SIEMENS

Data sheet 3RV2011-1GA40



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 4.5...6.3A, N-RELEASE 82A 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	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		S2
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

Α	4.5 6.3
V	690
V	690
Hz	50 60
Α	6.3
Α	6.3
,	
W	1 500
W	2 200
W	3 000
W	4 000
1/h	15
	0
	0
	0
	Yes
	CLASS 10
	thermal
kΑ	100
	100
	100
	4
kA	100
	100
	100
KΔ	
kA	6
	V V Hz A

UL/CSA ratings:		
Response value current of the instantaneous short- circuit release	Α	82
 with 3 current paths in series for DC at 450 V Rated value 	kA	10
 with 2 current paths in series for DC at 300 V Rated value 	kA	10

UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	6.3
• at 600 V Rated value	Α	6.3
yielded mechanical performance [hp]		
● for single-phase AC motor at 110/120 V Rated value	metric hp	0.25
 for single-phase AC motor at 230 V Rated value 	metric hp	0.5
 for three-phase AC motor at 200/208 V Rated value 	metric hp	1
 for three-phase AC motor at 220/230 V Rated value 	metric hp	1.5
 for three-phase AC motor at 460/480 V Rated value 	metric hp	3
• for three-phase AC motor at 575/600 V Rated value	metric hp	5

Short-circuit:	
Product function Short circuit protection	Yes
Design of the short-circuit trip	magnetic
Design of the fuse link for IT network for short-circuit	
protection of the main circuit	
● at 400 V	gL/gG 50 A
● at 500 V	gL/gG 40 A
● at 690 V	gL/gG 35 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		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
D: 1		

Display:

Display version

• for switching status Handle

Certificates/ approvals:

General Product Approval

Declaration of Conformity

Test Certificates

(W)



FAI



Special Test Certificate

Test Shipping Approval Certificates

Type Test
Certificates/Test
Report





KTL



other



GL



LRS

Shipping Approval







Environmental Confirmations

Confirmation



other

other

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=3RV20111GA40

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV20111GA40/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=3RV20111GA40&lang=en







