SIEMENS

Data sheet

3RU2126-4PB0



Overload relay 30...36 A Thermal For motor protection Size S0, 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	
product type designation 3RU2	
General technical data	
size of overload relay S0	
size of contactor can be combined company-specific S0	
power loss [W] for rated value of the current at AC in hot 9.6 W operating state	
• per pole 3.2 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 protective separation 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 according 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 according to IEC 81346-2 F	
Substance Prohibitance (Date) 10/01/2009	
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 30 36 A	
operating voltage	
• rated value 690 V	
• at AC-3e rated value maximum 690 V	
operating frequency rated value 50 60 Hz	
operational current rated value 36 A	
operational current at AC-3e at 400 V rated value 36 A	
operating power	

● at AC-3	
	19 E MM
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	30 kW
• at AC-3e	10 5 1111
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	30 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
operational 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
• at 690 V	0.75 A
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 60 V	0.3 A
• at 110 V	0.22 A
• at 125 V	0.22 A
• at 220 V	0.11 A
contact rating of auxiliary contacts according to UL	B600 / R300
Protective and monitoring functions	
trip class	CLASS 10
	CLASS 10 thermal
trip class	
trip class design of the overload release	
trip class design of the overload release UL/CSA ratings	
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	thermal 36 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 Short-circuit protection	thermal 36 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 Short-circuit protection design of the fuse link	thermal 36 A 36 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 Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required	thermal 36 A
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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 Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	thermal 36 A 36 A fuse gG: 6 A, quick: 10 A any
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 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 36 A 36 A fuse gG: 6 A, quick: 10 A any Contactor mounting
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 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 36 A 36 A 36 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm
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 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 36 A 36 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm
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 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 36 A 36 A 36 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm
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 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 36 A 36 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm
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 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 36 A 36 A 36 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm
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 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 36 A 36 A 36 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No
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 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 36 A 36 A 36 A 37 A 36 A 36 A 36 A 37 A 40 A 38 m 45 mm 45 mm 45 mm 45 mm 45 mm 50 mm 45 mm 45 mm
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 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	thermal 36 A 36 A 36 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No
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 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	thermal 36 A 36 A 36 A 37 A 37 A 38 A 39 A 39 A 39 A 30
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 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 e for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	thermal 36 A 36 A 36 A 37 A 37 A 38 A 39 A 39 A 39 A 30
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 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 e for main current circuit e for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections e for main contacts	thermal 36 A 36 A 36 A 36 A 37 A 38 A 39
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 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 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 36 A 36 A 36 A 36 A 37 A 45 mm 25 mm 45
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 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 solid or stranded finely stranded with core end processing 	thermal 36 A 36 A 36 A 36 A 36 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No screw-type terminals screw-type terminals Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
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 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 — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts	thermal 36 A 36 A 36 A 36 A 37 A 45 mm 45 mm 45 mm 85 mm 45 mm 70 and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²)
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 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 solid or stranded finely stranded with core end processing 	thermal 36 A 36 A 36 A 36 A 36 A 1000000000000000000000000000000000000

— finely stranded with core end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 for AWG cables 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 sc 	rew-type terminals	nals 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 conne	ection screw					
 for main contacts 		M4				
 of the auxiliary and control c 	ontacts	M3				
Safety related data						
failure rate [FIT] with low demand r	ate according to SN 31920	50 FIT				
MTTF with high demand rate		2 280 a				
T1 value for proof test interval or se	ervice life according to IEC	20 a				
61508		20 a				
protection class IP on the front a	according to IEC 60529	IP20				
touch protection on the front acc	cording to IEC 60529	finger-safe, for vertical contact	from the front			
Display						
display version for switching status		Slide switch				
Certificates/ approvals						
			For use in boundary	1		
General Product Approval			For use in hazardous	locations		
		EHC	IECEx	KEX ATEX		
Declaration of Conformity	Test Certifica	tes	Marine / Shipping			
UK CA	•Konf.		ABS	BUREAU VERITAS		
Marine / Shipping				other		
	ovds gister uls PRS	RINA	RMRS	<u>Confirmation</u>		
other Railway						
	and Shock					
Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).						
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875						
Information- and Downloadcenter (Catalogs, Brochures,)						
https://www.siemens.com/ic10 Industry Mall (Online ordering sy https://mall.industry.siemens.com/r		0=3RU2126-4PB0				
Cax online generator	Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4PB0					

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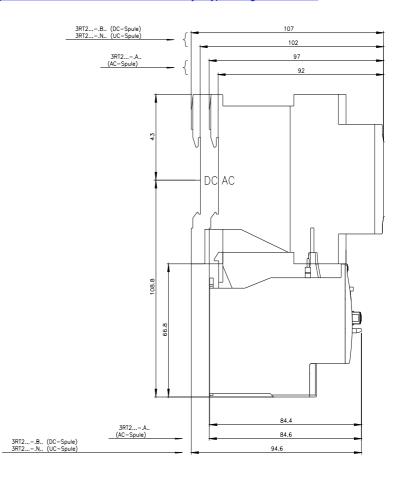
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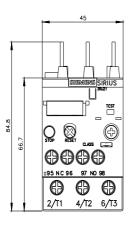
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4PB0&lang=en

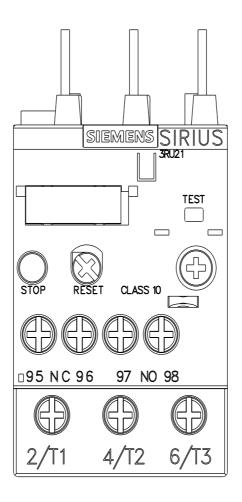
Characteristic: Tripping characteristics, I2t, Let-through current

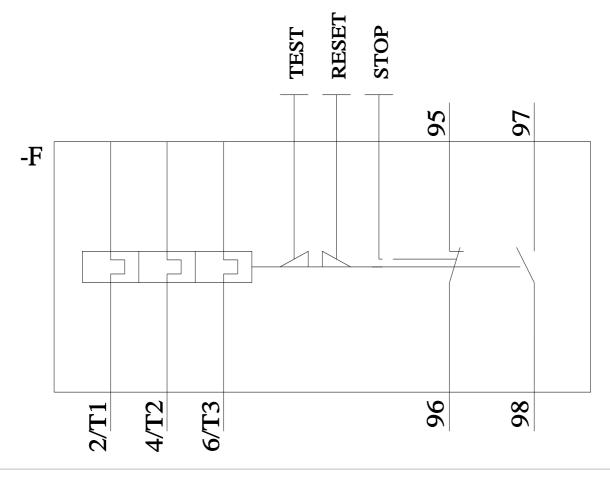
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Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4PB0&objecttype=14&gridview=view1









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