SIEMENS

Product data sheet

3RV2011-1AA25



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.1.1...1.6A, N-RELEASE 21A, SPRING-L. CONNECTION STANDARD SW. CAPACITY W. TRANSVERSE AUX. SWITCH 1NO+1NC

General technical data:			
Product brand name		SIRIUS	
product designation		3RV2 circuit breaker	
Size of the circuit-breaker		S00	
Trip class		CLASS 10	
Protection class IP / on the front		IP20	
Degree of pollution		3	
Installation altitude / at a height over sea level / maximum	m	2,000	
Ambient temperature			
during storage	°C	-50 80	
during operating	°C	-20 60	
during transport	°C	-50 80	
Resistance against shock		25g / 11 ms	
Impulse voltage resistance / rated value	kV	6	
Insulation voltage / rated value	V	690	
Active power loss / total / typical	W	6	
Item designation			
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F	

• according to DIN EN 61346-2

F

Mechanical operating cycles as operating time		
of the main contacts / typical		100,000
 of the auxiliary contacts / typical 		100,000
Design of the auxiliary switch		transverse
Type of the driving mechanism / motor drive		No
Design of the operating mechanism	-	selector switch
Product function		
overload protection		Yes
phase disturbance recognition		Yes
Product component		
auxiliary switch		Yes
undervoltage release mechanism		No
trip indicator		No
Product extension / optional / motor drive		No
Main circuit:		
Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current / at AC-3 / at 400 V / rated value	A	1.5
Service power / at AC-3	-	
• at 400 V / rated value	W	550
• at 500 V / rated value	W	750
• at 690 V / rated value	W	1,100
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum	1/h	15
Arrangement of electrical connectors / for main current circuit		Top and bottom
Adjustable response current		
 of the non-delayed short-circuit release 	А	21 21
 of the current-dependent overload release 	А	1.1 1.6
Service power / at AC-3 / at 230 V / rated value	W	250
Continuous current / rated value	А	1.6
Auxiliary circuit:		
Product extension / auxiliary switch		Yes
Number of NC contacts / for auxiliary contacts / instantaneous switching		1
Number of NO contacts / for auxiliary contacts / instantaneous switching		1
Number of change-over switches / for auxiliary contacts		0
Operating current / of the auxiliary contacts		
• at AC-12 / maximum	А	2.5

• at AC-15		
• at 24 V	А	2
• at 230 V	А	0.5
• at DC-13		
• maximum	А	1
• at 24 V	А	1
• at 60 V	А	0.15

0

Inputs/ Outputs:

Number of digital inputs

Short-circuit:		
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	А	100,000
• at 500 V / rated value	А	100,000
• at 690 V / rated value	А	100,000
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik < 400 A)
Design of the overcurrent release and short-circuit release		thermomagnetic

Installation/mounting/dimensions:			
Built in orientation		any	
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715	
Width	mm	45	
Height	mm	109	
Depth	mm	91	
Distance, to be maintained, to the ranks assembly			
• forwards	mm	0	
backwards	mm	0	
• upwards	mm	50	
downwards	mm	50	
• sidewards	mm	0	
Distance, to be maintained, to earthed part			
• forwards	mm	0	
backwards	mm	0	
• upwards	mm	50	
• sidewards	mm	30	
• downwards	mm	50	
Distance, to be maintained, conductive elements			
• forwards	mm	0	
backwards	mm	0	

• upwards	mm	50
downwards	mm	50
• sidewards	mm	30
Connections:		
Product function	_	
removable terminal for main circuit		No
 removable terminal for auxiliary and control circuit 		No
Design of the electrical connection	_	
for main current circuit		spring-loaded terminals
 for auxiliary and control current circuit 		spring-loaded terminals
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (0.5 4 mm²)
• stranded		2x (0.5 4 mm ²)
finely stranded		
with conductor end processing		2x (0.5 2.5 mm²)
without conductor final cutting		2x (0.5 2.5 mm²)
for AWG conductors / for main contacts		2x (20 12)
for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
finely stranded		
with conductor end processing		2x (0.5 1.5 mm²)
• without conductor final cutting		2x (0.5 1.5 mm²)
 for AWG conductors / for auxiliary contacts 		2x (20 14)
Certificates/approvals:		
Verification of suitability		CE / UL / CSA
für Staubexplosionsschutz für Zone 21/22		no
 for gas explosion protection for zone 1/2 		no

General Product Approval				For use in hazardo	ous locations
coc	(SF) CSA	ROSTEST		DEKRA EXAM, DMT	
Test Certificates					
Manufacturer	other				
Shipping Approva	I				
ABS	GL	Lloyd's Register	PRS	RINA	RMRS
other					
Manufacturer	<u>other</u>				
UL/CSA ratings					
yielded mechanical	performance (hp)				
 for single-phase 	squirrel cage motors				
• at 230 V / rated value		hp	0.1		
 for three-phase squirrel cage motors 					
• at 460/480 V /	rated value		hp	0.75	
• at 575/600 V /	rated value		hp	0.75	
Operating current (I	FLA) / for three-phase	e squirrel cage motors			
• at 480 V / rated v	value		А	1.6	
• at 600 V / rated value			А	1.3	
Contact rating designut of the second	gnation / for auxiliary	contacts / according to	C300 / R300		
Safety:					
B10 value / with hig	h demand rate				
according to SN	31920		50,000		
T1 value / for proof	test interval or servic	ce life			
 according to IEC 	61508		а	10	
Failure rate (FIT val	ue) / with low demane	d rate			

• with low demand rate / according to SN 31920%40• with high demand rate / according to SN 31920%40Protection against electrical shockImage: Second se

• according to SN 31920

Proportion of dangerous failures

FIT

50

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Industry Mall (Online ordering system)

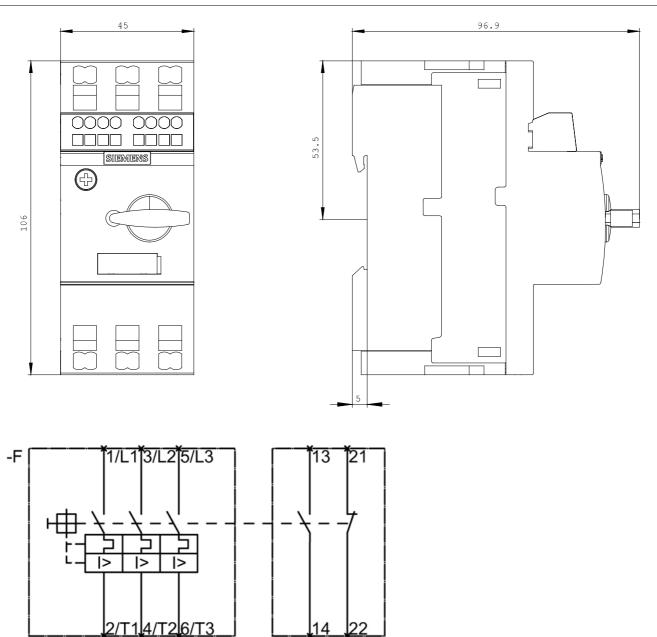
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-1AA25/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1AA25



last change:

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