SIEMENS

Data sheet

3RU2116-0HB0



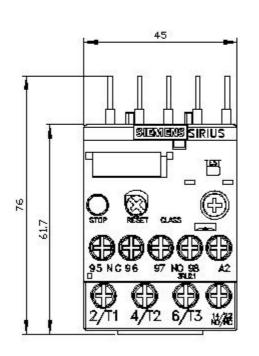
Overload relay 0.55...0.80 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

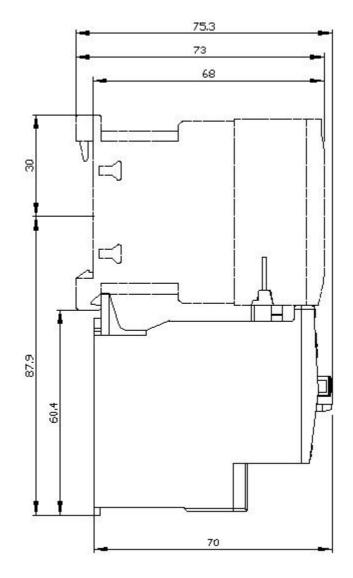
product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	
size of overload relay	S00
size of contactor can be combined company-specific	S00
power loss [W] for rated value of the current at AC in hot operating state	4.8 W
per pole	1.6 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation in networks with grounded star point	
 between auxiliary and auxiliary circuit 	440 V
 between auxiliary and auxiliary circuit 	440 V
 between main and auxiliary circuit 	440 V
 between main and auxiliary circuit 	440 V
shock resistance acc. to IEC 60068-2-27	8g / 11 ms
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 98 ATEX G 001
reference code acc. to IEC 81346-2	F
Substance Prohibitance (Date)	01.10.2009 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-40 +70 °C
 during storage 	-55 +80 °C
during transport	-55 +80 °C
temperature compensation	-40 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	0.55 0.8 A
 operating voltage rated value 	690 V

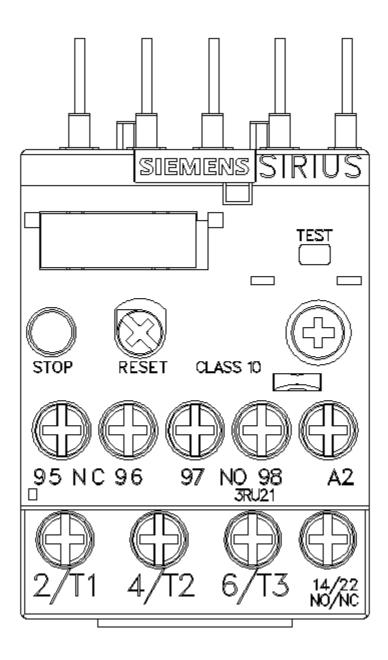
operating hequins(y relativative 60 80 80 80 operating power at AC-3 0.8 A 0.9 A 0.9 A operating power at AC-3 0.8 A 0.25 kW 0.3 KW at 600 V rated value 0.37 kW 0.37 kW 0.37 kW Availlary circuit Hegrated 1 0.0 kW 0.37 kW design of the auxiliary contacts 1 1 0.0 kW 0.37 kW number of NC contacts for auxiliary contacts 1 1 1 0.0 kW 0.3 A 0.0 kW 0.0	 at AC-3 rated value maximum 	690 V
operation governer at AC-3 0.8 A operating power IA C-3 0.15 kW • at 400 V rated value 0.25 kW • at 500 V rated value 0.27 kW Auxiliary circuit integrated design of the auxiliary writch integrated number of NC contacts for auxiliary contacts 1 • note for contactor disconnection number of NC contacts for auxiliary contacts 0 • note for message "Tripped" operational current of auxiliary contacts at AC-15 0 • at 20 V 3A • at 12 V 3A • at 20 V 3A • at 20 V 3A • at 20 V 2A • at 20 V 0.3A • at 20 V 0.22 A • at 20 V 0.3A • at 20 V		
operating power at AC-3 0.18 kW 0.18 kW • at 400 V rade value 0.28 kW 0.28 kW • at 500 V rade value 0.27 kW Availary decimit Integrated design of the auxiliary switch Integrated number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 0 • at 10 V 3 A • at 125 V 3 A • at 120 V 0 Contacts for auxiliary contacts at DC-13 • at 20 V 0.3 A • at 120 V 0.3 A • at 20 V 0.3 A • at 120 V 0.3 A • at 20 V rated value 0.8 A fulload current (FLA)		
• at 400 V rated value 0.18 kW • at 630 V rated value 0.37 kW Auxiliary circuit 0.37 kW design of the auxiliary strich Integrated number of NC contacts for auxiliary contacts 1 • note for contactor disconnection number of NC contacts for auxiliary contacts 1 • note for message "Tripped" number of CO contacts for auxiliary contacts at AC-15 3.4 • at 24 V 3.4 • at 125 V 3.4 • at 24 V 3.4 • at 20 V 2.4 • at 20 V 3.4 • at 20 V 3.4 • at 20 V 2.4 • at 20 V 2.4 • at 20 V 2.4 • at 20 V 0.11 A contacts rating of auxiliary contacts at DC-13 0.22 A • at 10 V 0.22 A • at 20 V 0.22 A • at 30 V rated value 0.8 A		
• at 800 V rated value 0.25 kW Auxiliary circuit Integrated design of the auxiliary switch Integrated number of KC contacts for auxiliary contacts 1 • note for contactor for auxiliary contacts number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 3 A • at 120 V 3 A • at 24 W 2 A • at 400 V 2 A • at 400 V 0.3 A • at 220 V 2 A • at 800 V 0.3 A • at 80 V 0.3 A • at 220 V 0.11 A contact rating of auxiliary contacts according to UL B800 / R300 Productiva ad monitoring functions Thermal Thick add current (FLA) for 3-phase AC motor 0.8 A • at 400 V rated value 0.8 A • at 400 V rated value 0.8 A Dior stactin		0.18 kW
• at 690 V rated value 0.37 kW Auxiliary circuit Integrated number of NC contacts for auxiliary contacts 1 • note for contactor disconnection number of NO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 3A • at 24 V 3A • at 125 V 3A • at 20 V 2A • at 20 V 2A • at 24 V 3A • at 25 V 3A • at 24 V 3A • at 25 V 3A • at 20 V 2A • at 20 V 0.11 A contact rating of auxiliary contacts at DC-13 • • at 20 V 0.11 A contact rating of auxiliary contacts according to UL B00/ R300 Protective and monitoring functions tip class cl ASS 10 tip class full-Gad current (FLA) for 3-phase AC motor • • at 400 V rated value 0.8 A • at 400 V rated value 0.8 A • at 400 V rated value 0.8 A • at 400 V rated value		
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• note for contactor disconnection number of OC contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 0 • at 24 V 3A • at 110 V 3A • at 120 V 3A • at 120 V 3A • at 120 V 3A • at 24 V 3A • at 25 V 2A • at 26 V 2A • at 26 V 0.3 A • at 27 V 0.3 A • at 20 V 0.22 A • at 20 V 0.11 A contact rating of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions Ithermai UUCSA ratings Class 10 full-ood current (FLA) for 3-phase AC motor 0.8 A • at 400 V rated value 0		
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• at 110 V 3 A • at 125 V 3 A • at 125 V 3 A • at 230 V 2 A • at 240 V 1 A operational current of auxiliary contacts at DC-13 2 A • at 260 V 0 3 A • at 27 V 0 3 A • at 28 V 0 2 A • at 10 V 0 2 A • at 28 V 0 2 A • at 28 V 0 2 A • at 22 V 0 11 A contact rating of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions title class title class CLASS 10 design of the overload release thermal UL/CSA ratings CLASS 10 total 480 V rated value 0.8 A • at 800 V rated value 0.8 A • at 600 V rated value 0.8 A • at 600 V rated value 0.8 A • at 600 V rated value 0.8 A • for brue link fuse gG: 6 A, quick: 10 A required required Installatori mounting position any fastening method Contactor mounting height 76 mm vidth 45 mm depth 70 mm connections/ terminals screw-ty		2.4
• at 120 V 3 A • at 125 V 3 A • at 230 V 2 A • at 400 V 1 A operational current of auxiliary contacts at DC-13 2 A • at 60 V 0 A • at 72 V 2 A • at 72 V 0 A • at 800 V rated value 0 A • at 800 V rated value 0 A • at 800 V rated value 0 A • at 600 V rated value <th></th> <th></th>		
• at 125 V 3 A • at 230 V 2 A • at 240 V 1 A operational current of auxiliary contacts at DC-13 2 A • at 24 V 2 A • at 26 V 2 A • at 27 V 2 A • at 26 V 2 A • at 27 V 2 A • at 28 V 0.3 A • at 22 V 0.22 A • at 22 V 0.22 A • at 22 V 0.22 A • at 22 V 0.11 A contact rating of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions thirp class design of the overload release CLASS 10 thermal UL/CSA ratings full-load current (FLA) for 3-phase AC motor • • at 480 V rated value 0.8 A • Short-circuit protection Gesign of the fuse link • for short-circuit protection of the auxiliary switch required fuse gG: 6 A, quick: 10 A Installation/ mounting/ dimensions any mounting position any fastening method Contactor mounting height 70 mm		
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 at 110 V at 225 V at 220 V contact rating of auxiliary contacts according to UL B800 / R300 Protective and monitoring functions trip class CLASS 10 design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 0.8 A at 600 V rated value 0.8 A Short-circuit protection of the auxiliary switch required fuse gG: 6 A, quick: 10 A fastening method fastening method for short-circuit protection of the auxiliary switch required fastening method for mm width 45 mm 76 mm width 45 mm 70 mm connactions/ Terminals product component removable terminal for auxiliary and control circuit for main control circuit arrangement of electrical connectors for main current circuit arrangement of		
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• at 600 V rated value 0.8 Å Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required fuse gG: 6 Å, quick: 10 Å Installation/ mounting/ dimensions any fastening method Contactor mounting height 76 mm width 45 mm depth 70 mm Connections/ Terminals No product component removable terminal for auxiliary and control circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • for main contacts - solid or stranded 2x (0,5 1,5 mm²), 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), 2x 4 mm²	design of the overload release UL/CSA ratings	
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width 45 mm depth 70 mm Connections/ Terminals 70 mm product component removable terminal for auxiliary and control circuit No type of electrical connection screw-type terminals • 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 - solid or stranded 2x (0,5 1,5 mm²), 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)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	thermal 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A
depth 70 mm Connections/ Terminals Volume product component removable terminal for auxiliary and control circuit No type of electrical connection screw-type terminals • 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 - solid or stranded 2x (0,5 1,5 mm²), 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)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	thermal 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any
Connections/ Terminals product component removable terminal for auxiliary and control circuit No type of electrical connection screw-type terminals • 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 - solid or stranded 2x (0,5 1,5 mm²), 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)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	thermal 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting
product component removable terminal for auxiliary and control circuit No type of electrical connection screw-type terminals • 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 - solid or stranded 2x (0,5 1,5 mm²), 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)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm
control circuit type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for main contacts - solid or stranded 2x (0,5 1,5 mm²), 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)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm
 for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts – solid or stranded – finely stranded with core end processing screw-type terminals screw-type terminals Top and bottom Top and bottom Top and bottom 	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth	thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm
 for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts – solid or stranded – finely stranded with core end processing screw-type terminals screw-type terminals Top and bottom Top and bottom Top and bottom 	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and	thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm
• for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for main contacts • for main contacts 2x (0,5 1,5 mm²), 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)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit	thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm
arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No No
 for main contacts solid or stranded finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No No screw-type terminals
 for main contacts solid or stranded finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit	thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No Screw-type terminals screw-type terminals
- finely stranded with core end processing 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit arrangement of electrical connectors for main current circuit 	thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No Screw-type terminals screw-type terminals
- finely stranded with core end processing 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No Screw-type terminals screw-type terminals
	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts	thermal 0.8 A 0.8 A 0.8 A 1.8 A 1.8 A 1.9 fuse gG: 6 A, quick: 10 A 1.9 any Contactor mounting 76 mm 45 mm 70 mm 1.9 No Screw-type terminals screw-type terminals Top and bottom 1.9
	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded	thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No screw-type terminals screw-type terminals Top and bottom 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²

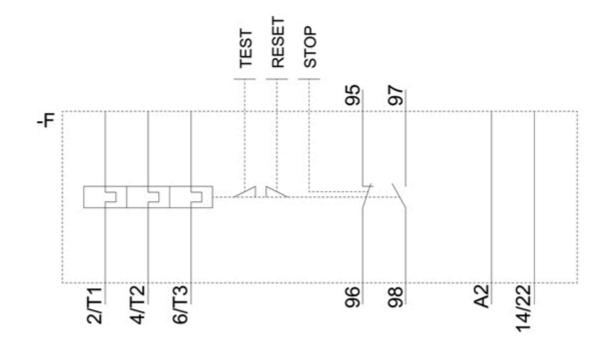
 finely stranded with core end processing at AWG cables for auxiliary contacts 	2x (0,5 1,5 mm ²), 2x (0,7 2x (0.5 1.5 mm ²), 2x (0.7 2x (20 16), 2x (18 14)			
tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals	0.8 1.2 N·m 0.8 1.2 N·m			
design of screwdriver shaft	Diameter 5 6 mm			
size of the screwdriver tip	Pozidriv PZ 2			
design of the thread of the connection screw	MO			
for main contacts	M3 M3			
of the auxiliary and control contacts	IVI3			
Safety related data				
failure rate [FIT] with low demand rate acc. to SN 31920	50 FIT			
MTTF with high demand rate		2 280 y		
T1 value for proof test interval or service life acc. to IEC 61508	20 у			
protection class IP on the front acc. to IEC 60529	IP20			
touch protection on the front acc. to IEC 60529	finger-safe, for vertical conta	act from the front		
Display				
display version for switching status	Slide switch			
Certificates/ approvals				
General Product Approval		For use in hazardo	ous locations	
Declaration of				
Test Certificates Type Test Certific- ates/Test Report Special Test Certific- ate	Marine / Shipping		Llovds	
Conformity Test Certificates		BUREAU VERITAS	Livs Railway	
Conformity Test Certificates Type Test Certific- ates/Test Report Special Test C ate EG-Konf. Type Test Certific- ates/Test Report Special Test C ate	ertific-	Other	LRS	

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0HB0&objecttype=14&gridview=view1









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