SIEMENS

Data sheet 3RN2010-1CW30

Thermistor motor prot. relay Standard evaluation unit 17.5 mm enclosure Screw terminals 1 NO contact, 1 NC contact US = 24-240 V AC/DC Auto RESET Suitable for bimetal switches 2 LEDs (READY/TRIPPED) Galvanic separation



Figure similar

Article number

product brandname	SIRIUS
Product category	SIRIUS 3RN2 thermistor motor protection
Product designation	Compact evaluation unit, suitable for bimetallic switch

General technical data			
Power loss [W] / for rated value of the current			
 at AC / in hot operating state 	0.9 W		
at DC / in hot operating state	0.9 W		
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			
• acc. to IEC 60068-2-27	11g / 15 ms		
Vibration resistance			
● acc. to IEC 60068-2-6	10 55 Hz: 0.35 mm		

Mechanical service life (switching cycles)	
	10 000 000
typical Electrical endurance (switching cycles)	10 000 000
	100 000
• at AC-15 / at 230 V / typical	5 A
Thermal current / of the switching element with contacts / maximum	5 A
Equipment marking	
acc. to DIN 40719 extended according to IEC	K
204-2 / acc. to IEC 750	
• acc. to DIN EN 61346-2	κ
• acc. to DIN EN 81346-2	K
Control circuit/ Control	
Type of voltage / of the control supply voltage	AC/DC
Control supply voltage / at AC	
• at 50 Hz / rated value	24 240 V
• at 60 Hz / rated value	24 240 V
Control supply voltage / at DC	
• rated value	24 240 V
Inrush current peak	
● at 24 V	0.3 A
● at 240 V	8 A
Duration of inrush current peak	
● at 24 V	0.15 ms
● at 240 V	0.15 ms
Measuring circuit	
Buffering time / in the event of power failure / minimum	40 ms
Precision	
Relative metering precision	9 %
Auxiliary circuit	
Number of NC contacts	
• for auxiliary contacts	1
Number of NO contacts	
• for auxiliary contacts	1
Number of CO contacts	
for auxiliary contacts	0
Operating current / of auxiliary contacts / at DC-13	
● at 24 V	1 A
● at 125 V	0.2 A
● at 250 V	0.1 A
Main circuit	

Operating frequency / rated value	50 60 Hz			
Outputs				
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	1 A			
● at 125 V	0.2 A			
Continuous current / of the DIAZED fuse link of the output relay	6 A			
Electromagnetic compatibility				
Conducted interference				
• due to burst / acc. to IEC 61000-4-4	2 kV (power ports) / 1 kV (signal ports)			
 due to conductor-earth surge / acc. to IEC 61000-4-5 	2 kV (line to ground)			
 due to conductor-conductor surge / acc. to IEC 61000-4-5 	1 kV (line to line)			
Electrostatic discharge / acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge			
Galvanic isolation				
Design of the electrical isolation	galvanic			
Galvanic isolation				
 between entrance and outlet 	Yes			
between the outputs	Yes			
 between the voltage supply and other circuits 	Yes			
Connections/Terminals				
Product function				
 removable terminal for auxiliary and control circuit 	Yes			
Type of electrical connection	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)			
 at AWG conductors / solid 	1x (20 12), 2x (20 14)			
AWG number / as coded connectable conductor cross section				
• solid	20 12			
• stranded	20 12			
Tightening torque				
• with screw-type terminals	0.6 0.8 N·m			
Installation/ mounting/ dimensions				
Mounting position	any			
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail			

Height	100 mm
Width	17.5 mm
Depth	90 mm
Required spacing	
with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
Ambient conditions	
Installation altitude / at height above sea level / maximum	2 000 m
Ambient temperature	
 during operation 	-25 +60 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
Relative humidity / during operation	70 %

General Prod	uct Approval	For use in hazardous locations	Declaration of Conformity	Test Certificates
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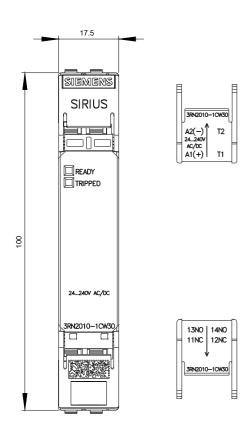


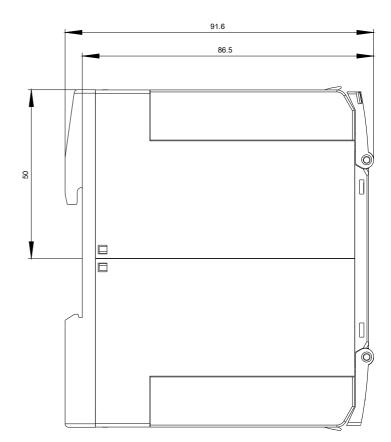


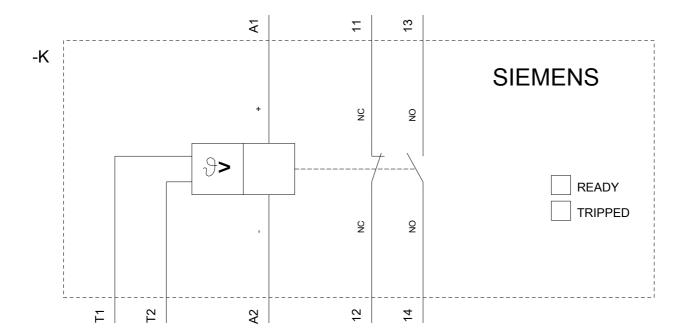
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other

Bestätigungen







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