SIEMENS

Data sheet 3RN2013-2BW30



Thermistor motor protection relay Standard evaluation unit 22.5 mm enclosure Spring-type terminal 2 change-over contacts US = 24 V-240 V AC/DC Manual/Auto/Remote reset with ATEX approval 2 LEDs (READY/TRIPPED) Safe galvanic isolation Test/reset button Wire break monitoring Short circuit monitoring non-volatile

product brand name	SIRIUS
product category	SIRIUS 3RN2 thermistor motor protection
product designation	Thermistor motor protection relay
design of the product	Standard evaluation unit with ATEX approval, open-circuit and short-circuit detection in the sensor circuit, safe disconnection, non-volatile
product type designation	3RN2
eneral technical data	
product function	thermistor motor protection
display version LED	Yes
nsulation 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	6 kV
maximum permissible voltage for protective separation	
 between auxiliary and auxiliary circuit 	300 V
 between control and auxiliary circuit 	300 V
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 (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	K
Substance Prohibitance (Date)	07/01/2006
oduct Function	
product function	
• error memory	Yes
dynamic open-circuit detection	Yes
external reset	Yes
auto-RESET	Yes
• manual RESET	Yes
ontrol 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

• 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	0.7 A
● at 240 V	12 A
duration of inrush current peak	
• at 24 V	0.25 ms
• at 240 V	0.2 ms
Measuring circuit	
buffering time in the event of power failure minimum	40 ms
Precision	
relative metering precision	2 %
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts for auxiliary contacts	AgS1102 0
	0
number of NO contacts for auxiliary contacts	2
number of CO contacts for auxiliary contacts	2
operational current of auxiliary contacts at DC-13	1.0
• at 24 V	1.4
• at 125 V	0.2 A
• at 250 V	0.1 A
Main circuit	F0 00 H
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
• 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 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	1 kV (line to line)
61000-4-5	CIA/ contact discharge / CIA/ = := #:=-h====
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Galvanic isolation	B. J. C.
design of the electrical isolation	Protective separation
galvanic isolation	
between input and output	Yes
between the outputs	Yes
between the voltage supply and other circuits	Yes
Safety related data	
Safety Integrity Level (SIL) according to IEC 61508	1
performance level (PL) according to EN ISO 13849-1	C
category according to EN ISO 13849-1	1
Safe failure fraction (SFF)	74 %
average diagnostic coverage level (DCavg)	18 %
failure rate [FIT]	
 at rate of recognizable hazardous failures (λdd) 	6.8E-8 1/h
• at rate of non-recognizable hazardous failures (λdu)	3.08E-7 1/h
PFHD with high demand rate according to EN 62061	3.76E-7 1/h
PFDavg with low demand rate according to IEC 61508	0.0041
3	

Martine fault tolerance according to IEC 61508 O Omectionary Fernimals product component removable terminal for auxillary and control circuit Vipo of electrical connection • for auxillary and control circuit • for auxillary and control circuit • for auxillary and control circuit • finely stranded with core end processing • finely stranded with core end processing • for AWG cabibes standed • for AWG cabibes standed • for AWG cabibes attended • finely stranded with core end processing • fi	MTBF	97 a	
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product component renovable torminal for auxillary and control circuit (type of electrical connection spring-loaded terminal (push-in) spring-loaded terminals (push-in) spring-loaded		0	
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solid 0,5 4 mm² 0,5	 for auxiliary and control circuit 	spring-loaded terminals (push-in)	
• finely stranded with core end processing • finely stranded without core end processing • for AWG cables said • for AWG cables stranded • for AWG cables stranded • sold • sold • finely stranded with core end processing • sold • finely stranded with core end processing • finely stranded without core end processing • stranded • strandeded • strandedededededededededededededededededede	type of connectable conductor cross-sections		
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	 finely stranded without core end processing 	0.5 4 mm²	
Solid	 for AWG cables solid 	20 12	
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• finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • solid • stranded	connectable conductor cross-section		
Finely stranded without core end processing 0.5 4 mm²	• solid	0.5 4 mm²	
AWG number as coded connectable conductor cross section • solid • stranded Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — on mm — at the side • for grounded parts — forwards — on mm — backwards — upwards — on mm • iof live parts — of worwards • of mm • for live parts — forwards — at the side • for mm • for live parts — forwards — upwards — upwards — at the side — downwards — on mm • for live parts — forwards — on mm • for live parts — forwards — upwards — upwards — upwards — on mm • for live parts — forwards — on mm • for live parts — forwards — on mm • for live parts — downwards — upwards — upwards — upwards — upwards — on mm • for live parts — forwards — on mm • for live parts — forwards — on mm • downwards • on mm Ambient conditions Installation altitude at height above sea level maximum • ambient temperature • during operation • during storage • during transport • during storage • during transport • during torage • during transport • during transpo	 finely stranded with core end processing 	0.5 2.5 mm²	
section	finely stranded without core end processing	0.5 4 mm²	
Installation / mounting / dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm			
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width 22.5 mm depth 90 mm required spacing	fastening method	screw and snap-on mounting onto 35 mm DIN rail	
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- downwards - at the side	— backwards	0 mm	
- at the side • for grounded parts - forwards - backwards - upwards - at the side 0 mm - at the side 0 mm - at the side 0 mm • for live parts - forwards - backwards 0 mm • for live parts - forwards 0 mm - backwards 0 mm • backwards 0 mm - backwards 0 mm - upwards 0 mm - downwards 0 mm - downwards 0 mm - downwards - downwards - downwards - downwards - downwards - downwards - at the side 0 mm Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage • during transport -40 +85 °C relative humidity during operation 70 % explosion protection category for dust [Ex t] [Ex p] explosion protection category for gas [Ex e] [Ex d] [Ex px]	— upwards	0 mm	
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for live parts — forwards — backwards — upwards — upwards — downwards — at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during transport relative humidity during operation explosion protection category for dust explosion protection category for gas Certificates/ approvals O mm 2 000 m 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C [Ex t] [Ex p] explosion protection category for dust [Ex e] [Ex d] [Ex px] Certificates/ approvals	— at the side	0 mm	
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● during transport -40 +85 °C relative humidity during operation 70 % explosion protection category for dust explosion protection category for gas [Ex t] [Ex p] explosion protection category for gas [Ex e] [Ex d] [Ex px]	during operation	-25 +60 °C	
relative humidity during operation 70 % explosion protection category for dust [Ex t] [Ex p] explosion protection category for gas [Ex e] [Ex d] [Ex px] Certificates/ approvals	during storage	-40 +85 °C	
explosion protection category for dust [Ex t] [Ex p] explosion protection category for gas [Ex e] [Ex d] [Ex px] Certificates/ approvals	during transport	-40 +85 °C	
explosion protection category for gas [Ex e] [Ex d] [Ex px] Certificates/ approvals	relative humidity during operation	70 %	
Certificates/ approvals	explosion protection category for dust	[Ex t] [Ex p]	
	explosion protection category for gas	[Ex e] [Ex d] [Ex px]	
General Product Approval	Certificates/ approvals		
General Froduct Approval	General Product Approval		EMC





Confirmation







For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



Explosion Protection Certificate





Type Test Certificates/Test Report



Marine / Shipping

other





Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RN2013-2BW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RN2013-2BW30

 ${\bf Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)}$

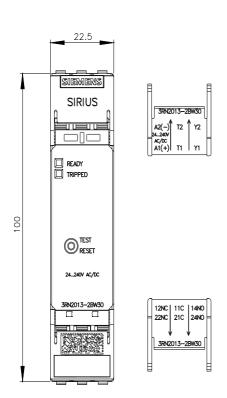
https://support.industry.siemens.com/cs/ww/en/ps/3RN2013-2BW30

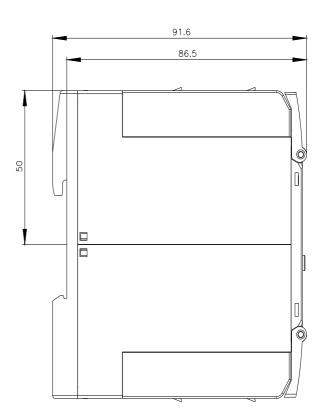
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

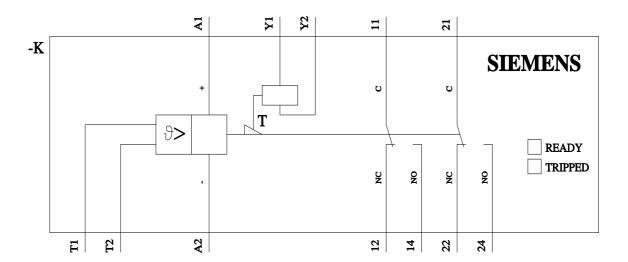
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RN2013-2BW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RN2013-2BW30/manual







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