SIEMENS

Data sheet 3RV1011-0FA10

CIRCUIT-BREAKER SIZE S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.0.35...0.5A, N-REL.6.5A SCREW TERMINAL, STANDARD SWITCHING CAPACITY



Figure similar

product brandname	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	5 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	0.35 0.5 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	0.5 A
Operating current	
• at AC-3	
— at 400 V rated value	0.5 A
Operating power	
• at AC-3	
— at 230 V rated value	60 W
— at 400 V rated value	120 W
— at 500 V rated value	180 W
— at 690 V rated value	250 W
Operating frequency	
• at AC-3 maximum	15 1/h
Auxiliary circuit	
Number of CO contacts	
for auxiliary contacts	0
Protective and monitoring functions	

Trip class	CLASS 10
Design of the overload release	thermal
Operational short-circuit current breaking capacity	
(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	100 000 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	100 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	0.5 A
• at 600 V rated value	0.5 A
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	None required
● at 500 V	None required
● at 690 V	gL/gG 4 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	
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	
Safety related data		
B10 value		

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 Shipping Approval



<u>spezielle</u> <u>Prüfbescheinigunge</u> n





other





Shipping Approval





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Bestätigungen

Umweltbestätigung

other



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=3RV1011-0FA10

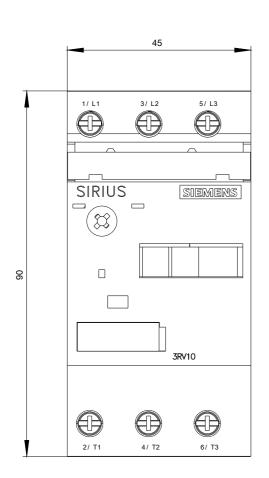
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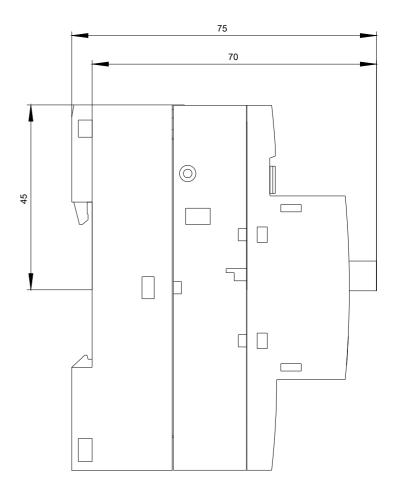
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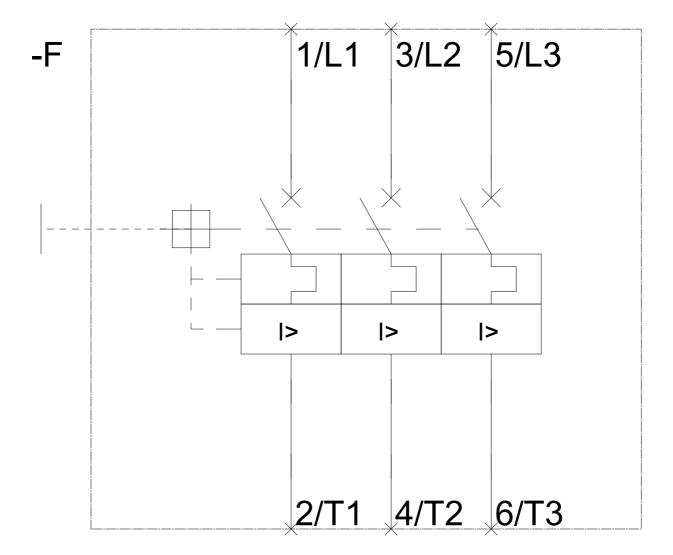
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0FA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0FA10&lang=en







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