## **SIEMENS**

Data sheet 3RN2011-1BW30



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

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
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>	1.6 W
<ul> <li>at DC in hot operating state</li> </ul>	1.6 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	K
Substance Prohibitance (Date)	05/28/2009
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	0.183 kg
Product Function	
product function	
• error memory	No
<ul> <li>dynamic open-circuit detection</li> </ul>	Yes
external reset	Yes
• auto-RESET	No
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	

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
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
● at 125 V	0.2 A
• at 250 V	0.1 A
Main circuit	
operating frequency rated value	50 60 Hz
operating frequency rated value ampacity of the output relay at AC-15 at 250 V at 50/60 Hz	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 AC-15 at 250 V at 50/60 Hz ampacity of the output relay at DC-13	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  • at 24 V  • at 125 V  continuous current of the DIAZED fuse link of the output	3 A 1 A
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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	3 A 1 A 0.2 A
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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	3 A 1 A 0.2 A
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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	3 A  1 A  0.2 A  6 A
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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	3 A  1 A  0.2 A  6 A  2 kV (power ports) / 1 kV (signal ports)
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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	3 A  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 AC-15 at 250 V at 50/60 Hz  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)
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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	3 A  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 AC-15 at 250 V at 50/60 Hz  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)
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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  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)
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ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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  design of the electrical isolation  galvanic isolation  • between input and output  • between the outputs	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
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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  design of the electrical isolation  galvanic isolation  • between input and output  • between the outputs  • between the voltage supply and other circuits	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
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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  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	3 A  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
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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  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 (λdd)  failure rate [FIT] at rate of non-recognizable hazardous	3 A  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
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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  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\dd)  failure rate [FIT] at rate of non-recognizable hazardous failures (\lambda\dd)	3 A  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  6.8E-8 1/h  3.08E-7 1/h
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ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  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  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 (λdd)  failure rate [FIT] at rate of non-recognizable hazardous failures (λddu)  average diagnostic coverage level (DCavg)  MTBF  MTTFd	3 A  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  6.8E-8 1/h  3.08E-7 1/h  18 % 97 a
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100 40040	
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	Type B
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
for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	odow type terminale
• 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 mm²), 2x (0.5 1.5 mm²)
for AWG cables solid	1x (0.5 4 Hilli-), 2x (0.5 1.5 Hilli-)  1x (20 12), 2x (20 14)
connectable conductor cross-section	11 (20 12), 21 (20 17)
solid	0.5 4 mm²
	0.5 4 mm²
• finely stranded with core end processing  AWG number as coded connectable conductor cross	U.U 4 IIIIII
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
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	100 mm
height width	100 mm 22.5 mm
height width depth	100 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
height width depth required spacing  • with side-by-side mounting — forwards — backwards	100 mm 22.5 mm 90 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
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — downwards	100 mm 22.5 mm 90 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
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
height width depth required spacing  • with side-by-side mounting — forwards — 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
height  width depth  required spacing  • with side-by-side mounting  — forwards  — backwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — backwards  — upwards  — upwards	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  — upwards  — at the side  • for grounded parts  — forwards  — backwards  — backwards  — upwards  — at the side	100 mm  22.5 mm  90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 m
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	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  — upwards  — at the side  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts	100 mm  22.5 mm  90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 m
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	100 mm  22.5 mm  90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 m
height  width depth  required spacing  • with side-by-side mounting  — forwards  — backwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — backwards  — upwards  — torwards  — torwards  — backwards  — upwards  — at the side  — downwards  — at the side  — downwards  • for live parts  — forwards  — backwards	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  — upwards  — at the side  • for grounded parts  — forwards  — backwards  — upwards  • at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  • upwards	100 mm  22.5 mm  90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 m
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 — backwards — upwards — backwards — upwards — downwards	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  — upwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — backwards  — upwards  — downwards  — at the side	100 mm  22.5 mm  90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 m
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  — downwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — backwards  — upwards  — torwards  — backwards  — upwards  — downwards  — at the side  Ambient conditions	100 mm  22.5 mm  90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 m
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  — downwards  — at the side  — downwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — at the side  — downwards  — at the side  — downwards  — at the side  Ambient conditions  installation altitude at height above sea level maximum	100 mm  22.5 mm  90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 m
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  — downwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — backwards  — upwards  — torwards  — backwards  — upwards  — downwards  — at the side  Ambient conditions	100 mm  22.5 mm  90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 m
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  — downwards  — at the side  — downwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — at the side  — downwards  — at the side  — downwards  — at the side  Ambient conditions  installation altitude at height above sea level maximum	100 mm  22.5 mm  90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 m
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  — downwards  — at the side  — downwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — at the side  — downwards  — at the side  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	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 — upwards — at the side — downwards — at the side — downwards  • for live parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — 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 0 mm 0 mm 0 mm 0 mm 0 m
height width depth required spacing	100 mm  22.5 mm  90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 m

explosion protection category for dust

explosion protection category for gas

[Ex t] [Ex p]

[Ex e] [Ex d] [Ex px]

Approvals Certificates

**General Product Approval** 



Confirmation









**EMV** 

For use in hazardous locations

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report





Marine / Shipping

other



Confirmation

## Further information

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=3RN2011-1BW30

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RN2011-1BW30}$ 

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

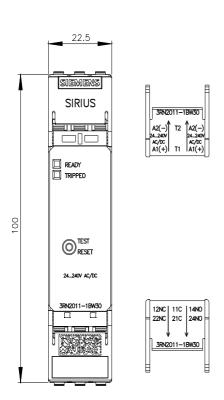
https://support.industry.siemens.com/cs/ww/en/ps/3RN2011-1BW30

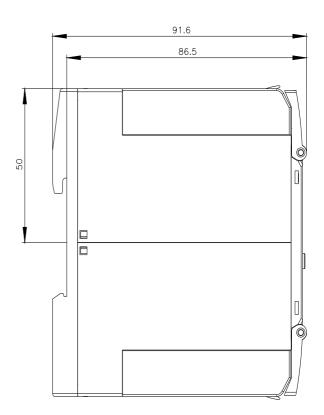
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

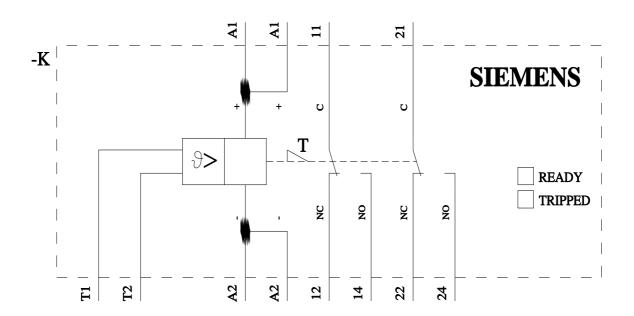
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RN2011-1BW30&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RN2011-1BW30/manual







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