# **SIEMENS**

Data sheet 3RV2011-4AA40



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 10...16A, N-RELEASE 208A, RING CABLE LUG CONNECTION, STANDARD SW. CAPACITY

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

Conoral technical data:		
General technical data:	10/	7
Active power loss total typical	W	7
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>		100 000
<ul> <li>of the auxiliary contacts typical</li> </ul>		100 000
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		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

Adjustable response value current of the current-	Α	10 16
dependent overload release  Operating voltage		
Rated value	V	690
	V	690
at AC-3 Rated value maximum		
Operating frequency Rated value	Hz A	50 60 16
Operating current Rated value  Operating current	- "	10
• at AC-3		
	Α	16
— at 400 V Rated value  Operating power	- ^	10
• at AC-3	W	4 000
— at 230 V Rated value	W	7 500
— at 400 V Rated value		
— at 500 V Rated value	W	7 500
— at 690 V Rated value	W	11 000
Operating frequency	4.0	
● 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	1- 4	400
at 240 V Rated value	kA	100
● at 400 V Rated value	kA	30
● at 500 V Rated value	kA	5
at 690 V Rated value	kA	2
Maximum short-circuit current breaking capacity (Icu)		400
with AC at 240 V Rated value	kA	100
• with AC at 400 V Rated value	kA	55
• with AC at 500 V Rated value	kA	10
• with AC at 690 V Rated value	kA	4
Breaking capacity short-circuit current (Icn)		
<ul> <li>with 1 current path for DC at 150 V Rated value</li> </ul>	kA	10

kA kA A	10 10 208
A	208
Α	16
Α	16
metric hp	1
metric hp	2
metric hp	3
metric hp	5
metric hp	10
	Yes
	magnetic
	gL/gG 80 A
	gL/gG 63 A
	gL/gG 50 A
	gL/gG 40 A
	any
	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
mm	97
mm	45
mm	96
mm	0
mm	0
mm mm	0 50
	metric hp

— 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
<ul> <li>for auxiliary and control current circuit</li> </ul>		ring cable connection
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function		
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>		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
<ul> <li>of the auxiliary and control contacts</li> </ul>		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	-20 <b>+</b> 60
during storage	°C	-50 <b>+</b> 80
<ul> <li>during transport</li> </ul>	°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 Type Test
Certificates/Test
Report

#### **Shipping Approval**













### **Shipping Approval**

other





Confirmation

Environmental Confirmations



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=3RV20114AA40

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

http://support.automation.siemens.com/WW/view/en/3RV20114AA40/all



