 A • Auxiliary circuit 0 number of CO contacts for auxiliary contacts 0	Protection class	
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power loss [W] for rated value of the current at AC in hot operating state per pole 2 W Current 0 operational current 63 A • at 40 °C rated value 63 A • at 40 °C rated value 57 A • at 50 °C rated value 57 A • at 50 °C rated value 57 A • derating temperature for the rated value of the continuous current 40 °C • of the current response value current 63 A • of instantaneous short-circuit trip unit minimum 252 A • of instantaneous short-circuit trip unit maximum 252 A Main circuit 50 Hz • 2 rated value 60 Hz • 2 rated value 63 A Main circuit 63 A operational current rated value 63 A	protection function of the overcurrent release	LI
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• at 45 °C rated value57 A• at 50 °C rated value57 Aderating temperature for the rated value of the continuous current40 °Cadjustable current response value current63 A• of the current-dependent overload release full-scale value63 A• of instantaneous short-circuit trip unit minimum • of instantaneous short-circuit trip unit maximum252 A• of instantaneous short-circuit trip unit maximum250 Hz• operating frequency • 1 rated value60 Hz• 0 perational current rated value63 A• Auxiliary circuit60 Hz• number of CO contacts for auxiliary contacts0	operational current	
• at 50 °C rated value 57 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 • of instantaneous short-circuit trip unit minimum 252 A • of instantaneous short-circuit trip unit maximum 252 A • of instantaneous short-circuit trip unit maximum 252 A • of instantaneous short-circuit trip unit maximum 252 A • of instantaneous short-circuit trip unit maximum 252 A • of instantaneous short-circuit trip unit maximum 252 A • operating frequency • 1 rated value • 2 rated value 50 Hz • 2 rated value 63 A • Auxiliary circuit 63 A number of CO contacts for auxiliary contacts 0	 at 40 °C rated value 	63 A
derating temperature for the rated value of the continuous current 40 °C adjustable current response value current 63 A • of the current-dependent overload release full-scale value 63 A • of instantaneous short-circuit trip unit minimum 252 A • of instantaneous short-circuit trip unit maximum 252 A Main circuit 252 A operating frequency 50 Hz • 1 rated value 60 Hz operational current rated value 63 A Multicircuit 63 A	 at 45 °C rated value 	57 A
current adjustable current response value current • of the current-dependent overload release full-scale value 63 A • of instantaneous short-circuit trip unit minimum 252 A • of instantaneous short-circuit trip unit maximum 252 A • of instantaneous short-circuit trip unit maximum 252 A • of instantaneous short-circuit trip unit maximum 252 A • of instantaneous short-circuit trip unit maximum 252 A • operating frequency • • 1 rated value 50 Hz • 2 rated value 60 Hz operational current rated value 63 A • Auxiliary circuit • number of CO contacts for auxiliary contacts 0	 at 50 °C rated value 	57 A
• of the current-dependent overload release full-scale value63 A• of instantaneous short-circuit trip unit minimum • of instantaneous short-circuit trip unit maximum252 AMain circuit252 Aoperating frequency • 1 rated value50 Hz• 2 rated value60 Hzoperational current rated value63 AAuxiliary circuit0		40 °C
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• of instantaneous short-circuit trip unit maximum 252 A Main circuit		63 A
Main circuit operating frequency • 1 rated value • 2 rated value • 2 rated value operational current rated value 60 Hz operational current rated value 63 A Auxiliary circuit number of CO contacts for auxiliary contacts 0	 of instantaneous short-circuit trip unit minimum 	252 A
operating frequency 50 Hz • 1 rated value 50 Hz • 2 rated value 60 Hz operational current rated value 63 A Auxiliary circuit number of CO contacts for auxiliary contacts 0	 of instantaneous short-circuit trip unit maximum 	252 A
• 1 rated value 50 Hz • 2 rated value 60 Hz operational current rated value 63 A Auxiliary circuit 0	Main circuit	
• 2 rated value 60 Hz operational current rated value 63 A Auxiliary circuit 0	operating frequency	
operational current rated value 63 A Auxiliary circuit 0	 1 rated value 	50 Hz
Auxiliary circuit number of CO contacts for auxiliary contacts 0	• 2 rated value	60 Hz
number of CO contacts for auxiliary contacts 0	operational current rated value	63 A
	Auxiliary circuit	
	number of CO contacts for auxiliary contacts	0

	2
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
Suitability	
suitability for use	system protection
disconnecting means	Yes
Adjustable parameters	
adjustable current response value current of the current- dependent overload release initial value	63 A
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	
 of thermal overload trip unit 	fixed
 grounding protection 	No
 for neutral conductors short-circuit and overload 	No
proof	
 phase failure detection 	No
 overload protection 	Yes
Short circuit	
operating short-circuit current breaking capacity (Ics)	
 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 terminal
Mechanical Design	
height	130 mm
width	75 mm
depth	80 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	1.062 kg
Environmental conditions	
ambient temperature during operation	
● minimum	-40 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	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



EHC





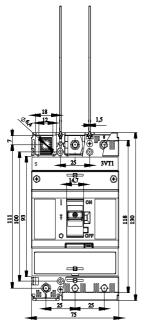
Type Test Certificates/Test Report

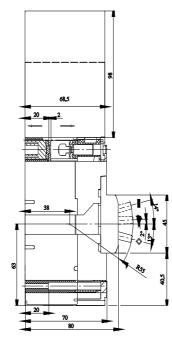
other

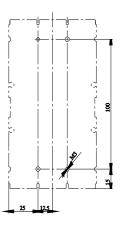
Miscellaneous

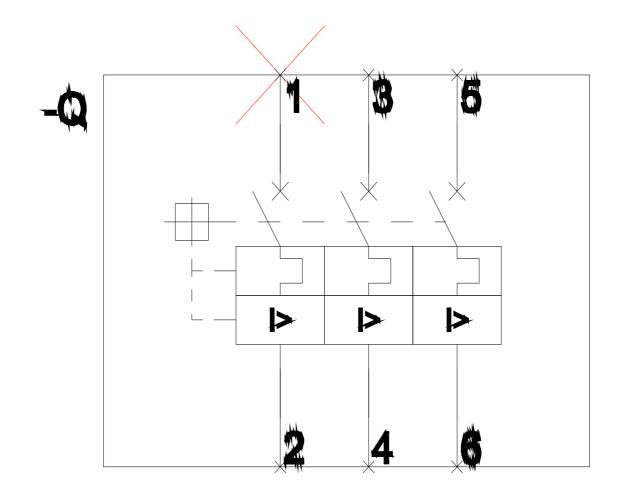
Further information

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