## **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
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	6 kV
maximum permissible voltage for protective separation	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>between control and auxiliary circuit</li> </ul>	300 V
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
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	0.177 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 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	
mann collegit	
	50 60 Hz
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
operating frequency rated value 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
operating frequency rated value 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	3 A 1 A
operating frequency rated value 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
operating frequency rated value 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 0.2 A
operating frequency rated value 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
operating frequency rated value 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
operating frequency rated value 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)
operating frequency rated value 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
operating frequency rated value 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	3 A  1 A  0.2 A  6 A  2 kV (power ports) / 1 kV (signal ports) 2 kV (line to ground)
operating frequency rated value 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	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)
operating frequency rated value 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) 1 kV (line to line)
operating frequency rated value 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)  6 kV contact discharge / 8 kV air discharge
operating frequency rated value 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)  6 kV contact discharge / 8 kV air discharge
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operating frequency rated value 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	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  Protective separation  Yes Yes
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operating frequency rated value 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 (\lambdadd) failure rate [FIT] at rate of non-recognizable hazardous	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  Protective separation  Yes Yes Yes Yes
operating frequency rated value 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 (Add)  failure rate [FIT] at rate of non-recognizable hazardous failures (Adu)	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  Protective separation  Yes Yes Yes  6.8E-8 1/h  3.08E-7 1/h
operating frequency rated value 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)	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  Protective separation  Yes Yes Yes Yes  6.8E-8 1/h  3.08E-7 1/h  18 %

IEC 62061	
Safety Integrity Level (SIL) according to IEC 62061	SIL 1
PFHD with high demand rate according to IEC 62061	3.76E-7 1/h
ISO 13849	0.70E 7 IIII
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	FLC
	1
Safety Integrity Level (SIL) according to IEC 61508	
safety device type according to IEC 61508-2  PFDavg with low demand rate according to IEC 61508	Type B
	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 61508	3 a
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	spring-loaded terminal (push-in)
for auxiliary and control circuit	spring-loaded terminals (push-in)
type of connectable conductor cross-sections	
• solid	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
finely stranded without core end processing	0.5 4 mm²
• for AWG cables solid	20 12
• for AWG cables stranded	20 12
connectable conductor cross-section	
• solid	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
finely stranded without core end processing	0.5 4 mm²
AWG number as coded connectable conductor cross	
section	
section  ● solid	20 12
	20 12 20 12
• solid	
solid     stranded	
solid     stranded  Installation/ mounting/ dimensions	20 12
solid     stranded  Installation/ mounting/ dimensions mounting position	20 12 any
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method	20 12  any screw and snap-on mounting onto 35 mm DIN rail
solid     stranded  Installation/ mounting/ dimensions mounting position fastening method height	any screw and snap-on mounting onto 35 mm DIN rail 100 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width depth	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm
solid     stranded  Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing     with side-by-side mounting	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm
solid     stranded  Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing     with side-by-side mounting     — forwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing     with side-by-side mounting     — forwards     — backwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing     with side-by-side mounting     — forwards     — backwards     — upwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position  fastening method height width depth  required spacing     with side-by-side mounting     — forwards     — backwards     — upwards     — downwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing     with side-by-side mounting     — forwards     — backwards     — upwards     — downwards     — at the side	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing     with side-by-side mounting     — forwards     — backwards     — upwards     — downwards     — at the side     for grounded parts	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing     with side-by-side mounting     — forwards     — backwards     — upwards     — downwards     — at the side     for grounded parts     — forwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method 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	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position  fastening method 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     ofor grounded parts     — forwards     — backwards     — backwards     — upwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position  fastening method 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     of or grounded parts     — forwards     — backwards     — at the side     one forwards	any screw and snap-on mounting onto 35 mm DIN rail  100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method 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     ofor grounded parts     — forwards     — backwards     — upwards     — at the side     — downwards     — at the side     — downwards     — at the side     — downwards     ofor live parts	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method 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     ofor grounded parts     — forwards     — backwards     — upwards     — backwards     — upwards     — backwards     — backwards     — backwards     — backwards     — oforwards     — oforwards     — at the side     — downwards     ofor live parts     — forwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method 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     ofor grounded parts     — forwards     — backwards     — upwards     — backwards     — upwards     — forwards     — forwards     — at the side     — downwards     • for live parts     — forwards     — backwards     — backwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position  fastening method 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     o for grounded parts     — forwards     — backwards     — upwards     — at the side     — downwards     — at the side     — downwards     — at the side     — downwards     o for live parts     — forwards     — backwards     — backwards     — backwards     — backwards     — backwards     — upwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position  fastening method 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     o for grounded parts     — forwards     — backwards     — upwards     — at the side     o downwards     o for live parts     — forwards     o backwards     — upwards     o for live parts     — forwards     o backwards     — backwards     — backwards     — backwards     — backwards     — backwards     — downwards     o downwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width depth  required spacing     with side-by-side mounting     — forwards     — backwards     — upwards     — downwards     — at the side     for grounded parts     — backwards     — upwards     — at the side     ofor grounded parts     — forwards     — at the side     oupwards     oupwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
solid     stranded  Installation/ mounting/ dimensions  mounting position  fastening method 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     o for grounded parts     — forwards     — backwards     — upwards     — at the side     o downwards     o for live parts     — forwards     o backwards     — upwards     o for live parts     — forwards     o backwards     — backwards     — backwards     — backwards     — backwards     — backwards     — downwards     o downwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm  0 mm 0 mm 0 mm 0 mm 0 mm 0 mm

ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity during operation maximum	70 %
explosion protection category for dust	[Ex t] [Ex p]
explosion protection category for gas	[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

**Environment** 



Confirmation

Environmental Confirmations

## **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=3RN2013-2BW30

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RN2013-2BW30}$ 

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

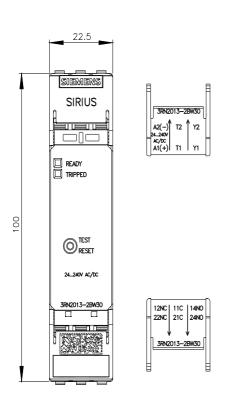
https://support.industry.siemens.com/cs/ww/en/ps/3RN2013-2BW30

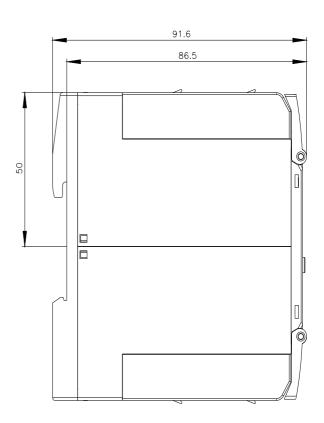
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

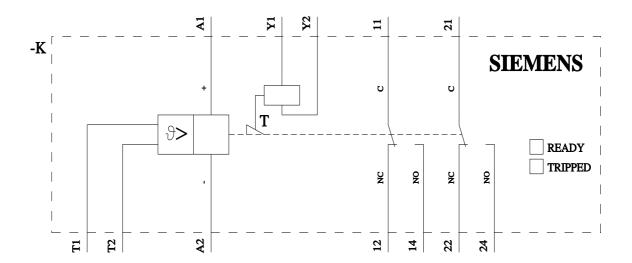
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RN2013-2BW30&lang=en

Characteristic: Derating

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







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