SIEMENS

Data sheet

3RN2000-2AW30



Thermistor motor protection relay Compact evaluation unit, 17.5 mm enclosure, spring-type terminals, 1 changeover contact, US = 24 V-240 V AC/DC, Auto RESET, suitable for bimetallic switch, supply =output voltage, 1 LED (tripped)

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 (terminal A1 jumpered with root of changeover contact)		
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		
vibration resistance according to IEC 60068-2-6	10 55 Hz: 0.35 mm		
mechanical service life (switching cycles) typical	10 000 000		
electrical endurance (switching 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		
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
full-scale value	1.1
operating range factor control supply voltage rated	
value at AC at 60 Hz	0.05
• initial value	0.85
full-scale value	1.1
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	
material of switching contacts	AgSnO2
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	1
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	1 A
	0.2 A
at 125 V continuous current of the DIAZED fuse link of the	
• at 125 V continuous current of the DIAZED fuse link of the output relay	6 A
continuous current of the DIAZED fuse link of the	
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continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference	
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continuous current of the DIAZED fuse link of the output 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-conductor surge according to IEC	6 A 2 kV (power ports) / 1 kV (signal ports)
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section					
• solid	20	20 12			
stranded	20				
nstallation/ mounting/ dimensions					
mounting position	any				
fastening method		screw and snap-on mounting onto 35 mm standard mounting rail			
height	100		0	Ū	
width	17.5	mm			
depth	90 n	ım			
required spacing					
 with side-by-side mounting 					
— forwards	0 mi	n			
— backwards	0 mi	n			
— upwards	0 mi	n			
— downwards	0 mi	n			
— at the side	0 mi	n			
 for grounded parts 					
— forwards	0 mi	n			
— backwards	0 mi	n			
— upwards	0 mi	n			
— at the side	0 mi	n			
— downwards	0 mi	n			
 for live parts 					
— forwards	0 mi	n			
— backwards	0 mi	n			
— upwards	0 mi	n			
— downwards	0 mi	n			
— at the side	0 mi	n			
Ambient conditions					
installation altitude at height above sea level max	imum 2 00	0 m			
ambient temperature					
 during operation 		+60 °C			
 during storage 		+85 °C			
 during transport 		+85 °C			
relative humidity during operation	70 %	, 0			
Certificates/ approvals					
General Product Approval				EMC	
	Confirmation	Ē	гпг	A	
		জ	EAC	<u></u>	
CSA CCC		UL		RCM	
Declaration of Conformity Te	est Certificates	Marine / Shipping			
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	tes/Test Report	Register			
EG-Konf.		LRS	PRS	Divolcomor	
other					
Confirmation					

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