SIEMENS

Data sheet 3RN2010-2BW30



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 Auto-reset suitable for bimetallic switch 2 LEDs (READY/TRIPPED) galvanic isolation

	OIDII IO		
product brand name	SIRIUS		
product category	SIRIUS 3RN2 thermistor motor protection		
product designation	Thermistor motor protection relay		
design of the product	Standard evaluation unit, suitable for bimetallic switch		
product type designation	3RN2		
General technical data			
product function	thermistor motor protection		
display version LED	Yes		
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 according to IEC 60068-2-27	11g / 15 ms		
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	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Dicyclohexylphthalat (DCHP) - 84-61-7		
Product Function			
product function			
• error memory			
dynamic open-circuit detection	No		
dynamic open-circuit detection	No No		
external reset			
	No		
external reset	No No		
external reset auto-RESET	No No Yes		
external resetauto-RESETmanual RESET	No No Yes		
external reset auto-RESET manual RESET Control circuit/ Control	No No Yes No		
external reset auto-RESET manual RESET Control circuit/ Control type of voltage of the control supply voltage	No No Yes No		
external reset auto-RESET manual RESET Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC	No No Yes No AC/DC		
external reset auto-RESET manual RESET Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value	No No Yes No AC/DC 24 240 V		
external reset auto-RESET manual RESET Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value	No No Yes No AC/DC 24 240 V		
external reset auto-RESET manual RESET Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC	No No Yes No AC/DC 24 240 V 24 240 V		
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• Indicate value • Old-caste value • Cold-caste value		
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• full scale value 1.1		
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product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit spring-loaded terminal (push-in) • for auxiliary and control circuit spring-loaded terminals (push-in) type of connectable conductor cross-sections • solid • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • solid • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded connectable conductor cross section	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	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation
product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit spring-loaded terminal (push-in) • for auxiliary and control circuit spring-loaded terminals (push-in) type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded • for AWG cables stranded • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded connectable conductor cross section	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	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes
type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables stranded • for AWG cables stranded • finely stranded with core end processing • for AWG cables stranded • finely stranded with core end processing • for AWG cables stranded • solid • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing	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	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes
 for auxiliary and control circuit type of connectable conductor cross-sections solid finely stranded with core end processing finely stranded without core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded solid solid finely stranded with core end processing for auxiliary and control circuit for Mm² for A mm² for AWG cables solid 20 12 connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section 	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	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes
type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded • solid • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • Solid	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 Connections/ Terminals product component removable terminal for auxiliary and	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes
 solid finely stranded with core end processing finely stranded without core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded solid solid finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded connectable conductor cross section 	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 Connections/ Terminals product component removable terminal for auxiliary and control circuit	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes
 finely stranded with core end processing finely stranded without core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded 20 12 for AWG cables stranded 20 12 connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section 	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes Spring-loaded terminal (push-in)
 finely stranded without core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded 20 12 connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing 4 mm² AWG number as coded connectable conductor cross section	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes Spring-loaded terminal (push-in)
 finely stranded without core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded 20 12 connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing MG number as coded connectable conductor cross section AWG number as coded connectable conductor cross section	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes spring-loaded terminal (push-in) spring-loaded terminals (push-in)
 for AWG cables solid for AWG cables stranded 20 12 connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section AWG number as coded connectable conductor cross section	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • solid	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes Spring-loaded terminal (push-in) spring-loaded terminals (push-in) 0.5 4 mm²
connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing AWG number as coded connectable conductor cross section	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes Yes spring-loaded terminal (push-in) spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm²
 solid finely stranded with core end processing finely stranded without core end processing MG number as coded connectable conductor cross section 0.5 4 mm² 0.5 4 mm²	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes Yes spring-loaded terminal (push-in) spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm²
 ◆ finely stranded with core end processing ◆ finely stranded without core end processing AWG number as coded connectable conductor cross section 	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • dectrostatic discharge according to IEC 61000-4-2 Galvanic isolation • between isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes Spring-loaded terminal (push-in) spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12
 ◆ finely stranded with core end processing ◆ finely stranded without core end processing AWG number as coded connectable conductor cross section 	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • dectrostatic 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 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes Spring-loaded terminal (push-in) spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12
• finely stranded without core end processing AWG number as coded connectable conductor cross section	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes Spring-loaded terminal (push-in) spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12
AWG number as coded connectable conductor cross section	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes Yes Spring-loaded terminal (push-in) spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12
section	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • determinent according to IEC 61000-4-2 Galvanic isolation • between input and output • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes Spring-loaded terminal (push-in) spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 20 12 20 12 20 12 0.5 4 mm² 0.5 2.5 mm²
• solid 20 12	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • determinent according to IEC 61000-4-2 Galvanic isolation • between input and output • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes Spring-loaded terminal (push-in) spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 20 12 20 12 20 12 0.5 4 mm² 0.5 2.5 mm²
	conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge 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 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing	2 kV (line to ground) 1 kV (line to line) 6 kV contact discharge / 8 kV air discharge galvanic isolation Yes Yes Yes Yes Spring-loaded terminal (push-in) spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 20 12 20 12 20 12 0.5 4 mm² 0.5 2.5 mm²

• stranded	20 12			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw and snap-on mounting	screw and snap-on mounting onto 35 mm DIN rail		
height	100 mm			
width	22.5 mm			
depth	90 mm			
required spacing				
 with side-by-side mounting 				
— forwards	0 mm			
— backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— at the side	0 mm			
 for grounded parts 				
— forwards	0 mm			
— backwards	0 mm			
— upwards	0 mm			
— at the side	0 mm			
— downwards	0 mm			
 for live parts 				
— 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			
ambient temperature				
 during operation 	-25 +60 °C			
during storage	-40 +85 °C			
during transport	-40 +85 °C			
relative humidity during operation	70 %			
Approvals Certificates				
General Product Approval		EMC	Declaration of Con-	

Confirmation











Declaration of Conformity

Test Certificates

Marine / Shipping

other



Type Test Certificates/Test Report







Confirmation

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RN2010-2BW30

Cax online generator

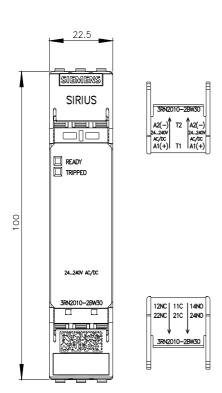
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RN2010-2BW30

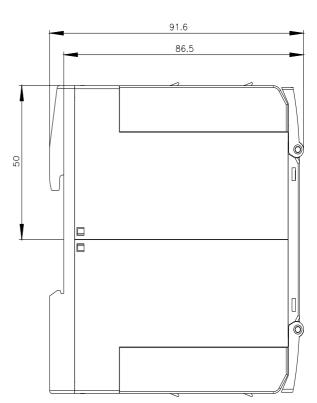
https://support.industry.siemens.com/cs/ww/en/ps/3RN2010-2BW30

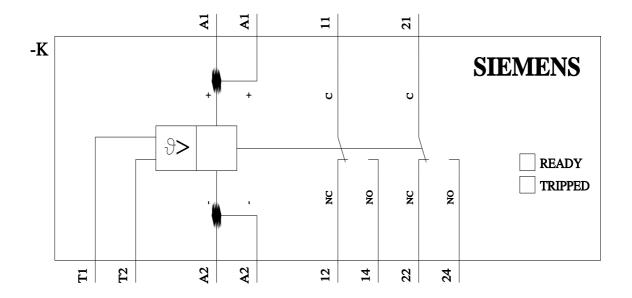
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RN2010-2BW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RN2010-2BW30/manual







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