SIEMENS

Data sheet

3RV2011-0CA15

CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.18...0.25A, N-RELEASE3.3A SCREW CONNECTION, STANDARD SW. CAPACITY, W. TRANSVERSE AUX. SWITCH 1NO+1NC



product brand name	SIRIUS		
Product designation	3RV2 circuit breaker		
General technical data:			
Size of the circuit-breaker	S00		
Size of contactor can be combined company-specific	S00		
Product expansion			
Auxiliary switch	Yes		
Active power loss total typical	5 W		
Insulation voltage with degree of pollution 3 Rated	690 V		
value			
Surge voltage resistance Rated value	6 kV		
Protection class IP			
• on the front	IP20		
• of the terminal	IP20		
Shock resistance			
• acc. to IEC 60068-2-27	25g / 11 ms		
Mechanical service life (switching cycles)			
 of the main contacts typical 	100 000		
 of the auxiliary contacts typical 	100 000		

Electrical endurance (switching cycles) 100 000 • typical 100 000 Type of protection Increased safety Certificate of suitability relating to ATEX on request Protection against electrical shock finger-safe Equipment marking acc. to DIN EN 81346-2 Q Ambient conditions: 2 000 m Installation altitude at height above sea level 2 000 m maximum -20 +60 °C • during operation -20 +80 °C	
Type of protection Increased safety Certificate of suitability relating to ATEX on request Protection against electrical shock finger-safe Equipment marking acc. to DIN EN 81346-2 Q Ambient conditions: 2 000 m Maximum 2 000 m Ambient temperature -20 +60 °C	
Certificate of suitability relating to ATEXon requestProtection against electrical shockfinger-safeEquipment marking acc. to DIN EN 81346-2QAmbient conditions:2 000 mInstallation altitude at height above sea level maximum2 000 mAmbient temperature • during operation-20 +60 °C	
Protection against electrical shock finger-safe Equipment marking acc. to DIN EN 81346-2 Q Ambient conditions: 2 000 m Installation altitude at height above sea level maximum 2 000 m Ambient temperature -20 +60 °C	
Equipment marking acc. to DIN EN 81346-2 Q Ambient conditions: 2 000 m Installation altitude at height above sea level maximum 2 000 m Ambient temperature • during operation -20 +60 °C	
Ambient conditions: Installation altitude at height above sea level maximum 2 000 m Ambient temperature • during operation -20 +60 °C	
Installation altitude at height above sea level 2 000 m maximum Ambient temperature • during operation -20 +60 °C	
maximum Ambient temperature • during operation -20 +60 °C	
• during operation -20 +60 °C	
● during storage -50 +80 °C	
• during transport -50 +80 °C	
Temperature compensation -20 +60 °C	
Relative humidity during operation 10 95 %	
Main circuit:	
Number of poles for main current circuit 3	
Adjustable response value current of the current- 0.18 0.25 A	
dependent overload release	
Operating voltage	
Rated value 690 V	
• at AC-3 Rated value maximum 690 V	
Operating frequency Rated value 50 60 Hz	
Operating current Rated value 0.25 A	
Operating current	
• at AC-3	
- at 400 V Rated value 0.25 A	
Operating power	
• at AC-3	
— at 230 V Rated value 40 W	
- at 400 V Rated value 60 W	
— at 500 V Rated value 90 W	
— at 690 V Rated value 120 W	
Operating frequency	
• at AC-3 maximum 15 1/h	
Auxiliary circuit:	
Design of the auxiliary switch transverse	
Number of NC contacts	
• for auxiliary contacts 1	
Number of NO contacts	
• for auxiliary contacts 1	
Number of CO contacts	

 for auxiliary contacts 	0
Operating current of the auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
Operating current of the auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A

Protective and monitoring functions:			
Trip class	CLASS 10		
Design of the overload release	thermal		
Operational short-circuit current breaking capacity			
(Ics) at AC			
• at 240 V Rated value	100 kA		
• at 400 V Rated value	100 kA		
• at 500 V Rated value	100 kA		
• at 690 V Rated value	100 kA		
Maximum short-circuit current breaking capacity (Icu)			
 at AC at 240 V Rated value 	100 kA		
• at AC at 400 V Rated value	100 kA		
• at AC at 500 V Rated value	100 kA		
• at AC at 690 V Rated value	100 kA		
Breaking capacity short-circuit current (Icn)			
• at 1 current path at DC at 150 V Rated value	10 kA		
 with 2 current paths in series at DC at 300 V Rated value 	10 kA		
 with 3 current paths in series at DC at 450 V Rated value 	10 kA		
Response value current of the instantaneous short-	3.3 A		
circuit release			
UL/CSA ratings:			
Full-load current (FLA) for three-phase AC motor			
• at 480 V Rated value	0.25 A		
• at 600 V Rated value	0.25 A		
Contact rating of the auxiliary contacts acc. to UL	C300 / R300		
Short-circuit protection			
Design of the short-circuit trip	magnetic		
Design of the fuse link			

• for short-circuit protection of the auxiliary switch required Fus

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	97 mm			
Width	45 mm			
Depth	96 mm			
Required spacing				
 with side-by-side mounting 				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	50 mm			
— downwards	50 mm			
— at the side	0 mm			
 for grounded parts 				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	50 mm			
— at the side	30 mm			
— downwards	50 mm			
• for live parts				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	50 mm			
— downwards	50 mm			
— at the side	30 mm			
Connections/ Terminals:				
Product function				
 removable terminal for auxiliary and control circuit 	No			
Type of electrical connection				
 for main current circuit 	screw-type terminals			
 for auxiliary and control current circuit 	screw-type terminals			
Arrangement of electrical connectors for main current circuit	Top and bottom			
Type of connectable conductor cross-section				
• for main contacts				
— single or multi-stranded	2x (0,75 2,5 mm²), 2x 4 mm²			
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 for AWG conductors for main contacts 	2x (18 14), 2x 12			
Type of connectable conductor cross-section				
 for auxiliary contacts 				

— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 for AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)			
Tightening torque				
 for main contacts with screw-type terminals 	0.8 1.2 N·m			
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m			
Design of screwdriver shaft	Diameter 5 to 6 mm			
Design of the thread of the connection screw				
 for main contacts 	M3			
 of the auxiliary and control contacts 	M3			
Safety related data:				
B10 value with high demand rate acc. to SN 31920	50 000			
Proportion of dangerous failures				
 with low demand rate acc. to SN 31920 	40 %			
 with high demand rate acc. to SN 31920 	40 %			
Failure rate [FIT]				
• with low demand rate acc. to SN 31920	50 FIT			
T1 value for proof test interval or service life acc. to	10 у			
IEC 61508				
Display version				
 for switching status 	Handle			
Certificates/ approvals:				

General Product	Approval				Declaration of Conformity
	CSA		<u>KTL</u>	EHC	EG-Konf.
Test Certificates			Shipping App	roval	
spezielle Prüfbescheinigunge <u>n</u>	Werksbescheinigun gen	Typprüfbescheinigu ng/Werkszeugnis	ABS	B U R E A U V E R I TA S	ĴŠ DINV DIV
Shipping Approv	ral				other
GL	Lloyd's Register LRS	PRS	RINA	RMRS	Umweltbestätigung
other					
Bestätigungen	VDE				
Further information					

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

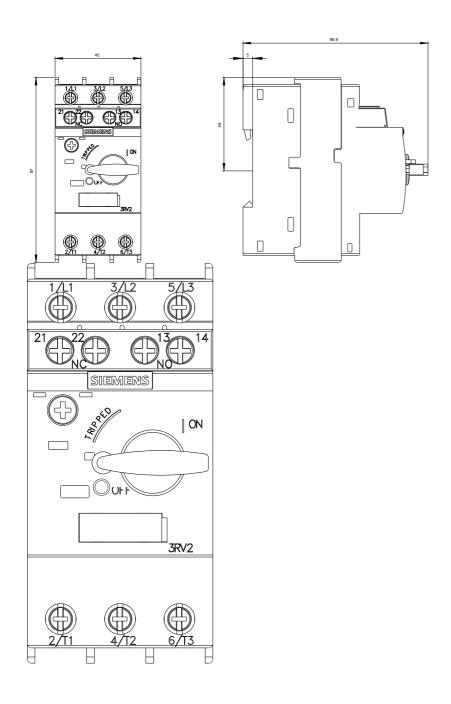
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

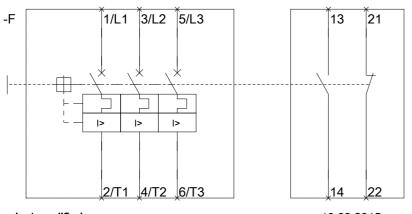
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20110CA15

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV20110CA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV20110CA15&lang=en





last modified:

10.08.2015