SIEMENS

Data sheet

3RV2011-1EA10-0BA0



SPECIAL TYPE CIRCUIT BREAKER SIZE S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 2.8...4A, SHORT-CIRCUIT RELEASE 52A, 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		
 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 		500
 of the auxiliary contacts typical 		500
Electrical endurance (switching cycles)		
• typical		100 000
Temperature compensation	°C	-20 +60
Size of contactor can be combined company-specific		S0
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

lain circuit:		
Number of poles for main current circuit	3	
Number of poles for main current circuit	3	

Adjustable response value current of the current-	Α	2.8 4
dependent overload release		2.0 1
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	4
Operating current		
• at AC-3		
— at 400 V Rated value	Α	4
Operating power		
● at AC-3		
— at 230 V Rated value	W	750
— at 400 V Rated value	W	1 500
— at 500 V Rated value	W	2 200
— at 690 V Rated value	W	3 000
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	lεA	100
• at 240 V Rated value	kA kA	100
• at 400 V Rated value	kA kA	100
• at 500 V Rated value	kA	100
• at 690 V Rated value	kA	4
Maximum short-circuit current breaking capacity (Icu)	I. A	400
• with AC at 240 V Rated value	kA 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	6
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 Rated value 	kA	10
Response value current of the instantaneous short- circuit release	Α	52
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	4
• at 600 V Rated value	Α	4
yielded mechanical performance [hp]	_	
 for single-phase AC motor at 110/120 V Rated value 	metric hp	0.125
 for single-phase AC motor at 230 V Rated value 	metric hp	0.333
 for three-phase AC motor at 200/208 V Rated value 	metric hp	0.75
 for three-phase AC motor at 220/230 V Rated value 	metric hp	0.75
 for three-phase AC motor at 460/480 V Rated value 	metric hp	2
• for three-phase AC motor at 575/600 V Rated value	metric hp	3
Short-circuit:		
Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic

Yes
magnetic
gL/gG 32 A
gL/gG 32 A
gL/gG 25 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		screw-type terminals
Arrangement of electrical connectors for main current		Top and bottom
circuit		
Product function		
 removable terminal for auxiliary and control 		No
circuit		
Type of connectable conductor cross-section		
• for main contacts		
 single or multi-stranded 		2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for main contacts 		2x (18 14), 2x 12
Tightening torque		
 for main contacts with screw-type terminals 	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		
 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
A 1.2 o 100	_	
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
during operation	°C	-50 + 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 Test Certificates
Conformity







Type Test
Certificates/Test
Report

Special Test Certificate Declaration of the Compliance with the order

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=3RV20111EA100BA0

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

http://support.automation.siemens.com/WW/view/en/3RV20111EA100BA0/all



