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POWER SUPPLY 3-PHASE, 24 V DC DIMENSION C SERIES

CT10.241
PSU 3PH 380-480V ac I/P 24V dc 10A 240W O/P



- Output current of 10 A
- Up to 92.9% efficiency
- High reliability
- Integrated primary fuses

PRODUCT DESCRIPTION

Puls Dimension C is a series of very high quality, reliability and performance.

CT10 has built primary fuses that make it possible to connect the unit without the need for intermediate fuses up to 32 A (UL) which saves space and money.

The efficiency is high over a wide load range, which results in reduced power consumption and longer life regardless of load current. A mean value of the efficiency from 50% to 100% load is 92.6% with a peak value of 93.2%.

The short circuit current is 3 x rated current for 20 ms, which helps secondary fuses. Power boost of 20% enables higher current extraction without voltage drops. This is especially useful during start-ups and to bridge the current peaks in the application. Power can be used continually up to +45°C and short periods from +45 to +60°C.

Active transient ensure operation also in very störrik electrical environment in addition, CT10 active inrush current protection, which means a very low starting current, even if the unit has been in operation for a longer time. Especially useful for redundant / parallel-connected systems.

Power supply connected with 3 stages but can operate on only two phases, taking into account the load and ambient temperature.

We recommend free space of 40 mm above and 20 mm under the power supply, and 5 mm at the sides.

TECHNICAL DATA

INPUT DATA

Input voltage ac	380-480 V
Input voltage ac min	323 V AC
Input voltage ac max	576 V AC
Inrush current at 400 V ac typical	4 A
Input voltage range	Wide-range
Power factor at 400 V ac, full load. Typical	0.53

Number of phases	3

OUTPUT DATA

Output voltage	24 V DC
Output voltage min	24 V DC
Output voltage max	28 V DC
Output current	10 A
Power	240 W

EFFICIENCY / LIFETIME / MTBF

Efficiency at 400 V ac, typical	92.2 %
Efficiency at 400 V ac, full load, typical	92.8 %
Lifetime at 400 V ac, full load and +40 ° C	54000 h
MTBF (IEC 61709) 400 V ac, max loan, +40 °C	975000 h

DIMENSIONS

Width	62 mm
Height	124 mm
Depth	117 mm
Weight	0.75 kg

OTHER

Approvals	ABS, CB, CE, CSA US, cRUus, cULus, GL
Hold time at 400 V ac, typical full load	34 ms
IP class	IP20
Clamp type	Screw
Material protection	Aluminium
Supply frequency	50-60 ±6 %
Ripple max	50 mV pp
Series	Dimension C
Power consumption at 400 V ac	0.7 A
Power drop from +60 °C to + 70 °C	6 W/°C
Temperature min without derating	-25 °C
Temperature max without derating	60 °C

Type Power Supply	AC-DC
Active Transient	Yes

Fig. 6-1 **Output voltage vs. output current, typ.**

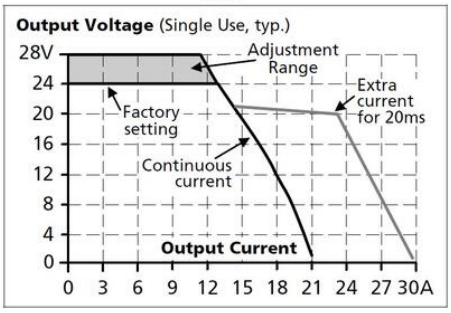


Fig. 14-1 **Output current vs. ambient temp.**

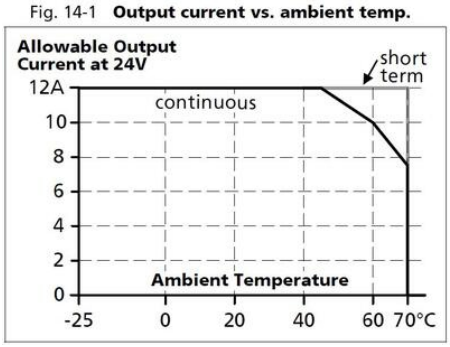


Fig. 8-1 **Efficiency vs. output current at 24V, typ., 3-phase operation**

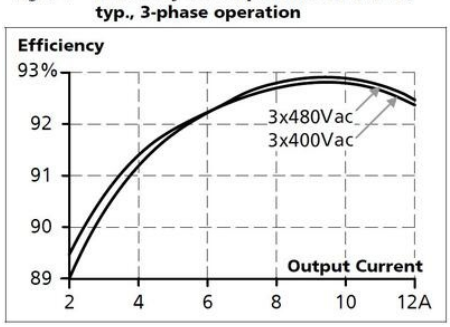
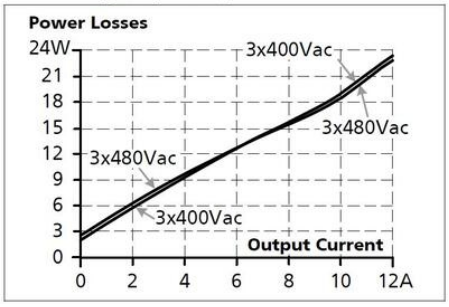


Fig. 8-2 **Losses vs. output current at 24V, typ., 3-phase operation**



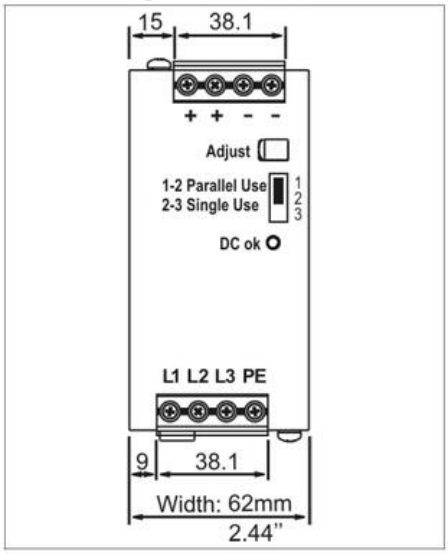
Maximal wire length for a magnetic (fast) tripping *):

	0.75mm²	1.0mm²	1.5mm²	2.5mm²
C-2A	23m	28m	43m	69m
C-3A	18m	23m	34m	54m
C-4A	6m	12m	18m	28m
C-6A	3m	4m	6m	7m
C-8A	2m	3m	4m	5m
C-10A	1m	2m	3m	4m
B-6A	9m	14m	19m	33m
B-10A	4m	5m	6m	9m
B-13A	3m	4m	5m	8m

Fig. 10-1 **Front side**



Fig. 20-1 **Front view**



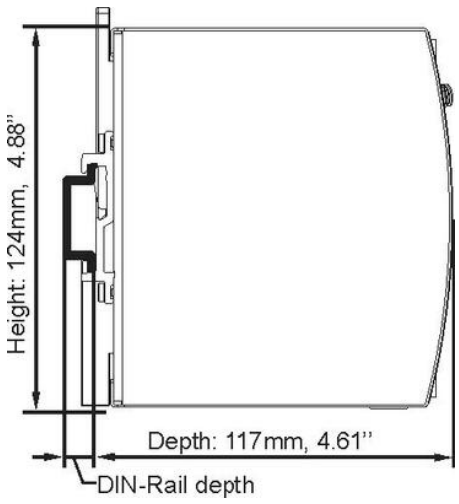


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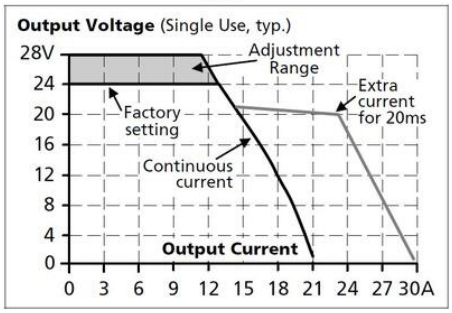


Fig. 14-1 **Output current vs. ambient temp.**

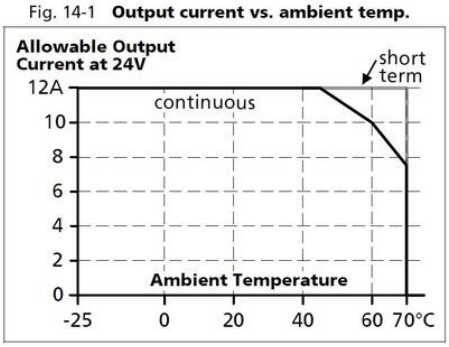


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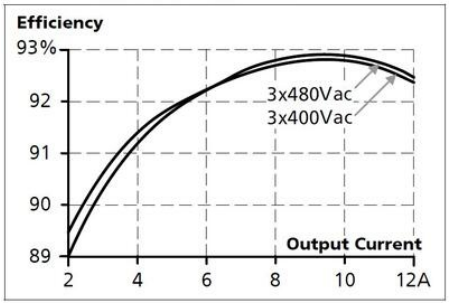
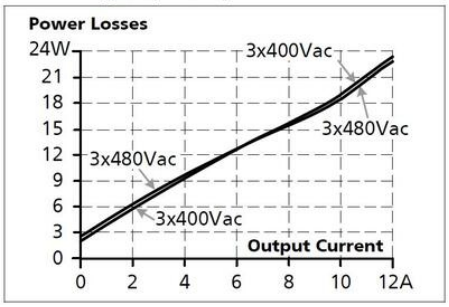


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