SIEMENS

Data sheet 3RV2011-1DA15



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 2.2...3.2A, N-RELEASE42A, SCREW CONNECTION, STANDARD SW. CAPACITY W. TRANSVERSE AUX. SWITCH 1NO+1NC

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

Comment to the size of details		
General technical data:		
Active power loss total typical	W	6
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

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Adjustable response value current of the current- dependent overload release	Α	2.2 3.2
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	Α	3.2
Operating current		
• at AC-3		
— at 400 V Rated value	Α	3.2
Operating power		
• at AC-3		
— at 230 V Rated value	W	550
— at 400 V Rated value	W	1 100
— at 500 V Rated value	W	1 500
— at 690 V Rated value	W	2 200
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	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:		0140040
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	10
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	10
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-	A	42
circuit release	, ,	. -
HI (00A ()		
UL/CSA ratings: Full-load current (FLA) for three-phase AC motor		
at 480 V Rated value	Α	3.2
at 600 V Rated value	Α	3.2
yielded mechanical performance [hp]		
• for single-phase AC motor at 110/120 V Rated	metric	0.1
value	hp	
• for single-phase AC motor at 230 V Rated	metric	0.25
value	hp	
 for three-phase AC motor at 200/208 V Rated value 	metric hp	0.5
 for three-phase AC motor at 220/230 V Rated value 	metric hp	0.75
• for three-phase AC motor at 460/480 V Rated	metric	1.5
value	hp	
 for three-phase AC motor at 575/600 V Rated value 	metric hp	2
Contact rating of the auxiliary contacts acc. to UL		C300 / R300
Chartein it		
Short-circuit: Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic
Design of the fuse link		0 1.5
for short-circuit protection of the auxiliary switch		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A
required		(short-circuit current lk < 400 A)
Design of the fuse link for IT network for short-circuit		
protection of the main circuit		
● at 400 V		gL/gG 25 A
● at 500 V		gL/gG 32 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	97
Width	mm	45
Depth	mm	96
Required spacing		
with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	0
for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— at the side	mm	30
— downwards	mm	50
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	30

Connections/ Terminals:	
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
Product function	
 removable terminal for auxiliary and control circuit 	No
Type of connectable conductor cross-section	
• for main contacts	
 single or multi-stranded 	2x (0,75 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

• 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 	N·m	0.8 1.2	
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	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:			

General Product Approval

Declaration of Conformity







KTL

Shipping Approval





Test Certificates

Declaration of the Compliance with the order

Type Test
Certificates/Test
Report

Special Test Certificate







other

Shipping Approval







LRS







Environmental Confirmations

other

Confirmation



other

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

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV20111DA15}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RV20111DA15/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=3RV20111DA15&lang=en



