SIEMENS

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

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	

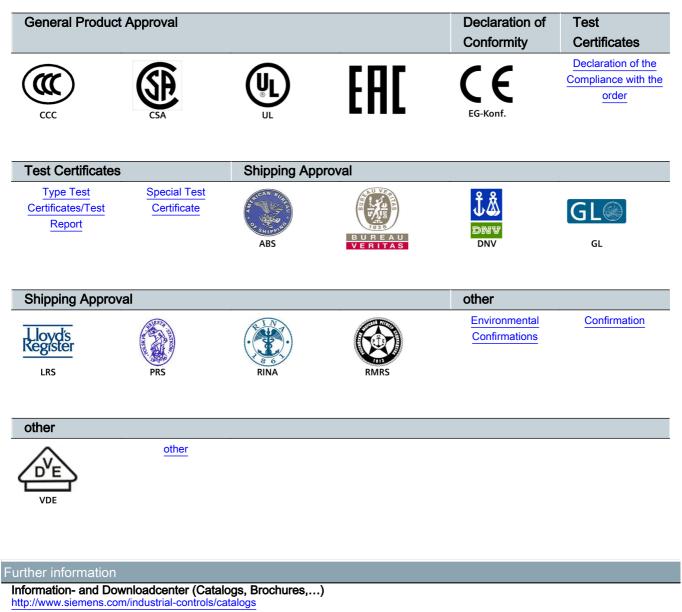
Adjustable response value current of the current-	A	0.45 0.63
dependent overload release	~	0.+0 0.00
Operating voltage		
Rated value	V	690
 at AC-3 Rated value maximum 	V	690
Operating frequency Rated value	Hz	50 60
Operating current Rated value	А	0.63
Operating current		
• at AC-3		
— at 400 V Rated value	А	0.63
Operating power		
• at AC-3		
— at 230 V Rated value	W	90
— at 400 V Rated value	W	180
— at 500 V Rated value	W	180
— at 690 V Rated value	W	250
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	А	2
• at 120 V	А	0.5
• at 125 V	А	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	kA	10
Rated value		
 with 3 current paths in series for DC at 450 V 	kA	10
Rated value	_	
Response value current of the instantaneous short-	A	8.2
circuit release		
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	А	0.63
• at 600 V Rated value	А	0.63
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		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A
-		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit 		
 for short-circuit protection of the auxiliary switch required 		(short-circuit current lk < 400 A)
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit 		
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V 		(short-circuit current lk < 400 A)
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V 		(short-circuit current lk < 400 A)
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions: 		(short-circuit current lk < 400 A) gL/gG 6 A
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions: mounting position 	mm	(short-circuit current lk < 400 A) gL/gG 6 A any screw and snap-on mounting onto 35 mm standard
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions: mounting position Mounting type 	mm	(short-circuit current lk < 400 A) gL/gG 6 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height 	_	(short-circuit current lk < 400 A) gL/gG 6 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 106
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width 	mm	(short-circuit current Ik < 400 A) gL/gG 6 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 106 45
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth 	mm	(short-circuit current lk < 400 A) gL/gG 6 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 106 45
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit protection of the main circuit at 690 ∨ Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing 	mm	(short-circuit current lk < 400 A) gL/gG 6 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 106 45
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing with side-by-side mounting 	mm mm	(short-circuit current lk < 400 A) gL/gG 6 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 106 45 96
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing with side-by-side mounting forwards Backwards 	mm mm	(short-circuit current Ik < 400 A) gL/gG 6 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 106 45 96 0
 for short-circuit protection of the auxiliary switch required Design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing with side-by-side mounting – forwards 	mm mm mm	(short-circuit current Ik < 400 A) gL/gG 6 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 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:			



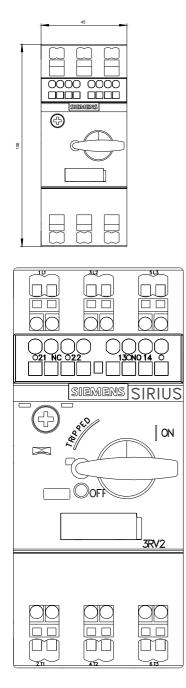
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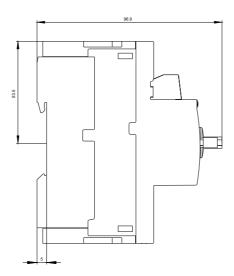
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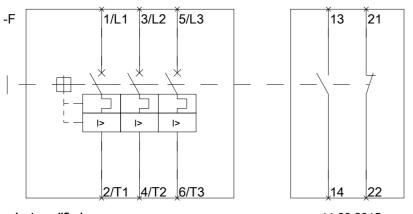
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