SIEMENS

Data sheet

3RS2900-1AW30



Sensor extension module for 3RS26/8 Temperature monitoring relay, 2 sensors, sensor status relay, analog input, 22.5 mm width, 24 - 240 V AC/DC screw terminals

Figure similar

product brand name	SIRIUS		
product designation	Sensor extension module		
design of the product	2 additional resistivity sensors, analog input 4 20 mA, ATEX via analog input, status relay		
product type designation	3RS2		
General technical data			
product function	temperature monitoring		
display version LED	Yes		
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 digital unit 3RS26/3RS28		
reference code acc. to IEC 81346-2	К		
measurable temperature			
 initial value 	-50 °C		
full-scale value	750 °C		
measurable Fahrenheit temperature			
 initial value 	-58 °F		
full-scale value	1 382 °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		
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	3
buffering time in the event of power failure minimum	20 ms
Precision	
relative metering precision	1 %
Short-circuit protection	
design of the fuse linkfor short-circuit protection of the NO contacts of the	gL/gG: 6 A or MCB type C: 1 A
 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 gL/gG: 6 A or MCB type C: 1 A
 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 	
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• at 125 V	0.2 A			
• at 125 V				
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 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	С			
category acc. to EN ISO 13849-1	1			
Safe failure fraction (SFF)	66 %			
PFHD with high demand rate acc. to EN 62061	0.0000029 1/h			
hardware fault tolerance acc. to IEC 61508	0			
T1 value for proof test interval or service life acc. to IEC 61508	20 у			
Connections/ Terminals				
product component removable terminal for auxiliary	Yes			
and 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)			
 at 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	20 12			
• solid	20 12 20 12			
stranded tightening torque with screw-type terminals	20 12 0.6 0.8 N·m			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail 100 mm			
height	22.5 mm			
depth	90 mm			
required spacing				
with side-by-side mounting				
with side-by-side mounting — forwards	0 mm			
— lorwards — backwards	0 mm			
— upwards	0 mm			
— upwards — downwards				
	0 mm			
— at the side	0 mm			
 for grounded parts forwards 	0 mm			
— forwards	0 mm			

— backwards	3	0	mm		
— upwards		0	0 mm		
— at the side		0	0 mm		
- downward	s	0	mm		
 for live parts 					
— forwards		0	0 mm		
— backwards	5	0	0 mm		
— upwards		0	0 mm		
- downward	s	0	0 mm		
— at the side)	0	0 mm		
Ambient conditions					
installation altitude at	height above sea level maximu	m 2	2 000 m		
ambient temperatur	e				
 during operatio 	n	-2	-25 +60 °C		
 during storage 		-4	-40 +85 °C		
 during transpor 	t	-4	-40 +85 °C		
relative humidity durir	ng operation	7	70 %		
explosion protection	n category for dust	E	Ex II (2) D [b1] [Ex h] [pyb] [tb] [mb] [kb] [sb] III C Db		
explosion protection category for gas Ex II (2) G [b1]				eb] [pyb] [mb] [ob] [q] [kt	o] [sb] II C Gb
Certificates/ approval	S				
General Product Ap	oproval			EMC	For use in hazard- ous locations
S.	CCC	(ال س	EHC	RCM	ATEX
Functional Safety/Safety of Machinery	Declaration of Conformity		Test Certificates	Marine / Shipping	other
<u>Type Examination</u> <u>Certificate</u>	<u>Miscellaneous</u>	CE EG-Konf.	Special Test Certific- ate	DNV-GL DNV-GL	Confirmation

Further information

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=3RS2900-1AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS2900-1AW30

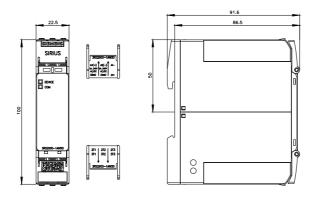
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

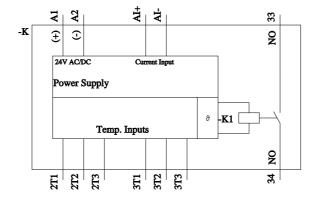
https://support.industry.siemens.com/cs/ww/en/ps/3RS2900-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS2900-1AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS2900-1AW30/manual





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5/1/2021 🖸