SIEMENS

Data sheet 3RN2010-2BA30



Thermistor motor prot. relay Standard evaluation unit 22.5 mm enclosure Spring-type terminals 2 CO contacts US = 24 V AC/DC Auto RESET Suitable for bimetal switches 2 LEDs (READY/TRIPPED) Galvanic separation

Figure similar

Article number

Product brand name	SIRIUS
Product category	SIRIUS 3RN2 thermistor motor protection
Product designation	Thermistor motor protection relay
Product type designation	3RN2

General technical data				
Display version LED		Yes		
Power loss [W] for rated value of the current				
at AC in hot operating state	W	1.1		
 at DC in hot operating state 	W	0.6		
Insulation voltage				
 for overvoltage category III according to IEC 60664 				
 — with degree of pollution 3 rated value 	V	300		
Degree of pollution		3		
Surge voltage resistance rated value	kV	4		
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)		
• 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	Α	5
Equipment marking		
 acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 		К
• acc. to DIN EN 61346-2		К
• acc. to DIN EN 81346-2		К
Control circuit/ Control		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage at AC		
at 50 Hz rated value ■	٧	24 24
• at 60 Hz rated value	V	24 24
Control supply voltage at DC		
• rated value	V	24 24
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		
• initial value		0.85
• Full-scale value		1.1
Inrush current peak		
● at 24 V	Α	1.8
Duration of inrush current peak		
● at 24 V	ms	2
Measuring circuit		
Buffering time in the event of power failure minimum	ms	40
Precision		
Relative metering precision	%	9

	AgSnO2
,	
	0
	0
	2
Hz	50 60
Α	3
Α	1
Α	0.2
Α	6
	2 kV (power ports) / 1 kV (signal ports)
	2 kV (line to ground)
	1 kV (line to line)
	6 kV contact discharge / 8 kV air discharge
	galvanic
	Yes
	Yes
	No
	Yes
	Push-in terminal
	0.5 4 mm²
	0.5 2.5 mm²
	A A A

 at AWG conductors solid 		20 12
 at AWG conductors stranded 		20 12
Connectable conductor cross-section		
• solid	mm²	0.5 4
 finely stranded with core end processing 	mm²	0.5 2.5
 finely stranded without core end processing 	mm²	0.5 4
AWG number as coded connectable conductor cross		
section		
• solid		20 12
• stranded		20 12

nstallation/ mounting/ dimensions				
Mounting position		any		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail		
Height	mm	100		
Width	mm	22.5		
Depth	mm	90		
Required spacing				
with side-by-side mounting				
— forwards	mm	0		
— Backwards	mm	0		
— upwards	mm	0		
— downwards	mm	0		
— at the side	mm	0		
• for grounded parts				
— forwards	mm	0		
— Backwards	mm	0		
— upwards	mm	0		
— at the side	mm	0		
— downwards	mm	0		
• for live parts				
— forwards	mm	0		
— Backwards	mm	0		
— upwards	mm	0		
— downwards	mm	0		
— at the side	mm	0		

Ambient conditions				
Installation altitude at height above sea level				
• maximum	m	2 000		
Ambient temperature				
during operation	°C	-25 + 60		

during storage	°C	-40 + 85
 during transport 	°C	-40 +85
Relative humidity		
during operation	%	70

Certificates/approvals

General Product Approval	EMC	For use in	Declaration of
		hazardous	Conformity
		locations	













Test Certificates	Marine / Ship	ping		other	
Type Test Certificates/Test Report	Lloyd's Register	PRS	DNV-GL	Confirmation	Environmental Confirmations

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RN2010-2BA30

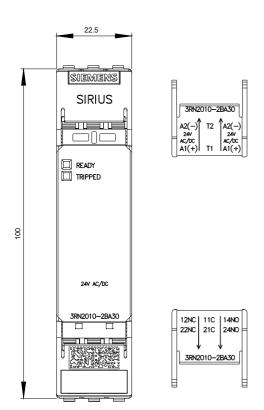
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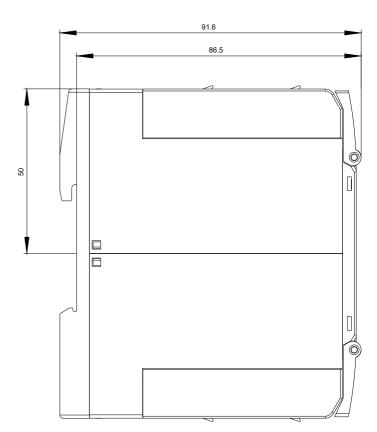
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RN2010-2BA30

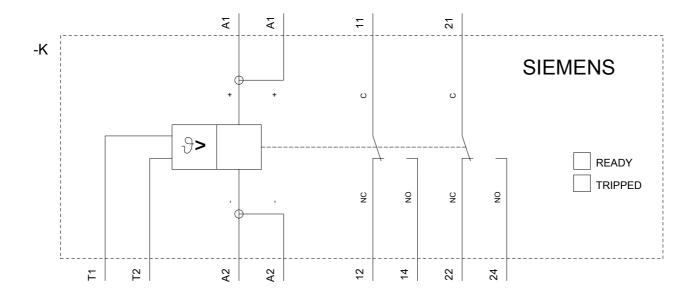
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RN2010-2BA30}}$

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RN2010-2BA30&lang=en







last modified: 09/25/2017