



AS-i Power 3A 120 V/230 V AC AS-Interface power supply unit, IP20 IN: 120 V / 230 V AC OUT: AS-i, 3 A (30 V DC), IP20 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      |    | 6 A, characteristic C  |
| input voltage range  |    |  |
| • voltage range 1 AC   | V  | 85 ... 132   |
| • voltage range 2 AC   | V  | 176 ... 253  |
| input  |    |  |
| • Mains buffering time at I <sub>a</sub> 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 3.15 (not accessible)  |
| Connections input  |    | spring-loaded terminal connection input (0.2 ... 2.5 mm <sup>2</sup> )/ diagnosis (0.14 ... 1.5 mm <sup>2</sup> )  |
| Outputs  |    |  |
| output   |    |  |
| • DC-voltage controlled floating according to AS-Interface specification |    | yes  |
| • voltage rated value U <sub>a</sub> rated DC                            |    | 30 V   |
| • tolerance total DC   | V  | 29.5 ... 31.6  |
| • rated current I <sub>a</sub> rated                                     |    | 3 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 mm <sup>2</sup> )/ diagnosis (0.14 ... 1.5 mm <sup>2</sup> ) |
| Efficiency/ heat loss  |    |  |
| Efficiency at U <sub>a</sub> rated, I <sub>a</sub> rated                 | %  | 84   |
| power loss [W] maximum   | W  | 14.4   |
| Protective and monitoring functions                                      |    |  |
| Output overvoltage protection  |    | yes (< 35V)  |
| Current limitation from min.   |    | 3.5 A  |
| Short-circuit protection   |    | yes  |
| Safety related data  |    |  |

|  |  |  |
|--|--|--|
| 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

|  |  |   |
|--|--|---|
| <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  |
|   | °C | -25 ... +80  |
| <b>humidity rating</b>  |    | climatic class DIN 50010, relative humidity max. 100% without condensation |
| <b>fastening method</b>   |    | fixing on standard mounting rail DIN EN 59 022-35 x 7.5 mm snap-on         |
| <b>width</b>  | mm | 50   |
| <b>height</b>   | mm | 125  |
| <b>depth</b>  | mm | 125  |

### Environmental footprint

|  |    |       |
|--|----|-------|
| Environmental Product Declaration(EPD)                 |    | Yes   |
| global warming potential [CO2 eq] total                | kg | 785   |
| global warming potential [CO2 eq] during manufacturing | kg | 20.7  |
| global warming potential [CO2 eq] during sales         | kg | 0.127 |
| global warming potential [CO2 eq] during operation     | kg | 763   |
| global warming potential [CO2 eq] after end of life    | kg | 0.565 |

### Certificates/ approvals

|                          |     |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|



|     |                      |       |             |
|-----|----------------------|-------|-------------|
| EMV | Maritime application | other | Environment |
|-----|----------------------|-------|-------------|

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[Confirmation](#)

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|             |                          |
|-------------|--------------------------|
| Environment | Industrial Communication |
|-------------|--------------------------|

[Environmental Con-  
firmations](#)



### 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,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RX9501-0BA00>

Cax online generator

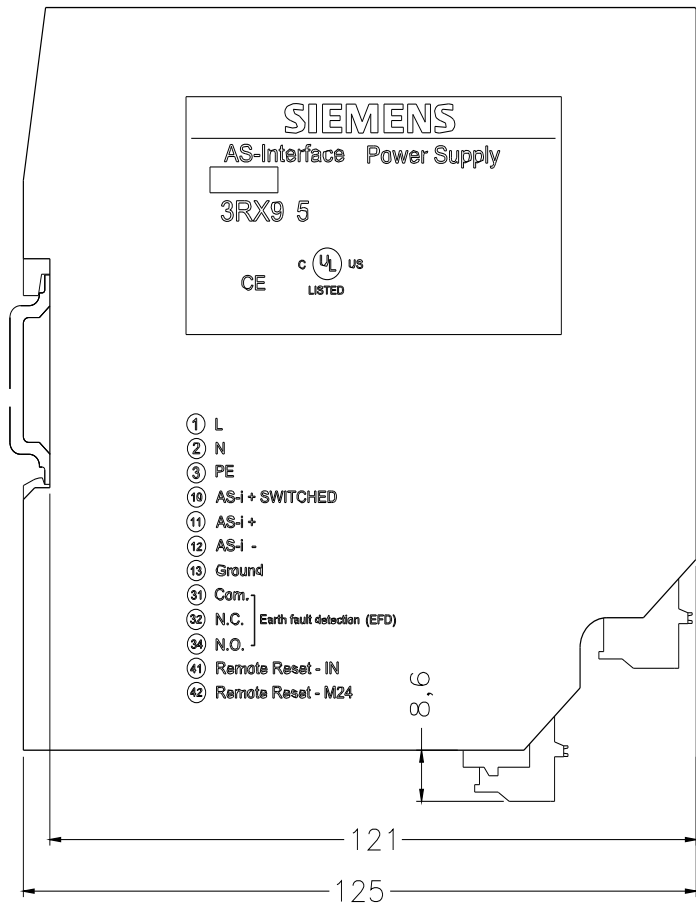
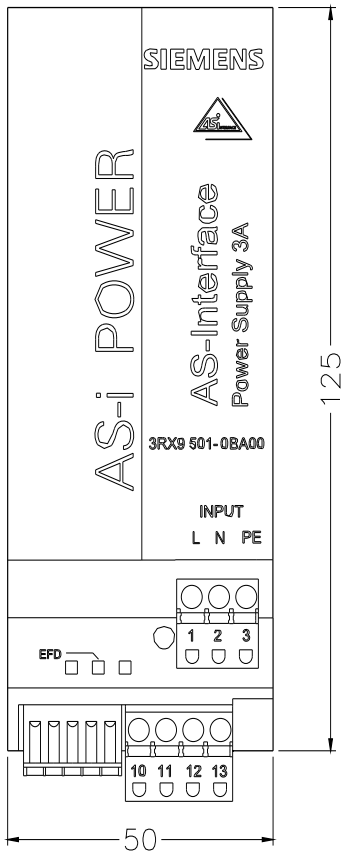
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RX9501-0BA00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RX9501-0BA00>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RX9501-0BA00&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RX9501-0BA00&lang=en)



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