SIEMENS

Data sheet

3RS2600-1BW30



Temperature monitoring relay with display for resistance temperature sensors and thermocouples, 24 - 240 V AC/DC Width 22.5 mm, 2 change-over contacts, screw terminal

Figure sin	nilar
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product brand name	SIRIUS
product designation	Temperature monitoring relay
design of the product	Digital device, 1 sensor, 2 threshold values
product type designation	3RS2
General technical data	
product function	temperature monitoring
display version LED	No
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
test voltage for isolation test	4 kV
degree of pollution	3
protection class IP	20
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
switching behavior	monostable
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
certificate of suitability relating to ATEX	Yes, with sensor extension module 3RS29
reference code acc. to IEC 81346-2	К
measurable temperature	
initial value	-99 °C
full-scale value	1 800 °C
measurable Fahrenheit temperature	
 initial value 	-146 °F
full-scale value	3 276 °F
Substance Prohibitance (Date)	01.05.2012 00:00:00
product function	
• error memory	Yes
external reset	Yes
design of the sensor connectable	Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC Thermocouples: Type J, K, T, E, N, S, R, B
measurable temperature with KTY-sensor maximum	300 °C
sensor current with KTY-sensor	0.33 mA
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 1 at AC	
 at 50 Hz rated value 	24 V
• at 50 Hz	24 240 V
 at 60 Hz rated value 	24 V
• at 60 Hz	24 240 V
control supply voltage 2 at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
control supply voltage at DC rated value	24 240 V
control supply voltage 1	
at DC rated value	24 V
• at DC	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
supply voltage frequency for auxiliary and control circuit	50 60 Hz
number of measuring circuits	1
buffering time in the event of power failure minimum	20 ms
Precision	
	4.0/
relative metering precision	1 %
Short-circuit protection	1 %
	1 %
Short-circuit protection	gL/gG: 6 A or MCB type C: 1 A
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the	
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the	gL/gG: 6 A or MCB type C: 1 A
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required	gL/gG: 6 A or MCB type C: 1 A
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No No
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protectool Munication/ Protocol protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No No AgSnO2 0 0
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection • for short circuit protection • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection • for short circuit protection protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No No AgSnO2 0 0
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection munication/ Protocol protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts operational current of auxiliary contacts at DC-13	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 0 2
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection munication/ Protocol protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts operational current of auxiliary contacts at DC-13 • at 24 V </th <th>gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No No AgSnO2 0 0 2 1 A</th>	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No No AgSnO2 0 0 2 1 A
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection matterial of switching contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts operational current of auxiliary contacts at DC-13 • at 24 V • at 125 V	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No No AgSnO2 0 0 2 1 A 0.2
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No No AgSnO2 0 0 2 1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V contact reliability of auxiliary contacts	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 0 2 1 A 0.2 A 0.1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection mutication/ Protocol protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts at DC-13 • at 24 V • at 250 V • at 250 V <th>gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 2 1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300</th>	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 2 1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required Communication/ Protocol protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at DC-13 • at 24 V • at 125 V • at 250 V contact reliability of auxiliary contacts contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL influence of the surrounding temperature	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 2 1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 0.05% per K deviation from T20
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts at DC-13 • at 24 V • at 250 V contact reliability of auxiliary contacts according to UL </th <th>gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 0 2 1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 0.05% per K deviation from T20 50 60 Hz</th>	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 0 2 1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 0.05% per K deviation from T20 50 60 Hz
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the relay outputs required design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short-circuit protection of the NO contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required • for short circuit protection of the NC contacts of the relay outputs safety-related required Communication/ Protocol protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V contact reliability of auxiliary contacts contact reliability of auxiliary contacts ampacity of the surrounding temperature operating frequency rated value ampacity of the output relay at AC-15 at 250 V at 50/60 Hz	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 0 2 1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 0.05% per K deviation from T20 50 60 Hz

	0.0.4
• at 125 V	0.2 A
continuous current of the DIAZED fuse link of the output relay	6 A
continuous current of DIAZED fuse link of the output relay safety-related	2 A
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 60947-1	Class B
conducted interference	
 due to burst acc. to IEC 61000-4-4 	2 kV (power ports), 1 kV (signal ports)
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV (line to ground)
• due to conductor-conductor surge acc. to IEC	1 kV (line to line)
61000-4-5	
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Galvanic isolation	
design of the electrical isolation	galvanic isolation
galvanic isolation	
 between input and output 	Yes
 between the outputs 	Yes
 between the voltage supply and other circuits 	Yes
Safety related data	
Safety Integrity Level (SIL) acc. to IEC 61508	1
SIL Claim Limit (subsystem) acc. to EN 62061	1
performance level (PL) acc. to EN ISO 13849-1	C
category acc. to EN ISO 13849-1	1
Safe failure fraction (SFF)	66 %
PFHD with high demand rate acc. to EN 62061	0.0000004 1/h
hardware fault tolerance acc. to IEC 61508	0
T1 value for proof test interval or service life acc. to	20 у
IEC 61508	
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
	Yes screw-type terminals
and control circuit	
and control circuit type of electrical connection	screw-type terminals
and control circuit type of electrical connection • for auxiliary and control circuit	screw-type terminals
and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections	screw-type terminals screw-type terminals
and control circuit type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • solid	screw-type terminals screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
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	screw-type terminals screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
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 • at AWG cables solid	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²)
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 • at AWG cables solid connectable conductor cross-section	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14)
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 • at AWG cables solid connectable conductor cross-section • solid	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ²
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ²
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section	screw-type terminals screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (20 12), 2x (20 14) 0.5 4 mm² 0.5 4 mm²
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ²
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • solid • stranded	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • at AWG cables solid Connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions	screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 0.6 0.8 N·m
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 0.6 0.8 N·m any
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position fastening method	screw-type terminals screw-type terminals $1x (0.5 4.0 \text{ mm}^2), 2x (0.5 2.5 \text{ mm}^2)$ $1x (0.5 4 \text{ mm}^2), 2x (0.5 2.5 \text{ mm}^2)$ 1x (20 12), 2x (20 14) $0.5 4 \text{ mm}^2$ $0.5 4 \text{ mm}^2$ 20 12 20 12 0.6 0.8 N·m any screw and snap-on mounting onto 35 mm standard mounting rail
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position fastening method height	screw-type terminals screw-type terminals $1x (0.5 4.0 \text{ mm}^2), 2x (0.5 2.5 \text{ mm}^2)$ $1x (0.5 4 \text{ mm}^2), 2x (0.5 2.5 \text{ mm}^2)$ 1x (20 12), 2x (20 14) $0.5 4 \text{ mm}^2$ $0.5 4 \text{ mm}^2$ 20 12 20 12 20 12 0.6 0.8 N·m any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position fastening method height width	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12 0.6 0.8 N·m any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 22.5 mm
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position fastening method height width depth	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12 0.6 0.8 N·m any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 22.5 mm
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12 0.6 0.8 N·m any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 22.5 mm
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 0.6 0.8 N·m any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 22.5 mm 90 mm
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12 20 12 20 12 20 12 20 12 20 12 0.6 0.8 N·m any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 22.5 mm 90 mm 0 mm
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting - forwards - backwards	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12 0.6 0.8 N·m any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 22.5 mm 90 mm 0 mm
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • asolid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting - forwards - backwards - upwards	screw-type terminals screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12 0.6 0.8 N·m any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm
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 • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards	screw-type terminals screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (20 12), 2x (20 14) 0.5 4 mm² 0.5 4 mm² 20 12 20 12 20 12 0.6 0.8 N·m any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm

<i>.</i>		•		
— forwards		0 mm		
— backward	S	0 mm		
— upwards	— upwards 0 mm — at the side 0 mm			
	— downwards 0 mm			
 for live parts 				
— forwards		0 mm		
— backward	S	0 mm		
— upwards		0 mm		
— downward		0 mm		
— at the side	9	0 mm		
Ambient conditions				
installation altitude at	height above sea level maximum	2 000 m		
ambient temperatur	e			
 during operation 	n	-25 +60 °C		
 during storage 		-40 +85 °C		
 during transport 	rt	-40 +85 °C		
relative humidity duri	ng operation	70 %		
explosion protectio	n category for dust	Ex II (2) D [b1] [Ex h] [pyb]	[tb] [mb] [kb] [sb] III C D	b
explosion protectio	n category for gas	Ex II (2) G [b1] [Ex h] [db] [e	eb] [pyb] [mb] [ob] [q] [kt	o] [sb] II C Gb
Certificates/ approva	ls			
General Product A	oproval		EMC	For use in hazard- ous locations
			\mathbf{A}	
(Sp.		EAC	RCM	KEx ATEX
Functional Safety/Safety of Machinery	CCC UL	Test Certificates	RCM	other
Safety/Safety of	Declaration of Conformity		Marine / Shipping	other Confirmation
Safety/Safety of Machinery Type Examination	CE	ous Special Test Certific-	DNV-GL	
Safety/Safety of Machinery <u>Type Examination</u> <u>Certificate</u>	CE	ous Special Test Certific-	DNV-GL	
Safety/Safety of Machinery <u>Type Examination</u> <u>Certificate</u> Railway	CE	ous Special Test Certific-	DNV-GL	
Safety/Safety of Machinery Type Examination Certificate Railway Confirmation	CE	ous <u>Special Test Certific-</u> ate	DNV-GL	
Safety/Safety of Machinery Type Examination Certificate Railway Confirmation Confirmation Information- and Do https://www.siemens. Industry Mall (Onlin	Miscellane EG-Konf.	ous <u>Special Test Certific-ate</u>	DNV-GL	

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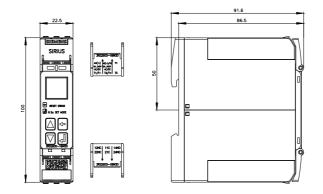
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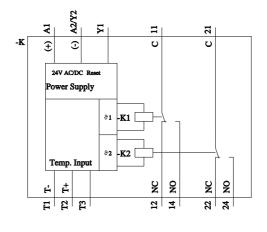
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS2600-1BW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS2600-1BW30/manual





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