

PSPI

Direct current power supplies



PSPI

CONTA-CLIP's new generation of **PSPI** switch-mode power supplies are a perfect supply solution for small controllers. Many uses are possible: variants are available with 1.3A, 2.5A and 4A of output current and an output voltage of 24V DC.

The output voltage can be easily adjusted using the potentiometer dial located on the front side of the housing. These all-purpose power supplies are strong and versatile, yet still small and lightweight. They are well suited for a variety of uses, including solar, measurement and control systems, industrial automation and building automation applications. The primary switch-mode regulators in use ensure that there are reliable connections everywhere to the public power grids. The DIN rail mount and the tension-spring terminals ensure that they can be mounted quickly and safely.

PSPI features:

- Primary clocked switch-mode power supply
- Easy to mount on TS35 DIN rail
- Wide-range input
- Adjustable output voltage
- No-load and short-circuit safe
- Thermal overload protection
- Ambient temperature: -25 to 55°C
- IP 20 protection
- Step-shaped profile is perfect for small distributor installations

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- Standards: EN 61558-2-17, EN 60950 (safety); EN 61204-3 (EMC)

PSPI 230/24-1,3



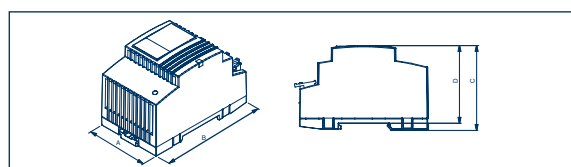
PSPI 230/24-2,5



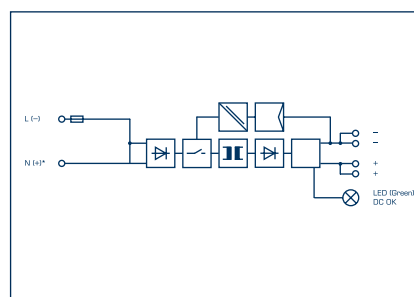
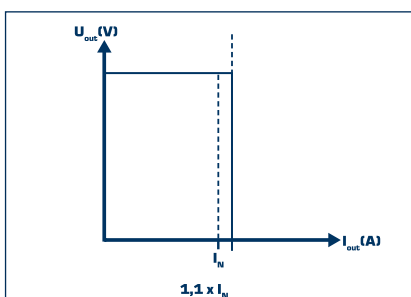
PSPI 230/24-4



Type Cat. no.	PSPI 230/24-1,3 16110.2	Qty. 1	PSPI 230/24-2,5 16111.2	Qty. 1	PSPI 230/24-4 16112.2	Qty. 1
Size (L x W x H) with TS35 x 7.5 mm	89 x 54 x 62		89 x 72 x 62		89 x 90 x 62	
Weight	170 g		240 g		300 g	
Classification	Primary clocked switch-mode power supply		Primary clocked switch-mode power supply		Primary clocked switch-mode power supply	
Mount on DIN rail	TS35 acc. to EN 60715		TS35 acc. to EN 60715		TS35 acc. to EN 60715	
Connection type	tension-spring connection		tension-spring connection		tension-spring connection	
Wire connection cross-section	max. 2.5 mm ²		max. 2.5 mm ²		max. 2.5 mm ²	
Input data						
Nominal input voltage	100 - 240 V AC		100 - 240 V AC		100 - 240 V AC	
Input voltage range	85 - 264 VAC (120-373 VDC)		85 - 264 V AC (120-373 V DC)		85 - 264 V AC (120-373 V DC)	
Nominal frequency range	44 - 66 Hz		44 - 66 Hz		44 - 66 Hz	
Input current at nominal load (110 / 230 V AC)	0.7/0.5 A		1.4 / 0.6 A		1.6 / 0.9 A	
Inrush current limit	< 30 A, NTC		< 30 A, NTC		< 30 A, NTC	
Input fuse, internal	2 A (slow-acting)		2 A (slow-acting)		2 A (slow-acting)	
Recommended series fuse*	6A, 10A, 16A characteristics B,C		6A, 10A, 16A characteristics B,C		6A, 10A, 16A characteristics B,C	
Mains failure bridging at nominal load (110 / 230 V AC)	10 / 80 ms		10 / 80 ms		15 / 100 ms	
Output specifications						
Output voltage	24 V DC ± 2%		24 V DC ± 2%		24 V DC ± 2%	
Output voltage range	22.8 - 26.4 V DC		22.8 - 26.4 V DC		22.8 - 26.4 V DC	
Output current	1.3 A		2.5 A		4.0 A	
Overload behaviour	constant current (U/I characteristic curve)		constant current (U/I characteristic curve)		constant current (U/I characteristic curve)	
Can be wired in parallel	yes		yes		yes	
Can be wired in series	yes		yes		yes	
Efficiency	typ. 82%		typ. 88%		typ. 88%	
Residual ripple (nominal load)	typ. 100mVss		typ. 100mVss		typ. 100mVss	
Safety and protection						
Protection	IP 20					
Test voltage	4.2 kV DC					
Protection class	II (in a closed electrical cabinet)					
Connection cable	Use for connecting copper cable, with min. 60°C or 60/75°C					
Intended use	For use in zones with contamination degree 2					
Resistance to feedback current	Max. 30 V DC					
Surroundings						
Indicator	LED green		LED green		LED green	
Storage temperature	-25 to +80°C		-25 to +80°C		-25 to +80°C	
Ambient temperature	-25 to +55 °C		-25 to +55 °C		-25 to +55°C	
Derating	-3%/K > +45°C		-3%/K > +45°C		-3%/K > +45°C	
Mounting position	horizontal for TS35		horizontal for TS35		horizontal for TS35	
Permitted air humidity	30% to 85% relative humidity, no condensation allowed		30% to 85% relative humidity, no condensation allowed		30% to 85% relative humidity, no condensation allowed	
Current capacity at any mounting position	max. 0.9 A		max. 1.6 A		max. 2.4 A	
Cooling	self-cooling		self-cooling		self-cooling	
Distance from adjacent components	15mm right/left, 70mm top/bottom		15mm right/left, 70mm top/bottom		15mm right/left, 70mm top/bottom	
Standards						
Safety	EN 61558-2-17 EN 60950 (SELV)		EN 61558-2-17 EN 60950 (SELV)		EN 61558-2-17 EN 60950 (SELV)	
EMC	EN 61204-3		EN 61204-3		EN 61204-3	
UL approvals	pending		pending		pending	
Dimension diagram			Output characteristic curve		Functional circuit diagram	



	A	B	C	D
PSPI 230/24-1,3	54	89	59	54
PSPI 230/24-2,5	72	89	59	54
PSPI 230/24-4,0	90	89	59	54



* A DC series fuse is required for the the DC input voltage.