



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:

|                                |   |   |
|--------------------------------|---|---|
| <b>Type of device</b>          |   | AS-Interface power supply unit IP20                                   |
| <b>version</b>                 |   | single output   |
| input voltage nominal value AC |   |   |
| • range 1                      | V | 120   |
| • range 2                      | V | 230   |
| <b>Additional function</b>     |   | integrated ground-fault detection, remote reset and remote indication |

Inputs:

|  |    |                        |
|--|----|------------------------|
| <b>input recommended circuit breaker (IEC 898) in the main supply line</b> |    | 10 A, characteristic C |
| input voltage range  |    |                        |
| • voltage range 1 AC   | V  | 85 ... 132             |
| • voltage range 2 AC   | V  | 176 ... 550            |
| <b>input</b>   |    |                        |
| • Mains buffering time at I <sub>a</sub> rated min                         |    | 20 ms                  |
| • line frequency   |    | 50/60 Hz               |
| • Mains frequency range  | Hz | 47 ... 63              |

|  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>• range changeover using</li> <li>• input voltage built-in</li> </ul> |  | Changeover switch on device<br>T 6.3 (not accessible)   |
| <b>Connections input</b>   |  | spring-loaded terminal connection input (0.2 ... 2.5 mm <sup>2</sup> )/ diagnosis (0.14 ... 1.5 mm <sup>2</sup> ) |

#### Outputs:

|  |    |  |
|--|----|--|
| <b>output</b>  |    |  |
| <ul style="list-style-type: none"> <li>• DC-voltage controlled floating according to AS-Interface specification</li> <li>• voltage rated value U<sub>a</sub> rated DC</li> <li>• tolerance total DC</li> <li>• rated current I<sub>a</sub> rated</li> <li>• residual ripple peak-to-peak ( 0-10 kHz, AS-i+/AS-i- ) max</li> <li>• spikes peak-to-peak ( 10-500 kHz, AS-i+/AS-i- ) max</li> </ul> | V  | yes<br>30 V<br>29.5 ... 31.6<br>8 A  |
|  | mV | 300  |
|  | mV | 50   |
| <b>Connections Output</b>  |    | spring-loaded terminal connection output (0.2 ... 2.5 mm <sup>2</sup> )/ diagnosis (0.14 ... 1.5 mm <sup>2</sup> ) |

#### Efficiency/ heat loss:

|   |   |    |
|---|---|----|
| <b>Efficiency at U<sub>a</sub> rated, I<sub>a</sub> rated</b> | % | 87 |
|---|---|----|

#### Protective and monitoring functions:

|                                      |  |             |
|--------------------------------------|--|-------------|
| <b>Output overvoltage protection</b> |  | yes (< 35V) |
| <b>Current limitation from min.</b>  |  | 8.5 A       |
| <b>Short-circuit protection</b>      |  | yes         |

#### Safety related data:

|   |  |   |
|---|--|---|
| <b>protection class ( EN 60 950/IEC 950 )</b> |  | I   |
| <b>Electrical isolation primary/secondary</b> |  | SELV according to EN 60 950 and EN 50 178 |
| <b>Protection class IP</b>                    |  | IP20                                      |

#### Electromagnetic compatibility:

|   |  |   |
|---|--|---|
| <b>electromagnetic compatibility (EMC)</b>  |  |   |
| <ul style="list-style-type: none"> <li>• interference immunity</li> <li>• emitted interference</li> </ul> |  | EN 61 000-6-2, EN 61 000-4-2/-3/-4/-5/-11<br>class B according to EN 55 022, IEC 61 000-6-3 |

#### Ambient conditions:

|  |    |  |
|--|----|--|
| <b>Ambient temperature</b>   |    |  |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul> | °C | -10 ... +70<br>-25 ... +80   |
| <b>humidity rating</b>   |    | climatic class DIN 50010, relative humidity max. 100% without condensation |
| <b>Mounting type</b>   |    | fixing on standard mounting rail DIN EN 59 022-35 x 7.5 mm snap-on         |
| <b>Width</b>   | mm | 120  |
| <b>Height</b>  | mm | 125  |

Depth

mm

125

Certificates/ approvals:

General Product Approval

EMC

Declaration of  
Conformity

Shipping Approval



UL



C-Tick



EG-Konf.



ABS



BUREAU  
VERITAS

Shipping Approval

other



LRS



PRS



RINA



ASi

[Confirmation](#)

[Miscellaneous](#)

Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<http://www.siemens.com/industrymall>

**Cax online generator**

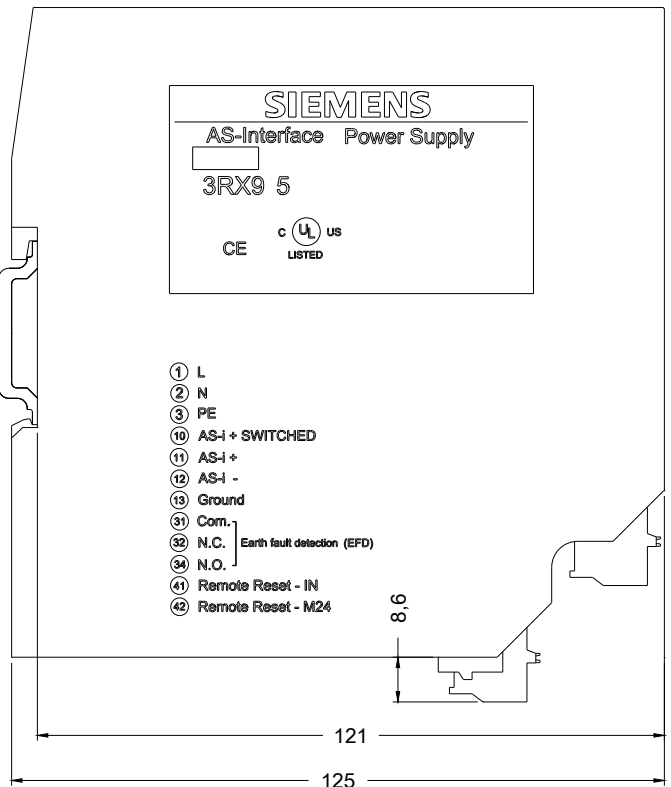
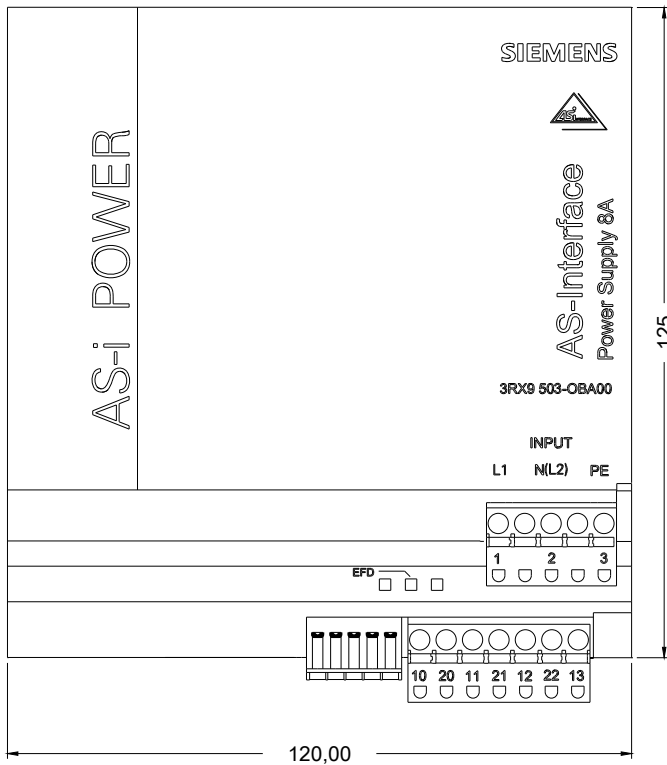
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RX9503-0BA00>

**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](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RX9503-0BA00&lang=en)



- ① L
- ② N
- ③ PE
- ⑩ AS-I + SWITCHED
- ⑪ AS-I +
- ⑫ AS-I -
- ⑬ Ground
- ⑳ Com.
- ㉑ N.C. } Earth fault detection (EFD)
- ㉒ N.O. }
- ㉔ Remote Reset - IN
- ㉕ Remote Reset - M24

last modified:

10/21/2018