SIEMENS

Data sheet 3RU2116-1FC1



Overload relay 3.5...5.0 A Thermal For motor protection Size S00, Class 10 Stand-alone installation Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal 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	6.6 W
• per pole	2.2 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	3.5 5 A
operating voltage	
rated value	690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz

e at 400 V rated value e at 500 V rated value e at 690 V rated value e at 690 V rated value e at 690 V rated value 4 kW Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts e note number of NO contacts for auxiliary contacts 1 for contactor disconnection number of CO contacts for auxiliary contacts 0 note number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 e at 24 V at 110 V at 120 V at 120 V at 230 V at 230 V at 230 V at 240 V at 400 V 0 Operational current of auxiliary contacts at DC-13 e at 24 V at 60 V at 400 V 0 0.3 A at 110 V 0 0.22 A e at 110 V 0 0.22 A e at 125 V 0 0.22 A e at 120 V 0 0.41 A Contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class CLASS 10 thermal		
a st 400 V rated value	operational current rated value	5 A
# at 500 V rated value	operating power at AC-3	
Auxillary circuit design of the auxiliary ewitch number of NC contacts for auxiliary contacts + note + not	 at 400 V rated value 	1.5 kW
Ausiliary circuit design of the auxiliary switch note note note note note note note note	 at 500 V rated value 	2.2 kW
design of the auxiliary switch number of NC contacts for auxiliary contacts note of NC contacts for auxiliary contacts note of NC contacts for auxiliary contacts note of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts a 12 4 V a 110 V a 12 12 V a 12 12 V a 12 12 V a 12 12 V a 12 15 V a 12 14 V a 13 10 V a 12 15 V a 12 14 V a 13 10 V a 12 15 V a 12 14 V a 13 10 V a 12 15 V b 10 15 V contact rating of auxiliary contacts according to UL b 15 B000/ R300 Contact rating of auxiliary contacts according to UL b 15 CLASS 10 cession of the overload release ULICISA ratings full-load current (FLA) for 3-phase AC motor a 14 15 V a 16 00 V rated value b 16 A b 17 A Short-circuit protection design of the fuse link a 16 00 V rated value b 16 A Short-circuit protection design of the fuse link b 16 re substractional protection design of the fuse link a 16 Overload release ULICISA ratings full-load current (FLA) for 3-phase AC motor a 18 100 V rated value b 18 A Short-circuit protection design of the fuse link a 16 overload release ULICISA ratings full-load current (FLA) for 3-phase AC motor a 18 100 V rated value b 18 A Short-circuit protection design of the fuse link b 19 A Front contacts a 18 00 V rated value b 18 A Short-circuit protection design of the fuse link b 19 A Short-circuit protection design of the fuse link a 100 V rated value b 18 A Short-circuit protection design of the fuse link b 19 A Short-circuit protection of the auxiliary switch required linely stranded with core end processing finely stranded with core end processing a 18 AVG cables for main contacts b 18 (0.5 2.5 mm²) b 1		4 kW
number of NC contacts for auxiliary contacts • note number of OC contacts for auxiliary contacts • note number of OC contacts for auxiliary contacts • note operational current of auxiliary contacts at AC-15 • at 124 V • at 110 V • at 120 V • at 125 V • at 126 V • at 127 V • at 128 V • at 128 V • at 120 V • at 128 V • at 120 V • at 120 V • at 120 V • at 120 V • at 60 V • at 125 V • at 60 V • at 125 V • at 127 V • at 128 V • at 128 V • at 129 V • at 120 V	Auxiliary circuit	
note		integrated
number of CO contacts for auxiliary contacts • note note note for message "Tripped" operational current of auxiliary contacts at AC-15 • at 24 V 3 • at 110 V 3 A • at 120 V 3 A • at 125 V 3 A • at 230 V 1 A • at 125 V 2 A • at 100 V 3 A • at 230 V 2 A • at 100 V 3 A • at 230 V 2 A • at 100 V 3 A • at 220 V 2 A • at 100 V 3 A • at 24 V 2 A • at 10 V 5 A • at 25 V 5 A • at 25 V 5 A • at 25 V 5 A • at 26 V 7 A • at 10	number of NC contacts for auxiliary contacts	1
note for message "Tripped"	• note	for contactor disconnection
operational current of auxiliary contacts at AC-15 • al 24 V • al 110 V • al 120 V • al 120 V • al 230 V • al 400 V operational current of auxiliary contacts at DC-13 • al 230 V • al 400 V operational current of auxiliary contacts at DC-13 • al 24 V • al 60 V • al 110 V • al 125 V • al 126 V • al 126 V • al 220 V • al 120 V • al 126 V • al 220 V • al 220 A • al 126 V • al 220 V • al 220 N • al 220 V • al 200 F SSS 10 deasing of the overload release thermal UL/CSA ratings full-load current (FLA) for 3-phase AC motor • al 480 V rated value • al 600 V roted value • for abort-circuit protection of the auxiliary switch required functional form mounting dimensions mounting position fastening method height viden depth op mounting dimensions product component removable terminal for auxiliary and control circuit vitype of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit - solid or stranded — finely stranded with core end processing — finely stranded with core end	number of NO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15 • at 24 V • at 120 V • at 125 V • at 230 V • at 24 V • at 240 V • at 200 V • at 200 V • at 24 V • at 24 V • at 600 V • at 125 V • at 24 V • at 60 V • at 125 V • at 120 V • at 220 V • at 200 V • at 800 / R300 Protective and monitoring functions trip class CLASS 10 design of the overload release UUCSA 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 • for short-circuit protection of the auxiliary switch required required fastellation/ mounting / dimensions mounting position fastening method height depth depth depth depth depth depth for auxiliary and control circuit vipp of electrical connections e for main current circuit e for main contacts e for main contacts e for main contacts e for connectable conductor cross-sections e for connectable	• note	for message "Tripped"
e at 24 V e at 110 V e at 120 V e at 125 V e at 125 V e at 230 V e at 400 V e at 400 V e at 400 V e at 126 V e at 126 V e at 126 V e at 26 V e at 26 V e at 26 V e at 27 V e at 27 V e at 28 V e at 100 V e at 126 V e at 127 V e at 126 V e at 127 V e at 126 V e at 12	number of CO contacts for auxiliary contacts	0
* at 110 V * at 125 V * at 230 V * at 240 V * at 240 V * at 800 V * at 800 V * at 110 V * at 220 V * at 800 V * at 110 V * at 125 V * at 24 V * at 800 V * at 110 V * at 125 V * at 220 V * at 125 V * at 220 V * at 125 V * at 220 V * at 220 V * at 220 V * contact rating of auxiliary contacts according to UL Protective and monitoring functions * trip class * CLASS 10 design of the overload release * thermal UL/CSA ratings full-load current (FLA) for 3-phase AC motor * at 480 V rated value * at 600 V rated value * 5 A * at 600 V rated value * 5 A * at 600 V rated value * for short-circuity protection design of the fuse link * for short-circuity protection of the auxiliary switch required Installation/mounting/ dimensions mounting position * fastening method * for short-circuity protection depth * for main current circuit * year of electrical connection * for main current circuit * product component removable terminal for auxiliary and control circuit * of or formain current circuit * of or short-circuit protectical connection * for main current circuit * of or short-circuit protectical connection * for main current circuit * of or short-circuit protectical connections for main current circuit * of or short-circuit protection of the auxiliary and control circuit * of or short-circuit protection of the auxiliary and control circuit * of a short-circuit protection of the auxiliary and control circuit * of a short-circuit protection of the auxiliary and control circuit * of a such as a short-circuit protection of the auxiliary and control circuit * of a short-circuit protection of the auxiliary and control circuit * of a short-circuit protection of the auxiliary and control circuit * of a current circuit * of a current circuit of the auxiliary and control circuit * of a current c	operational current of auxiliary contacts at AC-15	
or 1120 V or 1125 V or 1125 V or 1230 V or 120 V	• at 24 V	3 A
at 125 V at 230 V at 240 V at 240 V beta 400 V operational current of auxiliary contacts at DC-13 at 24 V at 50 V at 110 V beta 110 V contact rating of auxiliary contacts according to UL contact rating of auxiliary contacts contact rating of auxiliary switch contact rating of auxiliary switch at 80 V rated value 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A	● at 110 V	3 A
at 230 V at 400 V orational current of auxiliary contacts at DC-13 at 24 V at 80 V oration V oration V at 125 V oration V oration of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings Oration the fuse link of or short-circuit protection of the auxiliary switch required design of the fuse link of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mountling position depth 102 mm width depth 102 mm width depth 79 mm Connections/ Terminals product component removable terminal for auxiliary arrangement of electrical connection of or main current circuit of or auxiliary at and control circuit arrangement of electrical connectors for main current circuit type of electrical connectors for main current circuit finely stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — for connectable conductor cross-sections of or auxiliary contacts of connectable conductor cross-sections oration the Auxiliary and control cross-sections of connectable c	• at 120 V	3 A
• at 400 V operational current of auxillary contacts at DC-13 • at 24 V • at 60 V • at 110 V • cal 125 V • at 125 V • at 220 A • at 120 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class CLASS 10 design of the overload release ULCSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 800 V rated value • 5 A st at 60 V rated value • 5 A 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 fuse gG: 6 A, quick: 10 A fastening method height fuse gG: 6 M, quick in the mail of maxiliary 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 cortacts - finely stranded with core end processing - finely stranded with core end processing • at AWG cables for main contacts - for counciliary contacts	• at 125 V	3 A
operational current of auxiliary contacts at DC-13 of at 24 V of 150 V of 1110 V of 1125 V of 1220 V of 1220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class CLASS 10 design of the overload release UL/CSA ratings Final 480 V rated value of 1480 V rated value of 16 A of or short-circuit protection of the auxiliary switch required nesting in generation fastening method height depth Onnections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection of or main current circuit of or auxiliary and control circuit spring-loaded terminals rip and bottom Top and bottom 1x (0.5 2 5 mm²) of not auxiliary stranded without core end processing of for neine conducts of connectable conductor cross-sections of for eneix stranded of connectable conductor cross-sections of main contacts of main contacts At AWG cables for main contacts 1x (0.5 2 5 mm²) 1x (20 12) type of connectable conductor cross-sections of consultiary contacts	● at 230 V	2 A
• at 24 V • at 60 V • at 110 V • at 110 V • at 125 V • at 125 V • at 125 V • at 125 V • contact rating of auxiliary contacts according to UL 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 • at 600 V rated value • at 600 V rated value • 5 A 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 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit - for auxiliary and control circuit - finely stranded with core end processing - finely stranded without core end processing • at AWC cables for main contacts Vipe of connectable conductor cross-sections • for connectable conductor cross-sections • for auxiliary contacts Vipe of connectable conductor cross-sections • for auxiliary stranded without core end processing - finely stranded without core end processing • at AWC cables for main contacts Vipe of connectable conductor cross-sections • for auxiliary contacts		1 A
• at 60 V • at 110 V • at 1125 V • at 125 V • at 220 V Contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class CLASS 10 design of the overload release UL/CSA ratings UL/CS		
at 110 V at 125 V at 1220 V out 125 V contact rating of auxiliary contacts according to UL B800 / R300 Protective and monitoring functions trip class design of the overload release thermal UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 5 A Short-circuit protection design of the fuse link fuse for short-circuit protection of the auxiliary switch required Installation/mounting/ dimensions mounting position fastening method height vidth depth 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit arrangement of electrical connectors for main current circuit fype of connectable conductor cross-sections e for main contacts - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - al AWG cables for main contacts - for connectable conductor cross-sections - for cauxiliary contacts - for auxiliary contacts	● at 24 V	2 A
at 126 V at 220 V at 220 V at 220 V at 220 V before triang of auxiliary contacts according to UL before triang of auxiliary contacts contact rating of auxiliary contacts class 10 class 10 class 10 thermal class	● at 60 V	0.3 A
• at 220 V contact rating of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions trip class CLASS 10 design of the overload release themal 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 102 mm width 45 mm depth 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connectors for main current circuit circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWC cables for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts	• at 110 V	0.22 A
contact rating of auxiliary contacts according to UL 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 • 5 A slot overload release 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 102 mm width depth 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit circuit xrype of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with our cend processing - finely stranded without core end processing • at AWG cables for main contacts • for councitable connector cores-sections • for connectable for main contacts • at AWG cables for main contacts • for connectable contacts • for connectable for main contacts • for auxiliary and control circuit 1x (0.5 2.5 mm²) 1x (0.5 2.5 mm²) 1x (20 12)	• at 125 V	0.22 A
Protective and monitoring functions trip class CLASS 10 design of the overload release thermal UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 5 A Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions mounting position any stand-alone installation height 79 mm depth 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit spring-loaded terminals 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 - at AWG cables for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts	• at 220 V	0.11 A
trip class 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 • 5 A 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 102 mm width 45 mm depth 79 mm Connections/ Terminals Product component removable terminal for auxiliary and control circuit type of electrical connecton • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded without core end processing — finely stranded without core end processing • at AWG cables for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary and control cortacts • for auxiliary and control cortacts • at AWG cables for main contacts • for main contacts • for main contacts • for main contects • for main contacts • for main contects • for main contacts • for main contact	contact rating of auxiliary contacts according to UL	B600 / R300
design of the overload release thermal	Protective and monitoring functions	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • 5 A 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 45 mm depth 79 mm 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 — solid or stranded — finely stranded without core end processing • at AWG cables for main contacts • for auxiliary contacts • for connectable conductor cross-sections • for connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts	trip class	CLASS 10
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • 5 A 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 102 mm width depth 79 mm 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 — solid or stranded — finely stranded without core end processing — at AWG cables for main contacts • for ouxiliary contacts • for ouxiliary contacts • for auxiliary contacts • for connectable conductor cross-sections • for onnectable conductor cross-sections • for onnectable conductor cross-sections • for onnectable conductor cross-sections • for auxiliary contacts	design of the overload release	thermal
at 480 V rated value at 600 V rated value 5 A Short-circuit protection design of the fuse link	UL/CSA ratings	
• at 600 V rated value 5 A 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 102 mm width 45 mm depth 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit of or auxiliary and control circuit spring-loaded terminals For auxiliary and control circuit 1x (0,5 4 mm²) - finely stranded with core end processing • at AWG cables for main contacts • for auxiliary contacts for auxiliary contacts • for connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts 1x (0,5 2,5 mm²) 1x (20 12) type of connectable conductor cross-sections • for auxiliary contacts	full-load current (FLA) for 3-phase AC motor	
Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method stand-alone installation height 45 mm depth 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit spring-loaded terminals Top and bottom if or main contacts - solid or stranded - finely stranded without core end processing - at AWG cables for main contacts • for ounxiliary contacts • for ounxiliary contacts • for oonnectable conductor cross-sections • for oonnectable conductor cross-sections • for main contacts - solid or stranded - finely stranded without core end processing - at AWG cables for main contacts • for oonnectable conductor cross-sections • for auxiliary contacts	at 480 V rated value	5 A
design of the fuse link	• at 600 V rated value	5 A
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height 102 mm width 45 mm 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connectors • for auxiliary and control circuit type of connectable conductor cross-sections • for main current ircuit type of connectable conductor end processing — finely stranded without core end processing • at AWG cables for main contacts • for auxiliary contacts	Short-circuit protection	
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height 102 mm width 45 mm 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connectors • for auxiliary and control circuit type of connectable conductor cross-sections • for main current ircuit type of connectable conductor end processing — finely stranded without core end processing • at AWG cables for main contacts • for auxiliary contacts	design of the fuse link	
mounting position any stand-alone installation height 102 mm width 45 mm depth 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit spring-loaded terminals • for main current circuit spring-loaded terminals arrangement of electrical connectors for main current circuit spring-loaded terminals - solid or stranded 1x (0,5 4 mm²) - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts • for auxiliary contacts • for auxiliary and control circuit 1x (0,5 4 mm²) - finely stranded with core end processing 1x (0.5 2.5 mm²) - at AWG cables for main contacts • for auxiliary contacts	 for short-circuit protection of the auxiliary switch 	fuse gG: 6 A, quick: 10 A
mounting position fastening method stand-alone installation height 102 mm width 45 mm 79 mm 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 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts	Installation/ mounting/ dimensions	
fastening method height 102 mm width 45 mm 79 mm 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 type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts • for auxiliary contacts • for mainicontacts • for main contacts • for main contacts — solid or stranded of the finely stranded without core end processing • at AWG cables for main contacts • for auxiliary contacts • for auxiliary contacts		anv
height width 45 mm depth 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit spring-loaded terminals 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 — finely stranded without core end processing • at AWG cables for main contacts • for auxiliary contacts • for main contacts — solid or stranded — finely stranded without core end processing • at AWG cables for main contacts • for auxiliary contacts • for auxiliary contacts		
width 45 mm depth 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection spring-loaded terminals • for main current circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections 1x (0.5 4 mm²) • for main contacts 1x (0.5 2.5 mm²) - finely stranded without core end processing 1x (0.5 2.5 mm²) • at AWG cables for main contacts 1x (20 12) type of connectable conductor cross-sections for auxiliary contacts		102 mm
depth 79 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit No type of electrical connection spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections 1x (0,5 4 mm²) • for main contacts 1x (0,5 2,5 mm²) - finely stranded with core end processing 1x (0,5 2,5 mm²) • at AWG cables for main contacts 1x (20 12) type of connectable conductor cross-sections • for auxiliary contacts		
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 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts No No No No Avaitable Connectable terminals spring-loaded terminals Top and bottom Top and bottom 1x (0,5 4 mm²) 1x (0,5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 2.5 mm²) 1x (20 12)		
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 solid or stranded finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts for auxiliary contacts type of connectable conductor cross-sections for auxiliary contacts 	product component removable terminal for auxiliary	No
 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 finely stranded without core end processing at AWG cables for main contacts for auxiliary contacts type of connectable conductor cross-sections for auxiliary contacts 		
 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 finely stranded without core end processing at AWG cables for main contacts type of connectable conductor cross-sections for auxiliary contacts 		spring-loaded terminals
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 — finely stranded without core end processing — at AWG cables for main contacts • for auxiliary contacts Top and bottom Top and bottom 1x (0,5 4 mm²) 1x (0,5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 2.5 mm²) 1x (20 12)		
type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for main contacts • for auxiliary contacts type of connectable conductor cross-sections • for auxiliary contacts		
 for main contacts solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing at AWG cables for main contacts type of connectable conductor cross-sections for auxiliary contacts 	-	
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for main contacts — for auxiliary contacts 1x (0,5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 2.5 mm²) 1x (20 12) 	type of connectable conductor cross-sections	
 — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for main contacts — for auxiliary contacts 1x (0.5 2.5 mm²) 1x (20 12) 1x (20 12) 	 for main contacts 	
 — finely stranded without core end processing at AWG cables for main contacts type of connectable conductor cross-sections for auxiliary contacts 1x (0.5 2.5 mm²) 1x (20 12) 	— solid or stranded	1x (0,5 4 mm²)
 at AWG cables for main contacts type of connectable conductor cross-sections for auxiliary contacts 	 finely stranded with core end processing 	1x (0.5 2.5 mm²)
type of connectable conductor cross-sections • for auxiliary contacts	 finely stranded without core end processing 	1x (0.5 2.5 mm²)
• for auxiliary contacts	at AWG cables for main contacts	1x (20 12)
	type of connectable conductor cross-sections	
— solid or stranded 2x (0.5 2.5 mm²)	 for auxiliary contacts 	
	 solid or stranded 	2x (0.5 2.5 mm²)

 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 1.5 mm²)
at AWG cables for auxiliary contacts	2x (20 14)
design of screwdriver shaft	Diameter 3 mm
size of the screwdriver tip	3,0 x 0,5 mm
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 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
Display	
display version for switching status	Slide switch
Certificates/ approvals	



General Product Approval









For use in hazardous locations



Declaration	of
Conformity	

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping







Confirmation

other

Vibration and Shock

Railway

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-1FC1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1FC1

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1FC1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

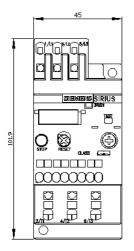
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1FC1&lang=en

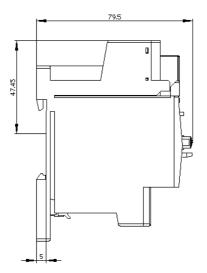
Characteristic: Tripping characteristics, I2t, Let-through current

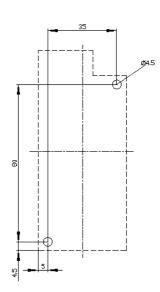
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1FC1/char

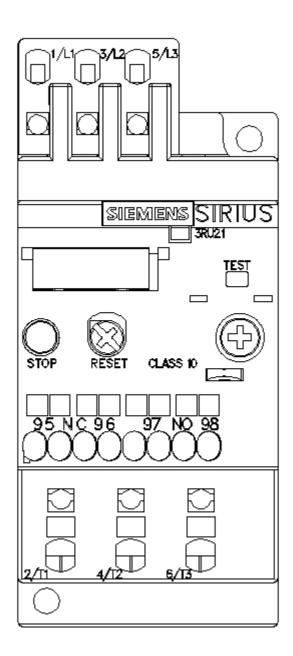
Further characteristics (e.g. electrical endurance, switching frequency)

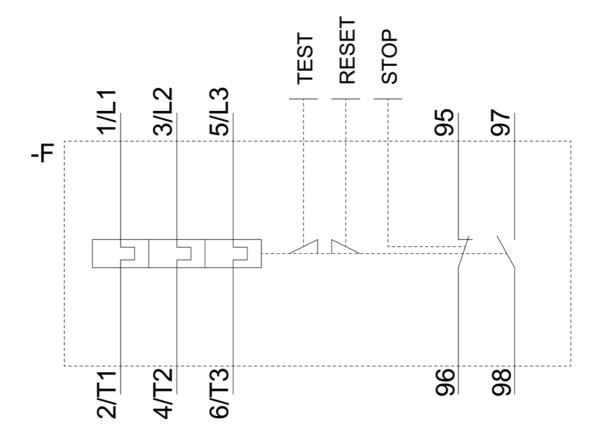
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1FC1&objecttype=14&gridview=view1











last modified: 12/15/2020 ☑