SIEMENS

Data sheet 3RV2011-0AA40



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 0.11...0.16A, N-RELEASE2.1A RING CABLE LUG CONNECTION STANDARD SW. CAPACITY

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		IP00
• 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	

dependent overload release	A	0.11 0.10
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	0.16
Operating current		
• at AC-3		
— at 400 V Rated value	Α	0.16
Operating power		
• at AC-3		
— at 230 V Rated value	W	20
— at 400 V Rated value	W	40
— at 500 V Rated value	W	60
— at 690 V Rated value	W	60
Operating frequency		
• at AC-3 maximum	1/h	15
Auxiliary circuit:		
Number of NC contacts		
for auxiliary contacts		0
Number of NO contacts		
for auxiliary contacts		0
Number of CO contacts		
• for auxiliary contacts		0
Product expansion Auxiliary switch		Yes
Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker		thermal
Operational short-circuit current breaking capacity		
(Ics) with AC		400
• 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

0.11 ... 0.16

Adjustable response value current of the current-

• with 2 overent noths in series for DC at 200 V	kA	10
 with 2 current paths in series for DC at 300 V Rated value 	IV-1	
 with 3 current paths in series for DC at 450 V Rated value 	kA	10
Response value current of the instantaneous short- circuit release	Α	2.1
JL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	0.16
• at 600 V Rated value	Α	0.16
Short-circuit:		
Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic
nstallation/ 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		ring cable connection
 for auxiliary and control current circuit 		ring cable connection
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function		
 removable terminal for auxiliary and control circuit 		No
Tightening torque		
• for ring cable lug		
— for main contacts	N·m	1.2 0.8
— for auxiliary contacts	N·m	1.2 0.8
Outer diameter of the usable ring cable lug maximum	mm	7.5
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

Test Certificates









Special Test Certificate

Type Test Certificates/Test Report

Shipping Approval













Shipping Approval

other





Environmental Confirmations

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

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20110AA40

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

http://support.automation.siemens.com/WW/view/en/3RV20110AA40/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=3RV20110AA40&lang=en

3RV2011-0AA40



