SIEMENS

Data sheet 3RS2900-1AA30



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

Figure similar

product designation 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 display version LED Yes Insulation voltage for overvoltage category III according to IEC 80664 with degree of poliution 3 rated value test voltage for isolation test degree of poliution 3 protection class IP 20 shock resistance according to IEC 60668-2-27 11g / 15 ms switching behavior mechanical sorvice life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating to IEC 3346-2 tharmal current of the switching element with contacts maximum certificate of suitability relating to ATEX reference code according to IEC 81346-2 K influence of the surrounding temperature initial value -50 °C measurable temperature initial value -50 °C measurable Fahrenheit temperature initial value -50 °C measurable Fahrenheit temperature initial value -58 °F ill-scale value 1382 °F SUHC substance Prohibitance (Oate) SVHC substance Prohibitance (Oate) SVHC substance prohibitance (Oate) SVHC substance prohibitance (Oate) Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC measurable temperature with KTY-sensor maximum sensor current with KTY-sensor maximum 300 °C sensor current with KTY-sensor maximum 300 °C control idrabit Control Vype of voltage of the control supply voltage ACIDC	product brand name	SIRIUS
status relay product type designation General technical data product function display version LED insulation voltage for overvoltage category III according to IEC 60064 with degree of pollution 3 rated value test voltage for isolation test degree of pollution 3 protection class IP 20 shock resistance according to IEC 60088-2-27 11g / 15 ms switching behavior mechanical service Iffe (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum certificate of suitability relating to ATEX reference code according to IEC 81346-2 kinfluence of the surrounding temperature initial value • full-scale value sull-scale value **So "C **Go "C **Job "C **WHC substance Prohibitance (Date) SVHC substance Prohibitance (Date) SVHC substance Prohibitance (Date) **Pressor Control circuit/ Control **Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC measurable temperature with KTY-sensor design of the sensor connectable Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC measurable temperature with KTY-sensor ensors current with KTY-sensor **Control circuit/ Control **Test **Test **Control **Test **	product designation	Sensor extension module
Ceneral technical data product function display version LED insulation voltage for overvoltage category III according to IEC 80664 with degree of pollution 3 rated value test voltage for joliution 3 rated value test voltage for joliution 3 a protection class IP shock resistance according to IEC 60068-2-27 switching behavior mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum certificate of suitability relating to ATEX reference code according to IEC 81346-2 influence of the surrounding temperature • initial value • in	design of the product	
product function temperature monitoring display version LED Yes insulation voltage for overvoltage category III according to IEC 0064 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 monostable mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum certificate of suitability relating to ATEX Yes, with digital unit 3RS26/3RS28 reference code according to IEC 81346-2 kinfluence of the surrounding temperature initial value initial value initial value full-scale value full-scale value full-scale value Substance Prohibitance (Date) SVHC substance name temperature with KTY-sensor design of the sensor connectable measurable temperature with KTY-sensor Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC measurable temperature with KTY-sensor Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC measurable temperature with KTY-sensor Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC sensor current with KTY-sensor Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC sensor current with KTY-sensor Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC sensor current with KTY-sensor Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC	product type designation	3RS2
display version LED insulation voltage for overvoltage category III according to IEC 80664 with degree of poliution 3 rated value test voltage for Isolation test degree of poliution 3 protection class IP switching behavior mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum certificate of suitability relating to ATEX reference code according to IEC 81346-2 kinfluence of the surrounding temperature initial value full-scale value full-scale value Substance Prohibitance (Date) SVHC substance name design of the sensor connectable error memory external reset design of the sensor connectable measurable temperature with KTY-sensor external reset design of the sensor connectable measurable temperature with KTY-sensor Pontrol circuit/ Control	General technical data	
insulation voltage for overvoltage category III according to IEC 80664 with degree of pollution 3 rated value test voltage for Isolation test 4 kV degree of pollution 3 and protection class IP 20 shock resistance according to IEC 80688-2-27 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 electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum 5 A maximum 5 A maximum 5 A maximum 6 A maximum 6 A maximum 7 A maximum 8 A maximum 8 A maximum 8 A maximum 8 A maximum 9 A ma	product function	temperature monitoring
test voltage for isolation test degree of pollution protection class IP switching behavior mechanical service life (operating cycles) typical lectrical endurance (operating cycles) typical thermal current of the switching element with contacts maximum certificate of suitability relating to ATEX reference code according to IEC 81346-2 influence of the surrounding temperature initial value full-scale value full-scale value full-scale value Substance Prohibitance (Date) SVHC substance name design of the sensor connectable reasurable temperaty extension of the surrounding temperaty extension (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 product function extension of the sensor connectable measurable temperature in the surrounding temperature full-scale value 9	display version LED	Yes
degree of pollution protection class IP shock resistance according to IEC 60068-2-27 11g / 15 ms switching behavior mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum certificate of suitability relating to ATEX reference code according to IEC 81346-2 k influence of the surrounding temperature initial value initi		300 V
shock resistance according to IEC 60068-2-27 shock resistance according to IEC 60068-2-27 switching behavior mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum certificate of suitability relating to ATEX Yes, with digital unit 3RS26/3RS28 reference code according to IEC 81346-2 kinfluence of the surrounding temperature e initial value full-scale value full-scale value substance Prohibitance (Date) SVHC substance name Biei - 7439-92-1 Bieimonoxid (Bieloxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 product function e error memory e external reset design of the sensor connectable measurable temperature with KTY-sensor maximum 300 °C sensor current with KTY-sensor 0.33 mA Control circuit/ Control	test voltage for isolation test	4 kV
shock resistance according to IEC 60068-2-27 switching behavior mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum certificate of suitability relating to ATEX reference code according to IEC 81346-2 kinfluence of the surrounding temperature initial value initial value initial value initial value initial value initial value full-scale value Substance Prohibitance (Date) SVHC substance name ### Peroduct function ### error memory ### external reset ### design of the sensor connectable measurable temperature with KTY-sensor maximum ### 300 °C ### Substance connectable ### sensor current with KTY-sensor ### 0.33 mA ### Control circuit/ Control ### Control circuit/ Control ### Provided function ### Substance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC ### Substance current with KTY-sensor ### 0.33 mA ### Control circuit/ Control	degree of pollution	3
switching behavior monostable mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum certificate of suitability relating to ATEX reference code according to IEC 81346-2 K influence of the surrounding temperature initial value i	protection class IP	20
mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum certificate of suitability relating to ATEX Yes, with digital unit 3RS26/3RS28 reference code according to IEC 81346-2 Influence of the surrounding temperature influence of the surrounding temperature initial value -50 °C full-scale value 750 °C measurable Fahrenheit temperature initial value -58 °F initial value 58 °F Substance Prohibitance (Date) 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 external reset design of the sensor connectable measurable temperature with KTY-sensor maximum 300 °C sensor current with KTY-sensor 0.33 mA Control circuit/ Control	shock resistance according to IEC 60068-2-27	11g / 15 ms
electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum certificate of suitability relating to ATEX reference code according to IEC 81346-2 influence of the surrounding temperature initial value initi	switching behavior	monostable
thermal current of the switching element with contacts maximum certificate of suitability relating to ATEX reference code according to IEC 81346-2 kinfluence of the surrounding temperature e initial value full-scale value full-scale value full-scale value 58 °F full-scale value 58 °F substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 product function e error memory e external reset design of the sensor connectable measurable temperature with KTY-sensor maximum 300 °C sensor current with KTY-sensor 0.33 mA Control circuit/ Control	mechanical service life (operating cycles) typical	10 000 000
maximum certificate of suitability relating to ATEX reference code according to IEC 81346-2 influence of the surrounding temperature initial value initial value initial value initial value full-scale value initial value 58 °F full-scale value 1 382 °F Substance Prohibitance (Date) SYHC 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 external reset design of the sensor connectable measurable temperature with KTY-sensor maximum 300 °C sensor current with KTY-sensor 0.33 mA Control circuit/ Control		100 000
reference code according to IEC 81346-2 influence of the surrounding temperature o initial value of tull-scale value of tull	•	5 A
influence of the surrounding temperature measurable temperature initial value full-scale value initial value in	certificate of suitability relating to ATEX	Yes, with digital unit 3RS26/3RS28
measurable temperature initial value full-scale value full-scale value initial value initial value initial value initial value full-scale value 58 °F substance Prohibitance (Date) 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 external reset design of the sensor connectable measurable temperature with KTY-sensor maximum 300 °C sensor current with KTY-sensor 0.33 mA Control circuit/ Control	reference code according to IEC 81346-2	K
initial value full-scale value 750 °C measurable Fahrenheit temperature initial value full-scale value 58 °F full-scale value 1 382 °F Substance Prohibitance (Date) 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 external reset design of the sensor connectable measurable temperature with KTY-sensor maximum 300 °C sensor current with KTY-sensor 0.33 mA Control circuit/ Control	influence of the surrounding temperature	0.05% per K deviation from T20
• full-scale value • full-scale value • initial value • initial value • full-scale value	measurable temperature	
measurable Fahrenheit temperature initial value full-scale value 1 382 °F Substance Prohibitance (Date) 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 external reset Yes design of the sensor connectable measurable temperature with KTY-sensor maximum sensor current with KTY-sensor 0.33 mA Control circuit/ Control	• initial value	-50 °C
initial value full-scale value 1 382 °F Substance Prohibitance (Date) 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 external reset yes design of the sensor connectable measurable temperature with KTY-sensor maximum sensor current with KTY-sensor 0.33 mA Control circuit/ Control	full-scale value	750 °C
If ull-scale value Substance Prohibitance (Date) 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 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	measurable Fahrenheit temperature	
Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 product function	• initial value	-58 °F
SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 product function	• full-scale value	1 382 °F
Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 product function	Substance Prohibitance (Date)	05/01/2012
 error memory external reset design of the sensor connectable measurable temperature with KTY-sensor maximum sensor current with KTY-sensor 0.33 mA Control circuit/ Control	SVHC substance name	Bleimonoxid (Bleioxid) - 1317-36-8
● external reset 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	product function	
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	error memory	Yes
measurable temperature with KTY-sensor maximum 300 °C sensor current with KTY-sensor 0.33 mA Control circuit/ Control	external reset	Yes
sensor current with KTY-sensor 0.33 mA Control circuit/ Control	design of the sensor connectable	Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC
Control circuit/ Control	measurable temperature with KTY-sensor maximum	300 °C
	sensor current with KTY-sensor	0.33 mA
type of voltage of the control supply voltage AC/DC	Control circuit/ Control	
	type of voltage of the control supply voltage	AC/DC

control supply voltage at AC	
• at 50 Hz rated value	24 24 V
• at 60 Hz rated value	24 24 V
control supply voltage 1 at AC	
at 50 Hz rated value	24 V
• at 50 Hz	24 24 V
at 60 Hz rated value	24 V
• at 60 Hz	24 24 V
control supply voltage 2 at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
	24 24 V
control supply voltage at DC rated value	Z4 Z4 V
control supply voltage 1	04)/
at DC rated value	24 V
• at DC	24 24 V
operating range factor control supply voltage rated value at DC	
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at	
AC at 50 Hz	
initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at	
AC at 60 Hz	
• initial value	0.85
• full-scale value	1.1
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 %
relative metering precision Short-circuit protection	1 %
	1 %
Short-circuit protection	1 % gL/gG: 6 A or MCB type C: 1 A
Short-circuit protection design of the fuse link	
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	
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	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	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	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	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 NC contacts of the relay	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
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 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
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 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	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 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	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
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 • for short circuit protection of the NC contacts of the relay outputs 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 Communication/ Protocol 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 AgSnO2
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 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	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 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	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 1
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 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	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
design of the fuse link	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 1 0
design of the fuse link	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 1 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 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 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 AgSnO2 1 0 1 A 0.2 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 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	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 1 0 1 A 0.2 A 0.1 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 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 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 AgSnO2 1 0 1 A 0.2 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 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	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 1 0 1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
design of the fuse link	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 1 0 1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300
design of the fuse link	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 1 0 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
design of the fuse link	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 1 0 1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300
design of the fuse link	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 1 0 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
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 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 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	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 1 0 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
design of the fuse link	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 1 0 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

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	
 due to burst according to IEC 61000-4-4 	2 kV (power ports), 1 kV (signal ports)
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (line to ground)
due to conductor-conductor surge according to IEC 61000-4-5	1 kV (line to line)
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 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
• 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 %
explosion protection category for dust	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] [Ex h] [db] [eb] [pyb] [mb] [ob] [q] [kb] [sb] II C Gb

Approvals Certificates

General Product Approval

EMC

For use in hazardous locations



Confirmation







Explosion Protection Certificate

For use in hazardous locations Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping



Type Examination Certificate





Special Test Certificate



Marine / Shipping

other



Confirmation

Further information

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=3RS2900-1AA30

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RS2900-1AA30}$

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

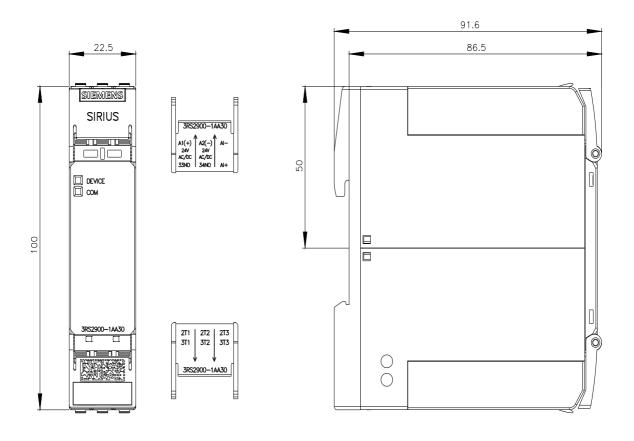
https://support.industry.siemens.com/cs/ww/en/ps/3RS2900-1AA30

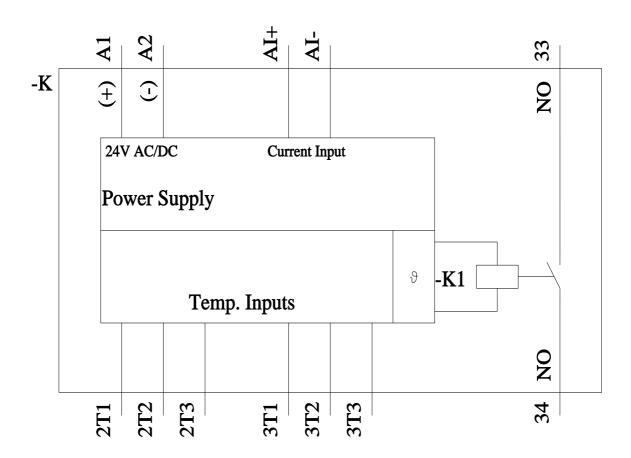
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS2900-1AA30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS2900-1AA30/manual





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