SIEMENS

Data sheet 3RV2011-0BA15



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.14...0.2A,N-REL.2.6A, SCREW 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		S00
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	3

Adjustable response value current of the current- dependent overload release	Α	0.14 0.2
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	0.2
Operating current		
• at AC-3		
— at 400 V Rated value	Α	0.2
Operating power		
• at AC-3		
— at 230 V Rated value	W	30
— at 400 V Rated value	W	60
— at 500 V Rated value	W	60
— at 690 V Rated value	W	90
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:		01 400 40
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	kA	10
Rated value		
Response value current of the instantaneous short-	Α	2.6
circuit release		
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	0.2
• at 600 V Rated value	Α	0.2
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		(short-circuit current lk < 400 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	ma ma	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

	screw-type terminals
	screw-type terminals
	Top and bottom
	No
	2x (0,75 2,5 mm²), 2x 4 mm²
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	2x (18 14), 2x 12
	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	2x (20 16), 2x (18 14)
N·m	0.8 1.2
	Diameter 5 to 6 mm
	M3
	M3
	N·m

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











Type Test
Certificates/Test
Report

Test Certificates

Shipping Approval

Declaration of the Compliance with the order

Special Test
Certificate









 GL

Shipping Approval

other









<u>Confirmation</u> <u>Environmental</u> 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

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV20110BA15}$

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

http://support.automation.siemens.com/WW/view/en/3RV20110BA15/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=3RV20110BA15&lang=en



