SIEMENS

Data sheet 3RS2900-2AW30



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 spring-type terminals (push-in)

Figure similar

| product designation design of the product design of the product product type designation 3RS2 General technical data product function display version LED yes insulation veltage for overvoltage category ill according to IEC 60664 with degree of pollution 3 rated value test voltage for location test degree of pollution 3RS2 protection class IP shock resistance according to IEC 60068-2-7 11g / 15 ms vibration resistance according to IEC 60068-2-6 3witching behavior mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (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 -50 °C reassurable temperature initial value -50 °C - | product brand name | SIRIUS |
|--|--|--|
| design of the product product type designation 3RS2 General technical data product function display version LED yes insulation voltage for overvoltage category III according to IEC 6064 with degree of pollution 3 rated value test voltage for isolation test degree of pollution protection class IP shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 vibration resistance according to IEC 60068-2-6 vibration resistance according to IEC 60068-2-6 vibration resistance according to Version with the contacts awitching behavior mechanical service life (operating cycles) typical electrical endurance (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 elinitial value finitial va | • | |
| General tochnical 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 isolation test degree of pollution 3 rated value test voltage for isolation test degree of pollution 3 a 3 | · • | 2 additional resistivity sensors, analog input 4 20 mA, ATEX via analog input, |
| product function display version LED Yes insulation voltage for overvoltage category III according to IEC 60684 with degree of pollution 3 rated value test voltage for isolation test degree of pollution 3 3 3 7 7 7 7 7 7 7 7 7 7 7 7 7 | product type designation | 3RS2 |
| display version LED insulation voltage for overvoltage category III according to IEC 60684 with degree of politution 3 rated value test voltage for isolation test 4 kV degree of politution 3 protection class IP 20 shock resistance according to IEC 60068-2-27 11g / 15 ms vibration resistance according to IEC 60068-2-6 10 55 Hz: 0.35 mm mochanical 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 electrical endurance (operating cycles) at AC-15 at 230 V typical electrical of suitability relating to ATEX maximum certificate of suitability relating to ATEX freference code according to IEC 81348-2 K influence of the surrounding temperature initial value initial value initial value initial value initial value initial value full-scale value full-scale value full-scale value full-scale value full-scale value error memory external reset design of the sensor connectable measurable temperature with KTY-sensor maximum sensor current with KTY-sensor function AC/DCC | General technical data | |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value test voltage for isolation test degree of pollution 3 protection class IP shock resistance according to IEC 60068-2-27 11g / 15 ms vibration resistance according to IEC 60068-2-6 10 55 Hz: 0.35 mm witching 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 e initial value finitial va | product function | temperature monitoring |
| 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 vibration resistance according to IEC 60068-2-6 10 55 Hz: 0.35 mm switching behavior monostable mechanical service life (operating cycles) typical 10 000 000 electrical endurance (operating cycles) typical 10 000 000 electrical endurance (operating cycles) typical 5 A maximum 5 A certificate of suitability relating to ATEX Yes, with digital unit 3RS26/3RS28 reference code according to IEC 81346-2 K influence of the surrounding temperature 0.05% per K deviation from T20 measurable temperature • initial value -50 °C • full-scale value 750 °C measurable Fahrenheit temperature • initial value -58 °F • full-scale value 1382 °F Substance Prohibitance (Date) 05/01/2012 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 maximum 300 °C control circuit/ Control type of voltage of the control supply voltage AC/DC | display version LED | Yes |
| degree of pollution protection class IP shock resistance according to IEC 60068-2-27 tilg / 15 ms vibration resistance according to IEC 60068-2-6 ivibration resistance according to IEC 60068-2-6 ivibration resistance according to IEC 60068-2-6 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 full-scale value full-scale value full-scale value -58 °F substance Prohibitance (Date) product function error memory external reset design of the sensor connectable measurable temperature with KTY-sensor maximum 300 °C sensor current 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 | | 300 V |
| protection class IP 20 shock resistance according to IEC 60068-2-27 11g / 15 ms vibration resistance according to IEC 60068-2-6 10 55 Hz: 0.35 mm switching behavior monostable monostable 10 000 000 electrical endurance (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 digital unit 3RS26/3RS28 reference code according to IEC 81346-2 K influence of the surrounding temperature 0.05% per K deviation from T20 measurable temperature initial value 50 °C foll-scale value 750 °C suitial value -58 °F initial value -58 °F Substance Prohibitance (Date) 05/01/2012 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 maximum 300 °C sensor current with KTY-sensor maximum 300 °C sensor current with KTY-sensor maximum 300 °C control circuit/ Control type of voltage of the control supply voltage AC/DC | test voltage for isolation test | 4 kV |
| shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 vibration resistance according to IEC 60068-2-6 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 k influence of the surrounding temperature • initial value • full-scale value * full-scale value * initial value • full-scale value * objoint of temperature • initial value • full-scale value * objoint of temperature • initial value • full-scale value * objoint of temperature • initial value • full-scale value * objoint of temperature • initial value • saw F * objoint of temperature • initial value • saw F * objoint of the sensor connectable * 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 type of voltage of the control supply voltage AC/DC | degree of pollution | 3 |
| wibration resistance according to IEC 60068-2-6 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 58 °F full-scale value substance Prohibitance (Date) 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 type of voltage of the control supply voltage 10 000 000 10 000 | 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 reference code according to IEC 81346-2 k Influence of the surrounding temperature o initial value o initial v | shock resistance according to IEC 60068-2-27 | 11g / 15 ms |
| 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 o initial value initial value full-scale value full-scale value full-scale value substance Prohibitance (Date) 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 type of voltage of the control supply voltage 100 000 100 00 | vibration resistance according to IEC 60068-2-6 | 10 55 Hz: 0.35 mm |
| 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 einitial value full-scale value full-scale value full-scale value full-scale value full-scale value 58 °F Substance Prohibitance (Date) 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 type of voltage of the control supply voltage 100 000 Yes, with digital unit 3RS26/3RS28 FA AC/DC 100 000 100 | switching behavior | monostable |
| 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 einitial value initial value full-scale value 6 initial value 6 initial value 750 °C measurable Fahrenheit temperature initial value 750 °C measurable Fahrenheit temperature 6 initial value 750 °C measurable Fahrenheit temperature 750 °C measurable Tahrenheit temperature 750 °C measurable Tahrenheit temperature 750 °C measurable Tahrenheit temperature 750 °C measurable temperature (Date) 750 °C 750 °C measurable Tahrenheit temperature 750 °C 750 | 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 o initial value of tull-scale value for tull-scale value substance Prohibitance (Date) product function of error memory of external reset design of the sensor connectable measurable temperature with KTY-sensor maximum 300 °C sensor current with KTY-sensor of the control supply voltage AC/DC | | 100 000 |
| reference code according to IEC 81346-2 influence of the surrounding temperature oinitial value of tull-scale value oinitial value of tull-scale | <u> </u> | 5 A |
| influence of the surrounding temperature measurable temperature initial value full-scale value T50 °C measurable Fahrenheit temperature initial value T50 °C measurable Fahrenheit temperature initial value T382 °F Substance Prohibitance (Date) Tyes remore memory Fes external reset design of the sensor connectable measurable temperature with KTY-sensor maximum Tyes of voltage of the control supply voltage AC/DC measurable temperature Tyes AC/DC AC/DC | certificate of suitability relating to ATEX | Yes, with digital unit 3RS26/3RS28 |
| measurable temperature initial value full-scale value 750 °C measurable Fahrenheit temperature initial value 558 °F full-scale value 1 382 °F Substance Prohibitance (Date) product function error memory external reset design of the sensor connectable measurable temperature with KTY-sensor maximum 300 °C sensor current with KTY-sensor type of voltage of the control supply voltage AC/DC | reference code according to IEC 81346-2 | K |
| initial value full-scale value full-scale value initial value initial value full-scale value 58 °F substance Prohibitance (Date) product function 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 type of voltage of the control supply voltage 750 °C 84 84 85 86 86 86 86 86 86 86 86 86 | influence of the surrounding temperature | 0.05% per K deviation from T20 |
| • full-scale value 750 °C measurable Fahrenheit temperature • initial value • full-scale value • full-scale value 1 382 °F Substance Prohibitance (Date) product function • error memory • external reset Yes design of the sensor connectable measurable temperature with KTY-sensor maximum 300 °C sensor current with KTY-sensor Control circuit/ Control type of voltage of the control supply voltage 750 °C 750 °C Resistance sensors Ft 100, Pt1000, KTY83-110, KTY84, NTC 0.33 mA AC/DC | measurable temperature | |
| measurable Fahrenheit temperature initial value full-scale value Substance Prohibitance (Date) product function error memory external reset design of the sensor connectable measurable temperature with KTY-sensor maximum sensor current with KTY-sensor Control circuit/ Control type of voltage of the control supply voltage -58 °F -69 PT -58 °F -69 PT -58 °F -69 PT -58 °F -69 PT - | • initial value | -50 °C |
| initial value full-scale value 1 382 °F Substance Prohibitance (Date) product function 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 type of voltage of the control supply voltage | full-scale value | 750 °C |
| If till-scale value Substance Prohibitance (Date) product function error memory external reset design of the sensor connectable measurable temperature with KTY-sensor maximum sensor current with KTY-sensor Control circuit/ Control type of voltage of the control supply voltage 1 382 °F 05/01/2012 Yes Yes Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC 300 °C sensor current with KTY-sensor 0.33 mA AC/DC | measurable Fahrenheit temperature | |
| Substance Prohibitance (Date) product function error memory external reset design of the sensor connectable measurable temperature with KTY-sensor maximum sensor current with KTY-sensor Control circuit/ Control type of voltage of the control supply voltage 05/01/2012 Yes Yes Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC 300 °C sensor current with KTY-sensor 0.33 mA Control circuit/ Control type of voltage of the control supply voltage AC/DC | initial value | -58 °F |
| product function | full-scale value | 1 382 °F |
| ● error memory ● external reset Yes design of the sensor connectable measurable temperature with KTY-sensor maximum 300 °C sensor current with KTY-sensor control circuit/ Control type of voltage of the control supply voltage Yes Yes Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC 300 °C 303 mA AC/DC | Substance Prohibitance (Date) | 05/01/2012 |
| ● external reset design of the sensor connectable measurable temperature with KTY-sensor maximum 300 °C sensor current with KTY-sensor control circuit/ Control type of voltage of the control supply voltage Yes Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC 300 °C 0.33 mA AC/DC | 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 type of voltage of the control supply voltage AC/DC | • error memory | Yes |
| 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 | external reset | Yes |
| sensor current with KTY-sensor Control circuit/ Control type of voltage of the control supply voltage AC/DC | design of the sensor connectable | Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC |
| Control circuit/ Control type of voltage of the control supply voltage AC/DC | measurable temperature with KTY-sensor maximum | 300 °C |
| type of voltage of the control supply voltage AC/DC | sensor current with KTY-sensor | 0.33 mA |
| 71 0 117 0 | Control circuit/ Control | |
| control supply voltage at AC | 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 | |
| Short-circuit protection design of the fuse link | |
| | 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 | 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 | |
| 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 • 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 |
| 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: 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 | 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 Communication/ Protocol | 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 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 | 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 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 | 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 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 | 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 |
| 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: 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 • 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: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 1 |
| 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 CO contacts for auxiliary contacts | 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 |
| 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 | 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 • 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 | 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 • 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 | gL/gG: 6 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 |
| 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 | gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No No AgSnO2 1 0 1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 |
| 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 | gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No 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 • 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 | 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 • 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 according to UL operating frequency rated value | gL/gG: 6 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 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 • 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 | gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A RSnO2 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 • 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 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 | gL/gG: 6 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 operational current of auxiliary contacts • at 24 V • at 125 V • at 250 V contact reliability of auxiliary contacts contact rating 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: 2 A or MCB type C: 1 A No AgSnO2 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 |

| continuous current of DIAZED fuse link of the output relay safety-related | 2 A |
|---|---|
| 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 | 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 | Vee |
| between input and output between the voltage gupply and other circuits. | Yes |
| between the voltage supply and other circuits Sefects related data | Yes |
| Safety Integrity Level (SIL) according to IEC 61508 | 1 |
| | 1 |
| SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 | C |
| category according to EN ISO 13849-1 | 1 |
| Safe failure fraction (SFF) | 66 % |
| PFHD with high demand rate according to EN 62061 | 2.9E-7 1/h |
| hardware fault tolerance according to IEC 61508 | 0 |
| Connections/ Terminals | |
| product component removable terminal for auxiliary and control circuit | Yes |
| type of electrical connection | spring-loaded terminal (push-in) |
| for auxiliary and control circuit | spring-loaded terminals (push-in) |
| type of connectable conductor cross-sections | |
| • solid | 0.5 4 mm² |
| finely stranded with core end processing | 0.5 2.5 mm² |
| finely stranded without core end processing | 0.5 4 mm² |
| for AWG cables solid | 20 12 |
| for AWG cables stranded | 20 12 |
| connectable conductor cross-section | |
| • solid | 0.5 4 mm² |
| finely stranded with core end processing finely stranded without core and processing | 0.5 2.5 mm ² |
| • finely stranded without core end processing AWG number as coded connectable conductor cross | 0.5 4 mm² |
| AWG number as coded connectable conductor cross section | 20 42 |
| • solid | 20 12 |
| • stranded | 20 12 |
| Installation/ mounting/ dimensions | any. |
| mounting position | any |
| fastening method height | screw and snap-on mounting onto 35 mm DIN rail 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 |
| Certificates/ approvals | |

General Product Approval







Confirmation







For use in hazardous locations

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Explosion Protection Certificate



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=3RS2900-2AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS2900-2AW30

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

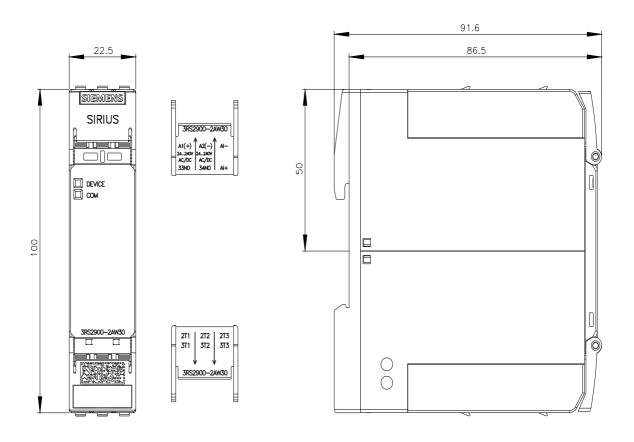
https://support.industry.siemens.com/cs/ww/en/ps/3RS2900-2AW30

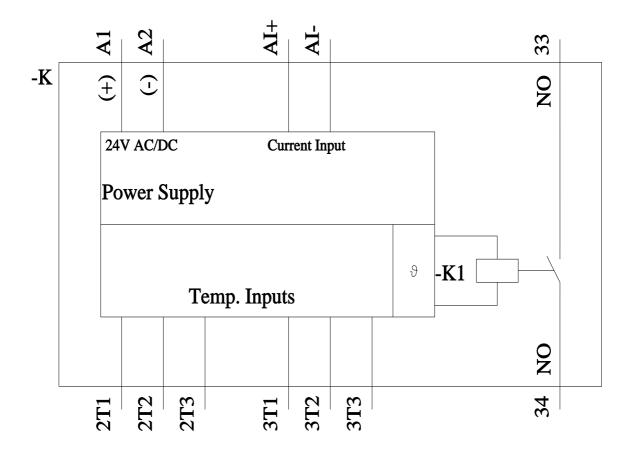
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS2900-2AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS2900-2AW30/manual





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