SIEMENS

Data sheet 3RV2111-1FA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, W. OVERLOAD RELAY FUNCTION A-RELEASE 3.5...5A, N-RELEASE 65A, SCREW 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		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

Main circuit:	
Number of poles for main current circuit	3

Adjustable response value current of the current- dependent overload release	Α	3.5 5
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	5
Operating current		
• at AC-3		
— at 400 V Rated value	Α	5
Operating power		
• at AC-3		
— at 230 V Rated value	W	1 100
— at 400 V Rated value	W	2 200
— at 500 V Rated value	W	2 200
— at 690 V Rated value	W	4 000
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
Design of the auxiliary switch		laterally

Number of CO contacts			
• for auxiliary contacts		0	
Product expansion Auxiliary switch		Yes	
Design of the auxiliary switch		laterally	
Operating current of the auxiliary contacts at AC-15			
● at 24 V	Α	1.5	
● at 230 V	Α	1.5	
Operating current of the auxiliary contacts at DC-13			
• at 24 V	Α	1	
Protective and monitoring functions:			
Trip class		CLASS 10	

Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker		thermal
Operational short-circuit current breaking capacity (Ics) with AC		
● 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	4
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	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	65
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	Α	5
• at 600 V Rated value	Α	5
yielded mechanical performance [hp]		
 for single-phase AC motor at 110/120 V Rated value 	metric hp	0.167
 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
 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	3
Contact rating of the auxiliary contacts acc. to UL		C600 / R300
Short-circuit:		
Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic
Design of the fuse link		
 for short-circuit protection of the auxiliary switch required 		fuse gL/gG: 6 A, quick: 10 A
Design of the fuse link for IT network for short-circuit		
protection of the main circuit		
● at 400 V		gL/gG 32 A
at 500 Vat 690 V		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	65
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:		

Connections/ Terminals:	
Type of electrical connection	
• for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Product function	
 removable terminal for auxiliary and control circuit 	No
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
 for auxiliary contacts 	
 single or multi-stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)

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
 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
Ambient temperature	_	
·	°C	-20 +60
during operation	°C	-50 +80
during storage	°C	-50 +80
during transport		
Relative humidity during operation	%	10 95
Display:		
Display version		
 for switching status 		Handle
3		

General Product Approval

Declaration of Conformity

Test Certificates





KTL





Type Test Certificates/Test Report

Test Certificates **Shipping Approval**

Special Test Certificate









GL



Shipping Approval

other







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

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