SIEMENS

Product data sheet

3RV2011-0GA25



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.45...0.63A, N-RELEASE8.2A 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	5
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	0.6
Service power / at AC-3	-	
• at 400 V / rated value	W	180
• at 500 V / rated value	W	180
• at 690 V / rated value	W	250
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	8.2 8.2
 of the current-dependent overload release 	А	0.45 0.63
Service power / at AC-3 / at 230 V / rated value	W	90
Continuous current / rated value	А	0.63
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

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Inputs/ Outputs:

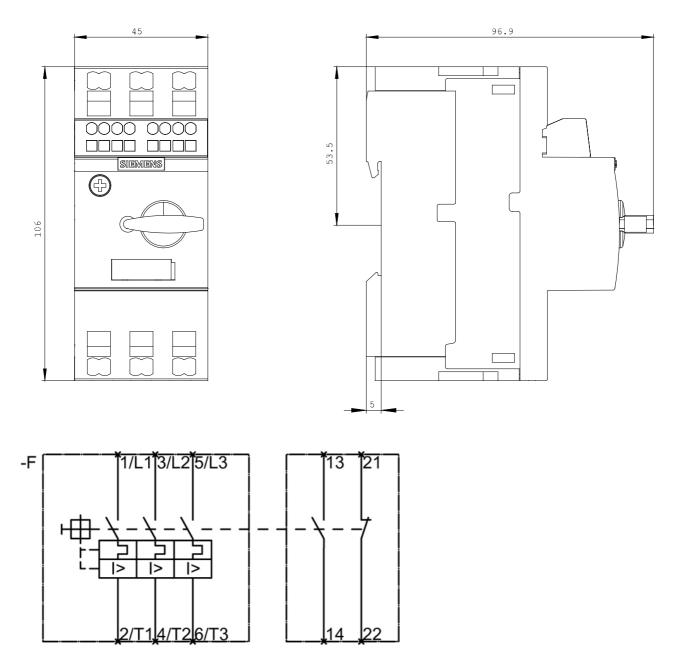
Number of digital inputs

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		0 (0.5 (1.5 (0.5 (0.5 (0.5 (0.5 (0.5 (0.5 (0.5 (0	
• solid		2x (0.5 4 mm2)	
• stranded		2x (0.5 4 mm²)	
finely stranded			
 with conductor end processing 		2 x (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 		2 x (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 hazardou	s locations
General Product Approval					
CQC	CSA	ROSTEST		<u>DEKRA EXAM,</u> <u>DMT</u>	
Test Certificates					
Manufacturer	other				
Shipping Approv	al				
ABS	GL	Lloyd's Kegister	PRS		RMRS
other					
<u>Manufacturer</u>	<u>other</u>	DE VDE			
JL/CSA ratings					
Contact rating des	signation / for auxilia	ry contacts / according to		C300 / R300	
Safety:					
310 value / with hi	gh demand rate				
 according to SN 	N 31920			50,000	
T1 value / for proo	f test interval or serv	ice life			
 according to IE 	C 61508		а	10	
Failure rate (FIT va	alue) / with low dema	nd rate			
according to SN 31920		FIT	50		
Proportion of dang	gerous failures				
with low demand rate / according to SN 31920		%	40		
with high demand rate / according to SN 31920		%	40		
Protection against electrical shock			finger-safe		
Further informat	tion:				
	Downloadcenter (Cata .com/industrial-control				
http://www.siemens	ine ordering system)				
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last change:

Oct 17, 2011