Model number

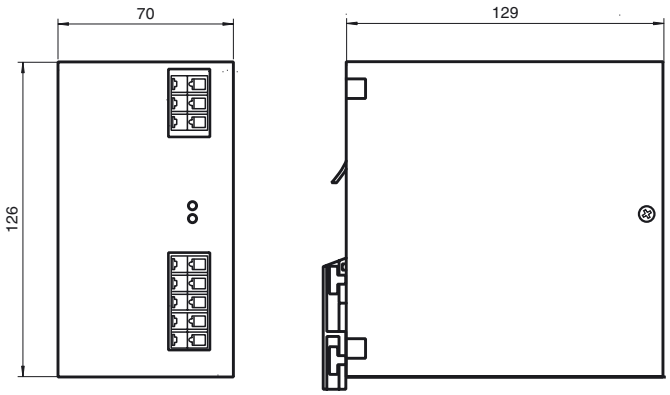
VAN-115/230AC-K17

AS-Interface power supply

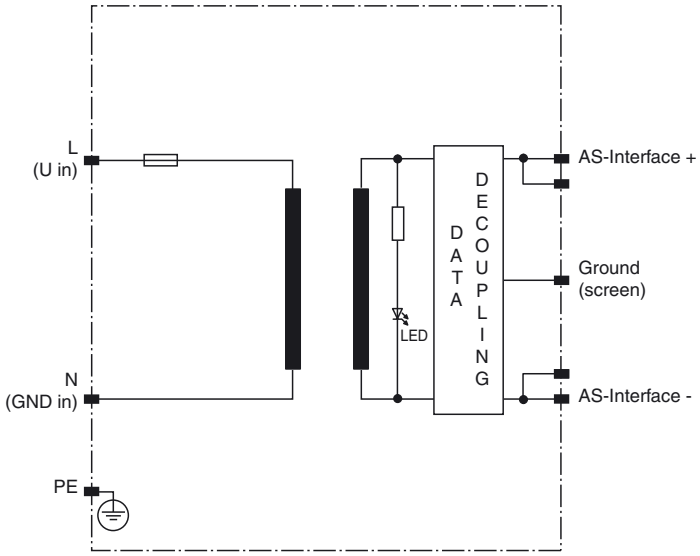
Features

- 4 A output loading
- 90 V AC to 265 V AC wide range power pack
- SELV
- LED operating display
- AS-Interface data decoupling
- Power factor correction
- Electronic overload protection and display

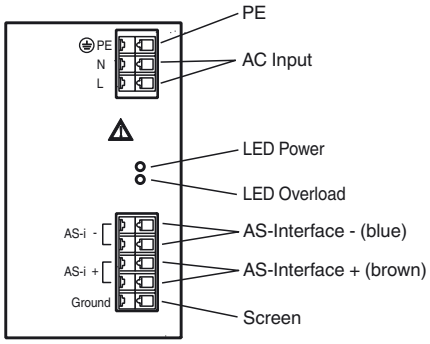
Dimensions



Electrical connection



Indicating / Operating means



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Technical data

General specifications		
UL File Number		E223176
MTBF		100 a
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. 0.6 (Depending on input voltage)
Rated operating voltage	U_e	90 ... 265 V AC
Rated operating current	I_e	approx. 0.6 A (Without reactive current)
Ripple		according to AS-Interface specification
Supply frequency		47 ... 63 Hz
Efficiency		approx. 89 %
Inrush current		< 30 A
Output		
Current limit		approx. 4.5 A
Voltage		29.5 ... 31.6 V DC
Current		4 A
Standard conformity		
Electromagnetic compatibility		EN 61326
AS-Interface		EN 50295
Standards		EN 60950
Ambient conditions		
Ambient temperature		-10 ... 60 °C (14 ... 140 °F)
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)
Shock and impact resistance		300 m/s^2
Vibration resistance		5 ... 57 Hz / 0.15 mm 57 ... 200 Hz / 2.0 g
Mechanical specifications		
Degree of protection		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 mounting rail

Notes

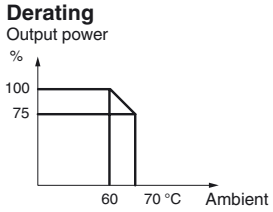
The "GND" connection must be connected to the potential of the machine in any case.

Function

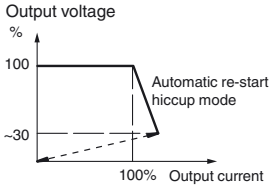
The primarily pulsed power pack has been designed for field bus applications which transmit power and data via one single two-wire cable (AS-Interface concept). It supplies a fully extended AS-Interface system with a 4 A output current. Sinusoidal current drain from the mains avoids harmonics. The power factor correction feature ensures that the current and the voltage are almost cophasal to avoid reactive power and provide a cos φ > 0.6 power factor.
The power pack makes available electric power. In addition to this, it provides for data isolation towards the power source and balancing of the two output lines (AS-Interface + and AS-Interface -) towards the reference potential of the machine (shield connection). Precise transformer coupling allows the use of unshielded load lines.

Fuses:
The power pack is electronically protected against external short circuits. In case of fault, the internal fusible link separates the power pack from the mains.

Derating



Current limitation characteristic



Accessories

AS-Interface Power Calculator
AS-Interface Power supply and network checking utility

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