POWER SUPPLY 3-PHASE, 48 V DC DIMENSION C SERIES

CT10.481 PSU 3PH 380-480V ac I/P 48V dc 5A 240W O/P

- . Output current of 5 A
- Up to 92.8% efficiency
- · Integrated primary fuses
- · High reliability





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. An average efficiency of 50% to 100% load is 92% with a peak value of 92.8%.

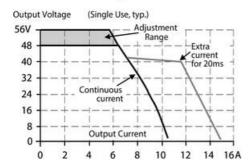
The short circuit current is 3×10^{-2} x rated current for 20 ms, which helps secondary fuses. Power boost of 20% enables higher current extraction without voltage drops. This is especially useful during start-ups and to bridge the current peaks in the application. Power can be used continually up to +45°C and short periods from +45°C to +60°C.

Active transient ensure operation also in very interference rich 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 loading and ambient temperature.

We recommend free space of 40 mm above and 20 mm below the unit, and 5 mm on the sides.

Power reserve

Output voltage vs. output current, typ.



Specifications

Active Transient	Yes		
Approvals	ABS, CB, CE, CSA US, cRUus, cULus, GL		
Clamp type	Screw		
Depth	117		
Effect	240		
Efficiency At 400 V AC, full load. Typical	92.8		
Efficiency At 400 V AC. Typical	92		
Height	124		
Hold-up time at 400 V AC, full load. Typical.	34		
Input voltage AC	380-480 V		
Input voltage ac max	576		
Input voltage ac min	323		
Input voltage dc max	780		
Input voltage dc min	450		
Input voltage range	Wide-range		
Inrush current at 400 V ac typical	4		
IP Class	IP20		
Lifetime at 400 V ac, full load and +40 ° C	122000		
Material Protection	Aluminium		
MTBF (IEC 61709) 400 V ac, max loan, +40 °C	1051000		
Number of phases	3		
Output Current	5		
Output voltage	48		
Output voltage max	56		
Output voltage min	48		
Power consumption at 400 V ac	0.7		
Power Factor at 400 V AC, full load. Typical	0.53		
Power Reduction Of 60 To 70 ° C	6		
Ripple. max	50		
Series	Dimension C		
Supply Frequency	50-60 ±6 %		
Temperature Range Without Derating From	-25		
Temperature Range Without Derating To	60		
Type Power Supply	AC-DC		

Weight 0.75

Width 62

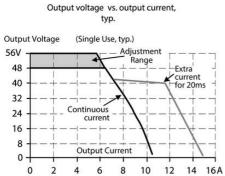
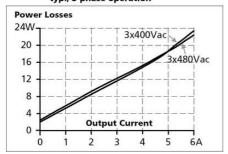


Fig. 14-1 Output current vs. ambient temp. Allowable Output Current at 48V short term 6A continuous 5 4 3 2 **Ambient Temperature** 0--25 0 20 40 60 70°C

Efficiency vs. output current at 48V, typ., 3-phase operation Fig. 8-1 Efficiency 94% 93 3x400Vac 92 91 3x480Vac 90 89 **Output Current** 88 6A 4 3

Fig. 8-2 Losses vs. output current at 48V, typ., 3-phase operation



| Maximal wire length for a magnetic (fast) tripping *):
| 0.75mm² | 1.0mm² | 1.5mm² | 2.5mm²

C-2A	52m	70m	94m	148m
C-3A	33m	42m	64m	97m
C-4A	19m	23m	33m	48m
C-6A	8m	9m	13m	22m
C-8A	150	-:	-	37
C-10A	-	-	-	-
B-6A	18m	22m	33m	46m
B-10A	4m	5m	10m	13m

Fig. 10-1 Front side



14 16A

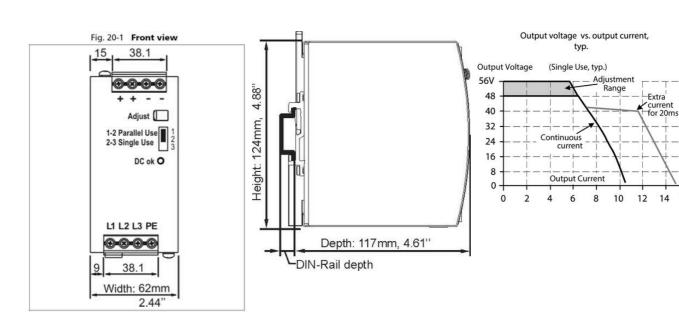


Fig. 14-1 Output current vs. ambient temp.

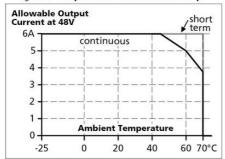


Fig. 8-1 Efficiency vs. output current at 48V, typ., 3-phase operation

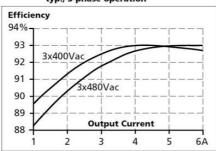
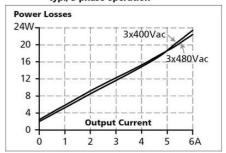


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C-3A	33m	42m	64m	97m
C-4A	19m	23m	33m	48m
C-6A	8m	9m	13m	22m
C-8A	1.51	5	-	17.0
C-10A	-	-	-	- 4
B-6A	18m	22m	33m	46m
B-10A	4m	5m	10m	13m

Fig. 10-1 Front side

A

C C C C

+ + -
DC 48V 5A

48-56V

Parallel Use

DC on E

PULS

DIRNOERUSIONU

3AC 380-480V

L1 L2 13
B

C B

15 38.1 38.1 1-2 Parallel Use 2.3 Single Use 2.3 Single Use 2.3 Width: 62mm
2.44"

