# **SIEMENS**

### Data sheet

## 3RV2011-1GA10-0BA0



SPECIAL TYPE CIRCUIT BREAKER SIZE S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 4.5...6.3A, SHORT-CIRCUIT RELEASE 82A SCREW TERMINAL, STANDARD SWITCHING CAPACITY AMBIENT TEMPERATURE -50 DEGREES C 500 SWITCHING CYCLES

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:		
Active power loss total typical	W	6
Insulation voltage		
<ul> <li>with degree of pollution 3 Rated value</li> </ul>	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)		
<ul> <li>of the main contacts typical</li> </ul>		500
<ul> <li>of the auxiliary contacts typical</li> </ul>		500
Electrical endurance (switching cycles)		
• typical		100 000
Temperature compensation	°C	-20 <b>+</b> 60
Size of contactor can be combined company-specific		S2
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

	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
10 (	
kA	100
	100
	100
	6
NA	·
	V Hz A  W W W W

UL/CSA ratings:		
Response value current of the instantaneous short- circuit release	Α	82
<ul> <li>with 3 current paths in series for DC at 450 V</li> <li>Rated value</li> </ul>	kA	10
<ul> <li>with 2 current paths in series for DC at 300 V</li> <li>Rated value</li> </ul>	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]		
<ul> <li>for single-phase AC motor at 110/120 V Rated value</li> </ul>	metric hp	0.25
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	0.5
<ul> <li>for three-phase AC motor at 200/208 V Rated value</li> </ul>	metric hp	1
<ul> <li>for three-phase AC motor at 220/230 V Rated value</li> </ul>	metric hp	1.5
<ul> <li>for three-phase AC motor at 460/480 V Rated value</li> </ul>	metric hp	3
• for three-phase AC motor at 575/600 V Rated value	metric hp	5

Yes
magnetic
gL/gG 50 A
gL/gG 40 A
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		
<ul><li>with side-by-side mounting</li></ul>		
— 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
Arrangement of electrical connectors for main current		Top and bottom
circuit		
Product function		
<ul> <li>removable terminal for auxiliary and control</li> </ul>		No
circuit		
Type of connectable conductor cross-section		
• for main contacts		
<ul><li>— single or multi-stranded</li></ul>		2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG conductors for main contacts</li> </ul>		2x (18 14), 2x 12
Tightening torque		
<ul> <li>for main contacts with screw-type terminals</li> </ul>	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

Safety related data:		
B10 value with high demand rate acc. to SN 31920		50 000
Proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	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		
<ul><li>during operation</li></ul>	°C	-50 <b>+</b> 60
during storage	°C	-50 <b>+</b> 80
during transport	°C	-50 <b>+</b> 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 Declaration of the Compliance with the order

Type Test
Certificates/Test
Report

### **Shipping Approval**









GL





**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=3RV20111GA100BA0

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

http://support.automation.siemens.com/WW/view/en/3RV20111GA100BA0/all



