

AS-Interface power supply VAN-115/230AC-K19

- Up to 2.8 A output load
- Power factor correction
- Electronic overload protection and display
- LED operating display
- AS-Interface data decoupling
- PELV/SELV
- NEC Class 2 Power Supply

AS-Interface power supply, data decoupling, 2.8 A



Function

The primary pulsed power supply was developed for fieldbus applications that transfer power and data via one two-wire line (AS-Interface concept). With an output current of 2.8 A, it supplies a fully configured AS-Interface system. In this case, the power supply is responsible for supplying power, decoupling the data to the supply source and providing for symmetry of the two output lines (AS-Interface + and AS-Interface -) relative to the machine mass (shield connection).

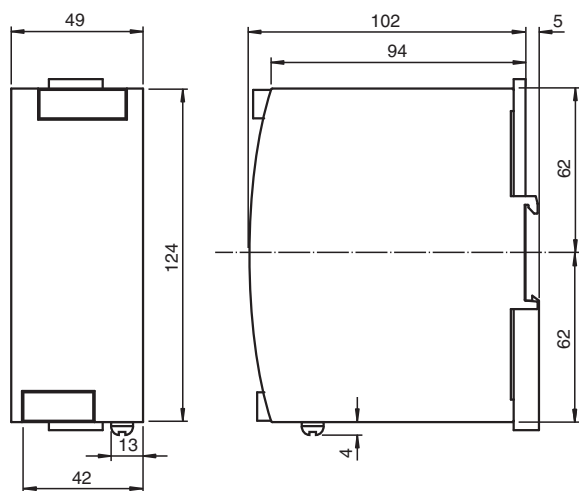
The exact and transformatory coupling permits the use of unshielded load lines.

The input voltage range of the device can be selected with a switch. Thus, the power supply can be operated on all conventional single-phase mains voltages worldwide.

Fusing:

The power supply is protected electronically against external short circuits. The internal fuse disconnects the power supply from the network in the case of a defect.

Dimensions



Technical Data

General specifications

UL File Number	E223176
MTBF	221 a

Indicators/operating means

LED AS-i ok	LED green: ON: AS-Interface voltage OK OFF: overload or no supply voltage
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Electrical specifications

Fusing	2.5 AT (not replacable)
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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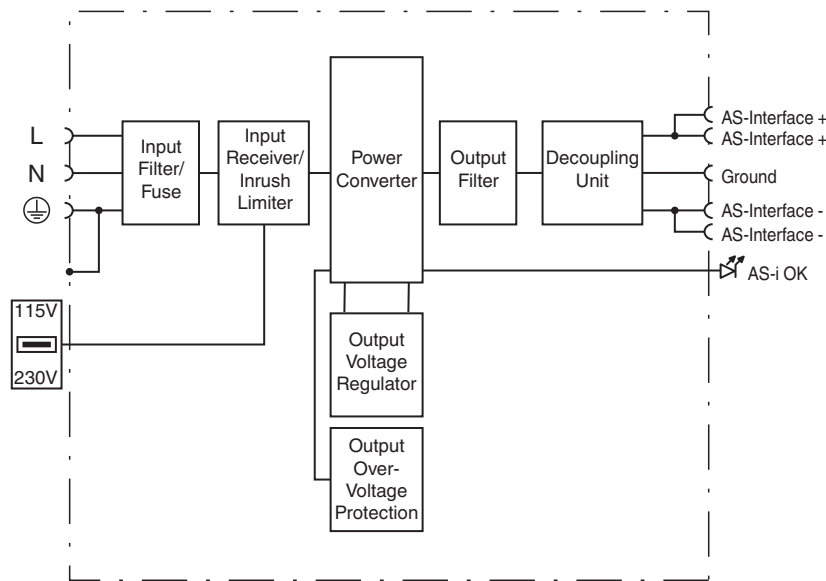
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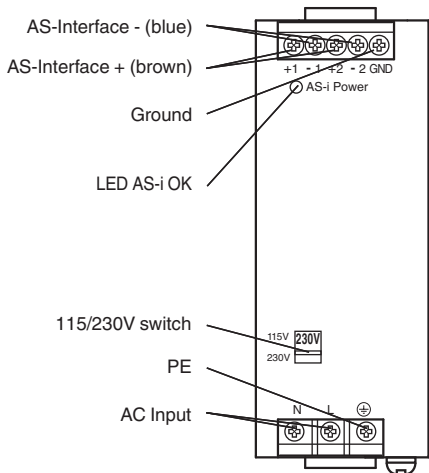
Technical Data

Capacity factor		> 0.5
Rated operating voltage	U_e	nominal: 100 ... 120 V _{AC} /220 ... 240 V _{AC} permissible: 85 ... 132 V _{AC} /184 ... 264 V _{AC}
Rated operating current	I_e	2.0 A at 115 V _{AC} 0.9 A at 230 V _{AC}
Supply frequency		47 ... 63 Hz
Efficiency		90.5 % (230 V _{AC} , 2.8 A)
Output		
Current limit		> 3.2 A
Voltage		30.55 V _{DC} ± 3 % fixed setting
Current		2.8 A
Residual ripple		≤ 50 mV _{ss} (500 kHz bandwidth, 50-Ω-measurement with ohmic load)
Short-circuit current		min. 3.2 A, max. 4.6 A
Compliance with standards and directives		
Directive conformity		
Low Voltage Directive 2006/95/EC		EN 60950-1:2006, EN 61204-3:2001
EMC Directive 2004/108/EC		EN 61000-6-2:2005, EN 61000-6-3:2007, EN 50295:1999
Standard conformity		
Electromagnetic compatibility		EN 61000-6-2:2005; EN 61000-6-3:2007
AS-Interface		EN 50295:1999, IEC 62026-2:2006
Mech. capacity		EN 60068-2-6:2008
Shock and impact resistance		EN 60068-2-27:1995
Ambient conditions		
Ambient temperature		-10 ... 70 °C (14 ... 158 °F)
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)
Shock and impact resistance		15g/6 ms 10g/11 ms
Vibration resistance		2 ... 17.8 Hz / 1.6 mm 17.8 ... 500 Hz / 2.0 g
Pollution degree		2 (EN 60950)
Mechanical specifications		
Degree of protection		IP20
Protection class		I, Protective conductor connection necessary
Connection		Connection terminals, max. conductor cross-section 0.5 ... 6 mm ² (20-10 AWG), Stripping length 7 mm
Mass		approx. 500 g
Dimensions		
Height		124 mm
Width		49 mm
Length		102 mm
Mounting		DIN mounting rail

Wiring Diagram



Assembly

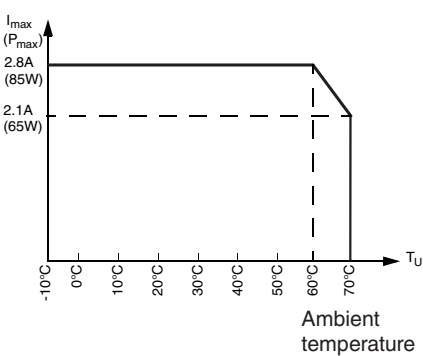


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Characteristic Curve

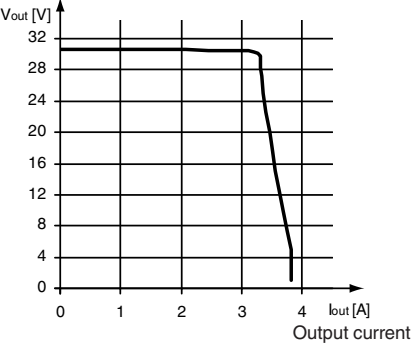
Derating

Output power



Current limitation characteristic

Output voltage



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Connection Assignment

The "GND" connection must be connected to the potential of the machine in any case.

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