SIEMENS

Data sheet

3RV2011-0FA25



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.35...0.5A,N-RELEASE 6.5A 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		
 with degree of pollution 3 Rated value 	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)		
 of the main contacts typical 		100 000
 of the auxiliary contacts typical 		100 000
Electrical endurance (switching cycles)	-	
• typical		100 000
Temperature compensation	°C	-20 +60
Size of contactor can be combined company-specific	-	S0
Protection class IP	-	
• on the front		IP20
• of the terminal		IP20
Type of protection		Increased safety
Equipment marking		
• acc. to DIN EN 81346-2		Q
Main circuit:		
Number of poles for main current circuit		3

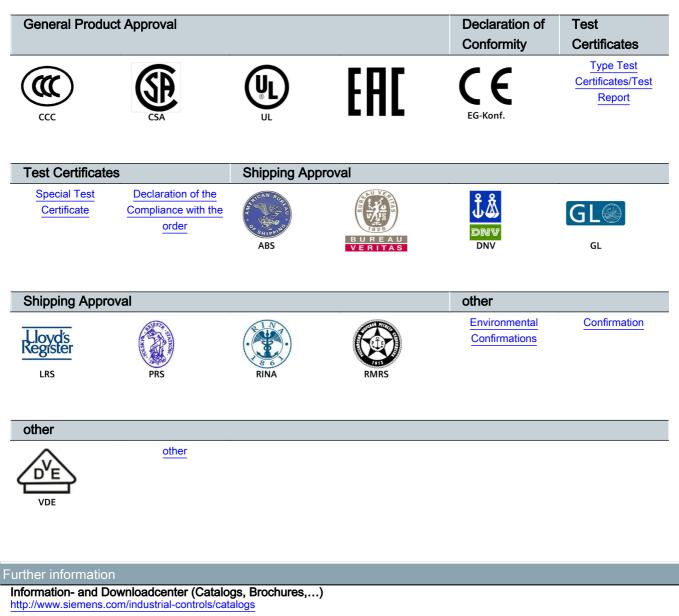
Adjustable response value current of the current-	A	0.35 0.5
dependent overload release	7	0.00 0.0
Operating voltage		
Rated value	V	690
 at AC-3 Rated value maximum 	V	690
Operating frequency Rated value	Hz	50 60
Operating current Rated value	A	0.5
Operating current		
• at AC-3		
— at 400 V Rated value	А	0.5
Operating power		
• at AC-3		
— at 230 V Rated value	W	60
— at 400 V Rated value	W	120
— at 500 V Rated value	W	120
— at 690 V Rated value	W	180
Operating frequency		
• at AC-3 maximum	1/h	15
Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		1
Number of NO contacts		
 for auxiliary contacts 		1
Number of CO contacts		
 for auxiliary contacts 		0
Product expansion Auxiliary switch		Yes
Design of the auxiliary switch		transverse
Operating current of the auxiliary contacts at AC-15		
• at 24 V	A	2
• at 120 V	A	0.5
• at 125 V	A	0.5
• at 230 V	А	0.5
Operating current of the auxiliary contacts at DC-13		
• at 24 V	А	1
• at 60 V	А	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)		
 with AC at 240 V Rated value 	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
 with 2 current paths in series for DC at 300 V Rated value 	kA	10
 with 3 current paths in series for DC at 450 V Rated value 	kA	10
Response value current of the instantaneous short- circuit release	A	6.5
JL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	А	0.5
• at 600 V Rated value	A	0.5
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 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 fuse link for IT network for short-circuit		
Design of the fuse link for IT network for short-circuit protection of the main circuit • at 690 V		gL/gG 4 A
protection of the main circuit • at 690 V nstallation/ mounting/ dimensions:		
protection of the main circuit • at 690 V nstallation/ mounting/ dimensions: mounting position		gL/gG 4 A any
protection of the main circuit • at 690 V nstallation/ mounting/ dimensions:		gL/gG 4 A
protection of the main circuit • at 690 ∨ nstallation/ mounting/ dimensions: mounting position Mounting type Height	mm	gL/gG 4 A any screw and snap-on mounting onto 35 mm standard
protection of the main circuit • at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width	mm mm	gL/gG 4 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
protection of the main circuit • at 690 ∨ Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth		gL/gG 4 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 106
protection of the main circuit ● at 690 V nstallation/ mounting/ dimensions: mounting position Mounting type Height Width	mm	gL/gG 4 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 106 45
protection of the main circuit • at 690 ∨ nstallation/ mounting/ dimensions: mounting position Mounting type Height Width Depth	mm	gL/gG 4 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 106 45
protection of the main circuit • at 690 ∨ Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing	mm	gL/gG 4 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 106 45
protection of the main circuit • at 690 ∨ nstallation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting	mm mm	gL/gG 4 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 106 45 96
protection of the main circuit • at 690 ∨ nstallation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting — forwards	mm mm	gL/gG 4 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 106 45 96 0

mm	0
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
 for auxiliary and control current circuit 		spring-loaded terminals
Arrangement of electrical connectors for main current circuit	_	Top and bottom
Product function	_	
 removable terminal for auxiliary and control circuit 		No
Type of connectable conductor cross-section	_	
 for main contacts 		
— single or multi-stranded		2x (0,5 4 mm²)
 finely stranded with core end processing 		2x (0.5 2.5 mm²)
 finely stranded without core end processing 		2x (0.5 2.5 mm²)
 for AWG conductors for main contacts 		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)
 finely stranded without core end processing 		2x (0.5 1.5 mm²)
 for AWG conductors for auxiliary contacts 		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		
• 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	FIT	50	
T1 value for proof test interval or service life acc. to IEC 61508	У	10	
Protection against electrical shock		finger-safe	
Mechanical data:			
Size of the circuit-breaker		S00	
Ambient conditions:			
Installation altitude at height above sea level	m	2 000	
maximum			
Ambient temperature	-		
 during operation 	°C	-20 +60	
• during storage	°C	-50 +80	
 during transport 	°C	-50 +80	
Relative humidity during operation	%	10 95	
Display:			
Display version			
 for switching status 		Handle	
Certificates/ approvals:			



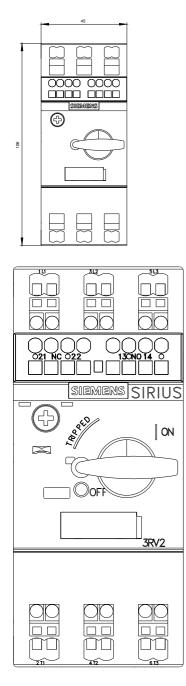
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

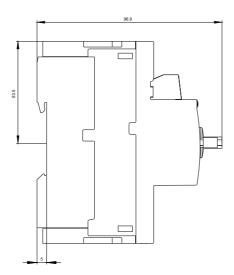
Cax online generator

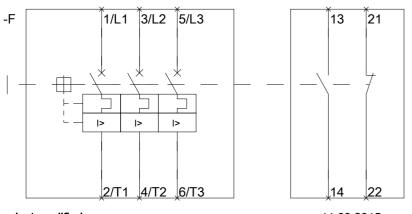
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20110FA25

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV20110FA25/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV20110FA25&lang=en







last modified:

11.03.2015