## SIEMENS

## Data sheet

## 3RN2012-1BW30



Thermistor motor protection relay Standard evaluation unit 22.5 mm enclosure screw terminal 2 change-over contacts US = 24 V-240 V AC/DC Manual/Auto/Remote reset with ATEX approval 2 LEDs (READY/TRIPPED) 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, non-volatile		
product type designation	3RN2		
General technical data			
product function	thermistor motor protection		
display version LED	Yes		
power loss [W] for rated value of the current			
<ul> <li>at AC in hot operating state</li> </ul>	1.7 W		
<ul> <li>at DC in hot operating state</li> </ul>	1.7 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		
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	К		
Substance Prohibitance (Date)	05/28/2009		
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8		
Weight	0.19 kg		
Product Function			
product function			
error memory	Yes		
<ul> <li>dynamic open-circuit detection</li> </ul>	Yes		
external reset	Yes		
auto-RESET	Yes		
manual RESET	Yes		
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			

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	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	0		
number of NO contacts for auxiliary contacts	0		
number of CO contacts for auxiliary contacts	2		
· · · · · ·	2		
operational current of auxiliary contacts at DC-13	4.4		
• at 24 V	1A		
• at 125 V	0.2 A		
• at 250 V	0.1 A		
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 AC-15 at 250 V at 50/60 Hz ampacity of the output relay at DC-13	3 A		
	3 A 1 A		
ampacity of the output relay at DC-13			
ampacity of the output relay at DC-13 • at 24 V	1 A		
ampacity of the output relay at DC-13 • at 24 V • at 125 V continuous current of the DIAZED fuse link of the output	1 A 0.2 A		
ampacity of the output relay at DC-13 • at 24 V • at 125 V continuous current of the DIAZED fuse link of the output relay	1 A 0.2 A		
ampacity of the output relay at DC-13 • at 24 V • at 125 V continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility	1 A 0.2 A		
ampacity of the output relay at DC-13 • at 24 V • at 125 V continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference	1 A 0.2 A 6 A		
ampacity of the output relay at DC-13 • at 24 V • at 125 V continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4	1 A 0.2 A 6 A 2 kV (power ports) / 1 kV (signal ports)		
ampacity of the output relay at DC-13 • at 24 V • at 125 V 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	1 A 0.2 A 6 A 2 kV (power ports) / 1 kV (signal ports) 2 kV (line to ground)		
ampacity of the output relay at DC-13 • at 24 V • at 125 V 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 61000-4-5	1 A 0.2 A 6 A 2 kV (power ports) / 1 kV (signal ports) 2 kV (line to ground) 1 kV (line to line)		
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ampacity of the output relay at DC-13 • at 24 V • at 125 V 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 61000-4-5 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation	1 A 0.2 A 6 A 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		
ampacity of the output relay at DC-13 • at 24 V • at 125 V 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 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation	1 A 0.2 A 6 A 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		
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ampacity of the output relay at DC-13 • at 24 V • at 125 V 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 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Safety related data failure rate [FIT] at rate of recognizable hazardous failures (\lambda du)	1 A 0.2 A 6 A 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 isolation Yes Yes Yes Yes 1.11111111111111111111111111111111111		
ampacity of the output relay at DC-13         • at 24 V         • at 125 V         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 61000-4-5         • due to conductor-conductor surge according to IEC 61000-4-5         • due to isolation         design of the electrical isolation         galvanic isolation         • between input and output         • between the outputs         • between the outputs         • between the outputs         • batter the rate [FIT] at rate of recognizable hazardous failures (Adu)         failure rate [FIT] at rate of non-recognizable hazardous failures (Adu)         average diagnostic coverage level (DCavg)	1 A 0.2 A 6 A 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 isolation Yes Yes Yes Yes Yes 18 %		
ampacity of the output relay at DC-13 • at 24 V • at 125 V 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 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Safety related data failure rate [FIT] at rate of recognizable hazardous failures (Add) failures (Adu) average diagnostic coverage level (DCavg) MTBF	1 A 0.2 A 6 A 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 isolation Yes Yes Yes Yes 18 % 97 a		
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ISO 13849	
performance level (PL) according to EN ISO 13849-1	PL c
category according to EN ISO 13849-1	1
performance level (PL) according to ISO 13849-1	PL c
IEC 61508	
Safety Integrity Level (SIL) according to IEC 61508	1
safety device type according to IEC 61508-2	Туре В
PFDavg with low demand rate according to IEC 61508	0.0041
Safe failure fraction (SFF)	74 %
hardware fault tolerance according to IEC 61508	0
T1 value for proof test interval or service life according to IEC	3 a
61508	
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	screw terminal
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )
<ul> <li>for AWG cables solid</li> </ul>	1x (20 12), 2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 4 mm <sup>2</sup>
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
for the second	corow and enon an mounting anto 25 mm DIN roll
fastening method	screw and snap-on mounting onto 35 mm DIN rail
fastening method height	100 mm
-	
height	100 mm
height width	100 mm 22.5 mm
height width depth	100 mm 22.5 mm
height width depth required spacing	100 mm 22.5 mm
height width depth required spacing • with side-by-side mounting	100 mm 22.5 mm 90 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards	100 mm 22.5 mm 90 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards	100 mm 22.5 mm 90 mm 0 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards	100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards	100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side	100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts	100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards	100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — backwards	100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts         — backwards         — upwards         — upwards         — upwards         — upwards	100 mm 22.5 mm 90 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — upwards         — at the side         — forwards         — at the side         — forwards         — upwards         — upwards         — at the side	100 mm 22.5 mm 90 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — backwards         — at the side         — forwards         — at the side         — downwards         — upwards         — at the side         — at the side         — downwards	100 mm 22.5 mm 90 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — backwards         — upwards         — forwards         — backwards         — upwards         — ownwards         — ownwards         — for live parts	100 mm 22.5 mm 90 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — backwards         — at the side         • for grounded parts         — forwards         — backwards         — upwards         — ownwards         — other side         — for live parts         — forwards         • for live parts         — forwards	100 mm 22.5 mm 90 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — backwards         — upwards         — forwards         — forwards         — upwards         — forwards         — backwards         — upwards         — backwards         — backwards         — backwards         — backwards         — backwards	100 mm 22.5 mm 90 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — backwards         — upwards         — backwards         — upwards         — for grounded parts         — forwards         — backwards         — upwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — upwards	100 mm 22.5 mm 90 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - backwards         - backwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         - at the side         - downwards         - at the side         - downwards         - backwards         - upwards         - at the side         - downwards         • for live parts         - forwards         - backwards         - upwards         - downwards	100 mm 22.5 mm 90 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - backwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - backwards         - upwards         - at the side         • for grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         • for live parts         - forwards         - backwards         - upwards         - downwards         - at the side         - downwards         - at the side	100 mm 22.5 mm 90 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - backwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - backwards         - at the side         • for grounded parts         - at the side         - downwards         - at the side         - downwards         - at the side         - downwards         • for live parts         - forwards         - backwards         - upwards         - at the side         - downwards         - at the side	100 mm         22.5 mm         90 mm         0 mm
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - backwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - backwards         - at the side         • for grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         • for live parts         - forwards         - backwards         - upwards         - at the side         - downwards         - backwards         - upwards         - at the side         - downwards         - at the side         - downwards         - at the side         - at the side         - downwards         - at the side         - mode         - at the side         - mode         - at the side         - mode         - mode         - mode         - mode	100 mm         22.5 mm         90 mm         0 mm
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - backwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - backwards         - at the side         • for grounded parts         - at the side         - backwards         - upwards         - at the side         - downwards         • for live parts         - forwards         - backwards         - upwards         - at the side         - downwards         - backwards         - upwards         - backwards         - upwards         - at the side         - at the side         - at the side         Mbient conditions         installation altitude at height above sea level maximum         ambient temperature	100 mm         22.5 mm         90 mm         0 mm
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - backwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - backwards         - at the side         • for grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         • for live parts         - forwards         - backwards         - upwards         - at the side         - downwards         - backwards         - upwards         - backwards         - upwards         - at the side         Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation	100 mm 22.5 mm 90 mm 0 mm
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - backwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - backwards         - at the side         • for grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         • for live parts         - forwards         - backwards         - upwards         - at the side         - downwards         - backwards         - upwards         - at the side         Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage	100 mm 22.5 mm 90 mm 0 m 0

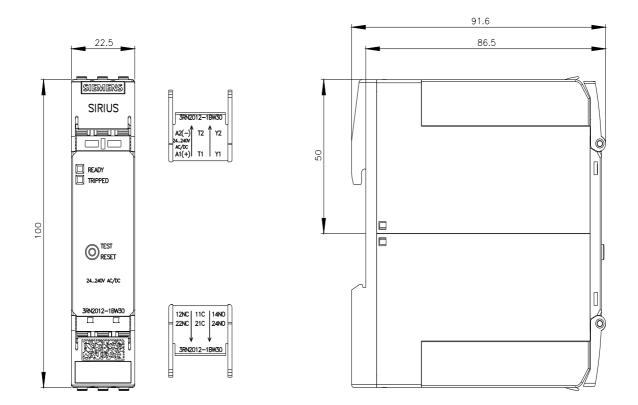
explosion protection category for dust		[Ex t]	[Ex p]		
explosion protection category for gas		[Ex e	] [Ex d] [Ex px]		
opprovals Certificates					
General Product App	roval				
	CE EG-Konf.	UK CA	<u>Confirmation</u>		EHC
EMV	For use in hazardou	s locations	Test Certificates	Marine / Shipping	
RCM	KEX ATEX	τΰν τΰν	Type Test Certific- ates/Test Report		Hoyds Kegister us
Marine / Shipping	other	Environment			
PRS	<u>Confirmation</u>	Environmental Con- firmations			
Information- and Dow https://www.siemens.co Industry Mall (Online	siemens.com/cs/ww/en/ mloadcenter (Catalogs) om/ic10 ordering system) mens.com/mall/en/en/Ca		012-1BW30		

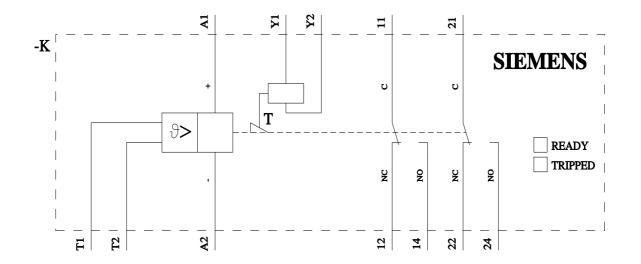
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RN2012-1BW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RN2012-1BW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RN2012-1BW30/manual





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