Model number

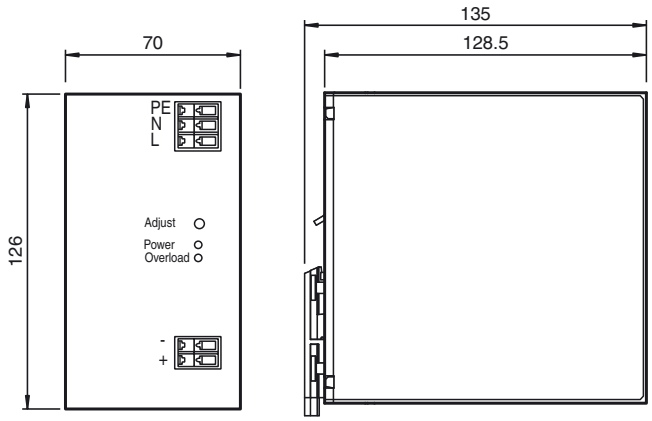
K17-STR-24..30VDC-5A

Power supply, 24 to 30 V DC, 5 A

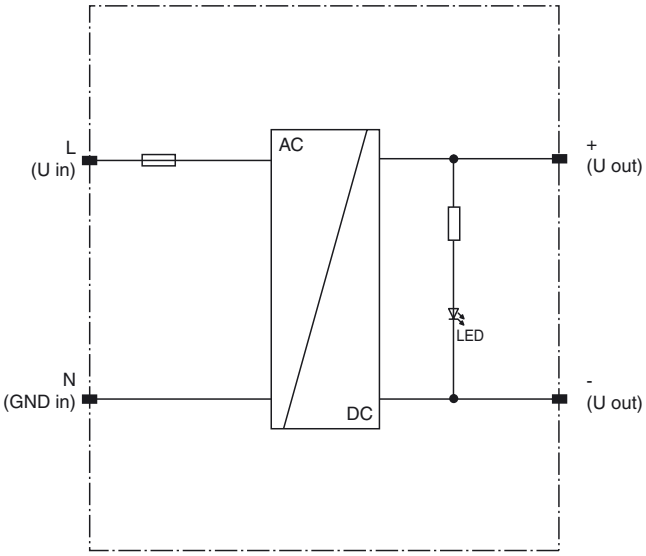
Features

- 5 A output load
- Wide range input 95...265 V_{AC}
- 24 V DC output voltage
- Sustained short-circuit proof, overload-proof and open-circuit proof
- LED operating display
- LED output overload indicator
- SELV
- Suitable for AS-Interface power supply in gateway-integrated data decoupling

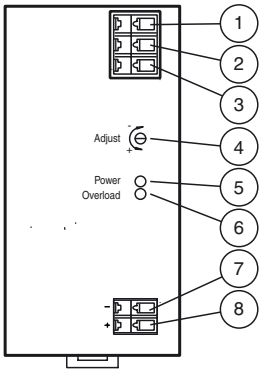
Dimensions



Electrical connection



Indicating / Operating means



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2 N
3 L
4 Adjustment of the output voltage
5 LED Power
6 LED Overload
7 - Output voltage
8 + Output voltage

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Technical data

General specifications		
UL File Number		E223176
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 lights up for overload, flashes for hiccup mode
LED PWR		LED green
Potentiometer		Output voltage adjustment
Electrical specifications		
Fusing		3.15 AT
Capacity factor		approx. 0.5 (Depending on input voltage)
Rated operating voltage	U_e	115/230 V_{AC} Wide range: 90 … 265 V_{AC}
Rated operating current	I_e	2.2 A (115 V) 1.2 A (230 V)
Supply frequency		47 ... 63 Hz
Efficiency		approx. 89 %
Output		
Current limit		approx. 5.6 A
Current		0 ... 5 A
Voltage		30 V ± 1 % Adjustment range 23 ... 30 V AC
Ambient conditions		
Ambient temperature		-10 ... 70 °C (14 ... 158 °F) with free convection
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)
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
Compliance with standards and directives		
Directive conformity		
EMC Directive 2004/108/EC and Directive 2000/95/EC		EN 55011:2009 + A1:2010, EN 61000-6-1:2007, EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011, EN 61000-6-4:2007 + A1:2011, EN 61000-3-2:2006 + A1:2009 + A2:2009, EN 61000-3-3:2008 EN 60950-1:2006 + A12:2011
Standard conformity		
Electromagnetic compatibility		EN 55011, EN 61000-6-1, EN 61000-6-2
Degree of protection		EN 60529
Standards		Harmonic waves: EN 61000-3-2 Class A Radio interference suppression: EN 55011 class A and B

Notes

Mounting

In order to ensure proper heat dissipation the power supply has to be mounted vertically in such a way, that the input terminals (L/N/PE) are located at the upper side and the output terminals (+/-) at the lower side of the front panel.

A minimum clearance of 100 mm beneath and above and 30 mm to the right and left of the power supply must be provided.

The inlet air temperature beneath the unit must not exceed the values specified in this instruction.

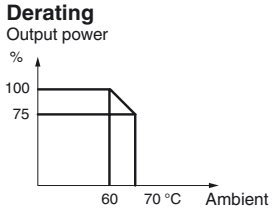
Function

The slim-line power pack provides a direct voltage in an even larger adjustable output voltage range of 23 ... 30 V DC, while optimizing the space available in the control cabinet.

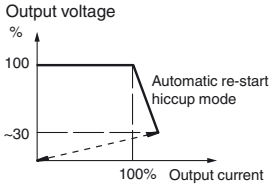
In addition to an LED showing the operational status (power), a red LED (overload) signals overloads on the output side.

The device features a convenient DIN rail fastening.

Derating



Current limitation characteristic



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