



Model Number

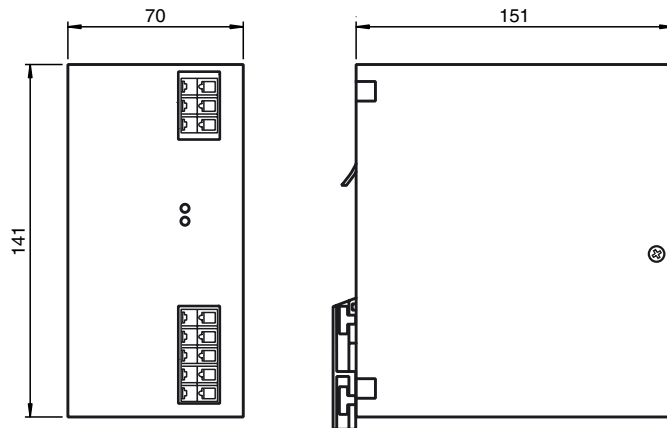
VAN-115/230AC-K24

AS-Interface power supply

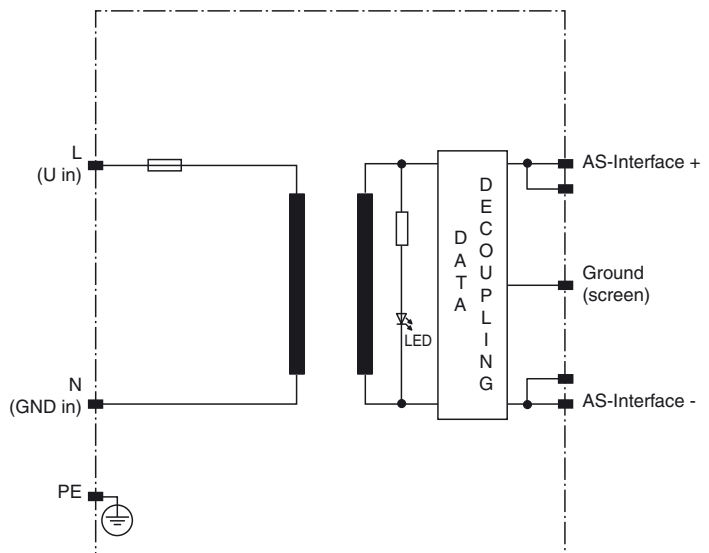
Features

- 8 A output load
- 115 V AC / 230 V AC switchable
- SELV
- LED operating display
- AS-Interface data decoupling
- Power factor correction
- Electronic overload protection and display

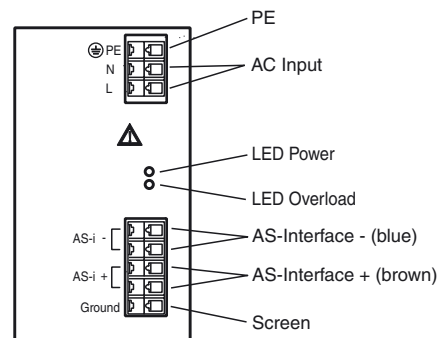
Dimensions



Electrical connection



Indicators / Operating means



Release date: 2009-03-11 09:10 Date of issue: 2009-09-28 192175_ENG.xml

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

Mains power selection switch	changeover switch for 115 V AC/230 V AC
LED Overload	Red LED, flashing
LED PWR	LED green

Electrical specifications

Fusing	6.3 AT
Capacity factor	approx. 0.62 (Depending on input voltage)
Mains frequency	47 ... 63 Hz
Efficiency	approx. 87 %
Rated operational voltage	U _e Nominal: 115 V AC/230 V AC (selectable on front) Permitted: 90 to 132 V AC/190 to 265 V AC
Rated operational current	I _e 4.0 A (115 V switch position) 1.9 A (230 V switch position)

Output

Current limit	approx. 8.5 A
Current	8 A
Voltage	29.5 ... 31.6 V DC

Standard conformity

Electromagnetic compatibility	EN 55011, EN 50082-1, EN 61000-6-2
AS-Interface	EN 50295
Standards	Harmonic waves: EN 61000-3-2 Class A Interference suppression: EN 55022, EN 55011 Class B Electrostatic discharge (ESD): IEC 61000-4-2 (8 kV contact discharge, 15 kV air discharge) Electromagnetic fields: IEC 61000-4-3 (EN 61000-4-3) Burst: IEC 61000-4-4 (4 kV input, 2 kV output/capacitively coupled) Surge: IEC 61000-4-5 (4 kV asymmetrical, 4 kV symmetrical) Conducted interference: IEC 61000-4-6 (10 V, 150 kHz to 80 MHz)

Ambient conditions

Ambient temperature	-10 ... 55 °C (263 ... 328 K) with free convection
Storage temperature	-25 ... 85 °C (248 ... 358 K)

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. 1200 g
Mounting	DIN rail

Notes

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

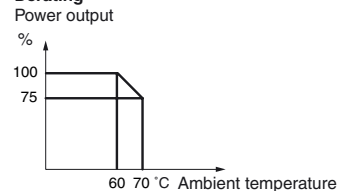
Function

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 8 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 $\cos \varphi > 0.6$ 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**Output characteristic**