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PSA-180 Series (1 Phase) Specifications

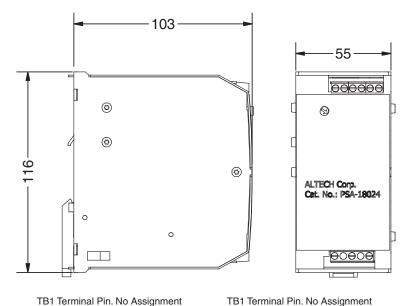


Features:

- Multiple overload/ short circuit protection modes
- Efficiency above 91%
- Small size
- DIN rail mountable
- Cooling by free air convection
- UL508 (industrial control equipment) approved
- EN60950-1
- Built-in DC OK relay contact
- 3 year warranty

UTPUT	Cat. No.	PSA-18024
	DC VOLTAGE	24 V
	RATED CURRENT	7.5 A
	CURRENT RANGE	0-7.5A
	RATED POWER	180 W
	RIPPLE & NOISE (max)	100 mVp-p
		Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF & 47µF parallel capacito
	VOLTAGE ADJ. RANGE (DC)	10 V ~ 14 V
	VOLTAGE TOLERANCE	-0.03
		Tolerance: includes set up tolerance, line regulation and load regulation.
	START UP WITH STRONG LOAD	\leq 50,000 µF
	SHORT CIRCUIT CURRENT Icc	16 A
		Max 2 sec.: Hiccup mode
		Permanent: Continuous mode
	DISSIPATION POWER LOAD mas	17 W
	LINE REGULATION	± 0.5%
	LOAD REGULATION	± 1%
	SETUP, RISE TIME	1 sec. (max)
DUT		Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.
NPUT	HOLD UP TIME (Typ.)	Typ. 20 msec
	VOLTAGE RANGE	90 ~ 135V AC / 180 ~ 264V AC switch select
	FREQUENCY RANGE	47 ~ 63 Hz +-6%
	EFFICIENCY (Typ.)	>91 %
	AC CURRENT (115 – 230 Vac.)	2.8 ~ 1.3 A
	INRUSH CURRENT (Typ.)	< 11 A < 5 msec
	INTERNAL FUSE	4A (T)
	EXTERNAL FUSE (recommended)	10 A (MCB curve B)
ROTECTION	LEAKAGE CURRENT	< 1.5 mA @ 230 Vac
NULECTION		
	OVERLOAD	In (60°C) x 1.5 ³ (3 min.)
		Current max. Overload @ 4Vdc (permanent) Imax=In (60°C) x (1.8 - 2.2)
	OVER VOLTAGE	30 – 35 Vdc
	OVER TEMPERATURE	Yes. Shuts down output and automatically restarts when the temperature inside goes down
NVIRONMENT	SHORT CIRCUIT PROTECTION	1 Hiccup Mode / 2 Fold Back / 3 Restart After Main - Selectable
	DC OK AKTIV SIGNAL (max.)	20 ~ 30 Vdc
	WORKING TEMP.	-25 up to +70 °C
	HUMIDITY	95 % at 25°C, no condensation
	STORAGE TEMP	-40 up to +85 °C
	TEMP. COEFFICIENT	$\pm 0.03\% / C^{\circ} (0 \sim 60 \ ^{\circ}C)$
AFETY & EMC	MOUNTING	In according to IEC60068-2-6
	SAFETY STANDARDS	UL508 Listed
		IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1 I/P-0/P: 3k VAC I/P-FG: 1.6k VAC 0/P-FG: 500 VAC
	WITHSTAND VOLTAGE	
	PROTECTION CLASS	IP 20 (EN/IEC 60529)
	ISOLATION RESISTANCE	100 M Ω (min) @ 500 Vdc
	EMI CONDUCTION & RADIATION	EN61000-6-4
	HARMONIC CURRENT	EN61000-3-2
	EMS IMMUNITY	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,
		EN 61000-4-6, EN61000-6-2, EN61000-6-4,
THERS		EN 61000-4-6, EN61000-6-2, EN61000-6-4, The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
THERS	MTBE IEC 61709	The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
THERS	MTBF IEC 61709 POLLUTION DEGREE	The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
THERS	POLLUTION DEGREE	The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. > 500.000 h 2
THERS	POLLUTION DEGREE CONNECTION TERMINAL BLOCK	The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. > 500.000 h 2 2.5 mm Screw terminal (24 ~ 14 AWG)
THERS	POLLUTION DEGREE	The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. > 500.000 h 2

Mechanical Specification



TB1 Terminal Pin. No Assignment

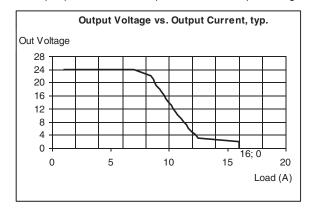
Pin No.	Assignment
	(1 phase)
1	N / AC
2	L / AC
3	FG⊕

Pin No.	Assignment

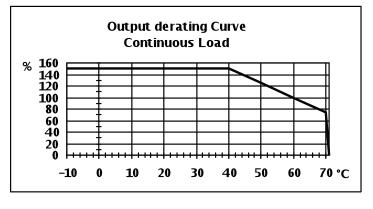
1,2	DC output -V
3,4	DC output +V
5,6	DC OK relay contacts

DC OK Relay Contact

Outputs are used for preventive function monitoring of the power supply. An electrically isolated signal contact is available. The signal contact closes when the output power is OK and opens when the output voltage falls below 20Vdc ±5%.



Output Derating Curve



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.