SIEMENS

Data sheet

3RN2010-2CW30



Thermistor motor protection relay Compact evaluation unit 17.5 mm enclosure Spring-type terminal 1 NO contact, 1 NC contact US = 24 V-240 V AC/DC Auto RESET suitable for bimetallic switch 2 LEDs (Ready/Tripped) galvanic isolation

needuct brand name	SIRIUS		
product brand name			
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	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Dicyclohexylphthalat (DCHP) - 84-61-7		
Product Function			
product function			
error memory	No		
 dynamic open-circuit detection 	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	24 240 V		
at 60 Hz rated value	24 240 V		
control supply voltage at DC			
rated value	24 240 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 50 Hz				
• initial value	0.85			
	1.1			
• full-scale value	1.1			
operating range factor control supply voltage rated value at AC at 60 Hz				
• initial value	0.85			
full-scale value	1.1			
inrush current peak				
• at 24 V	0.3 A			
	8 A			
• at 240 V	δA			
duration of inrush current peak	0.45			
• 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				
material of switching contacts	AgSnO2			
number of NC contacts for auxiliary contacts	1			
number of NO contacts for auxiliary contacts	1			
number of CO contacts for auxiliary contacts	0			
Main circuit				
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	1A			
• at 125 V	0.2 A			
continuous current of the DIAZED fuse link of the output	6 A			
relay				
Electromagnetic compatibility				
Electromagnetic compatibility conducted interference				
	2 kV (power ports) / 1 kV (signal ports)			
conducted interferencedue to burst according to IEC 61000-4-4				
 conducted interference due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (line to ground)			
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 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-conductor surge according to IEC 61000-4-5 electrostatic discharge according to IEC 61000-4-2 	2 kV (line to ground) 1 kV (line to line)			
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 stranded 			20 12			
Installation/ mounting/	dimensions					
mounting position			any			
fastening method			screw and snap-on moun	ting onto 35 mm DIN rail		
height			100 mm	0		
width			17.5 mm			
depth			90 mm			
required spacing						
 with side-by-side 	mounting					
— forwards	-		0 mm			
— backwards			0 mm			
— upwards			0 mm			
— downwards	i		0 mm			
— at the side			0 mm			
 for grounded par 	ts					
— 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						
	eight above sea level max	imum	2 000 m			
ambient temperature			2 000 m			
during operation			-25 +60 °C			
during storage			-40 +85 °C			
during transport			-40 +85 °C			
relative humidity during	operation		70 %			
Approvals Certificates	oporation		10,10			
					Declaration of Con-	
General Product App	roval			EMC	formity	
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(m)	Confirmation	Ē	гпг	A	~ ~	
(m)		(PL)	FHI	<u>(</u> (2))		
ccc		UL	LIIL	RCM	EG-Konf.	
Declaration of Con-	Test Certificates	Marine / Shippi	na		other	
formity			9			
	Type Test Certific-			-781	Confirmation	
UK	ates/Test Report	Lloyds	631	And and a second second	Commation	
Ĉ		Register		DNV-GL		
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Further information						
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https://www.siemens.co						

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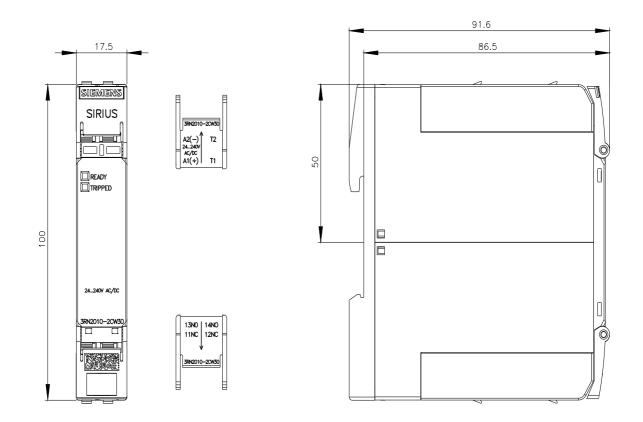
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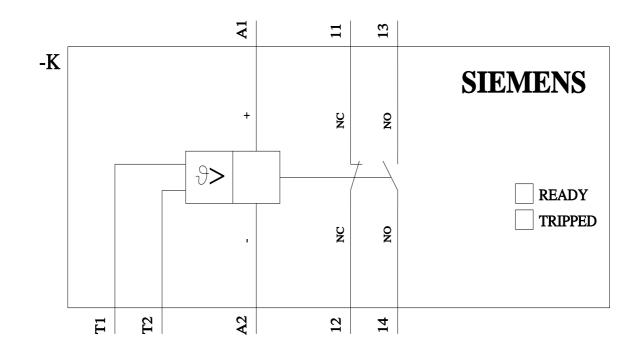
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RN2010-2CW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RN2010-2CW30&lang=en Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RN2010-2CW30/manual





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