SIEMENS

Data sheet

3RV2411-1AA10



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROT. A-RELEASE1.1...1.6 A, N-RELEASE 33A 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
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Equipment marking		
• acc. to DIN EN 81346-2		Q
Main circuit:		
Number of poles for main current circuit		3

Number of poles for main current circuit		3
Adjustable response value current of the current-	А	1.1 1.6
dependent overload release		
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	A	1.6
Operating current		
• at AC-3		
— at 400 V Rated value	А	1.6
Operating power		
• at AC-3		
— at 230 V Rated value	W	250
— at 400 V Rated value	W	550
— at 500 V Rated value	W	750
— at 690 V Rated value	W	1 100
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		
• 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	100
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	100
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	A	33
JL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	А	1.6
• at 600 V Rated value	А	1.6
yielded mechanical performance [hp]		
 for single-phase AC motor at 230 V Rated value 	metric hp	0.1
 for three-phase AC motor at 460/480 V Rated value 	metric hp	0.75
 for three-phase AC motor at 575/600 V Rated value 	metric hp	0.75
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 500 V		gL/gG 20 A
● at 690 V		gL/gG 16 A
nstallation/ 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		
	mm	0
 for grounded parts 	mm mm	0 0
 for grounded parts forwards 		
 for grounded parts forwards Backwards 	mm	0

• 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 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		
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		
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 transpor 	t		°C	-50 +80		
Relative humidity du	ring operation		%	10 95		
lisplay:						
Display version						
 for switching st 	atus			Handle		
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Industry Mall (Online ordering system)

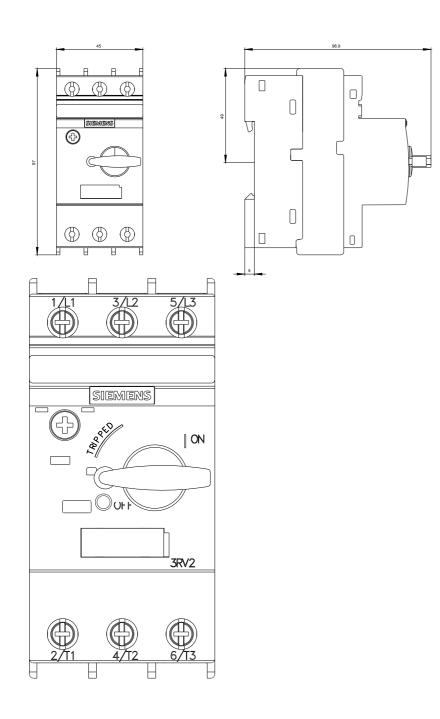
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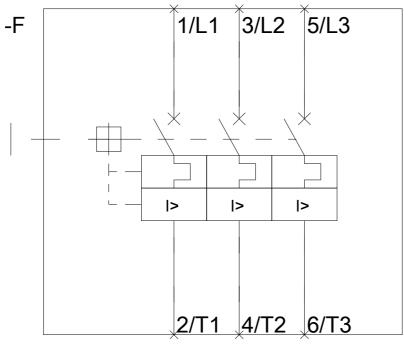
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV24111AA10&lang=en





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