SIEMENS

Data sheet 3RV1011-0AA15



CIRCUIT-BREAKER, SIZE S00, FOR MOTOR PROTECTION, CLASS 10, A REL.0.11...0.16A, N REL.2.1A SCREW CONNECTION, STANDARD BREAKING CAPACITY, W. TRANSV. AUX. SWITCH 1NO/1NC

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-	0.11 0.16 A
dependent overload release	
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	0.16 A
Operating current	
• at AC-3	0.40.4
— at 400 V rated value	0.16 A
Operating power	
• at AC-3	25 W
— at 230 V rated value	25 W 40 W
— at 400 V rated value	
— at 500 V rated value	60 W
— at 690 V rated value	60 W
Operating frequency	15 1/b
at AC-3 maximum	15 1/h
Auxiliary circuit	
Design of the auxiliary switch	transverse
Number of NC contacts	
for auxiliary contacts	1

— Note	1
Number of NO contacts	
 for auxiliary contacts 	1
— Note	1
Number of CO contacts	
 for auxiliary contacts 	0
Operating current of auxiliary contacts at AC-15	
● at 24 V	2 A
● at 110 V	2 A
● at 120 V	2 A
● at 125 V	2 A
● at 230 V	0.5 A
Operating current of auxiliary contacts at DC-13	
● at 24 V	1 A
● at 60 V	0.15 A
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	10 kA
rated value	
• with 3 current paths in series at DC at 450 V	10 kA
rated value	
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
● at 480 V rated value	0.16 A
● at 600 V rated value	0.16 A

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 required 	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)	
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	None required	
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 circuit 	No	
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	
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		
rype or connectable conductor cross-sections		
for auxiliary contacts		
••	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)	

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 %

0.8 ... 1.2 N·m

0.8 ... 1.2 N·m

for main contacts with screw-type terminalsfor auxiliary contacts with screw-type terminals

• 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

For use in hazardous locations













IECEx

Dec	larat	ion	of
Con	form	itv	

Test Certificates

Shipping Approval













LRS

Shipping Approval







other

Umweltbestätigung Bestätigungen

sonstig

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=3RV1011-0AA15

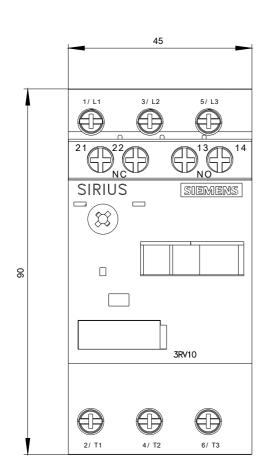
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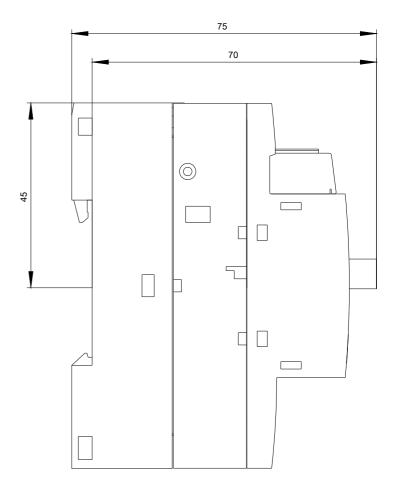
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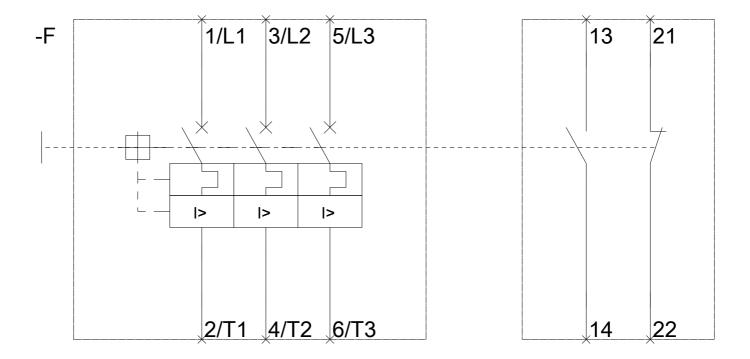
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0AA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0AA15&lang=en







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