SIEMENS

Data sheet

3RV1011-1EA15

CIRCUIT-BREAKER SIZE S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 2.8...4A, N-REL. 52A, SCREW TERMINAL, STANDARD SWITCHING CAPACITY, W. TRANSV. AUX. SWITCH 1NO+1NC



Figure similar

Product brand name	SIRIUS
Product designation	Circuit breaker
Design of the product	For motor protection
Product type designation	3RV1
General technical data	
Size of the circuit-breaker	S00
Size of contactor can be combined company-specific	S00
Product extension	
Auxiliary switch	Yes
Power loss [W] total typical	6 W
Insulation voltage with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 in networks with grounded star point between main and auxiliary circuit 	400 V
 in networks with grounded star point between main and auxiliary circuit 	400 V

Protection class IP	
• on the front	IP20
• of the terminal	IP00
Mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
Electrical endurance (switching cycles)	
• typical	100 000
Type of protection	Increased safety
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	Q
Ambient conditions	
Installation altitude at height above sea level	
● maximum	2 000 m
Ambient temperature	
 during operation 	-20 +60 °C
 during storage 	-50 +80 °C
 during transport 	-50 +80 °C
Temperature compensation	-20 +60 °C
Relative humidity during operation	10 95 %
Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current- dependent overload release	2.8 4 A
Operating voltage	
rated value	690 V
 at AC-3 rated value maximum 	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	4 A
Operating current	
• at AC-3	
— at 400 V rated value	4 A
Operating power	
• at AC-3	
— at 230 V rated value	750 W
— at 400 V rated value	1 500 W
— at 500 V rated value	2 200 W
— at 690 V rated value	3 000 W
Operating frequency	
• at AC-3 maximum	15 1/h

transverse
1
1
1
1
0
2 A
2 A
2 A
2 A
0.5 A
1 A
0.15 A
No
Yes
CLASS 10
thermal
100 000 A
100 000 A
3 000 A
2 000 A
100 kA
100 kA
3 kA
2 kA
10 kA
10 kA
10 kA
10 kA

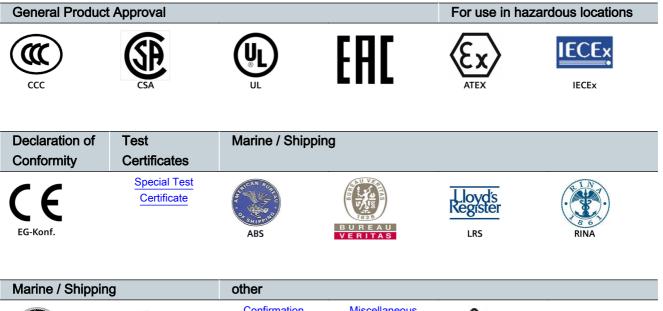
• of instantaneous short-circuit trip unit

52 A

 of instantaneous short-circuit trip unit 	52 A	
UL/CSA ratings		
Full-load current (FLA) for three-phase AC motor		
• at 480 V rated value	4 A	
• at 600 V rated value	4 A	
Yielded mechanical performance [hp]		
 for single-phase AC motor 		
— at 110/120 V rated value	0.125 hp	
— at 230 V rated value	0.33 hp	
 for three-phase AC motor 		
— at 200/208 V rated value	0.75 hp	
— at 220/230 V rated value	0.75 hp	
— at 460/480 V rated value	2 hp	
— at 575/600 V rated value	3 hp	
Contact rating of auxiliary contacts according to UL	C300 / R300	
Short-circuit protection		
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	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current	
required	lk < 400 A)	
Design of the fuse link for IT network for short-circuit		
 protection of the main circuit at 240 V 	none required	
	gL/gG 40 A	
• at 400 V	gL/gG 35 A	
• at 500 V		
• at 690 V	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	90 mm	
Width	45 mm	
Depth	81 mm	
Connections/Terminals		
Product function		
 removable terminal for auxiliary and control circuit 	No	
Type of electrical connection		
for main current circuit	screw-type terminals	
 for auxiliary and control current circuit 	screw-type terminals	
- In advinary and control current circuit		

Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-sections	
 for main contacts 	
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
Tightening torque	
 for main contacts with screw-type terminals 	0.8 1.2 N·m
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m
Size of the screwdriver tip	Pozidriv 2
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 	5 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	50 %
 with high demand rate acc. to SN 31920 	50 %
Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	50 FIT
Display version	
 for switching status 	Rocker switch
Certificates/approvals	

Certificates/approvals





Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

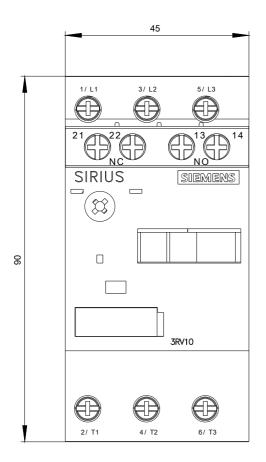
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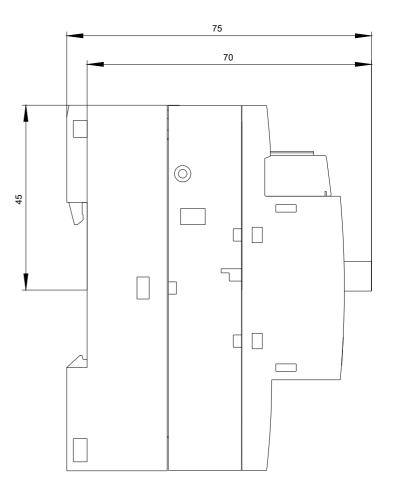
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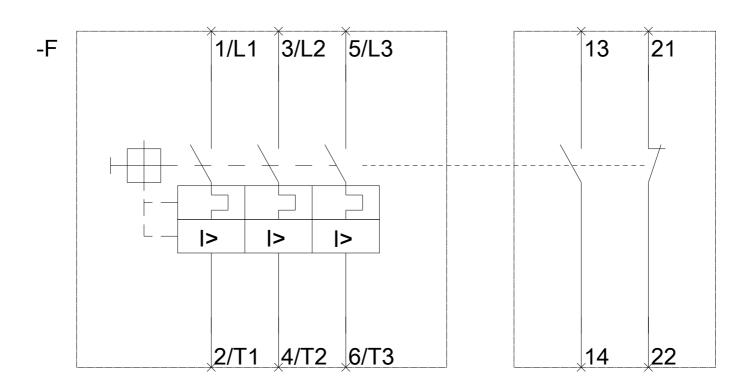
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1EA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1EA15&lang=en







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