POWER SUPPLY 3-PHASE, 72 V DC DIMENSION X SERIES

XT40.721 PSU 3PH 400V ac I/P 72V dc 13.3A 960W O/P

- Output current of 13 A
- 95.5% efficiency
- 96 mm wide
- 25% power boost
- · Very high short-circuit current





PRODUCT DESCRIPTION

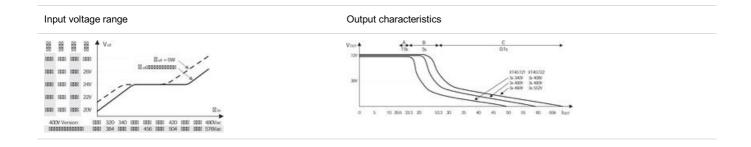
The power supplies in the Dimension X-Series include a new and innovative concept for generating an isolated dc voltage from a three-phase mains system. A semi-regulated resonant converter enables a very compact design, maximum efficiency and extremely competitive pricing with only a small compromise in the output voltage regulation, output ripple and hold-up time.

Weighing just 1.4 kg, the device provides 960 watts of continuous output power and an additional 25% power reserve for dynamic loads. The light-weight design along with compact dimensions facilitate straightforward mounting on DIN-rail.

Primary use are applications involving supplies to motors, valves and other load circuits with a high power consumption, where an accurate output voltage regulation which is standard on traditional switched-mode power supplies is not required.

Furthermore, these switched-mode power supplies can often replace mains transformers with rectifiers.

We recommend free space of 40 mm above and 20 mm under the unit, and 5 mm at the sides. (If adjacent components are considered as heat sources, a distance of 15 mm is recommended.)



TECHNICAL DATA

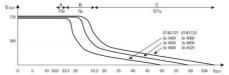
INPUT DATA

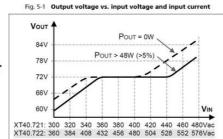
Input voltage ac	400 V
Input voltage ac min	360 V AC
Input voltage ac max	440 V AC

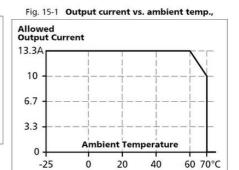
Inrush current at 400 V ac typical	4 A
Power factor at 400 V ac, full load. Typical	0,93
Number of phases	3
OUTPUT DATA	
Output voltage	72 V DC
Output voltage min	72 V DC
Output voltage max	72 V DC
Output current	13,3 A
Power	960 W
EFFICIENCY / LIFETIME / MTBF	
Efficiency at 400 V ac, full load, typical	95,5 %
MTBF (IEC 61709) 400 V ac, max loan, +40 °C	539000 h
DIMENSIONS	
Width	96 mm
Height	124 mm
Depth	159 mm
Weight	1,4 kg
OTHER	
Approvals	CB, CE, CSA, UL
Hold time at 400 V ac, typical full load	3 ms
IP class	IP20
Material protection	Aluminium
Supply frequency	50-60 ±6 %
Ripple max	200 mV pp
Series	Dimension X
Power consumption at 400 V ac	1,65 A
Power drop from +60 °C to + 70 °C	24 W/°C
Temperature min without derating	-25 °C
Temperature max without derating	60 °C
Type Power Supply	AC-DC
Active Transient	Voc

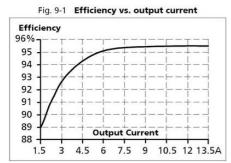
Yes

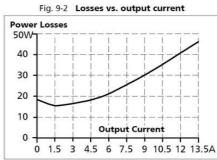
Active Transient











SWITCHED-MODE POWER SUPPLY

X140 Seeniregulated power supply
Ingut voltage range
involt current range
involtage

25. COMPARISON BETWEEN THE XT40, A TRANSFORMER AND A TRADITIONAL

