

Order number

EPNSW 2401

Technical Information

Single Phase Power Supply EPNSW 2401



Small design

Description	EPNSW 2401
	Power Supply for DIN-Rail 24 V / 1 A – with extendet range Input

Characteristics	
	High Cost-Effectiveness
	Extendet range Input
	Compact Dimension (only 22,5 mm wide), low weight
	Burn-in Test mit 100% Last
	100% full load burn-in test
	High efficiency
	Protections: Short circuit / Overload / Over voltage / Over temperature
	Built in DC OK aktive signal
	NEC class 2

Output	
DC Voltage	24 V
Rated Current	1 A
Current Range	0 ~ 1 A
Rated Power	24 W
Terminal connections	+V = Output + 24 VDC -V = Output - (Ground) DC OK (Output)
Connection - square	max. 1,5 sqmm
Fuse / Overload protection	Against short circuit is integrated Limited to 105 – 160 % Output (constant current) Recovers automatically
Interference Voltage Ripple&Noise (max.)	150 mVp-p
Voltage ADJ. Range	21,6 ~ 26,4 V
Voltage Tolerance	+/- 1% max.
Line Regulation	+/- 1% max.
Load Regulation	+/- 1% max.
Setup, Rise Time	500 ms, 30 ms / 230 VAC 1000 ms, 30 ms / 115 VAC at full load
Hold up time (typ.)	50 ms / 230 VAC 20 ms / 115 VAC at full load
DC-Monitoring function	DC OK Aktiv Signal (18-27 VDC / 20 mA) Connection between Output DC OK and -V (potential as output)
Over voltage protection	27,6 ~ 32,4 V

Input	
Voltage Range	85 ~ 264 VAC, 120 ~ 370 VDC (see Derating curve)
Terminal connections	⊕ = Protected earth (PE) N = neutral L = line
Terminals	max. 1,5 sqmm
Internal Fuse	Inside - Fuse 2 AT (recover only in factory) Must do – only wire-protection
Frequency Range	47 ~ 63 Hz
Efficiency (Typ.)	84 %
AC Current (Typ.)	0,55 A / 115 VAC 0,35 A / 230 VAC
Inrush Current (Cold Start))	20 A / 115 VAC 40 A / 230 VAC
Leakage Current	<1 mA / 240 VAC

Safty/EMC	
Saftey Standards	UL508, EN60950-1, NEC class 2
Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC
EMI Conduction & Radiation	EN55011, EN55022, EN61204-3 / B
Harmonic Current	EN61000-3-2,-3,
EMS Immunity	EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61000-6-1, EN61204-3

Enviroment	
Working Temperature and Humidity	-20 ~ +70°C (see derating) 20 ~ 90% RH non-condensing
Storage Temperature, Humidity	-40 ~ +85°C, 10 ~ 95% RH non-condensing
Temperature Coefficient	+/- 0,03% / °C (0 ~ 50°C)
Vibration	10 ~ 500 Hz, 2G each axes, IEC 60068-2-6

Packing and Dimension	
Dimension W x H x D in mm	22,5 x 90 x 100
Weight g.	155

