SIEMENS

Data sheet

3RU2126-1FB0



OVERLOAD RELAY 3.5...5.0 A FOR MOTOR PROTECTION SZ S0, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL-AUTOMATIC-RESET

Product brand name	SIRIUS
Product designation	thermal overload relay
Product type designation	3RU2
General technical data	
Size of overload relay	S0
Size of contactor can be combined company-specific	S0
Power loss [W] total typical	6.1 W
	600 M

	0.1 W
Insulation voltage with degree of pollution 3 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
 in networks with grounded star point between auxiliary and auxiliary circuit 	440 V
 in networks with grounded star point between main and auxiliary circuit 	440 V
 in networks with grounded star point between main and auxiliary circuit 	440 V
Protection class IP	

e on the formt	IP20
• on the front	
• of the terminal	
Type of protection	Exe
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	F
Ambient conditions	
Ambient temperature	
 during operation 	-40 +70 °C
 during storage 	-55 +80 °C
• during transport	-55 +80 °C
Temperature compensation	-40 +60 °C
Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-	3.5 5 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	5 A
Operating power at AC-3	
• at 400 V rated value	1.5 kW
• at 500 V rated value	2.2 kW
• at 690 V rated value	4 kW
Auxiliary circuit	
Design of the auxiliary switch	integrated
Number of NC contacts	
 for auxiliary contacts 	1
— Note	for contactor disconnection
Number of NO contacts	
 for auxiliary contacts 	1
— Note	for message "Tripped"
Number of CO contacts	
 for auxiliary contacts 	0
Operating current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 110 V	3 A
● at 120 V	3 A
• at 125 V	3 A
• at 230 V	2 A
• at 400 V	1 A

Protective and monitoring functions Trip class CLASS 10 Design of the overload release thermal JL/CSA ratings Tip class Full-load current (FLA) for three-phase AC motor 5 A • at 480 V rated value 5 A • at 600 V rated value 5 A	Operating current of auxiliary contacts at DC-13	
at 125 V 0.22 A at 220 V 0.11 A Contect rating of auxillary contacts according to UL B600 / R300 Protective and monitoring functions Trip class CLASS 10 thermal Design of the overload release thermal <i>IL/CSA ratings</i> CLASS 10 Full-load current (FLA) for three-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 5 A stallation/ mounting/ dimensions Mounting type Mounting type direct mounting Height 85 mm Width 45 mm Dapth sacing orm • with side-by-side mounting - • forwards 0 mm - grounds gaching 0 mm • downwards 6 mm - forwards 0 mm - downwards 6 mm - forwards 0 mm - downwards 6 mm - forwards 0 mm - downwards 6 mm	• at 24 V	2 A
• at 220 ∨ 0.11 A Contact rating of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions CLASS 10 Trip class CLASS 10 Design of the overload release thermal // CSA ratings CLASS 10 Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 480 V rated value 5 A • at 600 V rated value 5 A • at 600 V rated value 5 A stallation/ mounting/ dimensions any Mounting position any Mounting type direct mounting Height 85 mm With 85 mm Depth 85 mm Required spacing 0 mm • with side-by-side mounting - - forwards 0 mm - gackwards 0 mm - downwards 6 mm - downwards 6 mm - at the side 6 mm - forwards 0 mm - at the side 6 mm - downwards 6 mm - downwards 6 mm - at the side 6 mm - forwards 0 mm - at the side 6 mm - forwards 0 mm <tr< th=""><th>● at 110 V</th><th>0.22 A</th></tr<>	● at 110 V	0.22 A
Contact reting of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions Trip class CLASS 10 Design of the overload release thermal JL/CSA ratings Full-Back durrent (FLA) for three-phase AC motor 	• at 125 V	0.22 A
Protective and monitoring functions Trip class CLASS 10 Design of the overload release thermal JUCSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value 5 A • at 480 V rated value 5 A • at 600 V rated value 5 A • stallation/ mounting/ dimensions any Mounting type direct mounting Height 85 mm Wouth dybe-by-side mounting	• at 220 V	0.11 A
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Design of the overload release thermal LL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value 5 A stallation/ mounting/ dimensions	Protective and monitoring functions	
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— downwards 6 mm — at the side 6 mm	— Backwards	0 mm
— at the side 6 mm	— upwards	6 mm
	— downwards	6 mm
Connections/Terminals	— at the side	6 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 (1 2,5 mm²), 2x (2,5 10 mm²)
 — finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
 at AWG conductors for main contacts 	2x (16 12), 2x (14 8)
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)
 — finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)
Tightening torque	
 for main contacts with screw-type terminals 	2 2.5 N·m
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m
Design of screwdriver shaft	Diameter 5 6 mm
Safety related data	
Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	50 FIT
MTTF with high demand rate	2 280 у
T1 value for proof test interval or service life acc. to	20 у
IEC 61508	
Display	
Display version	
• for switching status	Slide switch
Certificates/approvals	



Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

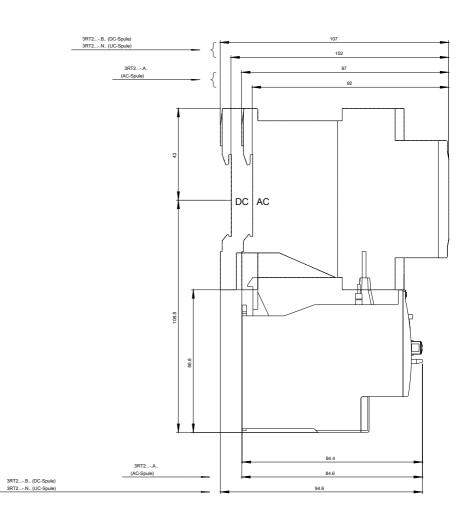
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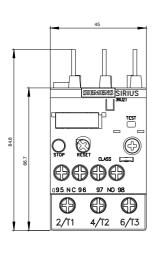
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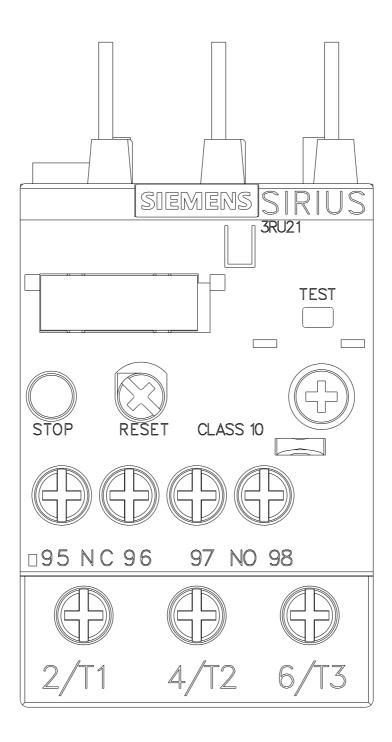
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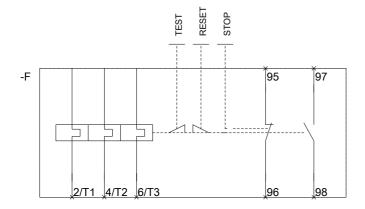
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-1FB0&lang=en







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