SIEMENS

Data sheet 3RV2011-0HA15



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.55...0.8A, N-RELEASE10A, 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

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	0.55 0.8
dependent overload release		
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	0.8
Operating current		
• at AC-3		
— at 400 V Rated value	Α	0.8
Operating power		
• at AC-3		
— at 230 V Rated value	W	120
— at 400 V Rated value	W	180
— at 500 V Rated value	W	250
— at 690 V Rated value	W	370
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:		
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-	Α	10
circuit release		
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	0.8
• at 600 V Rated value	Α	0.8
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
required		
Design of the fuse link for IT network for short-circuit		(short-circuit current lk < 400 A)
		(short-circuit current lk < 400 A)
protection of the main circuit		
at 690 ∨		(short-circuit current lk < 400 A) gL/gG 6 A
• at 690 V Installation/ mounting/ dimensions:		
• at 690 V Installation/ mounting/ dimensions: mounting position		gL/gG 6 A
• at 690 V Installation/ mounting/ dimensions:		gL/gG 6 A
• at 690 V Installation/ mounting/ dimensions: mounting position	mm	gL/gG 6 A any screw and snap-on mounting onto 35 mm standard
at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width	mm mm	gL/gG 6 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth		gL/gG 6 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97
● at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing	mm	gL/gG 6 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45
• at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth	mm	gL/gG 6 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45
● at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing	mm	gL/gG 6 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45
 at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing with side-by-side mounting 	mm mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96
 at 690 V Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing with side-by-side mounting forwards 	mm mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96

— 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
nnactions/ Terminals:	_	
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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

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

Test

Certificates

Special Test

Certificate

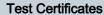












Shipping Approval

Declaration of the Compliance with the order

Type Test
Certificates/Test
Report









GL

Shipping Approval

other









Confirmation Environmental Confirmations

other



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

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV20110HA15}$

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

http://support.automation.siemens.com/WW/view/en/3RV20110HA15/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=3RV20110HA15&lang=en

