## **SIEMENS**

Data sheet 3RV2011-0BA25



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.14...0.2A, N-RELEASE2.6A, SPRING-L. CONNECTION STANDARD SW. CAPACITY W. TRANSVERSE AUX. SWITCH 1NO+1NC

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:		
Active power loss total typical	W	5
Insulation voltage		
<ul> <li>with degree of pollution 3 Rated value</li> </ul>	V	690
Shock resistance		
• acc. to IEC 60068-2-27		25g / 11 ms
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
<ul> <li>of the main contacts typical</li> </ul>		100 000
<ul> <li>of the auxiliary contacts typical</li> </ul>		100 000
Electrical endurance (switching cycles)		
• typical		100 000
Temperature compensation	°C	-20 +60
Size of contactor can be combined company-specific		S00
Protection class IP		
• on the front		IP20
<ul><li>of the terminal</li></ul>		IP20
Type of protection		Increased safety
Equipment marking		
• acc. to DIN EN 81346-2		Q

lain circuit:		
Number of poles for main current circuit	3	
Number of poles for main current circuit	3	

Adjustable response value current of the current-	Α	0.14 0.2
dependent overload release		
Operating voltage		
Rated value	V	690
<ul> <li>at AC-3 Rated value maximum</li> </ul>	V	690
Operating frequency Rated value	Hz	50 60
Operating current Rated value	Α	0.2
Operating current		
• at AC-3		
— at 400 V Rated value	Α	0.2
Operating power		
• at AC-3		
— at 230 V Rated value	W	30
— at 400 V Rated value	W	60
— at 500 V Rated value	W	60
— at 690 V Rated value	W	90
Operating frequency		
• at AC-3 maximum	1/h	15
Auxiliary circuit:		
Number of NC contacts		
<ul> <li>for auxiliary contacts</li> </ul>		1
Number of NO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		1
Number of CO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
Product expansion Auxiliary switch		Yes
Design of the auxiliary switch		transverse
Operating current of the auxiliary contacts at AC-15		
● at 24 V	Α	2
● at 120 V	Α	0.5
● at 125 V	Α	0.5
● at 230 V	Α	0.5
Operating current of the auxiliary contacts at DC-13		
● at 24 V	Α	1
● at 60 V	Α	0.15
Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker		thermal
Operational short-circuit current breaking capacity (Ics) with AC		
• at 240 V Rated value	kA	100
● at 400 V Rated value	kA	100

● at 500 V Rated value	kA	100
• at 690 V Rated value	kA	100
Maximum short-circuit current breaking capacity (Icu)		
<ul><li>with AC at 240 V Rated value</li></ul>	kA	100
• with AC at 400 V Rated value	kA	100
• with AC at 500 V Rated value	kA	100
• with AC at 690 V Rated value	kA	100
Breaking capacity short-circuit current (Icn)		
• with 1 current path for DC at 150 V Rated value	kA	10
<ul> <li>with 2 current paths in series for DC at 300 V</li> <li>Rated value</li> </ul>	kA	10
• with 3 current paths in series for DC at 450 V	kA	10
Rated value		
Response value current of the instantaneous short-	Α	2.6
circuit release		
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	Α	0.2
● at 600 V Rated value	Α	0.2
Contact rating of the auxiliary contacts acc. to UL		C300 / R300
Short-circuit:		
Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic
Design of the fuse link		
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A
required		(short-circuit current lk < 400 A)
Installation/ mounting/ dimensions:		
mounting position		any
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	mm	106
Width	mm	45
Depth	mm	96
Required spacing		
<ul><li>with side-by-side mounting</li></ul>		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	0
• for grounded parts		
— forwards		
— loi warus	mm	0

mm	0
mm	50
mm	30
mm	50
mm	0
mm	0
mm	50
mm	50
mm	30
	mm mm mm mm mm mm

Connections/ Terminals:		
Type of electrical connection		
for main current circuit	spring-loaded terminals	
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded terminals	
Arrangement of electrical connectors for main current circuit	Top and bottom	
Product function		
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>	No	
Type of connectable conductor cross-section		
• for main contacts		
<ul><li>— single or multi-stranded</li></ul>	2x (0,5 4 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)	
<ul> <li>for AWG conductors for main contacts</li> </ul>	2x (20 12)	
• for auxiliary contacts		
— single or multi-stranded	2x (0,5 2,5 mm²)	
— finely stranded with core end processing	2x (0.5 1.5 mm²)	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm²)	
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>	2x (20 14)	
Design of screwdriver shaft	Diameter 5 to 6 mm	

Safety related data:		
B10 value with high demand rate acc. to SN 31920		50 000
Proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	40
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	%	40
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	50
T1 value for proof test interval or service life acc. to IEC 61508	У	10

Protection against electrical shock finger-safe Size of the circuit-breaker S00 Ambient conditions: Installation altitude at height above sea level 2 000 m maximum Ambient temperature °C -20 ... +60 • during operation -50 ... +80 °C • during storage °C -50 ... +80 • during transport Relative humidity during operation % 10 ... 95

Display:

Display version

• for switching status Handle

Certificates/ approvals:

### **General Product Approval**

Declaration of Conformity

Test Certificates











Special Test Certificate

**Test Certificates** 

### **Shipping Approval**

Declaration of the Compliance with the order

Type Test
Certificates/Test
Report







other



GL

### **Shipping Approval**



LRS







Environmental Confirmations

Confirmation

other



other

Information- and Downloadcenter (Catalogs, Brochures,...)

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

### Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20110BA25

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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV20110BA25&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV20110BA25&lang=en</a>







