SIEMENS

Data sheet

3RU2126-4BB0



Overload relay 14...20 A Thermal For motor protection Size S0, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name SIRUS product brand neamo sRUS contrait lochical data sRUS size of overload relay \$0 size of overload relay \$0 power loss [W] for rated value of the current at AC in hot operating state \$1 W operating state \$2 NW operating state \$2 NW operating state \$1 W type of prote		
product type designation 3RU2 Ceneral technical data	product brand name	SIRIUS
Conneral technical data S0 size of overload relay S0 size of contactor can be combined company-specific S0 opperings state S0 • per pole 2.7 W insulation voltage with degree of pollution 3 at AC rated value 690 V surger voltage resistance rated value 64V 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 auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between auxiliary accruit 400 V • between auxiliary accruit 400 V • between auxiliary accruit Mol V <	product designation	thermal overload relay
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 S1. W • per pole 2.7 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 68V 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 colding to ATEX directive 2014/34/EU Ex II (2) GD certificate of sulability according to ATEX directive 2014/34/EU Ix II (2) GD installation altitude at height above sea level maximum 2 000 m amblent completation -40 +70 °C • during storage -55 +	product type designation	3RU2
size of contactor can be combined company-specific S0 power loss [W] for rated value of the current at AC in hot operating state 8.1 W • per pole 2.7 W Insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 6 kV maximum parmissible voltage for protective separation in networks with grounded star point 6 kV • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between file of suitability according to ATEX directive 2014/34/EU DMT 98 ATEX G 001 reference code according to IEX B146cetive 2014/34/EU DMT 98 ATEX G 001 reference code according to NEX Micretive 2014/34/EU DMT 90 °C • during storage -55 +80 °C • during storage -55 +80 °C • d	General technical data	
power loss [W] for rated value of the current at AC in hot operating state 8.1 W • per pole 2.7 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV maximum permissible ovidage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 40 V • between main and auxiliary circuit 50 / 110 / 110 / 120 / 100 / 120 / 100 / 120 / 100 / 120 / 100 / 120 / 100 / 120 / 100 / 120 / 100 / 120 / 100 / 120 / 100 / 120 / 100 / 120	size of overload relay	SO
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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 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between auxiliary circuit 440 V • between auxiliary circuit 440 V • statastance according to ATEX directive 2014/34/EU Exil (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMI P8 ATEX G 001 reference code according to IEC 81346-2 F Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2000 m ambient torngerature -40 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity		8.1 W
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maximum permissible voltage for protective separation in networks with grounded star point 440 V between auxiliary and auxiliary circuit between main and auxiliary circuit 440 V between main and auxiliary circuit 400 V certificate of suitability according to ATEX directive 2014/34/EU DMT 98 ATEX 6 001 reference code according to IEC 81346-2 F Substance Prohibitance (Date) 10/01/2009 Ambient conditions antialation altitude at height above sea level maximum 2 000 m ambient temperature during transport -55 +80 °C during transport -55 +80 °C etal whidity during operation -40 +70 °C relative humidity during operation -95 % Main circuit adjustable	insulation voltage with degree of pollution 3 at AC rated value	690 V
networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between 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 temperature 000 m • during operation -40 +70 °C • during transport -55 +80 °C feater temperature compensation -40 +70 °C • during transport -55 +80 °C feater temperature compensation -40 40 °C relative humidity during operation 10 95 % Main circuit 3 adjustable current r	surge voltage resistance rated value	6 kV
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• between main and auxillary 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 10/01/2009 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- 14 20 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operational current r	 between auxiliary and auxiliary circuit 	440 V
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• during storage • during transport • for well • during transport • du	ambient temperature	
• 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 14 20 A operating voltage 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 20 A operational current at AC-3e at 400 V rated value 20 A	 during operation 	-40 +70 °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 14 20 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 20 A operational current at AC-3e at 400 V rated value 20 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 14 20 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 20 A operational current at AC-3e at 400 V rated value 20 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 14 20 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 20 A operational current at AC-3e at 400 V rated value 20 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 14 20 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 20 A operational current at AC-3e at 400 V rated value 20 A operational current at AC-3e at 400 V rated value 20 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- 14 20 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 20 A operational current at AC-3e at 400 V rated value 20 A	Main circuit	
dependent overload release An	number of poles for main current circuit	3
• rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 20 A operational current at AC-3e at 400 V rated value 20 A		14 20 A
• at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 20 A operational current at AC-3e at 400 V rated value 20 A	operating voltage	
operating frequency rated value 50 60 Hz operational current rated value 20 A operational current at AC-3e at 400 V rated value 20 A	rated value	690 V
operational current rated value 20 A operational current at AC-3e at 400 V rated value 20 A	 at AC-3e rated value maximum 	690 V
operational current at AC-3e at 400 V rated value 20 A	operating frequency rated value	50 60 Hz
	operational current rated value	20 A
	operational current at AC-3e at 400 V rated value	20 A
operating power	operating power	

• at AC-3	
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
• at AC-3e	
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 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	1A
• at 690 V	0.75 A
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 24 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 tunctions	
Protective and monitoring functions	
trip class	CLASS 10
trip class design of the overload release	CLASS 10 thermal
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 20 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
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 20 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 20 A 20 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 20 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 20 A 20 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 20 A 20 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 20 A 20 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 20 A 20 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 20 A 20 A 20 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 20 A 20 A 20 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 20 A 20 A 20 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 20 A 20 A 20 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	thermal 20 A 20 A 20 A 20 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	thermal 20 A 20 A 20 A 20 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 20 A 20 A 20 A 20 A any Contactor mounting 85 mm 45 mm 85 mm No 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 e for main current circuit	thermal 20 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 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 20 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 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 20 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 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 20 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 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 20 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 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 type of connectable conductor cross-sections for main contacts for main contacts 	thermal 20 A 20 A 20 A 20 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 20 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 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 type of connectable conductor cross-sections for main contacts solid or stranded main corte and with core end processing 	thermal 20 A 20 A 20 A 20 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

 — solid or stranded — finely stranded with core end processing for AWG cables for auxiliary contacts 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14)		
for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals	2 2.5 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			
 for main contacts 	M4		
 of the auxiliary and control contacts 	M3		
Safety related data			
failure rate [FIT] with low demand rate according to SN 3192	50 FIT		
MTTF with high demand rate	2 280 a		
T1 value for proof test interval or service life according to IEC 61508	20 a		
protection class IP on the front according to IEC 60529	IP20		
touch protection on the front according 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 Cer	tificates Marine / Shipping		
CE CA EG-Konf.	Type Test Certific- ate Type Test Certific- ates/Test Report Image: Certific- ates/Test Report Image: Certific- ates/Test Report ABS BUREAU VERITAS		
Marine / Shipping	other		
Lis Liss	PRS RINA Confirmation		
other Railway			
Vibration 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 or Please contact your local Siemens office on the status of vali EAC relevant market (other than the sanctioned EAEU memi Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/1098133 Information- and Downloadcenter (Catalogs, Brochures, https://www.siemens.com/ic10	e rtificates. dity of the EAC certification if you intend to import or offer to supply these products to an per states Russia or Belarus). 375		
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/produc	t?mlfb=3RU2126-4BB0		
Cax online generator http://support.automation.siemens.com/WW/CAXorder/defau	It.aspx?lang=en&mlfb=3RU2126-4BB0		

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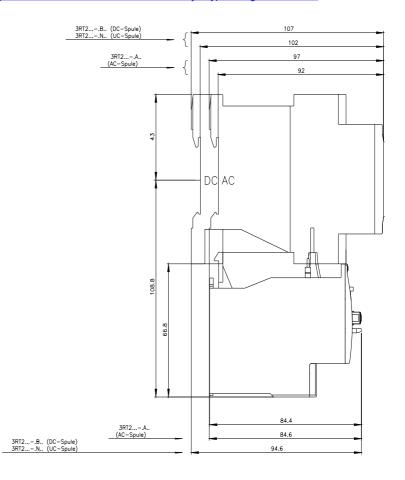
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4BB0

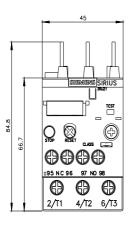
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

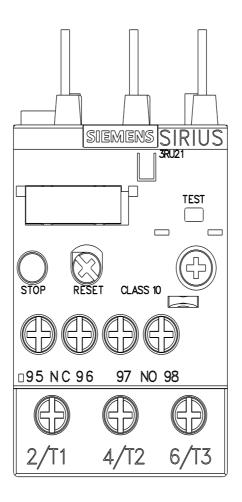
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4BB0&lang=en Characteristic: Tripping characteristics, I2t, Let-through current

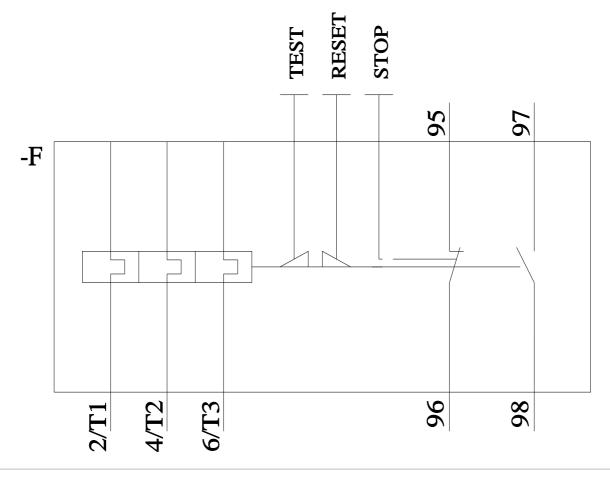
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4BB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4BB0&objecttype=14&gridview=view1









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