## SIEMENS

## Data sheet

## 3RN2010-1CA30



Thermistor motor protection relay Compact evaluation unit 17.5 mm enclosure Screw terminal 1 NO contact, 1 NC contact US = 24 V AC/DC Auto RESET suitable for bimetallic switch 2 LEDs (Ready/Tripped) galvanic isolation

product brand name	SIRIUS
product category	SIRIUS 3RN2 thermistor motor protection
product designation	Thermistor motor protection relay
design of the product	Compact evaluation unit, suitable for bimetallic switch
product type designation	3RN2
General technical data	
product function	thermistor motor protection
display version LED	Yes
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
degree of pollution	3
surge voltage resistance rated value	4 kV
protection class IP	IP20
shock resistance according to IEC 60068-2-27	11g / 15 ms
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current of the switching element with contacts maximum	5 A
reference code according to IEC 81346-2	К
Substance Prohibitance (Date)	05/28/2009
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Product Function	
product function	
error memory	No
<ul> <li>dynamic open-circuit detection</li> </ul>	No
external reset	No
• auto-RESET	Yes
manual RESET	No
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	24 24 V
• at 60 Hz rated value	24 24 V
control supply voltage at DC rated value	
•	24 24 V
operating range factor control supply voltage rated value at DC	
initial value	0.85
● full-scale value	1.1
operating range factor control supply voltage rated value at	

AC at 6 Hz indiv Value indin Value indiv Value indiv Value indiv Value indiv Value indiv V		
- • • • • • • • • • • • • • • • • • • •	AC at 50 Hz	
operating range factor control supply voltage rated value at é at 24 v             1.1          0.55            initial value          0.55            initial value          1.1            becarring circuit          40 ms            becarring circuit          1.1            number of NC contacts for auxiliary contacts          1.1            number of CC contacts for auxiliary contacts          1.1            operational current of auxiliary contacts          1.4            int 25 V          0.2 A            int 25 V          0.2 A            int 25 V          0.2 A </td <td></td> <td></td>		
AC at 6 bit -  initial value 0.85 initial value 1.1 insh current pack initial value 2 ms initial		1.1
• Adi-scale value     1.1       Inrush current paik     18 A       • at 24 V     18 A       duration of inrush current paik     2 ms       Value of the avent of power failure minimum     40 ms       Praction     9 %       Auxiliary circuit     1       Tealative metering precision     9 %       Auxiliary circuit     1       material of sultiching contacts     1       number of NO contacts for auxiliary contacts     1       number of Cocontacts for auxiliary contacts     0       operational current of auxiliary contacts     0       operating frequency rate value     0.1 A       Material for fault of sultary contacts at 0C-13     0       • at 250 V     0.1 A       Material frequency rate value     50 60 Hz       ampacity of the output relay at 0C-13     1       • at 25 V     0.2 A       • at 24 V     1.4       • at 25 V     0.2 A       • at 24 V     0.2 A       • at 25 V     0.2 A       • at 24 V     0.4       • at 25 V     0.2 A       • at 26 V     0.2 A       continuous current of the DIAZED fuse link of the output relay at 0C-13       • at 26 V     0.2 A       continuous current of the DIAZED fuse link of the output relay at 0.5 a (1000-4.4		
Inrush current peak     1.8 A       • at 24 V     2 ms       • at 24 V     2 ms       Baburding circuit     40 ms       Precision     9 %       Axisting circuit     40 ms       Precision     9 %       Axisting circuit     40 ms       Innuber of NC contacts for auxiliary contacts     1       number of NC contacts for auxiliary contacts     1       number of NC contacts for auxiliary contacts     1       number of NC contacts for auxiliary contacts     0       operational current of auxiliary contacts     0       operational current of auxiliary contacts     0       operating frequency rated value     50 - 60 Hz       ampacity of the output relay at DC-13     1 A       • at 24 V     0.2 A       control the output relay at DC-13     1 A       • at 25 V     0.2 A       control the output relay at DC-13     1 A       • at 25 V     0.2 A       control the output relay at DC-13     1 A       • at 25 V     0.2 A       control the output relay at DC-13     1 A       • at 25 V     0.2 A       control theorem of the DAZED fuse link of the output relay at DC-13     1 A       • at 25 V     0.2 A       conducted interference     2 kV (power ports) / 1 kV (lagnal ports) </td <td>● initial value</td> <td>0.85</td>	● initial value	0.85
	• full-scale value	1.1
duration of incush current peak <ul> <li>at 24 V</li> <li>ams</li> </ul> 40 ms           buffering time in the event of power failure minimum         40 ms           Precision         9 %           Auxiliary circuit         40 ms           material of switching contacts         AgSinO2           number of NC contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         0           operational current of auxiliary contacts at DC-13         1 A           • at 24 V         0.2 A           • at 250 V         0.1 A           Main circuit         50 00 H/z           operating frequency rated value         50 00 H/z           operating frequency rated value         50 00 H/z           • at 250 V         0.1 A           Main circuit         0.2 A           contruots current of the DIAZED fuse link of the output relay at DC-13 a           • at 24 V         1 A           • at 25 V         0.2 A           conductor earth surge according to IEC 61000-4.2         2 kV (lower ports) / 1 kV (signal ports)           éute to conductor-earth surge according to IEC 61000-4.2         2 kV (line to ground)           éute to conductor-ea	inrush current peak	
• 124 V     2 ms       Messuring circuit     40 ms       Procision     ************************************	• at 24 V	1.8 A
Massuring circuit         40 ms           Precision         9%           Auxiliary circuit         9%           material of switching contacts         Ag8n02           number of NC contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         0           operational current of auxiliary contacts at DC-13         1           • at 24 V         1.A           • at 25 V         0.1 A           Main circuit         9060 Hz           ampacity of the output relay at AC-15 at 250 V at 5000 Hz         3.A           • at 25 V         0.1 A           Continuous current of the DIAZED fuse link of the output relay at AC-15 at 250 V at 5000 Hz         3.A           • at 24 V         1.A         0.2 A           • at 25 V         0.2 A         2.4 V           • at 125 V         0.2 A         0.2 A           continuous current of the DIAZED fuse link of the output relay at AC-15 at 250 V at 5000 Hz         3.A           • at 25 V         0.2 A         0.2 A           continuous current of the DIAZED fuse link of the output relay at AC-15 at 250 V at 5000 Hz         3.A <t< td=""><td>duration of inrush current peak</td><td></td></t<>	duration of inrush current peak	
buffering time in the event of power failure minimum         40 ms           Precision         9%           Auxiliary circuit         9%           material of settoking gracision         9%           Auxiliary circuit         1           mumber of NC contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         0           oparational current of auxiliary contacts         0           oparational current of auxiliary contacts at DC-13         1           • at 24 V         0.2 A           • at 250 V         0.2 A           • at 260 V         0.1 A           Amandecut         9060 Hz           ampactly of the output relay at DC-13         3 A           • at 24 V         1 A           • at 24 V         0.2 A           • at 25 V         0.2 A           continuous current of the DIAZED fuse link of the output relay at DC-13         4 A           • at 25 V         0.2 A           conducted interfrace         2 kV (power ports) / 1 kV (signal ports)           • due to conductor-canductor surge according to IEC 6 1000-4.2         2 kV (power ports) / 1 kV (signal ports)           • due to conductor-canductor surge according to IEC 6 1000-4.2         2 kV (power ports) / 1 kV (signal ports)           <	• at 24 V	2 ms
buffering time in the event of power failure minimum         40 ms           Precision         9%           Auxiliary circuit         9%           material of settoking gracision         9%           Auxiliary circuit         1           mumber of NC contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         0           oparational current of auxiliary contacts         0           oparational current of auxiliary contacts at DC-13         1           • at 24 V         0.2 A           • at 250 V         0.2 A           • at 260 V         0.1 A           Amandecut         9060 Hz           ampactly of the output relay at DC-13         3 A           • at 24 V         1 A           • at 24 V         0.2 A           • at 25 V         0.2 A           continuous current of the DIAZED fuse link of the output relay at DC-13         4 A           • at 25 V         0.2 A           conducted interfrace         2 kV (power ports) / 1 kV (signal ports)           • due to conductor-canductor surge according to IEC 6 1000-4.2         2 kV (power ports) / 1 kV (signal ports)           • due to conductor-canductor surge according to IEC 6 1000-4.2         2 kV (power ports) / 1 kV (signal ports)           <	Measuring circuit	
Precision         9 %           Auxiliary circuit         AgSn02           number of NC contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         0           operational current of auxiliary contacts at DC-13         1           - at 24 V         1.A           - at 250 V         0.1 A           Main circuit         -           operational current of auxiliary contacts at DC-13         -           - at 250 V         0.1 A           Main circuit         -           operating frequency rated value         5060 Hz           ampacity of the output relay at DC-13         -           - at 24 V         1.A           - at 125V         0.2 A           - at 24 V         1.A           - at 125V         0.2 A           - output relay at DC-13         -           - at 24 V         1.A           - at 125V         0.2 A           - output comparition compatibility         Continues current of the DIAZED fuse link of the output           - due to conductor-canth surge according to IEC 61000-4-2         6 KV contact discharge ////////////////////////////////////	buffering time in the event of power failure minimum	40 ms
Auxiliary circuit       AgSn02         material of switching contacts       1         number of NC contacts for auxiliary contacts       1         number of NC contacts for auxiliary contacts       0         operational current of auxiliary contacts at DC-13       1         • al 24 V       1A         • al 25 V       0.2 A         • at 250 V       0.1 A         Main circuit       50 60 Hz         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         enticutor       0.2 A       0.2 A         continuous current of the DIAZED fuse link of the output relay at DC-13       1.A         electronangenetic compatibility       Conductor-anth suppa according to IEC 61000-4-2       6.KV (power ports) / 1.KV (signal ports)         electrostatic discharge according to IEC 61000-4-2       6.KV contact discharge / 8.kV air discharge		
Auxiliary circuit       AgSn02         material of switching contacts       1         number of NC contacts for auxiliary contacts       1         number of NC contacts for auxiliary contacts       0         operational current of auxiliary contacts at DC-13       1         • al 24 V       1A         • al 25 V       0.2 A         • at 250 V       0.1 A         Main circuit       50 60 Hz         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         ampacity of the output relay at AC-15 at 250 V at 5060 Hz       3.A         enticutor       0.2 A       0.2 A         continuous current of the DIAZED fuse link of the output relay at DC-13       1.A         electronangenetic compatibility       Conductor-anth suppa according to IEC 61000-4-2       6.KV (power ports) / 1.KV (signal ports)         electrostatic discharge according to IEC 61000-4-2       6.KV contact discharge / 8.kV air discharge	relative metering precision	9 %
material of switching contacts         Ag8n02           number of NC contacts for auxiliary contacts         1           number of CO contacts for auxiliary contacts         0           operational current of auxiliary contacts at DC-13         1           at 24 V         1.A           et 250 V         0.1 A           Main chrcuit         5060 Hz           ampacity of the output relay at AC-15 at 250 V at 50/60 Hz         3.A           ampacity of the output relay at AC-15 at 250 V at 50/60 Hz         3.A           ampacity of the output relay at AC-15 at 250 V at 50/60 Hz         3.A           ampacity of the output relay at AC-15 at 250 V at 50/60 Hz         3.A           ampacity of the output relay at AC-15 at 250 V at 50/60 Hz         3.A           ampacity of the output relay at AC-15 at 250 V at 50/60 Hz         3.A           ampacity of the output relay at AC-16 at 260 V at 50/60 Hz         3.A           ampacity of the output relay at DC-13         6.A           et 25 V         0.2 A           continuous current of the DIAZED fuse link of the output         6.A           elact to conductor-ceants urge according to IEC 61000-4-5         2 kV (power ports) / 1 kV (signal ports)           e due to conductor-ceants urge according to IEC 61000-4-5         2 kV (line to ground)           to bet according to IEC 61000-4-5		
number of NC contacts for auxiliary contacts     1       number of NO contacts for auxiliary contacts     0       operational current of auxiliary contacts at DC-13     1       • at 24 V     1A       • at 250 V     0.1A       Main circuit     0       operating frequency rated value     5060 Hz       ampacity of the output relay at DC-13     •       • at 25 V     0.2 A       • at 24 V     1A       • at 25 V     0.2 A       ampacity of the output relay at DC-13     •       • at 25 V     0.2 A       continuous current of the DIAZED fuse link of the output relay at DC-13     •       • at 25 V     0.2 A       conducted interference     •       • due to conductor-conductor surge according to IEC 61000-4-5     2 kV (power ports) / 1 kV (signal ports)       • due to conductor-conductor surge according to IEC 61000-4-5     2 kV (power ports) / 1 kV (signal ports)       • due to conductor-conductor surge according to IEC 61000-4-5     1 kV (inte to ground)       • due to conductor-conductor surge according to IEC 61000-4-2     1 kV (inte to ground)       • due to conductor-conductor surge according to IEC 61000-4-2     1 kV (inte to ground)       • due to conductor-conductor surge according to IEC 61000-4-2     1 kV (inte to ground)       • due to conductor-conductor surge according to IEC 61000-4-2     1 kV (inte to ground		AgSnO2
number of N0 contacts for auxiliary contacts       1         number of CO contacts for auxiliary contacts       0         oparational current of auxiliary contacts at DC-13       1         • at 24 V       1A         • at 250 V       0.1 A         Main actualt       50 60 Hz         operational couptur relay at AC-15 at 250 V at 50/60 Hz       3 A         ampacity of the output relay at AC-15 at 250 V at 50/60 Hz       3 A         ampacity of the output relay at AC-15 at 250 V at 50/60 Hz       3 A         ampacity of the output relay at AC-15 at 250 V at 50/60 Hz       3 A         ampacity of the output relay at AC-15       0.2 A         continuous current of the DIAZED fuse link of the output relay at AC-16 at 250 V       0.2 A         continuous current of the DIAZED fuse link of the output relay       6 A         relay       0.2 A       0.2 A         continuous current of the DIAZED fuse link of the output relay       1 K         • due to conductor-conductor surge according to IEC 61000-4-5       2 kV (power ports) / 1 kV (signal ports)         • due to conductor-conductor surge according to IEC 61000-4-5       6 kV contact discharge / 8 kV air discharge         Galvanic isolation       galvanic isolation       galvanic isolation         • between input and output       Yes         • between input and ou		
number of CO contacts for auxiliary contacts       0         operational current of auxiliary contacts at DC-13       1         • at 24 V       1         • at 250 V       0.2 A         • at 260 V       0.1 A         Man circuit       50 60 Hz         ampacity of the output relay at AC-15 at 250 V at 50/60 Hz       3 A         ampacity of the output relay at AC-15 at 250 V at 50/60 Hz       3 A         ampacity of the output relay at DC-13       • at 125 V         • at 125 V       0.2 A         continuous current of the DIAZED fuse link of the output       6 A         relay       conducted interference         • due to burst according to IEC 61000-4-4       2 kV (power ports) / 1 kV (signal ports)         • due to conductor-earth surge according to IEC 61000-4-5       2 kV (line to ground)         • due to conductor-earth surge according to IEC 61000-4-2       6 kV contact discharge / 8 kV air discharge         calutaric isolation       galvanic isolation         • between input and output       Yes         • between the outputs       Yes         • between the outputs       Yes         • between the output corres-sections       screw terminals         product component removable terminal for auxiliary and cortexit       No         connectable conductor cros		
operational current of auxiliary contacts at DC-13       1 A         • at 24 V       1 A         • at 25 V       0.2 A         • at 250 V       0.1 A         Main circuit       50 60 Hz         operating frequency rated value       50 60 Hz         ampacity of the output relay at AC-15 at 250 V at 50/60 Hz       3 A         ampacity of the output relay at DC-13       • at 24 V         • at 25 V       0.2 A         continuous current of the DIAZED fuse link of the output relay       6 A         Electromagnetic compatibility       0.2 A         conducted interference       2 kV (power ports) / 1 kV (signal ports)         • due to conductor-conductor surge according to IEC 61000-4-5       2 kV (line to ground)         • due to conductor-conductor surge according to IEC 61000-4-5       2 kV (line to ground)         • due to conductor-conductor surge according to IEC 61000-4-5       6 kV contact discharge / 8 kV air discharge         Galvanic Isolation       galvanic Isolation       galvanic Isolation         design of the electrical Isolation       galvanic Isolation         • between the outputs       Yes         • between the o	-	
	· · · · · · · · · · · · · · · · · · ·	
e at 125 V     e at 250 V     0.1 A  Main circuit Operating frequency rated value ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at AC-15 at 250 V at 50/60 Hz at 126 V continuous current of the DIAZED fuse link of the output else to use according to IEC 61000-4-4 2 kVV (power ports) / 1 kV (signal ports) else to conductor-acnth surge according to IEC 4 kV (line to ground) 4 kV (line to funce) else to conductor-acnth surge according to IEC 4 kV (line to ground) 4 kV (line to line) else to conductor-acnth surge according to IEC 4 kV (line to line) else to conductor-acnth surge according to IEC 4 kV (line to line) else to conductor-acnth surge according to IEC 4 kV (line to line) else to conductor-acnth surge according to IEC 4 kV (line to line) else to add to addpt 4 kV at discharge / 8 kV at discharge 4 kV at discharge 4 kV at at at at 4 kV 4 kIV (line to line) else to use the voltage supply and other circuits 4 kV at at at a 4 kV 4 kIV 4 kIV (line to addpt 4 kV at at at a 4 kV 4 kIV 4 kIV (line to addpt 4 kV at at at at a 4 kIV 4 kIV 4 kIV (line to addpt 4 kV at at at at 4 kIV 4 kIV 4 kIV 4 kIV 4 kIV 4 kIV		1 A
• at 250 V     0.1 A     Main circuit     operating frequency rated value         S060 Hz         ampacity of the output relay at AC-15 at 250 V at 50/60 Hz         ampacity of the output relay at AC-15 at 250 V at 50/60 Hz         anapacity of the output relay at AC-15 at 250 V at 50/60 Hz         anapacity of the output relay at AC-15 at 250 V         1 A         at 124 V         1 A         at 125 V         0.2 A         continuous current of the DIAZED fuse link of the output         el A         conducted interference         due to burst according to IEC 61000-4-4         2 kV (power ports) / 1 kV (signal ports)         due to burst according to IEC 61000-4-2         conductor-earth surge according to IEC 61000-4-2         el kV contact discharge / 8 kV air discharge         due to conductor-earth surge according to IEC 61000-4-2         fkV (line to ground)         design of the electrical isolation         galvanic isolation         electrosatic discharge according to IEC 61000-4-2         fkV contact discharge / 8 kV air discharge         calue to uputs         between the voltage supply and other circuits         No         Connectable connectable conductor cross-section         ves         between the voltage supply and other circuits         No         connectable connectable conductor cross-section         vic 0.54 mm <sup>2</sup> , 2x (0.515 mm <sup>2</sup> )         tirk (0.54 mm <sup>2</sup> AWG number as code connectable conductor cross         section		
Main circuit     50 60 Hz       ampacity of the output relay at AC-15 at 250 V at 50/60 Hz     3 A       ampacity of the output relay at DC-13     3 A       • at 24 V     1 A       • at 25 V     0.2 A       continuous current of the DIAZED fuse link of the output relay     6 A       relay     2 kV (power ports) / 1 kV (signal ports)       • due to burst according to IEC 61000-44     2 kV (power ports) / 1 kV (signal ports)       • due to conductor-earth surge according to IEC 61000-45     2 kV (power ports) / 1 kV (signal ports)       • due to conductor-acnductor surge according to IEC 61000-4-2     6 kV contact discharge devices       • due to conductor-acnductor surge according to IEC 61000-4-2     6 kV contact discharge / 8 kV air discharge       design of the electrical isolation     galvanic isolation       design of the electrical isolation     galvanic isolation       • between the outputs     Yes       • between the outputs     Yes       • between the outputs     Yes       • between the output or conductor consesections     screw terminal       • for auxiliary and control circuit     screw terminals       type of electrical connectable conductor cross-sections     1 x (0.5 4 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )       • ord     ord     0.5 4 mm <sup>2</sup>		
operating frequency rated value         50 60 Hz           ampacity of the output relay at AC-15 at 250 V at 50/60 Hz         3 A           ampacity of the output relay at DC-13         3 A           • at 24 V         1 A           • at 125 V         0.2 A           continuous current of the DIAZED fuse link of the output relay         6 A           Electromagnetic compatibility         6 A           conducted interference         4 due to barst according to IEC 61000-4.4         2 kV (power ports) / 1 kV (signal ports)           • due to conductor-conductor surge according to IEC 61000-4.5         6 kV contact discharge / 8 kV air discharge           design of the electrical isolation         galvanic isolation           galvanic isolation         galvanic isolation           • between input and output         Yes           • between the voltage supply and other circuits         No           Connections/ Terminals         Screw terminal           product component removable terminal for auxillary and control circuit         screw terminal           • for auxillary and control circuit         screw terminal           • for design of the electrical connection         screw terminal           • between the voltage supply and other circuits         No           Connectable conductor cross-sections         screw terminal		
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz       3 A         ampacity of the output relay at DC-13       1 A         • at 125 V       0.2 A         continuous current of the DIAZED fuse link of the output relay       6 A         relay       Electromagnetic compatibility         conducted interference       2 kV (power ports) / 1 kV (signal ports)         • due to burst according to IEC 61000-4.4       2 kV (power ports) / 1 kV (signal ports)         • due to conductor-earth surge according to IEC 61000-4.5       6 kV contact discharge according to IEC 61000-4.5         • due to conductor-earth surge according to IEC 61000-4.2       6 kV contact discharge / 8 kV air discharge         delayonic isolation       galvanic isolation         design of the electrical isolation       galvanic isolation         • between the voltage supply and other circuits       No         Connections/Terminals       Yes         product component removable terminal for auxiliary and control circuit       screw terminal         • for auxiliary and control circuit       screw terminals         type of electrical connection       1 x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • infely stranded with core end processing       1 x (0.5 4 mm²)         • for AWG cables solid       1 x (0.5 4 mm²         • infely stranded with core end processing       0.5		
ampacity of the output relay at DC-13       1 A         • at 24 V       1 A         • at 125 V       0.2 A         Continuous current of the DIAZED fuse link of the output relay       6 A         Electromagnetic compatibility       6 A         conducted interference       2 kV (power ports) / 1 kV (signal ports)         • due to burst according to IEC 61000-4-4       2 kV (line to ground)         • due to conductor-conductor surge according to IEC 61000-4-5       2 kV (line to ground)         • due to conductor-conductor surge according to IEC 61000-4-2       6 kV contact discharge / 8 kV air discharge         • due to conductor-conductor surge according to IEC 61000-4-2       6 kV contact discharge / 8 kV air discharge         • detor isolation       galvanic isolation         design of the electrical isolation       galvanic isolation         • between input and output       Yes         • between the voltage supply and other circuits       No         Connections/ Terminals       Screw terminal         product component removable terminal for auxiliary and control circuit       Yes         type of electrical connection       screw terminal screw-type terminals         type of sectrical connection       screw terminal         • solid       1x (0.5 4 mm <sup>3</sup> ), 2x (0.5 2.5 mm <sup>3</sup> )         • finely stranded with core end proce		
• at 125 V       1 A         • at 125 V       0.2 A         continuous current of the DIAZED fuse link of the output relay       6 A         Electromagnetic compatibility       6 A         conducted interference       40 to burst according to IEC 61000-4-4       2 kV (power ports) / 1 kV (signal ports)         • due to burst according to IEC 61000-4-5       2 kV (line to ground)       1 kV (line to forductor-conductor-earth surge according to IEC 61000-4-5         • due to conductor-conductor surge according to IEC 61000-4-2       6 kV contact discharge / 8 kV air discharge         electrostatic discharge according to IEC 61000-4-2       6 kV contact discharge / 8 kV air discharge         Galvanic isolation       galvanic isolation         • between the voltage supply and other circuits       No         Connections/ Terminals       Yes         product component removable terminal for auxillary and control circuit       screw terminal         • for auxillary and control circuit       screw terminals         type of electrical connection       screw terminals         • solid       1 x (0.5 4 0 mm²), 2x (0.5 2.5 mm²)         • for Auxillary and control circuit       screw terminals         type of conductor cross-section       1 x (0.5 4 mm²         • for Auxillary and control circuit       0.5 4 mm²         • for Auxillary and con		SA
• at 125 V     0.2 A       continuous current of the DIAZED fuse link of the output relay     6 A       Electromagnetic compatibility     6 A       conducted interference     2 kV (power ports) / 1 kV (signal ports)       • due to conductor-candt surge according to IEC 61000-4-5     2 kV (line to ground)       • due to conductor-conductor surge according to IEC 61000-4-5     2 kV (line to ground)       • due to conductor-conductor surge according to IEC 61000-4-5     2 kV (line to ground)       • due to conductor-conductor surge according to IEC 61000-4-2     6 kV contact discharge / 8 kV air discharge       Galvanic isolation     galvanic isolation       galvanic isolation     galvanic isolation       • between input and output     Yes       • between the voltage supply and other circuits     No       Connections/Terminals     Yes       product component removable terminal for auxiliary and control circuit     screw terminal       • for auxiliary and control circuit     screw terminal       • for downed with core end processing     1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)       • finely stranded with core end processing     1x (0.5 4 mm²       • solid     0.5 4 mm²       • finely stranded with core end processing     0.5 4 mm²       • solid     0.5 4 mm²       • finely stranded with core end processing     0.5 4 mm²		
continuous current of the DIAZED fuse link of the output relay       6 A         Electromagnetic compatibility       Electromagnetic compatibility         conducted interference       4 ue to burst according to IEC 61000-4-4       2 kV (power ports) / 1 kV (signal ports)         • due to conductor-earth surge according to IEC 61000-4-5       4 kV (inte to ground)       1 kV (line to ground)         • due to conductor-conductor surge according to IEC 61000-4-2       6 kV contact discharge / 8 kV air discharge         Galvanic isolation       galvanic isolation         design of the electrical isolation       galvanic isolation         • between input and output       Yes         • between the voltage supply and other circuits       No         Connactions/ Terminals       product component removable terminal for auxiliary and control circuit         type of electrical connection       screw terminal         • for auxiliary and control circuit       screw terminals         type of connectable conductor cross-sections       1 x (0.5 4.0 mm <sup>3</sup> ), 2x (0.5 2.5 mm <sup>3</sup> )         • for AWG cables solid       1 x (20 12), 2x (20 14)         control bircuit       0.5 4 mm <sup>3</sup> * solid       0.5 4 mm <sup>3</sup> • for AWG cables solid       0.5 4 mm <sup>3</sup> • for AWG cables solid       0.5 4 mm <sup>3</sup> 0.5 4 mm <sup>3</sup> <		
relay         Electromagnetic compatibility         conducted interference         • due to burst according to IEC 61000-4-4         • due to conductor-earth surge according to IEC 61000-4-5         • due to conductor-earth surge according to IEC 61000-4-5         • due to conductor-earth surge according to IEC 61000-4-5         • due to conductor-conductor surge according to IEC 61000-4-5         • due to conductor-conductor surge according to IEC 61000-4-2         • due to conductor-conductor surge according to IEC 61000-4-2         • due to conductor-conductor surge according to IEC 61000-4-2         • due to conductor-conductor surge according to IEC 61000-4-2         • detorestic discharge according to IEC 61000-4-2         • between input and output       Yes         • between input and output       Yes         • between the voltage supply and other cincuits       No         Connec		
conducted interference <ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC</li> <li>for a conductor conductor surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>two (line to ground)</li> <li>two (line to grou (line</li></ul>	•	6 A
• due to burst according to IEC 61000-4-4       2 kV (power ports) / 1 kV (signal ports)         • due to conductor-earth surge according to IEC 61000-4-5       2 kV (line to ground)         • due to conductor-conductor surge according to IEC 61000-4-5       2 kV (line to line)         • electrostatic discharge according to IEC 61000-4-2       6 kV contact discharge / 8 kV air discharge         Calvanic isolation       galvanic isolation         galvanic isolation       galvanic isolation         • between input and output       Yes         • between the voltage supply and other circuits       No         Connections/ Terminals       Yes         product component removable terminal for auxillary and control circuit       screw terminal         • for AWG cables solid       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • finely stranded with core end processing       1x (20 12), 2x (20 14)         connectable conductor cross-section       0.5 4 mm²         • solid       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm² <t< td=""><td>Electromagnetic compatibility</td><td></td></t<>	Electromagnetic compatibility	
• due to conductor-earth surge according to IEC 61000-4-5       2 kV (line to ground)         • due to conductor-conductor surge according to IEC 61000-4-2       6 kV contact discharge / 8 kV air discharge         • design of the electrical isolation       galvanic isolation         • design of the electrical isolation       galvanic isolation         • between input and output       Yes         • between the outputs       Yes         • between the voltage supply and other circuits       No         Connections/ Terminals       Free Section         product component removable terminal for auxillary and control circuit       screw terminal screw-type terminals         type of electrical connection       screw terminal         • solid       1 x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for AWG cables solid       1x (20 12), 2x (20 14)         connectable conductor cross-section       0.5 4 mm²         • solid       0.5 4 mm²	conducted interference	
• due to conductor-conductor surge according to IEC       1 kV (line to line)         • due to conductor-conductor surge according to IEC       1 kV (line to line)         • electrostatic discharge according to IEC 61000-4-2       6 kV contact discharge / 8 kV air discharge         Calvanic isolation       galvanic isolation         • between input and output       Yes         • between the voltage supply and other circuits       No         Connections/ Terminals       Yes         product component removable terminal for auxiliary and control circuit       screw terminal         • for auxiliary and control circuit       screw terminal         • solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • for AVWG cables solid       1x (20 12), 2x (20 14)         connectable conductor cross-section       0.5 4 mm²         • solid       0.5 4 mm²         • solid       0.5 4 mm²         • solid       0.5 4 mm²	<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV (power ports) / 1 kV (signal ports)
61000-4-5         electrostatic discharge according to IEC 61000-4-2       6 kV contact discharge / 8 kV air discharge         Galvanic isolation       galvanic isolation         galvanic isolation       galvanic isolation         • between input and output       Yes         • between the voltage supply and other circuits       No         Connections/ Terminals       Yes         product component removable terminal for auxiliary and control circuit       Screw terminal         • for auxiliary and control circuit       screw terminals         type of electrical connection       screw-type terminals         • solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • finely stranded with core end processing       1x (20 12), 2x (20 14)         connectable conductor cross-section       0.5 4 mm²         • solid       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • solid       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • solid       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²	• due to conductor-earth surge according to IEC 61000-4-5	2 kV (line to ground)
electrostatic discharge according to IEC 61000-4-2       6 kV contact discharge / 8 kV air discharge         Galvanic isolation       galvanic isolation         galvanic isolation       galvanic isolation         • between input and output       Yes         • between the outputs       Yes         • between the voltage supply and other circuits       No         Connections/Terminals       Yes         product component removable terminal for auxiliary and control circuit       Screw terminal         • for auxiliary and control circuit       screw terminal         • for auxiliary and control circuit       screw-type terminals         type of electrical connection       screw-type terminals         • for auxiliary and control circuit       screw-type terminals         type of connectable conductor cross-sections       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • finely stranded with core end processing       1x (20 12), 2x (20 14)         connectable conductor cross-section       0.5 4 mm²         • Solid       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²<		1 kV (line to line)
Galvanic isolation       galvanic isolation         galvanic isolation       galvanic isolation         • between input and output       Yes         • between the outputs       Yes         • between the voltage supply and other circuits       No         Connections/ Terminals       Yes         product component removable terminal for auxiliary and control circuit       Yes         type of electrical connection       screw terminal         • for auxiliary and control circuit       screw-type terminals         type of connectable conductor cross-sections       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • finely stranded with core end processing       1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         • for AWG cables solid       1x (20 12), 2x (20 14)         connectable conductor cross-section       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²		
design of the electrical isolation     galvanic isolation       galvanic isolation     Yes       • between input and output     Yes       • between the outputs     Yes       • between the voltage supply and other circuits     No       Connections/ Terminals     Yes       product component removable terminal for auxiliary and control circuit     Yes       type of electrical connection     screw terminal       • for auxiliary and control circuit     screw-type terminals       type of connectable conductor cross-sections     1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)       • finely stranded with core end processing     1x (0.5 4 mm²), 2x (0.5 1.5 mm²)       • solid     0.5 4 mm²       • solid     0.5 4 mm²       • finely stranded with core end processing     0.5 4 mm²       • finely stranded with core end processing     0.5 4 mm²		6 kV contact discharge / 8 kV air discharge
galvanic isolation <ul> <li>between input and output</li> <li>between the outputs</li> <li>between the voltage supply and other circuits</li> <li>between the voltage supply and other circuits</li> <li>No</li> <li>Connections/ Terminals</li> <li>product component removable terminal for auxiliary and control circuit</li> <li>for auxiliary and control circuit</li> <li>for auxiliary and control circuit</li> <li>screw terminal</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>type of connectable conductor cross-sections</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables solid</li> <li>for AWG cables solid</li> <li>finely stranded with core end processing</li> <li>fi</li></ul>		
• between input and output       Yes         • between the outputs       Yes         • between the voltage supply and other circuits       No         Connections/Terminals         product component removable terminal for auxiliary and control circuit       Yes         type of electrical connection       screw terminal         • for auxiliary and control circuit       screw-type terminals         type of connectable conductor cross-sections       screw-type terminals         • solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • finely stranded with core end processing       1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         • for AWG cables solid       1x (20 12), 2x (20 14)         connectable conductor cross-section       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         AWG number as coded connectable conductor cross       scient and a m²	design of the electrical isolation	galvanic isolation
• between the outputsYes• between the voltage supply and other circuitsNoConnections/ TerminalsYesproduct component removable terminal for auxiliary and control circuitYestype of electrical connectionscrew terminal• for auxiliary and control circuitscrew terminalstype of connectable conductor cross-sections+• solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• finely stranded with core end processing1x (20 12), 2x (20 14)connectable conductor cross-section-• solid0.5 4 mm²• solid0.5 4 mm²AWG number as coded connectable conductor cross-AWG number as coded connectable conductor cross	galvanic isolation	
• between the voltage supply and other circuits       No         Connections/ Terminals       Ves         product component removable terminal for auxiliary and control circuit       Yes         type of electrical connection       screw terminal         • for auxiliary and control circuit       screw-type terminals         type of connectable conductor cross-sections       Ix (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • solid       1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         • for AWG cables solid       1x (20 12), 2x (20 14)         connectable conductor cross-section       0.5 4 mm²         • solid       0.5 4 mm²         AWG number as coded connectable conductor cross sections       0.5 4 mm²	<ul> <li>between input and output</li> </ul>	Yes
Connections/ Terminals         product component removable terminal for auxiliary and control circuit       Yes         type of electrical connection       screw terminal         • for auxiliary and control circuit       screw-type terminals         type of connectable conductor cross-sections       screw-type terminals         • solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • finely stranded with core end processing       1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         • for AWG cables solid       1x (20 12), 2x (20 14)         connectable conductor cross-section       0.5 4 mm²         • solid       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²	between the outputs	Yes
product component removable terminal for auxiliary and control circuitYestype of electrical connectionscrew terminal• for auxiliary and control circuitscrew-type terminalstype of connectable conductor cross-sections• solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)• for AWG cables solid1x (20 12), 2x (20 14)connectable conductor cross-section0.5 4 mm²• solid0.5 4 mm²• finely stranded with core end processing0.5 4 mm²• Solid0.5 4 mm²	between the voltage supply and other circuits	No
control circuitscrew terminaltype of electrical connectionscrew terminal• for auxiliary and control circuitscrew-type terminalstype of connectable conductor cross-sections• solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)• for AWG cables solid1x (20 12), 2x (20 14)connectable conductor cross-section0.5 4 mm²• solid0.5 4 mm²AWG number as coded connectable conductor cross0.5 4 mm²	Connections/ Terminals	
type of electrical connectionscrew terminal• for auxiliary and control circuitscrew-type terminalstype of connectable conductor cross-sectionsscrew-type terminals• solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)• for AWG cables solid1x (20 12), 2x (20 14)connectable conductor cross-section0.5 4 mm²• solid0.5 4 mm²• finely stranded with core end processing0.5 4 mm²AWG number as coded connectable conductor cross section0.5 4 mm²		Yes
• for auxiliary and control circuit       screw-type terminals         type of connectable conductor cross-sections       -         • solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • finely stranded with core end processing       1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         • for AWG cables solid       1x (20 12), 2x (20 14)         connectable conductor cross-section       -         • solid       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²		screw terminal
type of connectable conductor cross-sections• solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)• for AWG cables solid1x (20 12), 2x (20 14)connectable conductor cross-section0.5 4 mm²• finely stranded with core end processing0.5 4 mm²• finely stranded with core end processing0.5 4 mm²• solid0.5 4 mm²• finely stranded with core end processing0.5 4 mm²	••	
<ul> <li>solid</li> <li>1x (0.5 4.0 mm<sup>2</sup>), 2x (0.5 2.5 mm<sup>2</sup>)</li> <li>finely stranded with core end processing</li> <li>for AWG cables solid</li> <li>1x (0.5 4 mm<sup>2</sup>), 2x (0.5 1.5 mm<sup>2</sup>)</li> <li>for AWG cables solid</li> <li>1x (20 12), 2x (20 14)</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>0.5 4 mm<sup>2</sup></li> <li>finely stranded with core end processing</li> <li>0.5 4 mm<sup>2</sup></li> <li>AWG number as coded connectable conductor cross section</li> </ul>	· · · · · · · · · · · · · · · · · · ·	
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables solid</li> <li>1x (0.5 4 mm<sup>2</sup>), 2x (0.5 1.5 mm<sup>2</sup>)</li> <li>for AWG cables solid</li> <li>1x (20 12), 2x (20 14)</li> <li>connectable conductor cross-section         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>0.5 4 mm<sup>2</sup></li> </ul> </li> <li>AWG number as coded connectable conductor cross section</li> <li>AWG number as coded connectable conductor cross section</li> </ul>		1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )
• for AWG cables solid       1x (20 12), 2x (20 14)         connectable conductor cross-section       0.5 4 mm²         • solid       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         AWG number as coded connectable conductor cross section       0.5 4 mm²		
connectable conductor cross-section       0.5 4 mm²         • solid       0.5 4 mm²         • finely stranded with core end processing       0.5 4 mm²         AWG number as coded connectable conductor cross section       0.5 4 mm²		
• solid     • finely stranded with core end processing     • finely stranded connectable conductor cross section     • Solid     • So		
finely stranded with core end processing     0.5 4 mm <sup>2</sup> AWG number as coded connectable conductor cross section		0.5 4 mm <sup>2</sup>
AWG number as coded connectable conductor cross section		
section		0.0
• solid 20 12		
	• solid	20 12
• stranded 20 12		20 12
tightening torque with screw-type terminals 0.6 0.8 N·m	• stranded	20 12

stanation/ mount	ing/ dimensions				
mounting position		ar			
fastening method		sc	screw and snap-on mounting onto 35 mm DIN rail		
height			00 mm		
width			7.5 mm		
depth		90	) mm		
equired spacing					
	-side mounting				
— forward			mm		
— backwa			mm		
— upward			mm		
— downw			mm		
— at the s		0	mm		
<ul> <li>for grounded</li> </ul>	•	0			
— forward			mm		
— backwa			mm		
— upward — at the s			mm mm		
— downw			mm		
<ul> <li>for live parts</li> </ul>		0			
<ul> <li>for live parts</li> <li>forward</li> </ul>		0	mm		
— loi ward — backwa			mm		
— upward			mm		
— downw			mm		
— at the s			mm		
nbient conditions					
	e at height above sea level max	ximum 2	000 m		
ambient temperat					
during opera		-2	5 +60 °C		
<ul> <li>during storage</li> </ul>			0 +85 °C		
<ul> <li>during trans</li> </ul>			0 +85 °C		
	uring operation maximum	70	) %		
oprovals Certifica					
General Product	Approval				
Confirmation	UK	(m)	()	Ē	гпг
	ĒÔ	(uii)		Q.	L H I
	CH	ccc	EG-Konf.	UL	
	Test Certificates	Marine / Shipping			other
MV					ounor
EMV					
	Type Test Certific-	<u>ئ</u> ٹ	Hoyds		<u>Confirmation</u>
			Llovds Register	6	Confirmation
	Type Test Certific-		Lloyd's Register	PRS	<u>Confirmation</u>
	Type Test Certific-		Lloyd's Kegister urs	PRS	<u>Confirmation</u>
RCM	Type Test Certific-		Lloyd's Register urs	PRS	Confirmation
RCM	Type Test Certific-		Hoyd's Kegister uis	PRS	<u>Confirmation</u>
RCM	Type Test Certific- ates/Test Report		Lloyd's Register urs	PRS	<u>Confirmation</u>
EMV RCM Environment Environmental Co firmations	Type Test Certific- ates/Test Report		Lloyd's Register LRS	PRS	Confirmation
RCM Environment	Type Test Certific- ates/Test Report		Lloyd's Register uis	PRS	Confirmation
RCM RCM	Type Test Certific- ates/Test Report		Lloyd's Register uis	PRS	Confirmation
RCM	Type Test Certific- ates/Test Report		Llovd's Register urs	PRS	Confirmation
RCM	<u>Type Test Certific-</u> ates/Test Report		Lloyd's Register LRS	PRS	Confirmation

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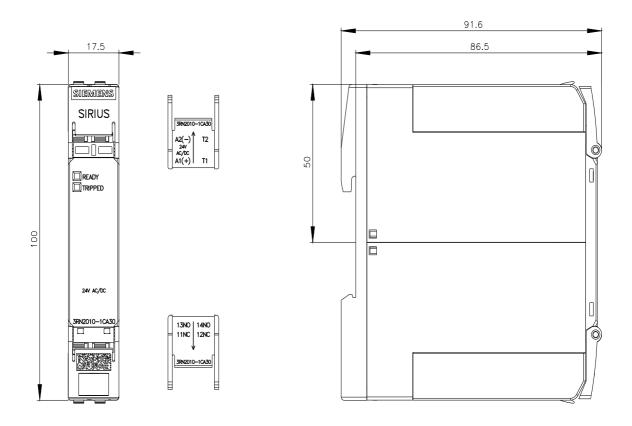
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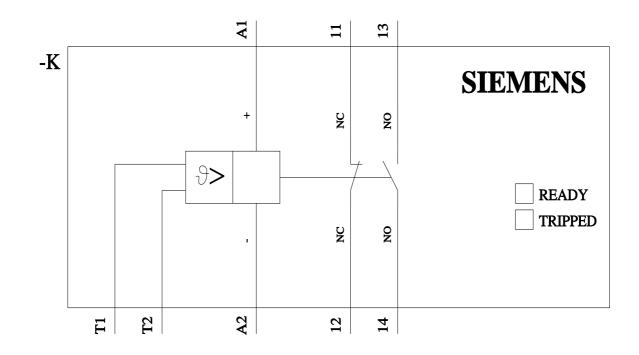
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