SIEMENS

Data sheet 3RV1011-1AA10

CIRCUIT-BREAKER SIZE S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.1.1...1.6A, N-REL. 21A, SCREW TERMINAL, STANDARD SWITCHING CAPACITY



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	690 V
value	
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
• in networks with grounded star point between	400 V
main and auxiliary circuit	
 in networks with grounded star point between 	400 V
main and auxiliary circuit	

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	
Ambient temperature	
 during operation 	-20 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
Temperature compensation	-20 +60 °C
Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current- dependent overload release	1.1 1.6 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	1.6 A
Operating current	
• at AC-3	
— at 400 V rated value	1.6 A
Operating power	
• at AC-3	
— at 230 V rated value	250 W
— at 400 V rated value	550 W
— at 500 V rated value	750 W
— at 690 V rated value	750 W
Operating frequency	
• at AC-3 maximum	15 1/h
Auxiliary circuit	
Number of CO contacts	
for auxiliary contacts	0
Protective and monitoring functions	

Product function	
Ground fault detection	No
Phase failure detection	Yes
Trip class	CLASS 10
Design of the overload release	thermal
Operational short-circuit current breaking capacity	uromai
(Ics) at AC	
at 240 V rated value	100 000 A
● at 400 V rated value	100 000 A
● at 500 V rated value	100 000 A
• at 690 V rated value	2 000 A
Maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	100 kA
• at AC at 500 V rated value	100 kA
• at AC at 690 V rated value	2 kA
Breaking capacity short-circuit current (Icn)	
• at 1 current path at DC at 150 V rated value	10 kA
 with 2 current paths in series at DC at 300 V rated value 	10 kA
 with 3 current paths in series at DC at 450 V rated value 	10 kA
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	1.6 A
• at 600 V rated value	1.6 A
Yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 230 V rated value	0.1 hp
• for three-phase AC motor	
— at 460/480 V rated value	0.75 hp
— at 575/600 V rated value	0.75 hp
Short-circuit protection	
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 240 V	none required
● at 400 V	gL/gG 20 A
● at 500 V	gL/gG 20 A
● at 690 V	gL/gG 20 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	90 mm	
Width	45 mm	
Depth	81 mm	
Connections/Terminals		
Product function		
 removable terminal for auxiliary and control 	No	
circuit		
Type of electrical connection		
for main current circuit	screw-type terminals	
Arrangement of electrical connectors for main current	Top and bottom	
circuit		
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	
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

General Product Approval















IECEx

Dec	laration	of
Con	formity	

Test Certificates Marine / Shipping













other

Marine / Shipping









Miscellaneous

Environmental Confirmations

other

Confirmation



Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1011-1AA10

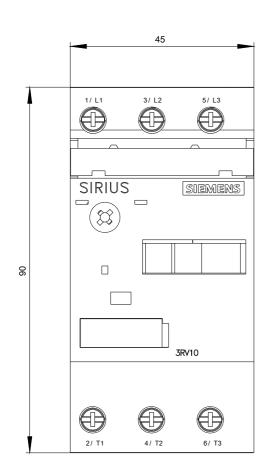
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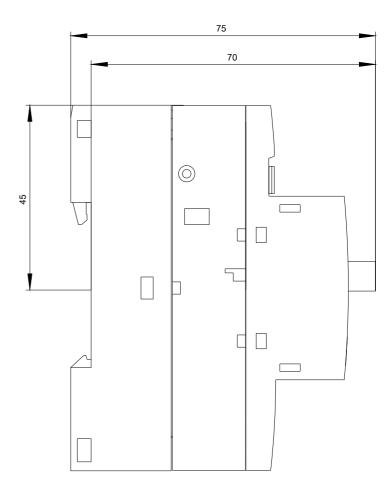
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1AA10

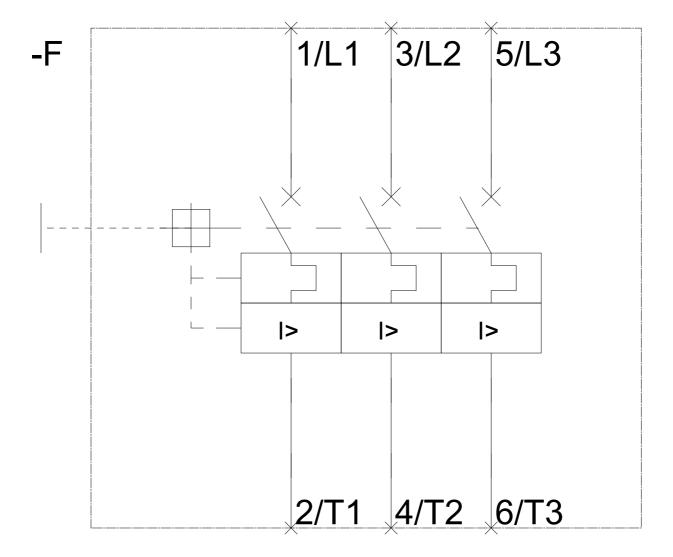
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1AA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1AA10&lang=en







last modified: 08/07/2017