## **SIEMENS**

Data sheet 3RN2013-1GW30



Thermistor motor protection relay Standard evaluation unit 22.5 mm enclosure screw terminal 2 change-over contacts hard gold-plated 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
at DC in hot operating state	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)	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	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
	24 240 V
control supply voltage at DC rated value operating range factor control supply voltage rated value at	∠4 ∠4U V
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 hard gold-plated
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	2
• at 24 V	1A
at 24 v	17
at 125 V	
• at 125 V	0.2 A
• at 250 V	
• at 250 V Main circuit	0.2 A 0.1 A
at 250 V  Main circuit  operating frequency rated value	0.2 A 0.1 A 50 60 Hz
at 250 V  Main circuit  operating frequency rated value  ampacity of the output relay at AC-15 at 250 V at 50/60 Hz	0.2 A 0.1 A
at 250 V  Main circuit  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	0.2 A 0.1 A 50 60 Hz 3 A
at 250 V  Main circuit  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	0.2 A 0.1 A 50 60 Hz 3 A
<ul> <li>at 250 V</li> <li>Main circuit</li> <li>operating frequency rated value</li> <li>ampacity of the output relay at AC-15 at 250 V at 50/60 Hz</li> <li>ampacity of the output relay at DC-13</li> <li>at 24 V</li> <li>at 125 V</li> </ul>	0.2 A 0.1 A 50 60 Hz 3 A 1 A 0.2 A
at 250 V  Main circuit  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	0.2 A 0.1 A 50 60 Hz 3 A
at 250 V  Main circuit  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	0.2 A 0.1 A 50 60 Hz 3 A 1 A 0.2 A
at 250 V  Main circuit  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	0.2 A 0.1 A 50 60 Hz 3 A 1 A 0.2 A
at 250 V  Main circuit  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	0.2 A 0.1 A 50 60 Hz 3 A 1 A 0.2 A 6 A
at 250 V  Main circuit  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	0.2 A 0.1 A  50 60 Hz 3 A  1 A 0.2 A 6 A  2 kV (power ports) / 1 kV (signal ports)
at 250 V  Main circuit  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	0.2 A 0.1 A  50 60 Hz 3 A  1 A 0.2 A 6 A  2 kV (power ports) / 1 kV (signal ports) 2 kV (line to ground)
at 250 V  Main circuit  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	0.2 A 0.1 A  50 60 Hz 3 A  1 A 0.2 A 6 A  2 kV (power ports) / 1 kV (signal ports)
at 250 V  Main circuit  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	0.2 A 0.1 A  50 60 Hz 3 A  1 A 0.2 A 6 A  2 kV (power ports) / 1 kV (signal ports) 2 kV (line to ground)
at 250 V  Main circuit  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	0.2 A 0.1 A  50 60 Hz 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)
at 250 V  Main circuit  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  at due to burst according to IEC 61000-4-4  at due to conductor-earth surge according to IEC 61000-4-5  at due to conductor-conductor surge according to IEC 61000-4-5  at due to conductor-conductor surge according to IEC 61000-4-5  at due to conductor-conductor surge according to IEC 61000-4-5  at due to conductor-conductor surge according to IEC 61000-4-5  at due to conductor-conductor surge according to IEC 61000-4-2	0.2 A 0.1 A  50 60 Hz 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)
at 250 V  Main circuit  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	0.2 A 0.1 A  50 60 Hz 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
at 250 V  Main circuit  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	0.2 A 0.1 A  50 60 Hz 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
at 250 V  Main circuit  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	0.2 A 0.1 A  50 60 Hz 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
at 250 V  Main circuit  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  at due to burst according to IEC 61000-4-4  at due to conductor-earth surge according to IEC 61000-4-5  at due to conductor-conductor surge according to IEC 61000-4-1	0.2 A 0.1 A  50 60 Hz 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
at 250 V  Main circuit  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	0.2 A 0.1 A  50 60 Hz 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
at 250 V  Main circuit  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  at due to burst according to IEC 61000-4-4  at due to conductor-earth surge according to IEC 61000-4-5  at due to conductor-conductor-conductor-conduct	0.2 A 0.1 A  50 60 Hz 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
at 250 V  Main circuit  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	0.2 A 0.1 A  50 60 Hz 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
<ul> <li>at 250 V</li> <li>Main circuit</li> <li>operating frequency rated value</li> <li>ampacity of the output relay at AC-15 at 250 V at 50/60 Hz</li> <li>ampacity of the output relay at DC-13         <ul> <li>at 24 V</li> <li>at 125 V</li> </ul> </li> <li>continuous current of the DIAZED fuse link of the output relay</li> <li>Electromagnetic compatibility</li> <li>conducted interference         <ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul> </li> <li>electrostatic discharge according to IEC 61000-4-2</li> <li>Galvanic isolation</li> <li>design of the electrical isolation</li> <li>galvanic isolation</li> <li>between input and output</li> <li>between the outputs</li> <li>between the voltage supply and other circuits</li> <li>Safety related data</li> <li>failure rate [FIT] at rate of recognizable hazardous failures (λdd)</li> <li>failure rate [FIT] at rate of non-recognizable hazardous</li> </ul>	0.2 A 0.1 A  50 60 Hz 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 Yes
• at 250 V  Main circuit  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  Calvanic 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 (Add)	0.2 A 0.1 A  50 60 Hz 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 Yes 1.08E-8 1/h 3.08E-7 1/h

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	0.706.7 1/11
performance level (PL) according to EN ISO 13849-1	PL c
<u> </u>	1
category according to EN ISO 13849-1	
performance level (PL) according to ISO 13849-1	PL c
IEC 61508	_
Safety Integrity Level (SIL) according to IEC 61508	Time P
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 61508	3 a
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	S. S. Spotominal
solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
finely stranded with core end processing	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
for AWG cables solid	
connectable conductor cross-section	1x (20 12), 2x (20 14)
solid	0.5 4 mm²
	0.5 4 mm <sup>2</sup>
• finely stranded with core end processing  AWG number as coded connectable conductor cross	0.5 4 1111117
section	
• solid	20 12
<ul><li>stranded</li></ul>	20 12
tightening torque with screw-type terminals	0.6 0.8 N·m
lightening torque with screw-type terminals	0.0 0.6 N'III
Installation/ mounting/ dimensions	0.6 0.6 N·III
	any
Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions mounting position	any
Installation/ mounting/ dimensions mounting position fastening method	any screw and snap-on mounting onto 35 mm DIN rail
Installation/ mounting/ dimensions mounting position fastening method height	any screw and snap-on mounting onto 35 mm DIN rail 100 mm
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
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
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
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
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
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
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
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 0 mm
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 0 mm
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
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
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 — 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
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 — upwards — 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 0 mm 0 mm 0 mm
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  • to grounded parts — forwards — backwards — at the side  • at the side  • at the side  • 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 0 mm 0 mm 0 mm
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 downwards — at the side — downwards — at the side — 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
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 — upwards — backwards — upwards — backwards — upwards — odwnwards — at the side — downwards • for 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
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 • for grounded parts — forwards — backwards — upwards — backwards — upwards — 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
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  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  • for live parts  — 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 0 mm 0 mm 0 m
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 • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — backwards — upwards — downwards  • for wards — backwards — backwards — backwards — upwards — downwards	any screw and snap-on mounting onto 35 mm DIN rail  100 mm  22.5 mm  90 mm  0 mm
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 • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — backwards — downwards • for live parts — forwards — backwards — backwards — backwards — upwards — downwards — 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 0 mm 0 mm 0 m
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 • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards — backwards — upwards — backwards — upwards — backwards — upwards — at the side Ambient conditions	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
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 • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards — at the side — downwards — backwards — upwards — backwards — upwards — at the side  Ambient conditions installation altitude at height above sea level maximum	any screw and snap-on mounting onto 35 mm DIN rail  100 mm  22.5 mm  90 mm  0 mm
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 • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards — backwards — upwards — backwards — upwards — backwards — upwards — at the side Ambient conditions	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

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=3RN2013-1GW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RN2013-1GW30

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

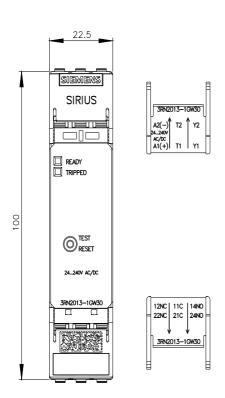
https://support.industry.siemens.com/cs/ww/en/ps/3RN2013-1GW30

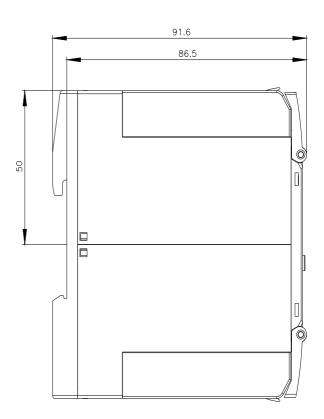
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

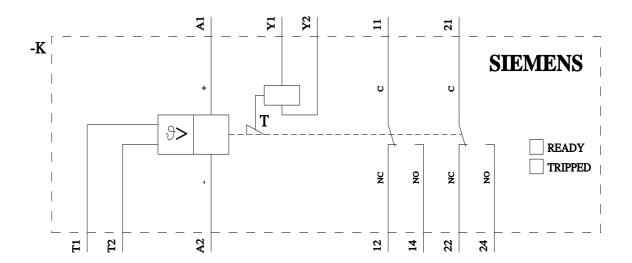
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RN2013-1GW30&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RN2013-1GW30/manual







last modified: 12/10/2024 🖸

