SIEMENS

Data sheet

3RU2126-1GC0



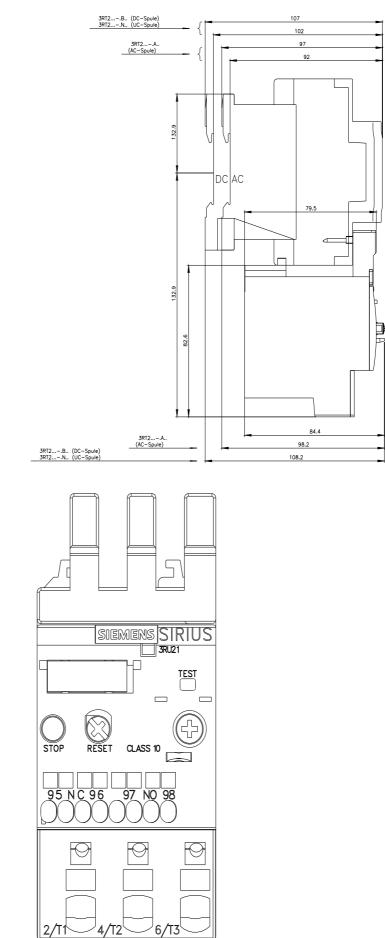
Overload relay 4.5...6.3 A Thermal For motor protection Size S0, Class 10 Contactor mounting Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

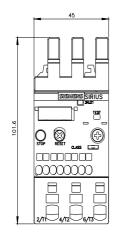
product oranination SiNU3 product oranination 3RU2 Ceneral technical data Si size of orientator can be combined company-specific Si operating size Si power loss [W] for rated value of the current at AC in hot 6.6 W operating size 6 with size of verification or size of ver	anoduce burned a sure	
product type designation 3RU2 General technical data	product brand name	SIRIUS
Ceneral technical data S0 size of overload relay S0 size of contactor can be combined company-specific S0 oppertions [W] for rated value of the current at AC in hot operating state 8.8 W • per pole 2.2 W insulation voltage with degree of pollution 3 at AC rated value 800 V surge voltage resistance rated value 6 kV maximum permissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between auxiliary and uxiliary circuit 440 V • between auxiliary and uxiliary circuit 440 V • between main and auxiliary circuit 440 V • between according to IEC 80368-227 8g /11 ms Type of protection according to IEC 81345-2 F Substance Prohibitance (Date) 100/1/2009 Ambient conditions 100/1/2009 Installation altidude at height above sea level maximum 2000 m ambient temperature -55 +80 °C • during storage -55 +80 °C • during		
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Imaximum permissible voltage for protective separation in networks with grounded star point Adv between auxiliary and auxiliary circuit between main and auxiliary circuit duo v between main and auxiliary circuit duo volume to subative auxiliary and auxiliary circuit duo volume to subative auxiliary and auxiliary circuit duo volume to subative auxiliary and auxiliary circuit aduo volume to sea level maximum aduo volume to auxiliary and auxil	insulation voltage with degree of pollution 3 at AC rated value	690 V
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• 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • during operation -40 +70 °C • during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 adjustable current response value current of the current- dependent overload release 690 V operating rolage 690 V • at AC-3e rated value 690 V • at AC-3e rated value 690 V • at AC-3e rated value 600 LZ operating frequency rated value 63 A operating frequency rated value 63 A	 between auxiliary 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 2 000 m installation altitude at height above sea level maximum 2 000 m adminint temperature -40 +70 °C • during operation -40 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C • during operation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 adjustable current response value current of the current-dependent overload release 690 V operating rollage 690 V • at AC-3e rated value 690 V • at AC-3e rated value 50 60 Hz operational current rated value 63 A operational current at AC-3e at 400 V rated value 63 A	 between main and auxiliary circuit 	440 V
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Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • 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 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 4.5 6.3 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 6.3 A operational current at AC-3e at 400 V rated value 6.3 A	reference code according to IEC 81346-2	F
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temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 4.5 6.3 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 6.3 A operational current at AC-3e at 400 V rated value 6.3 A	during storage	-55 +80 °C
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 4.5 6.3 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 6.3 A operational current at AC-3e at 400 V rated value 6.3 A	 during transport 	-55 +80 °C
Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 4.5 6.3 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 6.3 A operational current at AC-3e at 400 V rated value 6.3 A	temperature compensation	-40 +60 °C
number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 4.5 6.3 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 6.3 A operational current at AC-3e at 400 V rated value 6.3 A operational current at AC-3e at 400 V rated value 6.3 A operational current at AC-3e at 400 V rated value	relative humidity during operation	10 95 %
adjustable current response value current of the current- 4.5 6.3 A dependent overload release 4.5 6.3 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 6.3 A operational current at AC-3e at 400 V rated value 6.3 A	Main circuit	
dependent overload release Image: Comparison of the second se	number of poles for main current circuit	3
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operating frequency rated value 50 60 Hz operational current rated value 6.3 A operational current at AC-3e at 400 V rated value 6.3 A	rated value	690 V
operational current rated value 6.3 A operational current at AC-3e at 400 V rated value 6.3 A	• at AC-3e rated value maximum	690 V
operational current at AC-3e at 400 V rated value 6.3 A	operating frequency rated value	50 60 Hz
	operational current rated value	6.3 A
operating power	operational current at AC-3e at 400 V rated value	6.3 A
	operating power	

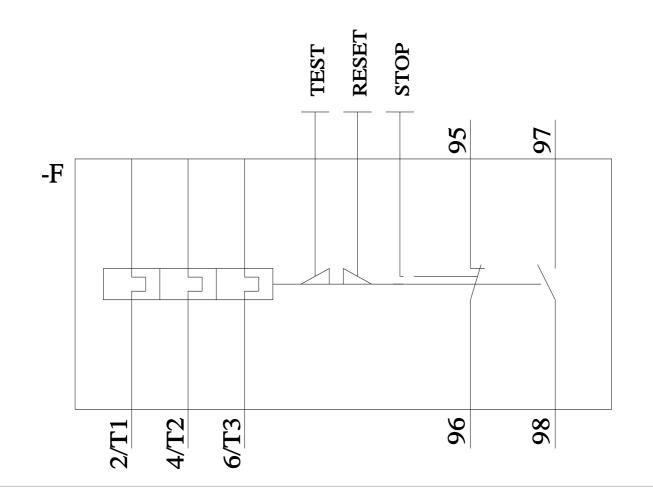
• at AC-3	
- at 400 V rated value	2.2 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 400 V rated value	2.2 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	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
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 200 V	1A
• at 690 V	0.75 A
• at 690 V 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
Drotoctive and monitoring functions	
Protective and monitoring functions	
trip class	CLASS 10
trip class design of the overload release	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 6.3 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	thermal 6.3 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 6.3 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 6.3 A 6.3 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 6.3 A 6.3 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 Installation/ mounting/ dimensions	thermal 6.3 A 6.3 A fuse gG: 6 A, quick: 10 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 Installation/ mounting/ dimensions mounting position	thermal 6.3 A 6.3 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 6.3 A 6.3 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 6.3 A 6.3 A 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 102 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 6.3 A 6.3 A 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 102 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 6.3 A 6.3 A 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 102 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 6.3 A 6.3 A 6.3 A 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 102 mm 45 mm 84 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 6.3 A 6.3 A 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 102 mm 45 mm 84 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 	thermal 6.3 A 6.3 A 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 102 mm 45 mm 84 mm V No spring-loaded terminals
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 6.3 A 6.3 A 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 102 mm 45 mm 84 mm No
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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 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 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 102 mm 45 mm 84 mm No No Spring-loaded terminals spring-loaded terminals Top and bottom
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 ofor main current circuit of rangement of electrical connectors for main current circuit type of connectable conductor cross-sections of rmain contacts - solid or stranded	thermal 6.3 A 6.3 A 6.3 A 6.3 A 6.3 A 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 102 mm 45 mm 84 mm V No No Spring-loaded terminals spring-loaded terminals Top and bottom 1x (1 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 e for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections e for main contacts — solid or stranded — finely stranded with core end processing	thermal 6.3 A 6.3 A 6.3 A 6.3 A 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 102 mm 45 mm 84 mm V No Spring-loaded terminals spring-loaded terminals Top and bottom 1x (1 10 mm²) 1x (1 6 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 ofor auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections of rmain contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing	thermal 6.3 A 6.3 A 6.3 A 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 102 mm 45 mm 84 mm No spring-loaded terminals spring-loaded terminals Top and bottom 1x (1 10 mm²) 1x (1 6 mm²) 1x (1 6 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 e for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections e for main contacts — solid or stranded — finely stranded with core end processing	thermal 6.3 A 6.3 A 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 102 mm 45 mm 84 mm No spring-loaded terminals spring-loaded terminals Top and bottom 1x (1 10 mm²) 1x (1 6 mm²)

 for auxiliary containing 	acts				
— solid or stra			2x (0.5 2.5 mm²)		
- finely strand	led with core end proce	ssing	2x (0.5 1.5 mm²), 2x (0.7	5 2.5 mm²)	
— finely strand	led without core end pro	ocessing	2x (0.5 1.5 mm ²)		
 for AWG cables f 	or 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	v demand rate accordin	g to SN 31920	50 FIT		
MTTF with high demai	nd rate		2 280 a		
T1 value for proof test in 61508	nterval or service life ac	cording to IEC	20 a		
protection class IP on			IP20		
touch protection on th Display	e front according to I	EC 60529	finger-safe, for vertical cont	act from the front	
display version for swite	hing status		Slide switch		
Certificates/ approvals					
General Product App	oval			For use in hazardou	s locations
(m)	Confirmation	ŝ	гпг		IECE.
(\mathbf{m})		(VL)	FHI	(Ex)	IECEX
		\sim	LIIL	ATEX	IECEx
Declaration of Confor	mity	Test Certificat	tes	Marine / Shipping	
	-				
	~ ~	Special Test C		and the second	A State
UK	((ate	ates/Test Report		(X # B)
				Concerned and Concerned	
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					VERITAS
Marine / Shipping					other
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DNV	105				
DNV	LRS	PRS	RINA	RMRS	
Railway					
Vibration and Shock					
Further information					
Siemens has decided					
https://press.siemens.co Siemens is working or					
			ates. f the EAC certification if you in	tend to import or offer to sur	oply these products to an
EAC relevant market (o	ther than the sanctioned		ates Russia or Belarus).		
Information on the pace https://support.industry.	kaging	wiew/100912975			
Information- and Down					
https://www.siemens.co		, 5roonurea, <i>j</i>			
Industry Mall (Online o					
https://mall.industry.sier	nens.com/mall/en/en/Ca	atalog/product?mlft	<u>=3RU2126-1GC0</u>		
Cax online generator http://support.automatio		Xorder/default asp	x?lang=en&mlfb=3RU2126-10	GC0	
Service&Support (Mar	II.SIEITIETIS.COTI/VVV/		-		
		aracteristics, FAQ	s,)		
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Image database (prod	uals, Certificates, Cha siemens.com/cs/ww/en/ uct images, 2D dimens siemens.com/bilddb/cax og characteristics, I²t, I	/ps/3RU2126-1GC(sion drawings, 3D _de.aspx?mlfb=3R Let-through curre	<u>)</u> models, device circuit diagr <u>U2126-1GC0⟨=en</u> nt	ams, EPLAN macros,)	

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1GC0&objecttype=14&gridview=view1







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