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## Data sheet 3RX9503-0BA00




AS-i Power 8 A 120 V / 230-500 V AC AS-Interface power supply unit, IP20 IN: 120 V / 230-500 V AC OUT: AS-i, 8 A (30 V DC) with integrated ground fault detection, with integrated overload detection with AS-i data decoupling

| | | |
|---|---|---|
| **General technical data** | | |
| **Type of device** | | AS-Interface power supply unit IP20 |
| **version** | | single output |
| **Additional function** | | integrated ground-fault detection, remote reset and remote indication |
| **input voltage nominal value AC** | | |
| ● range 1 | V | 120 |
| ● range 2 | V | 230 |
| **Inputs** | | |
| **input recommended circuit breaker (IEC 898) in the main supply line** | | 10 A, characteristic C |
| **input voltage range** | | |
| ● voltage range 1 AC | V | 85 ... 132 |
| ● voltage range 2 AC | V | 176 ... 550 |
| **input** | | |
| ● Mains buffering time at Ia rated min | | 20 ms |
| ● line frequency | | 50/60 Hz |
| ● Mains frequency range | Hz | 47 ... 63 |
| ● range changeover using | | Changeover switch on device |
| ● input voltage built-in | | T 6.3 (not accessible) |
| **Connections input** | | spring-loaded terminal connection input (0.2 ... 2.5 mm2)/ diagnosis (0.14 ... 1.5 mm2) |
| **Outputs** | | |
| **output** | | |
| ● DC-voltage controlled floating according to AS-Interface spezification | | yes |
| ● voltage rated value Ua rated DC | | 30 V |
| ● tolerance total DC | V | 29.5 ... 31.6 |
| ● rated current Ia rated | | 8 A |
| ● residual ripple peak-to-peak ( 0-10 kHz, AS-i+/AS-i- ) max | mV | 300 |
| ● spikes peak-to-peak ( 10-500 kHz, AS-i+/AS-i- ) max | mV | 50 |
| **Connections Output** | | spring-loaded terminal connection output (0.2 ... 2.5 mm²)/ diagnosis (0.14 ... 1.5 mm²) |
| **Efficiency/ heat loss** | | |
| **Efficiency at Ua rated, Ia rated** | % | 87 |
| **power loss [W] maximum** | W | 32 |
| **Protective and monitoring functions** | | |
| **Output overvoltage protection** | | yes (< 35V) |
| **Current limitation from min.** | | 8.5 A |
| **Short-circuit protection** | | yes |
| **Safety related data** | | |


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| | | |
|---|---|---|
| **protection class ( EN 60 950/IEC 950 )** | | I |
| **Electrical isolation primary/secondary** | | ES1 according EN 62368-1 (for products until end of 2020: SELV according to EN 60 950 and EN 50 178) |
| **protection class IP** | | IP20 |
| **Electromagnetic compatibility** | | |
| **electromagnetic compatibility (EMC)** | | |
| ● interference immunity | | EN 61 000-6-2, EN 61 000-4-2/-3/-4/-5/-11 |
| ● emitted interference | | class B according to EN 55 022, IEC 61 000-6-3 |
| **Ambient conditions** | | |
| **ambient temperature** | | |
| ● during operation | °C | -10 ... +70 |
| ● during storage | °C | -25 ... +80 |
| **humidity rating** | | climatic class DIN 50010, relative humidity max. 100% without condensation |
| **fastening method** | | fixing on standard mounting rail DIN EN 59 022-35 x 7.5 mm snap-on |
| **width** | mm | 120 |
| **height** | mm | 125 |
| **depth** | mm | 125 |

**Certificates/ approvals**

| General Product Approval | | | | | EMV |
|---|---|---|---|---|---|
| CE EG-Konf. | Confirmation | UKCA | UL | EAC | RCM |

| EMV | Marine / Shipping | | other | | Environment |
|---|---|---|---|---|---|
| KC | DNV | PRS | Confirmation | Miscellaneous | EPD |

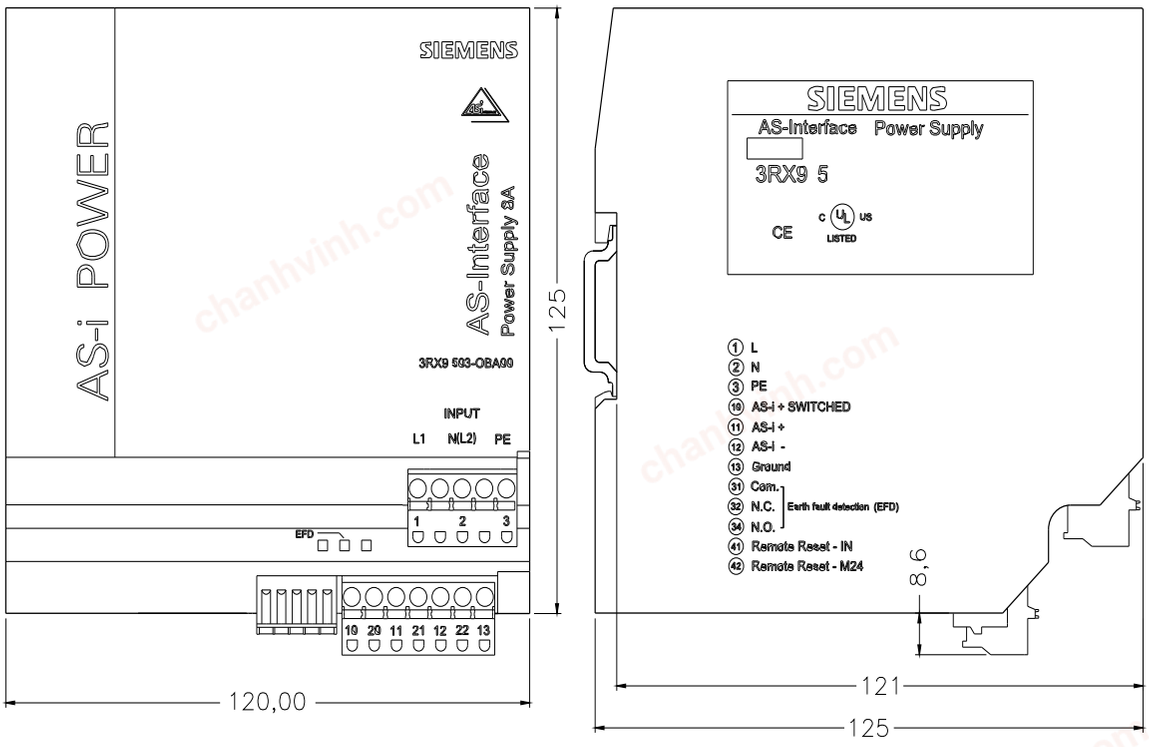
| Environment | Industrial Communication |
|---|---|
| Environmental Con-firmations | ASi |

**Further information**

**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=3RX9503-0BA00
**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RX9503-0BA00
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RX9503-0BA00
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RX9503-0BA00&lang=en


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