SIEMENS

Data sheet

3RS2600-1BA30



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

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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	0102	
product function	temperature monitoring	
display version LED	No	
insulation voltage for overvoltage category III according to IEC	300 V	
60664 with degree of pollution 3 rated value		
test voltage for isolation test	4 kV	
degree of pollution	3	
protection class IP	20	
shock resistance according to IEC 60068-2-27	11g / 15 ms	
switching behavior	monostable	
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	
certificate of suitability relating to ATEX	Yes, with sensor extension module 3RS29	
reference code according to IEC 81346-2	К	
influence of the surrounding temperature	0.05% per K deviation from T20	
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)	05/01/2012	
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5	
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	

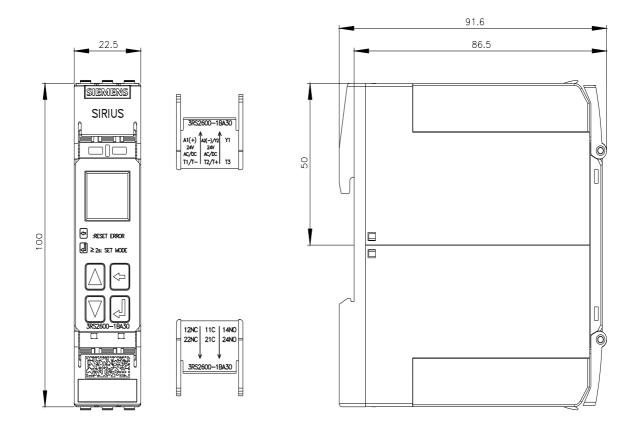
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Auxiliary circuit AgSnO2 material of switching contacts AgSnO2 number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 2 operational current of auxiliary contacts at DC-13 2 • at 24 V 0.2 A • at 250 V 0.1 A contact reliability of auxiliary contacts one incorrect switching operation of 100 million switching operations (17 V, 5 mA) contact reliability of auxiliary contacts according to UL R300 / B300 operating frequency rated value 50 60 Hz 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 • at 24 V 1 A	Communication/ Protocol		
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• at 24 V1 A• at 125 V0.2 A• at 250 V0.1 Acontact reliability of auxiliary contactsone incorrect switching operation of 100 million switching operations (17 V, 5 mA)contact rating of auxiliary contacts according to ULR300 / B300operating frequency rated value50 60 Hzampacity of the output relay at AC-15 at 250 V at 50/60 Hz3 Aampacity of the output relay at DC-13 • at 24 V1 Ao at 125 V0.2 A	Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts	AgSnO2 0	
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mA)contact rating of auxiliary contacts according to ULR300 / B300operating frequency rated value50 60 Hzampacity of the output relay at AC-15 at 250 V at 50/60 Hz3 Aampacity of the output relay at DC-131 A• at 24 V1 A• at 125 V0.2 A	Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts operational current of auxiliary contacts at DC-13 • at 24 V	AgSnO2 0 0 2 1 A	
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• at 24 V 1 A • at 125 V 0.2 A	Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of NO 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 • at 250 V contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL	AgSnO2 0 0 2 1 A 0.2 A 0.1 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300	
• at 125 V 0.2 A	Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts operational current of auxiliary contacts at DC-13 • at 24 V • at 25 V • at 250 V contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL operating frequency rated value	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 50 60 Hz	
	Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of CO 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 • at 250 V contact reliability of auxiliary contacts contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL operating frequency rated value ampacity of the output relay at AC-15 at 250 V at 50/60 Hz	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 50 60 Hz	
continuous current of the DIAZED fuse link of the output 6 A	Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of CO 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 • at 250 V contact reliability of auxiliary contacts contact reliability of auxiliary contacts contact reliability of auxiliary contacts according to UL operating frequency rated value ampacity of the output relay at AC-15 at 250 V at 50/60 Hz	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 50 60 Hz 3 A	
	Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of NO 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 • at 250 V contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL operating frequency rated value ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V	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 50 60 Hz 3 A 1 A	

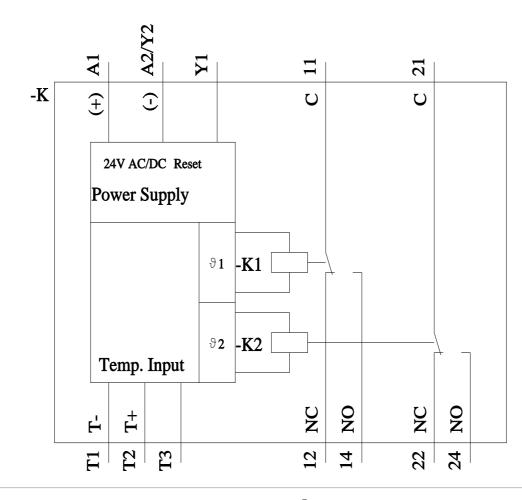
relay		
continuous current of DIAZED fuse link of the output relay	2 A	
safety-related		
Electromagnetic compatibility		
EMC emitted interference according to IEC 60947-1	Class B	
conducted interference	$2 \frac{1}{2}$	
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (power ports), 1 kV (signal ports) 2 kV (line to ground)	
due to conductor-conductor surge according to IEC	1 kV (line to line)	
61000-4-5		
field-based interference according to IEC 61000-4-3	10 V/m	
electrostatic discharge according 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 	No	
Safety related data		
SIL Claim Limit (subsystem) according to EN 62061	1	
performance level (PL) according to EN ISO 13849-1	C	
category according to EN ISO 13849-1	1	
Safe failure fraction (SFF)	66 %	
hardware fault tolerance according to IEC 61508	0	
T1 value for proof test interval or service life according to IEC 61508	20 a	
Connections/ Terminals		
product component removable terminal for auxiliary and	Yes	
control circuit		
type of electrical connection	screw-type terminals	
for auxiliary and control circuit	screw-type terminals	
type of connectable conductor cross-sections		
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	
 finely stranded with core end processing 	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)	
 for AWG cables solid 	1x (20 12), 2x (20 14)	
connectable conductor cross-section		
• solid	0.5 4 mm²	
 finely stranded with core end processing 	0.5 4 mm²	
AWG number as coded connectable conductor cross section		
• solid	20 12	
stranded	20 12	
tightening torque with screw-type terminals	0.6 0.8 N·m	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	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	
downwardd	V 11111	

 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	-25 +60 °C				
 during storage 	-40 +85 °C					
during transport	-40 +85 °C					
relative humidity during operation	70 %					
explosion protection category for dust	Ex II (2) D [b1] [Ex h] [pyb] [tb					
explosion protection category for gas	Ex II (2) G [b1] [Ex h] [db] [eb]	[pyb] [mb] [ob] [q] [kb] [sb]] II C Gb			
Approvals Certificates						
General Product Approval		EMC	For use in hazard- ous locations			
) EHC	RCM	KEx ATEX			
For use in hazard- ous locations Functional Safety/Safety of Ma- chinery Declaration	of Conformity	Test Certificates	Marine / Shipping			
Explosion Protection Type Examination Cer- Certificate tificate	G C C C EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>				
Marine / Shipping other						
Further information						
Siemens has decided to exit the Russian market (see here).						
https://press.siemens.com/global/en/pressrelease/siemens-wind Siemens is working on the renewal of the current EAC certif Please contact your local Siemens office on the status of validity EAC relevant market (other than the sanctioned EAEU member Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875	icates. of the EAC certification if you inter	nd to import or offer to supp	bly these products to an			
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?m	lfb=3RS2600-1BA30					
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS2600-1BA30						
Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3RS2600-1BA	<u> </u>					
Image database (product images, 2D dimension drawings, 3 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3		ns, EPLAN macros,)				

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS2600-1BA30&lang=en Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS2600-1BA30/manual





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8/11/2023 🖸