## SIEMENS

## **Product data sheet**

## 3RV2011-0AA25



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 0.11...0.16A, N-RELEASE2.1A 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	5.5
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		F
according to DIN EN 61346-2		F

Mechanical operating cycles as operating time	-	
of the main contacts / typical		100,000
<ul> <li>of the auxiliary contacts / typical</li> </ul>		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	А	0.16
Service power / at AC-3	-	
• at 400 V / rated value	W	40
• at 500 V / rated value	W	60
• at 690 V / rated value	W	60
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	-	
<ul> <li>of the non-delayed short-circuit release</li> </ul>	А	2.1 2.1
<ul> <li>of the current-dependent overload release</li> </ul>	А	0.11 0.16
Service power / at AC-3 / at 230 V / rated value	W	20
Continuous current / rated value	А	0.16
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:

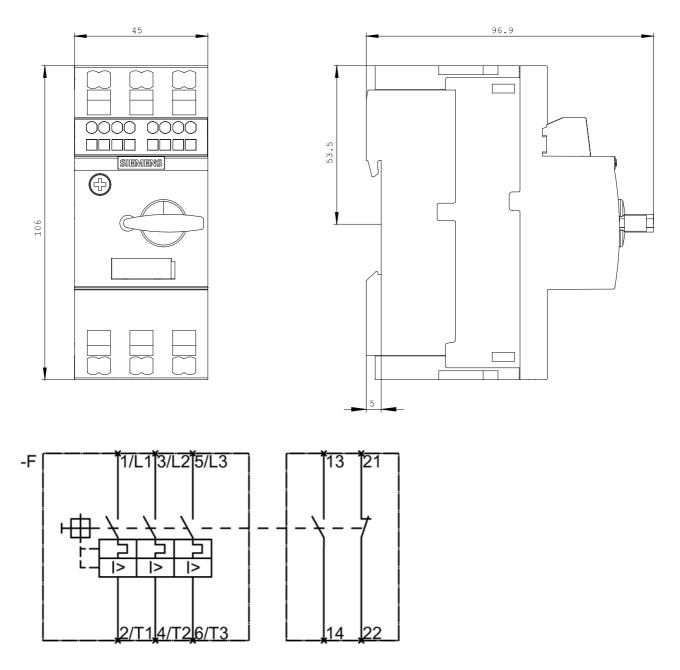
Number of digital inputs

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		Spring loaded terminals
for main contacts		
• solid		2x (0.5 4 mm²)
stranded		2x (0.5 4 mm <sup>2</sup> )
		28 (0.5 4 mm <sup>-</sup> )
finely stranded     with conductor and processing		$2x (0.5 - 2.5 \text{ mm}^2)$
with conductor end processing		2x (0.5 2.5 mm <sup>2</sup> )
without conductor final cutting		2x (0.5 2.5 mm <sup>2</sup> )
for AWG conductors / for main contacts		2x (20 12)
• for auxiliary contacts		0 /0.50.5 mm <sup>2</sup> )
• solid		2x (0.5 2.5 mm²)
• finely stranded		0 (0 5 4 5
with conductor end processing		2x (0.5 1.5 mm <sup>2</sup> )
without conductor final cutting		2x (0.5 1.5 mm <sup>2</sup> )
<ul> <li>for AWG conductors / for auxiliary contacts</li> </ul>		2x (20 14)
Certificates/approvals:		
Verification of suitability		CE / UL / CSA
für Staubexplosionsschutz für Zone 21/22		no
<ul> <li>for gas explosion protection for zone 1/2</li> </ul>		no

	Approval			For use in hazardou	is locations
coc	(SA)	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			
JL/CSA ratings					
Contact rating des	ignation / for auxilia	y contacts / according to		C300 / R300	
Safety:					
310 value / with hi	gh demand rate				
<ul> <li>according to SN</li> </ul>	N 31920			50,000	
-	f test interval or serv	ice life			
	C 61508		а	10	
according to IE	Failure rate (FIT value) / with low demand rate				
ailure rate (FIT va		nu rate			
• according to SN	V 31920		FIT	50	
ailure rate (FIT va • according to SN Proportion of dang	y 31920 gerous failures				
<ul> <li>ailure rate (FIT va</li> <li>according to SN</li> <li>Proportion of dang</li> <li>with low deman</li> </ul>	d rate / according to S	N 31920	%	40	
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last change:

Oct 24, 2011