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## Data sheet 3RK1901-1DG12-1AA0



AS-i data decoupler 1 x 4 A Spring-type terminals, AS-i single Data decoupling module IP20, SlimLine S22.5 spring-type terminals Overall width module 22.5 mm IN: 24 V / 30 V DC OUT: 1 x AS-i, 4 A Integrated overload protection Integrated ground fault detection Signaling contact Remote reset

| | | |
|---|---|---|
| **General technical data** | | |
| **product designation** | | Single data decoupling module |
| **design of the product** | | SlimLine S22.5 - Module to beused in the IP20 control cabinet |
| **protection class IP** | | IP20 |
| **installation altitude at height above sea level maximum** | m | 2 000 |
| **ambient temperature** | | |
| ● during operation | °C | -25 ... +70 |
| ● during storage | °C | -40 ... +85 |
| **relative humidity at 25 °C during operation maximum** | % | 70 |
| **reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750** | | A |
| **reference code according to EN 61346-2** | | A |
| **supplied active power** | W | 120 |
| **mechanical service life (operating cycles) of the signaling contacts typical** | | 1 000 000 |
| **product function** | | |
| ● auto-RESET | | No |
| ● external reset | | Yes |
| ● manual RESET | | Yes |
| ● ground fault detection | | Yes |
| ● test function of signaling contacts | | Yes |
| ● suitable for grounded AS-i networks | | Yes |
| ● adapted for non-grounded AS-i networks | | Yes |
| ● suitable for AS-i Power24V | | Yes |
| ● sequential connected time-delay | | No |
| ● AS-Interface data decoupling | | Yes |
| **reset function** | | yes |
| adjustable current response value current of the current-dependent overload release | A | 2.5 ... 4 |
| **number of electrical connections for signaling contact** | | 2 |
| **number of outputs for AS-Interface maximum** | | 1 |
| **display version as status display by LED** | | yes |
| **number of switching contacts as NO contact for signaling function** | | 1 |
| **design of the switching contact as NO contact for signaling function** | | yes |
| **Communication/ Protocol** | | |
| **protocol is supported AS-Interface protocol** | | Yes |
| **Auxiliary circuit** | | |
| operational current of auxiliary contacts | | |


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| | | |
|---|---|---|
| ● at AC-15 at 24 V | A | 3 |
| ● at DC-13 at 24 V | A | 1 |
| **Inputs/ Outputs** | | |
| **type of voltage** | | |
| ● of the input voltages | | DC |
| ● of the input voltage | | DC |
| **property of the output short-circuit proof** | | Yes |
| **output voltage** | | |
| ● 1 at DC rated value | | |
| — | V | 30 |
| — | V | 20.5 ... 31.6 |
| ● 2 at DC rated value | V | 24 |
| **output current at DC maximum** | A | 4 |
| **input voltage** | | |
| ● 1 at DC rated value | | |
| — | V | 30 |
| — | V | 21 ... 32 |
| ● 2 at DC rated value | V | 24 |
| **input current at DC maximum** | A | 4.1 |
| **Short-circuit protection** | | |
| **design of short-circuit protection** | | electronic |
| **Installation/ mounting/ dimensions** | | |
| **mounting position** | | vertical |
| **fastening method** | | 35-mm DIN rail mounting or wall mounting with plug-in flaps |
| **width** | mm | 22.5 |
| **height** | mm | 104.9 |
| **depth** | mm | 121.2 |
| **type of electrical connection for auxiliary and control circuit** | | spring-loaded terminals |
| **product component removable terminal for auxiliary and control circuit** | | Yes |
| **type of connectable conductor cross-sections** | | |
| ● for auxiliary contacts | | |
| — solid | | 2x (0.25 ... 1.5 mm²) |
| — finely stranded | | |
| — with core end processing | | 2x (0.25 ... 1.5 mm²) |
| — without core end processing | | 2x (0.25 ... 1.5 mm²) |
| ● for AWG cables for auxiliary contacts | | 2x (24 ... 16) |
| **certificate of suitability** | | CE / UL / CSA |
| **suitability for use safety-related circuits** | | Yes |

**Certificates/ approvals**

| General Product Approval | EMV | other |
|---|---|---|
| cULus, EAC, CE EG-Konf., UKCA, RCM | | Confirmation |

| other | Environment |
|---|---|
| 产品合格 QC PASS | Environmental Confirmations |

**Further information**

**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875
**Information for data generation and storage**
https://support.industry.siemens.com/cs/ww/en/view/109995012
**Information- and Downloadcenter (Catalogs, Brochures,…)**


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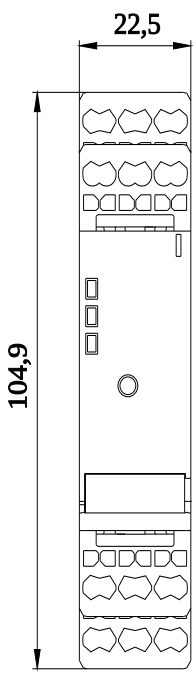
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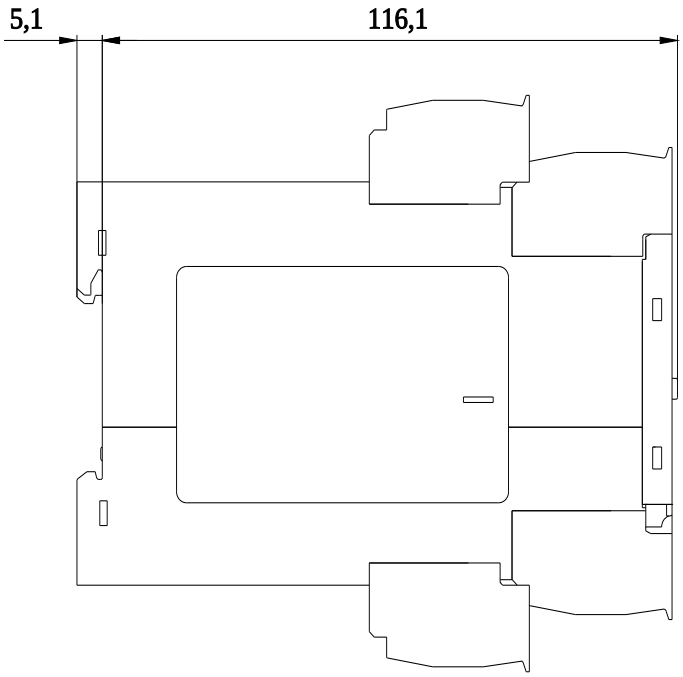
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1901-1DG12-1AA0

**Cax online generator**
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1901-1DG12-1AA0

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RK1901-1DG12-1AA0

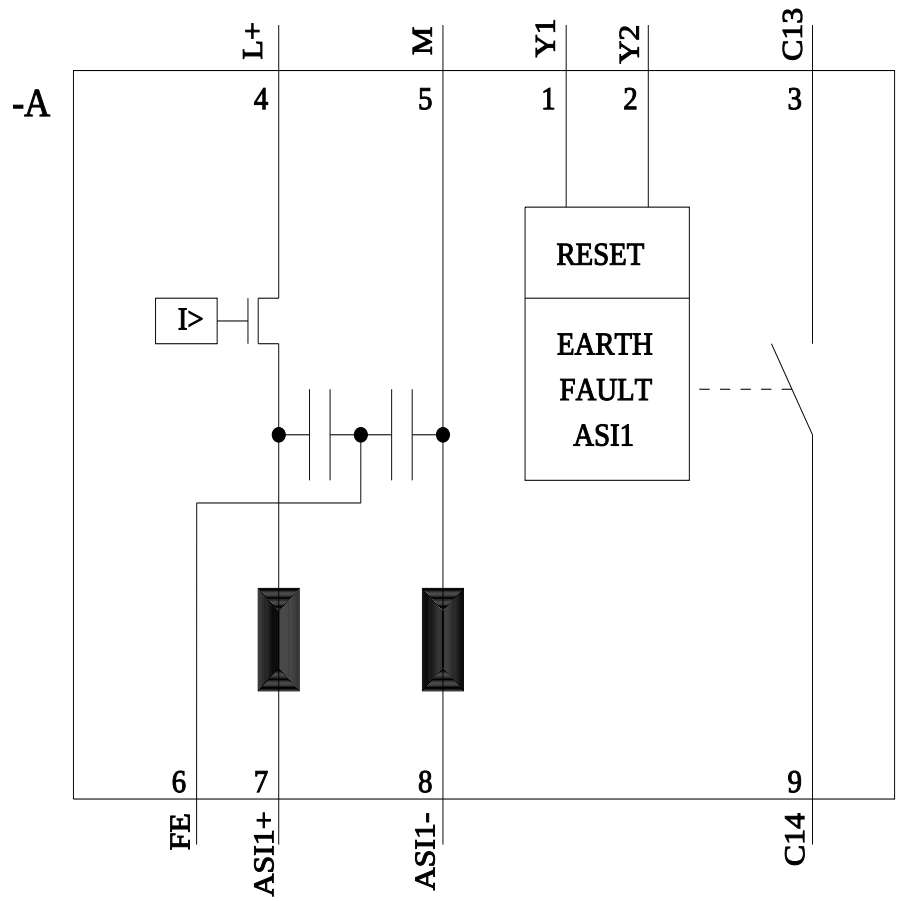
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1901-1DG12-1AA0&lang=en





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