

AS-Interface

Power Supply Units and Data Decoupling Modules

AS-Interface power supply units

Overview



AS-Interface power supply unit for 3 A

AS-Interface power supply units feed 30 V DC into the AS-Interface cable and supply the AS-Interface components. They include power-optimized data decoupling for the separation of communication signals and control supply voltage. As the result, AS-Interface is able to convey both data and power along a single line. The power supply units are resistant to overload and short circuits.

Dimensions

AS-Interface power supply units have compact dimensions in widths of 50 / 70 / 120 mm. No distances from other devices need to be observed when mounting the power supply units.

Features

- Higher rating: The power supply units deliver currents of 2.6 to 8 A.
- Integrated data decoupling: As the result, AS-Interface is able to convey both data and power along a single line.
- Integrated ground-fault detection: The power supply units perform the reliable detection and signaling of ground faults according to IEC 60204-1. The AS-Interface voltage can be disconnected automatically in the event of a ground fault.
- Integrated overload detection: An output overload is detected and reported over a diagnostics LED.
- Diagnostics memory: Any ground faults or overloads on the output side are stored in a diagnostics memory until the device is RESET.
- Remote RESET and remote signaling: Using relay contacts, a ground fault can be signaled and evaluated by a central controller and/or indicator light.
- Diagnostics LEDs: Three different LEDs indicate the status of the AS-Interface power supply locally at the power supply unit.
- Ultra-wide input range / two-phase connection: The ultra-wide input range of 120 to 500 V of the 8 A version means that the supply units can be used in virtually any network worldwide. In addition, this version dispenses with the need for an N conductor as the device can be connected directly between 2 phases of a network.
- Operation with 24 V DC: The 3 A power supply unit is also available as a version with a 24 V DC input. This power supply unit is suitable for use in battery-powered systems or in systems with UPS (uninterruptible power supply).
- Removable terminal blocks with spring-type connections: For easy exchanging of devices, each power supply unit has three removable terminal blocks: for the input side, for the output side and for Signal/RESET connections.

Benefits

- Complete solution for supplying AS-Interface networks while making full use of the maximum possible cable length per AS-i segment
- Only AS-i masters and AS-i slaves need to be connected to the AS-Interface cable in order to operate AS-Interface
- Compact, space-saving dimensions
- Reliable power supply even for large numbers of AS-Interface modules with a high power requirement
- Integrated ground-fault and overload detection saves the need for additional components and enhances safety
- Fast fault detection and reduced downtimes thanks to diagnostics memory, remote signaling and remote RESET
- Reduced downtimes as the result of removable terminal blocks which enable the fast exchanging of devices
- Ultra-wide input range of the 8 A version permits single-phase and two-phase operation and removes the need for an N conductor
- Can be used world-wide thanks to, for example, UL/CSA approval (UL 508)
- With the 2.6 A version, the output power is restricted to max. 100 W for use in Class 2 circuits in accordance with NEC (National Electrical Code)

Selection and ordering data

Version	SD	Spring-type terminals	PU (UNIT, SET, M)	PS*	PG
	d	Article No.	Price per PU		



3RX9501-0BA00



3RX9503-0BA00

AS-Interface power supply units, IP20

- AS-i single output 30 V DC
- With integrated ground-fault detection
- 2.6 A version with output power restricted to max. 100 W (for Class 2 circuits in accordance with NEC)
- Dimensions:
Width: 50 mm (2.6 A/3 A), 70 mm (5 A), 120 mm (8 A);
Height: 125 mm;
Depth: 125 mm

Output current	Input voltage	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
2.6 A/max. 100 W	120/230 V AC (selectable)	▶ 3RX9501-2BA00		1	1 unit	42C
3 A	120/230 V AC (selectable)	▶ 3RX9501-0BA00		1	1 unit	42C
3 A	24 V DC	▶ 3RX9501-1BA00		1	1 unit	42C
5 A	120/230 V AC (selectable)	▶ 3RX9502-0BA00		1	1 unit	42C
8 A	120/230 ... 500 V AC (selectable)	▶ 3RX9503-0BA00		1	1 unit	42C

* You can order this quantity or a multiple thereof. Illustrations are approximate