

## SPS-24/20

- ▣ single output, industrial DIN rail power supply
- ▣ universal AC input / full range
- ▣ protections: short circuit / overload /  
over voltage / over temperature
- ▣ LED indicator for power on
- ▣ 100% full load burn-in test




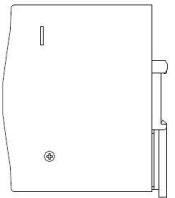
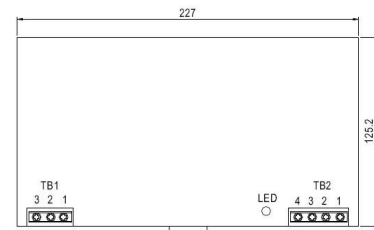
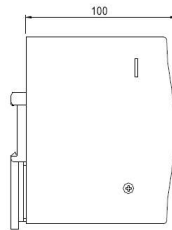
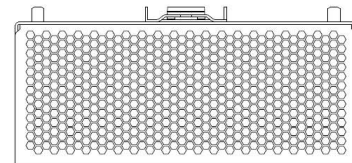
Din Rail power supplies are a fanless design for installation on TS35/7,5 or TS35/15 industrial rails available as a slim line 60 Watt unit. Known uses include general industrial applications including factory automation, electro-mechanical industry, data communications, IT, power distribution boxes, control panels, building automation and household appliance control.

- built-in passive PFC function compliance to EN61000-3-2,
- cooling by free air convection,
- can be installed on DIN rail TS-35/7,5 or 15,
- UL 508 (industrial control equipment) approved,
- high efficiency 89% and low dissipation,
- built-in constant current limiting circuit,
- EN61000-6-2 (EN50082-2) industrial immunity level.

### Pin assignment and dimensions

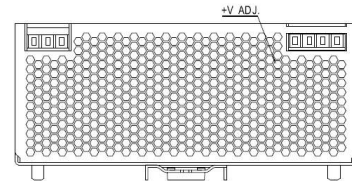
Terminal Pin. No Assignment (TB1)

Pin No.	Assignment
1	AC/L (DC+)
2	AC/N (DC-)
3	FG 

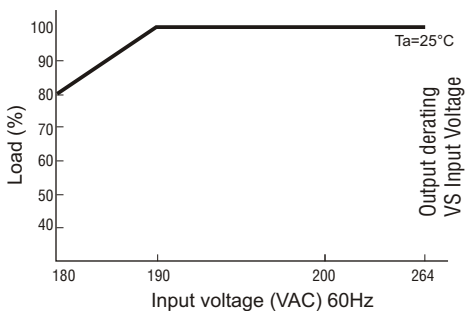
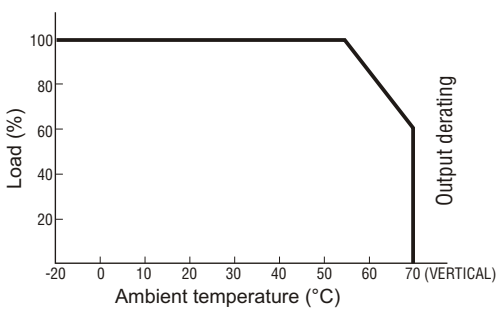


Terminal Pin. No Assignment (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V



### Output derating



### Technical data

#### Output:

DC voltage: 24 V  
 Rated current: 20 A  
 Current range: 0 - 20 A  
 Rated power: 480 W  
 Ripple & noise (max.): 120mVp-p  
 Voltage adj. Range: 24 - 28 V  
 Voltage tolerance:  $\pm 1\%$   
 Line/load regulation:  $\pm 0,5\%/\pm 1\%$   
 Setup, rise time: 1200ms, 40ms/230VAC at full load  
 Hold time (typ.): 16ms/230VAC at full load

#### Input:

Voltage range: 180 - 264 VAC; 250 - 370 VDC  
 Frequency range: 47 - 63 Hz  
 Efficiency (typ.): 89%  
 AC current (typ.): 4A/230VAC  
 Inrush current (typ.): COLD START 40A/230VAC

**Overload protection:** 105 - 150% rated output power; protection type: constant current limiting, recovers automatically after fault condition is removed

**Over voltage protection:** 30 - 36 V; protection type: shut down o/p voltage, re-power on to recover

**Over temp. protection:** 100°C  $\pm 5^\circ\text{C}$  (TSW) detect on heat sink of power transistor; protection type: shut down o/p voltage, recovers automatically after temp. goes down

**Working temperature:** -10°C - +70°C (Refer to output load derating curve)

**Working humidity:** 20 - 90% RH non-condensing

**Storage temperature / humidity:** -20°C - +85°C / 10 - 95% RH

**Temperature coefficient:** 0,03%/°C (0 ~ 50°C)

**Vibration:** 10 - 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes

**Weight:** 2,4 kg

**Dimensions (W x H x D):** 227 x 125.2 x 100 mm

**Safety standards:** UL60950-1, TUV EN60950-1 Approved, Design refer to EN50178

**EMC:** EN55022 class B, EN61000-3-2,3, EN61000-6-2, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61204-3

### Ordering

SPS-24/20