SIEMENS

Product data sheet

3RV2011-1GA25



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 4.5...6.3A, N-RELEASE 82A 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		\$00	
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	6.7	
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	4.9
Service power / at AC-3		
• at 400 V / rated value	W	2,200
• at 500 V / rated value	W	3,000
• at 690 V / rated value	W	4,000
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	82 82
 of the current-dependent overload release 	А	4.5 6.3
Service power / at AC-3 / at 230 V / rated value	W	1,500
Continuous current / rated value	А	6.3
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 (Icu)		
• at 400 V / rated value	А	100,000
• at 500 V / rated value	А	100,000
• at 690 V / rated value	А	6,000
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		Spring loaded terminals	
for main contacts			
• solid		2x (0.5 4 mm²)	
stranded		2x (0.5 4 mm ²)	
		28 (0.5 4 mm ⁻)	
finely stranded with conductor and processing		$2x (0.5 - 2.5 \text{ mm}^2)$	
with conductor end processing		2x (0.5 2.5 mm ²)	
without conductor final cutting		2x (0.5 2.5 mm ²)	
for AWG conductors / for main contacts		2x (20 12)	
• for auxiliary contacts		0 /0.5 0.5 mm ²)	
• solid		2x (0.5 2.5 mm²)	
• finely stranded		0 (0 5 4 5	
with conductor end processing		2x (0.5 1.5 mm ²)	
without conductor final cutting		2x (0.5 1.5 mm ²)	
 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 hazard	ous locations	
COC	(SA)	ROSTEST		<u>DEKRA EXAM,</u> <u>DMT</u>	
Test Certificates					
Manufacturer	other				
Shipping Approval					
ABS	GL	Lloyd's Kegister LRS	PRS	RINA	RMRS
other					
Manufacturer	<u>other</u>				
UL/CSA ratings					
yielded mechanical p	performance (hp)				
 for single-phase set 	quirrel cage motors	5			
• at 110/120 V / r	rated value		hp	0.25	
• at 230 V / rated	l value		hp	0.5	
 for three-phase squirrel cage motors 					
• at 200/208 V / r	rated value		hp	1	
• at 220/230 V / r	rated value		hp	1.5	
• at 460/480 V / r	rated value		hp	3	
• at 575/600 V / r	rated value		hp	5	
Operating current (FI	LA) / for three-pha	ase squirrel cage motors			
• at 480 V / rated value		А	4.8		
• at 600 V / rated value		А	6.1		
Contact rating designation / for auxiliary contacts / according to UL			C300 / R300		
Safety:					
B10 value / with high demand rate					
according to SN 31920			50,000		
T1 value / for proof test interval or service life					
 according to IEC 6 	61508		а	10	

Failure rate (FIT value) / with low demand rate

• with low demand rate / according to SN 31920

• with high demand rate / according to SN 31920

• according to SN 31920

Proportion of dangerous failures

FIT

%

%

50

40

40

Protection against electrical shock

finger-safe

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

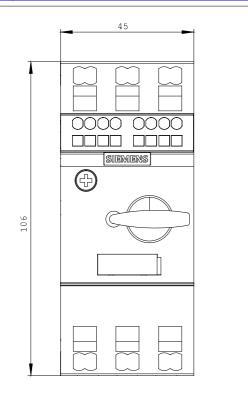
http://www.siemens.com/industrial-controls/mall

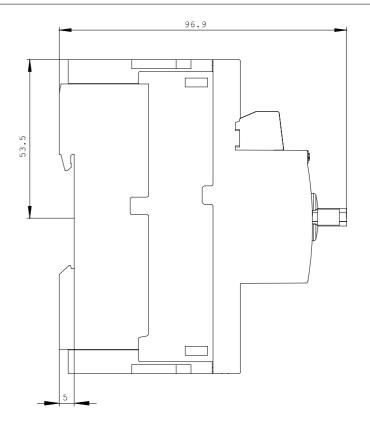
CAx-Online-Generator

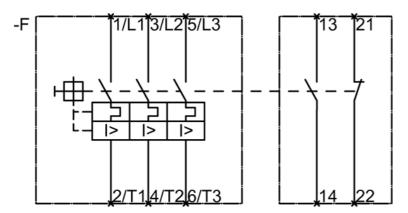
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-1GA25/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1GA25







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