

Order number

ZPNW 2410

Technical Information

Two-phase Power Supply ZPNW 2410



Description	ZPNW 2410
	Power Supply for DIN-Rail 24 V / 10 A with extended range Input
Characteristics	
	High Cost-Effectiveness
	Wide input range from 180 - 550 V AC / 254 – 780 V DC
	Compact Dimension, low weight
	100% full load burn-in test
	Built-in DC OK relay contact
	Inrush current limiting
	Protections: Short circuit / Overload / Over voltage / Over temperature
Output	
DC Voltage	24 V
Rated Current	10 A
Current Range	0 ~ 10 A
Rated Power	240 W
Terminal connections	-V = Output - Ground +V = Output + 24 VDC
Connection - square	Max. 2,5 sqmm
Protection	Against short circuit is integrated Mode – Rated output power is 105 – 130 % max. rated current and output voltage decreases Recovers after normal load
Interference Voltage Ripple&Noise (max.)	150 mVp-p
Voltage ADJ. Range	24 ~ 28 V
Voltage Tolerance	+/- 1% max.
Line Regulation	+/- 0,5% max.
Load Regulation	+/- 1% max.
Setup, Rise Time	800 ms, 150 ms / 400 VAC 1500 ms, 150 ms / 230 VAC at full load
DC-Monitoring function	ED – DC OK (shows Power ON rated) DC – OK – Relais terminals (30V / 1A rated) Contact closes at reaching correct output voltage Contact opens at 90% output voltage
Hold up time (Typ.)	18 ms / 400 VAC 18 ms / 230 VAC at full load

Input	
Voltage Range	180 ~ 550 V AC 254 ~ 780 V DC
Terminal connections	⊕ = Protected earth N = neutral = L2 L = line = L1
Terminals	max. 2,5 sqmm
Protection	Internal Fuse not changeable Only for wire-protection
Frequency Range	47 ~ 63 Hz
Efficiency (Typ.)	91 % / 400 V
AC Current (Typ.)	1 A / 400 VAC 2 A / 230 VAC
Inrush Current (Cold Start)	50 A
Leakage Current	<3,5 mA / 530 VAC

Safety/EMC	
Safety Standards	UL508, IEC 60950-1
Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC O/P-DC OK: 0.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: >100M Ohms/500VDC / 25°C / 70% RH
EMI Conduction & Radiation	EN55022 / EN 61204-3 / B
EMS Immunity	EN61000-3-2,-3
Safety Standards	EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61204-3, EN61000-6-2 (EN50082-2)

Protection	
Overload	105 ~ 130% rated output power
Overvoltage	29 ~ 33 V
Over Temperature	90°C ±5 °C

Environment	
Working Temperature, Humidity	-30 ~ +70°C (see Derating), 20 ~ 95% 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

Dimensions and Packing	
Dimension B x H x T in mm	63 x 125,2 x 113,5
Weight g.	1.060

