



Model Number

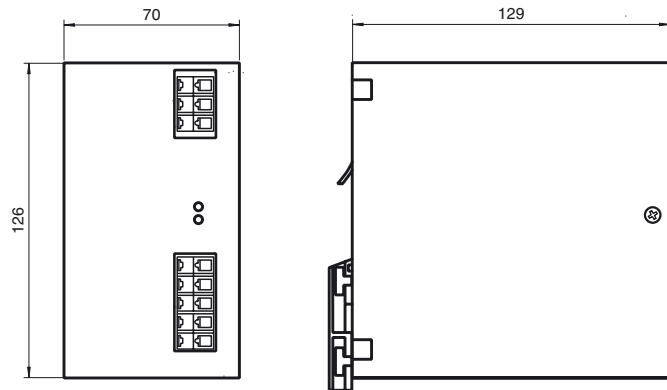
VAN-115/230AC-K17-CL2

AS-Interface power supply

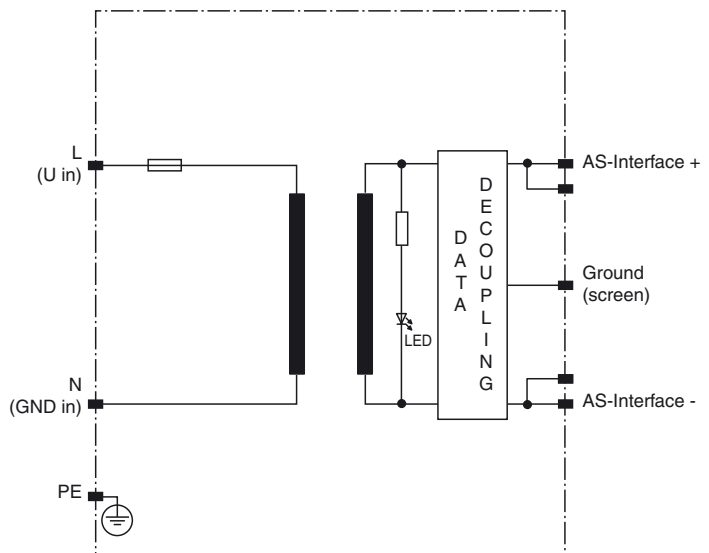
Features

- 3 A output load
- 90 V AC to 253 V AC wide range power pack
- cULus approval
- SELV
- LED operating display
- AS-Interface data decoupling
- Power factor correction

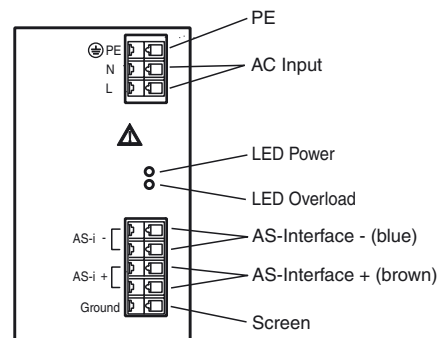
Dimensions



Electrical connection



Indicators / Operating means



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Technical data**General specifications**

UL File Number	E223176
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Functional safety related parameters

MTTF _d	40 a
Mission Time (T _M)	10 a
Diagnostic Coverage (DC)	0 %

Indicators/operating means

LED Overload	Red LED, flashing
LED PWR	LED green

Electrical specifications

Fusing	3.15 AT
Capacity factor	approx. 0.5 (Depending on input voltage)
Mains frequency	47 ... 63 Hz
Efficiency	approx. 89 %
Rated operational voltage	U _e nominal: 100 ... 240 V AC permitted: 90 ... 265 V AC
Rated operational current	I _e 2.2 A at 115 V AC 0.9 A at 230 V AC
Ripple	according to AS-Interface specification

Output

Current limit	approx. 4.5 A
Current	2.5 A
Voltage	29.5 ... 31.6 V DC
Power	max. 100 W

Standard conformity

Electromagnetic compatibility	EN 61326
AS-Interface	EN 50295
UL	Power from Class 2 Power Source
Standards	EN 60950

Ambient conditions

Ambient temperature	-10 ... 60 °C (263 ... 333 K)
Storage temperature	-25 ... 85 °C (248 ... 358 K)
Shock and impact resistance	300 m/s ²
Vibration resistance	5 ... 57 Hz / 0.15 mm 57 ... 200 Hz / 2.0 g

Mechanical specifications

Protection degree	IP20
Protection class	I, Protective conductor connection necessary
Connection	Connection terminals, max. conductor cross-section 0.5 to 2.5 mm ² Stripping length 5 to 6 mm
Mass	approx. 900 g
Mounting	DIN rail

Notes

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

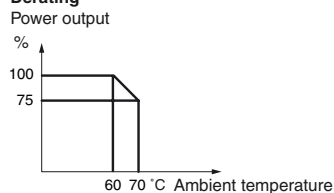
Function

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 3 A, it supplies a fully configured AS-Interface system and is limited to 100 W for UL Power Class II-approval. Due to the sinusoidal current drain from the network, harmonic waves are prevented. The power factor correction makes sure that the current is almost in phase with the voltage, which prevents idle power, and that the power factor is approx. $\cos \varphi > 0.6$.

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.

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.

Derating**Output characteristic**