



Power supply

K34-STR-24..30V-3X500VAC-10A

- 8 A output load
- 3 x 380 ... 500 V AC supply voltage
- Sustained short-circuit proof, overload-proof and open-circuit proof
- 23 ... 30 V_{DC} output voltage, can be regulated
- LED operating display
- LED output overload indicator
- SELV
- Suitable for AS-Interface power supply in gateway-integrated data decoupling

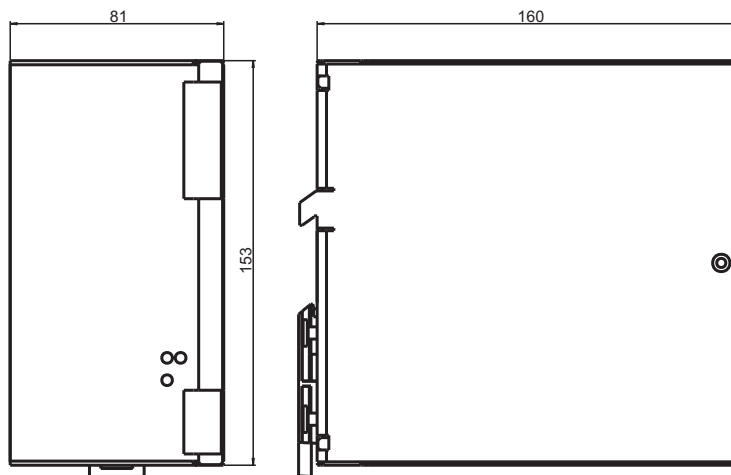
Switched mode power supply, 23 ... 30 V DC, 8 A



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. The current limit can be adjusted via an internal potentiometer. 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.

Dimensions



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 lights up for overload, flashes for hiccup mode
LED PWR	LED green
Potentiometer	Output voltage settings: 23 ... 30 V _{DC}

Technical Data

Electrical specifications

Capacity factor		0.55 capacitive
Rated operating voltage	U _e	3 x 340 ... 550 V _{AC}
Rated operating current	I _e	3 x 700 mA At 400 V _{AC}
Supply frequency		47 ... 63 Hz
Efficiency		89 %
Nominal voltage		3 x 380 ... 500 V _{AC}

Output

Current limit		12.5 A
Voltage		30 V ± 1 % Adjustment range 23 to 30 V DC
Current		0 ... 8 A

Directive conformity

Electromagnetic compatibility		
Directive 2014/30/EU		EN 55011, EN 61000-6-1, EN 61000-6-2
Low voltage		
Directive 2014/35/EU		EN 55011, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2 class A, EN 61000-3-3, EN 61010-1

Conformity

Degree of protection		IEC 60529:2001
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Standard conformity

Standards		Harmonic waves: EN 61000-3-2 Class A Interference suppression: 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 (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)
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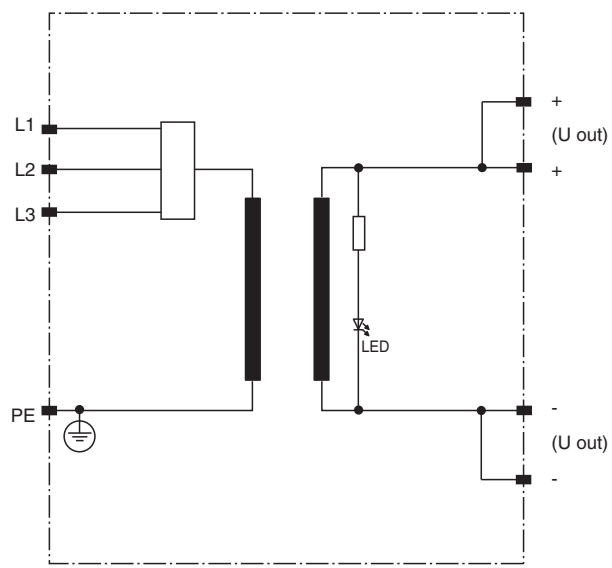
Ambient conditions

Ambient temperature		-10 ... 60 °C (14 ... 140 °F) with free convection noncondensing
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)

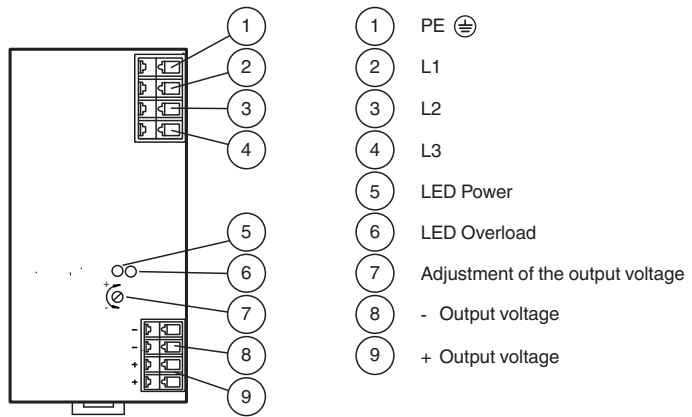
Mechanical specifications

Housing length		160 mm
Housing width		81 mm
Housing height		153 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. 1400 g
Mounting		DIN mounting rail

Connection



Assembly

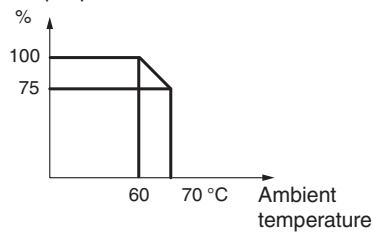


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Characteristic Curve

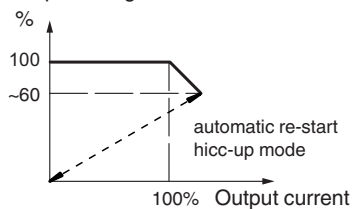
Derating

Output power



Output characteristic

Output voltage



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 the technical specification.
 The two plus respectively the two minus output connections are internally tied together.