



AS-Interface power supply

VAN-230/500AC-K24

- 8 A output load
- 200 ... 500 V_{AC}
- SELV
- LED operating display
- AS-Interface data decoupling
- Power factor correction

AS-Interface power supply, data decoupling, 8 A



Function

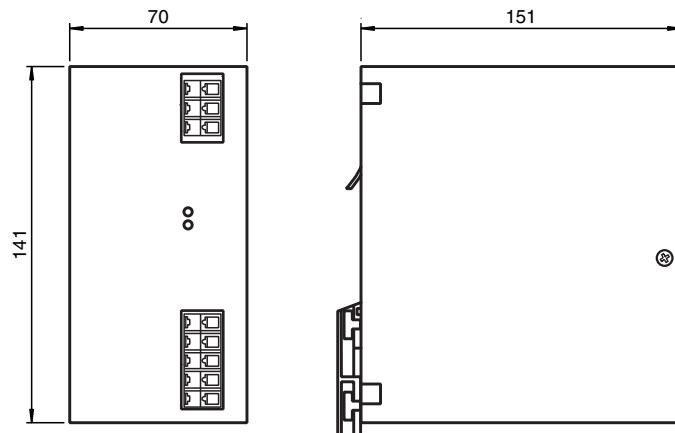
The primarily pulsed power pack has been designed for field bus applications which transmit power and data via one single two-wire cable (AS-Interface concept). It supplies a fully extended AS-Interface system with a 8 A output current. Sinusoidal current drain from the mains avoids harmonics.

The power factor correction feature ensures that the current and the voltage are almost cophasal to avoid reactive power and provide a $\cos \phi > 0.6$ 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.

Dimensions



Technical Data

Indicators/operating means

LED Overload	Red LED lights up for overload, flashes for hiccup mode
LED PWR	LED green

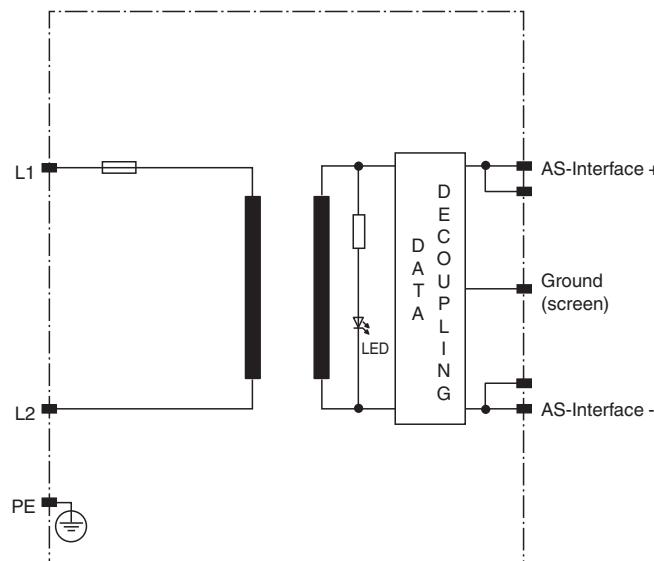
Electrical specifications

Fusing	3.15 AT (internal)
Capacity factor	0.7 Capacitive at 400 V _{AC}
Rated operating voltage	U _e 195 ... 500 V _{AC}

Technical Data

Rated operating current	I_o	1 A at 400 V _{AC}
Supply frequency		47 ... 63 Hz
Efficiency		87 %
Nominal voltage		230/400 V _{AC}
Peak inrush current	I^2t	< 50 A
Output		
Current limit		approx. 8.5 A
Voltage		31.2 V ±1 %
Current		8 A
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 50083-2:2006
Low voltage		
Directive 2014/35/EU		EN 61010-1:2010
Conformity		
Degree of protection		IEC 60529:2001
Standard conformity		
AS-Interface		IEC 62026-2:2006
Noise immunity		EN 61000-6-1:2007, EN 61000-6-2:2005
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; 10 V/m) 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 ... 40 °C (14 ... 104 °F)
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications		
Housing length		151 mm
Housing width		70 mm
Housing height		141 mm
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. 1200 g
Mounting		DIN mounting rail

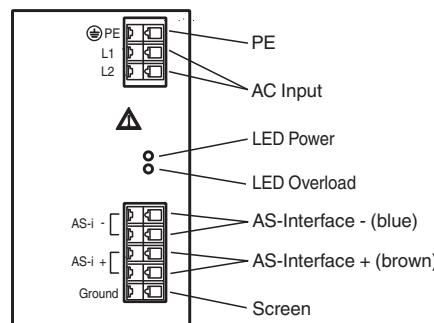
Connection



Connection

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

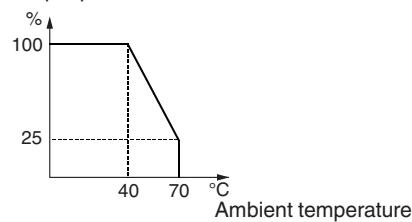
Assembly



Characteristic Curve

Derating

Output power



Current limitation characteristic

Output voltage

