## SIEMENS

## Data sheet

## 3RN2011-2BA30

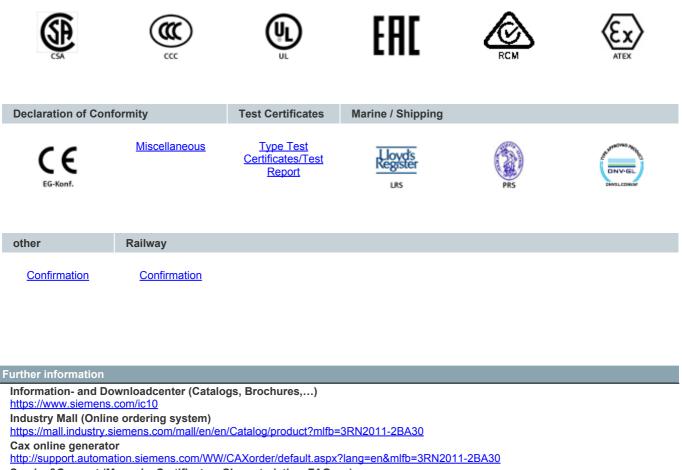


Thermistor motor protection relay Standard evaluation unit 22.5 mm enclosure Spring-type terminal 2 change-over contacts US = 24 V AC/DC Manul/Remote-Reset with ATEX approval 2 LEDs (READY/TRIPPED) galvanic isolation Test/reset button Wire break monitoring Short circuit monitoring

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			
display version LED	Yes		
power loss [W] for rated value of the current			
<ul> <li>at AC in hot operating state</li> </ul>	1.2 W		
<ul> <li>at DC in hot operating state</li> </ul>	1.2 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		
protection class IP	IP20		
shock resistance acc. to IEC 60068-2-27	11g / 15 ms		
vibration resistance acc. to IEC 60068-2-6	10 55 Hz: 0.35 mm		
mechanical service life (switching cycles) typical	10 000 000		
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000		
thermal current of the switching element with contacts maximum	5 A		
reference code acc. to IEC 81346-2	К		
Substance Prohibitance (Date)	28.05.2009 00:00:00		
Control circuit/ Control			
type of voltage of the control supply voltage	AC/DC		
control supply voltage at AC			
• at 50 Hz rated value	24 24 V		
• at 60 Hz rated value	24 24 V		
control supply voltage at DC			
rated value	24 24 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
	1.1
inrush current peak	0.5.4
• at 24 V	0.5 A
duration of inrush current peak	50
• at 24 V	50 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
Outputs	
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
continuous current of the DIAZED fuse link of the	6 A
continuous current of the DIAZED fuse link of the	
continuous current of the DIAZED fuse link of the output relay	
continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility	
continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference	6 A
continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC	6 A 2 kV (power ports) / 1 kV (signal ports)
continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5	6 A 2 kV (power ports) / 1 kV (signal ports) 2 kV (line to ground) 1 kV (line to line)
continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • electrostatic discharge acc. to IEC 61000-4-2	6 A 2 kV (power ports) / 1 kV (signal ports) 2 kV (line to ground)
continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5	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
continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation design of the electrical isolation	6 A 2 kV (power ports) / 1 kV (signal ports) 2 kV (line to ground) 1 kV (line to line)
continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • electrostatic discharge acc. to IEC 61000-4-2         Galvanic isolation         design of the electrical isolation         galvanic isolation	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
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continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-2         Galvanic isolation         design of the electrical isolation         galvanic isolation         • between input and output         • between the outputs	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
continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • electrostatic discharge acc. 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	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
continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. 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	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 No
continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. 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         Safety Integrity Level (SIL) acc. to IEC 61508	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 No 1
continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • electrostatic discharge acc. 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         Safety Integrity Level (SIL) acc. to IEC 61508         performance level (PL) acc. to EN ISO 13849-1	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 No 1 C
continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. 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         Safety Integrity Level (SIL) acc. to IEC 61508         performance level (PL) acc. to EN ISO 13849-1         category acc. to EN ISO 13849-1	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 No 1 1
continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • electrostatic discharge acc. 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         Safety Integrity Level (SIL) acc. to IEC 61508         performance level (PL) acc. to EN ISO 13849-1         category acc. to EN ISO 13849-1         Safe failure fraction (SFF)	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 No 1 1 c 1 74 %
continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • electrostatic discharge acc. 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         Safety Integrity Level (SIL) acc. to IEC 61508         performance level (PL) acc. to EN ISO 13849-1         category acc. to EN ISO 13849-1         Safe failure fraction (SFF)         average diagnostic coverage level (DCavg)	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 No 1 1
continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 electrostatic discharge acc. 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 Safety Integrity Level (SIL) acc. to IEC 61508 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 Safe failure fraction (SFF) average diagnostic coverage level (DCavg) failure rate [FIT]	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 No 1 1 c 1 74 % 18 %
continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 electrostatic discharge acc. 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 Safety Integrity Level (SIL) acc. to IEC 61508 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 Safe failure fraction (SFF) average diagnostic coverage level (DCavg) failure rate [FIT] • at rate of recognizable hazardous failures (\\dd)	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 No 1 1 c 1 74 % 18 % 0.000000068 1/h
continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. 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         Safety Integrity Level (SIL) acc. to IEC 61508         performance level (PL) acc. to EN ISO 13849-1         category acc. to EN ISO 13849-1         Safe failure fraction (SFF)         average diagnostic coverage level (DCavg)         failure rate [FIT]         • at rate of recognizable hazardous failures (\ldu)         • at rate of non-recognizable hazardous failures (\ldu)	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 No 1 1 c 1 74 % 18 % 0.000000068 1/h 0.000000068 1/h 0.00000008 1/h
continuous current of the DIAZED fuse link of the output relay         Electromagnetic compatibility         conducted interference         • due to burst acc. to IEC 61000-4-4         • due to conductor-earth surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. to IEC 61000-4-5         • due to conductor-conductor surge acc. 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         Safety Integrity Level (SIL) acc. to IEC 61508         performance level (PL) acc. to EN ISO 13849-1         category acc. to EN ISO 13849-1         Safe failure fraction (SFF)         average diagnostic coverage level (DCavg)         failure rate [FIT]         • at rate of recognizable hazardous failures (\ldu)         • at rate of non-recognizable hazardous failures (\ldu)         • PFHD with high demand rate acc. to EN 62061	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 No 1 1 c 1 74 % 18 % 0.00000068 1/h 0.00000068 1/h 0.00000031 1/h
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continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 electrostatic discharge acc. 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 Safety Integrity Level (SIL) acc. to IEC 61508 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 Safe failure fraction (SFF) average diagnostic coverage level (DCavg) failure rate [FIT] • at rate of recognizable hazardous failures (\\dd) • at rate of non-recognizable hazardous failures (\\dd) • at rate of non-recognizable hazardous failures (\\dd) PFHD with high demand rate acc. to IEC 61508 MTBF	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 No 1 1 C 1 74 % 18 % 0.000000068 1/h 0.000000068 1/h 0.00000008 1/h 0.00000031 1/h 0.0001 1/h 0.00041 97 y
continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 electrostatic discharge acc. 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 Safety related data Safety Integrity Level (SIL) acc. to IEC 61508 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 Safe failure fraction (SFF) average diagnostic coverage level (DCavg) failure rate [FIT] • at rate of non-recognizable hazardous failures (\\dd) • at rate of non-recognizable hazardous failures (\\dd) PFHD with high demand rate acc. to IEC 61508	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 No 1 1 C 1 74 % 18 % 0.00000068 1/h 0.00000068 1/h 0.00000031 1/h 0.00000038 1/h 0.0001

T1 value for proof test interval or service life acc. to IEC 61508	3 у			
Connections/ Terminals				
product function removable terminal for auxiliary and control circuit	Yes			
type of electrical connection	Push-in terminal			
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals (push-in)			
type of connectable conductor cross-sections				
• solid	0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>			
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 4 mm²			
<ul> <li>at AWG cables solid</li> </ul>	20 12			
<ul> <li>at AWG cables stranded</li> </ul>	20 12			
connectable conductor cross-section solid	0.5 4 mm²			
connectable conductor cross-section finely stranded     with core end processing	0.5 2.5 mm <sup>2</sup>			
<ul> <li>connectable conductor cross-section finely stranded without core end processing</li> </ul>	0.5 4 mm²			
<ul> <li>AWG number as coded connectable conductor cross section solid</li> </ul>	20 12			
AWG number as coded connectable conductor cross section stranded	20 12			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw and snap-on mountin	g onto 35 mm standard	I mounting rail	
height	100 mm			
width	22.5 mm			
depth	90 mm			
required spacing				
<ul> <li>with side-by-side mounting</li> </ul>				
— forwards	0 mm			
— backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— at the side	0 mm			
<ul> <li>for grounded parts</li> </ul>				
— forwards	0 mm			
— backwards	0 mm			
— upwards	0 mm			
— at the side	0 mm			
— downwards	0 mm			
<ul> <li>for live parts</li> </ul>				
— forwards	0 mm			
— backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— at the side	0 mm			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C			
<ul> <li>ambient temperature during storage</li> </ul>	-40 +85 °C			
ambient temperature during transport	-40 +85 °C			
relative humidity during operation	70 %			
explosion protection category for dust	[Ex t] [Ex p]			
explosion protection category for gas	[Ex e] [Ex d] [Ex px]			
Certificates/ approvals				
General Product Approval		EMC	For use in hazardous locations	



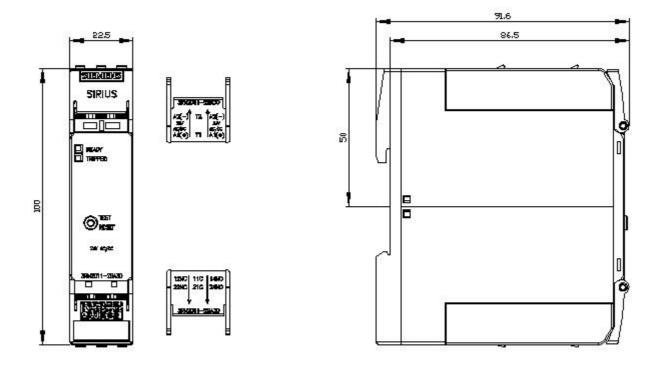
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

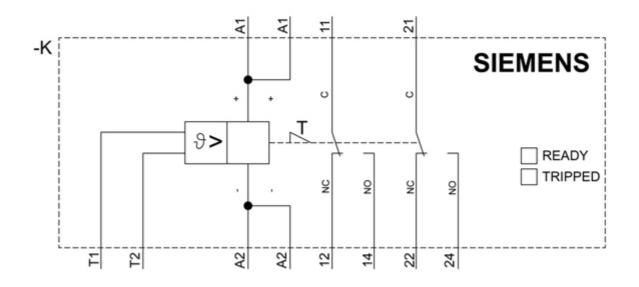
https://support.industry.siemens.com/cs/ww/en/ps/3RN2011-2BA30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RN2011-2BA30&lang=en</u>

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RN2011-2BA30/manual





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