

POWER SUPPLY 2-PHASE, 24 V DC DIMENSION C SERIES

CT5.241 POWER SUPPLY 24VDC 5A 2 PHASE

- Output current of 5 A
- Up to 90.4% efficiency
- High reliability
- 20% power reserve
- Integrated primary fuses



2ULS

PRODUCT DESCRIPTION

Puls Dimension C is an affordable range of very high quality, reliability and performance.

CT5 has integrated 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. The average efficiency is 88.8% with a peak value of 90.4%.

The power supply can provide a higher short-circuit current for a short time, which helps to 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. The power reserve can be used continuously up to $+45^{\circ}$ C and short periods from +45 to $+60^{\circ}$ C.

Active transient ensure operation also in very störrik electrical environment and moreover CT5 has active inrush current protection, which means a very low starting current, even if the unit has been in operation for a longer time. This is particularly useful for redundant / parallel system.

Power supply is connected to two phases, saving wiring and fuses. Thanks to the low power consumption, the effect of the imbalance in the three-phase system is negligible.

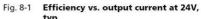
We recommend free space of 40 mm above and 20 mm below the unit and 5 mm on the sides.

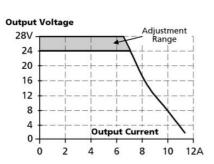
SPECIFICATIONS

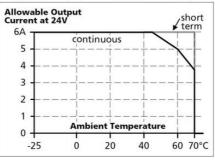
Input voltage range	Wide-range
Number of phases	2
Input voltage AC	380-480 V
Input voltage ac min	323 V AC
Input voltage ac max	576 V AC
Inrush current at 400 V ac typical	4 A

Depth117 mmWeight0.5 kgClamp typeScrewSeriesDimension CApprovalsABS, CB, CE, CSA, US, cR/Us, GLMaterial ProtectionAluminiumIbld-up time at 400 V AC, full load. Typical.27 msIbld-up time at 400 V AC, full load. Typical.1920		
Power consumption at 400 V ac 0.75 A Type Power Supply AC-DC Output voltage 24 V DC Output voltage min 24 V DC Output voltage max 28 V DC Output voltage max 38 V DC Power Reduction Of 60 To 70 ° C 30 W C Ripple. max 50 m V pp Temperature Range Without Derating From -25 °C C Efficiency At 400 V AC. Typical 80 °C Efficiency At 400 V AC, full load. Typical 90 °C With 40 °C Max 1173000 h Temperature Range Without Derating To 90 °C With 40 °C With 124 mm It for field for for for for C Soreway Soreway Soreway Catap type Soreway Reproval ABS Material Protection ABS Material Protection ABS Material Protection	Power Factor at 400 V AC, full load. Typical	0.45
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Output voltage24 V DCOutput voltage main24 V DCOutput voltage max28 V DCOutput Current5AEffect120 WRipple. max30 M / CTemperature Range Without Derating From-25 °CTemperature Range Without Derating Tom88 %Terifectery At 400 V AC, Typical88 %Efficiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load and +40 °C92000 hTeriferiency At 400 V AC, full load And +40 °C92000 hTeriferiency At 400 V AC, full load And +40 °C92000 hTeriferiency At 400 V AC, fu	Power consumption at 400 V ac	0.75 A
Output voltage main24 V DCOutput voltage max28 V DCOutput Current5 AEffect120 WPower Reduction Of 60 To 70 °C3 W/°CRipple. max50 mV ppTemperature Range Without Derating From-25 °CTemperature Range Without Derating From-25 °CEfficiency At 400 V AC. Typical88.8 %Efficiency At 400 V AC, full load. Typical90.4 %Efficiency At 400 V AC, full load. Typical90.0 %Iffeliency At 400 V AC, fu	Type Power Supply	AC-DC
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Riple. max50 mV ppTemperature Range Without Derating From-52 °CTemperature Range Without Derating Too60 °CTemperature Range Without Derating Too88.8 %Efficiency At 400 V AC. Typical88.8 %Efficiency At 400 V AC, full load. Typical90.00 %Diffe file at 400 V ac, full load and +40 °C90.00 %With10300 %Mith2000 %Uith104 mmDepth124 mmPaipt124 mmDepth0.5 %Campary SolutionSoneArrow SolutionDimension CalculationArrow SolutionDimension Calculation CalculationApprovalsAsc Sc Sc Sc AUS, scRUus, scUus, scUus, scLuus, sclutionAldering Protection27 msPaipt27 msPaip		
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Temperature Range Without Derating To 60 °C Efficiency At 400 V AC. Typical 88.8 % Efficiency At 400 V AC, full load. Typical 90.4 % Ifetime at 400 V ac, full load and +40 °C 9200 h MTBF (IEC 61709) 400 V ac, max loan, +40 °C 17300 h Vidth 40 mm Popth 124 mm Vieght 0.5 kg Camp type Sereex Dimension C Approvals Mominium Aterial Protection Alwinium Hold-up time at 400 V AC, full load. Typical 17 ms		
Ffriciency At 400 V AC. Typical 86.8 % Efficiency At 400 V AC, full load. Typical 90.0 % Lifetime at 400 V AC, full load. and +40 ° C 92000 % MTBF (IEC 61709) 400 V ac, max loan, +40 °C 117300 % Width 40 mm Height 124 mm Depth 117 mm Vieight 5 kg Series Dimension C Approvals ABS, CE, CSA US, cRUus, cULus, GL Approvals Auminium Hold-up time at 400 V AC, full load. Typical 127 ms		
Efficiency At 400 V AC, full load. Typical 90.4 % Lifetime at 400 V ac, full load and +40 °C 9000 h MTBF (IEC 61709) 400 V ac, max loan, +40 °C 1173000 h With 40 mm Height 124 mm Depth 0.5 kg Campatype Screw Series Dimension C Approvals Als, CB, CE, CSA US, cRUus, cULus, GL Material Protection 27 ms Id-Lapation 12 minimim	Temperature Range Without Derating To	60 C
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MTBF (IEC 61709) 400 V ac, max loan, +40 °C 1173000 h Width 40 mm Height 124 mm Depth 117 mm Weight 0.5 kg Clamp type Screw Series Dimension C Approvals ABS, CB, CE, SA, US, cRUus, cULus, GL Material Protection 27 ms Itelates 17 ms	Efficiency At 400 V AC, full load. Typical	90.4 %
Width40 mmHeight124 mmDepth17 mmWeight0.5 kgClamp typeScrewSeriesDimension CaApprovalsABS, CB, CE, CSA, US, cR/Uus, GLAdd-up time at 400 VAC, full load. Typical27 msID120 msID </th <th>Lifetime at 400 V ac, full load and +40 ° C</th> <th>92000 h</th>	Lifetime at 400 V ac, full load and +40 ° C	92000 h
Height124 mmDepth117 mmWeight0.5 kgClamp typeScewaSeriesDimension CaApprovalsABS, CB, CE, CSA US, cRUus, cULus, GLMaterial Protection27 msIbld-up time at 400 V AC, full load. Typical27 msIbld-up time at 400 V AC, full load. Typical1920	MTBF (IEC 61709) 400 V ac, max loan, +40 °C	1173000 h
Depth117 mmWeight0.5 kgClamp typeScrewSeriesDimension CApprovalsABS, CB, CE, CSA, US, cR/Us, GLMaterial ProtectionAluminiumIbid-up time at 400 VAC, full load. Typical.27 msIbid-up time at 400 VAC, full load. Typical.1920	Width	40 mm
Weight0.5 kgClamp typeScrewSeriesDimension CApprovalsABS, CB, CE, CSA US, cRUus, cULus, GLMaterial ProtectionAluminiumIP Class190	Height	124 mm
Clamp typeScrewSeriesDimension CApprovalsABS, CB, CSA, US, cRUus, cULus, GLMaterial ProtectionAluminiumHold-up time at 400 V AC, full load. Typical.27 msIP ClassIP20	Depth	117 mm
SeriesDimension CApprovalsABS, CB, CSA US, cRUus, cULus, GLMaterial ProtectionAluminiumHold-up time at 400 V AC, full load. Typical.27 msIP ClassIP20	Weight	0.5 kg
ApprovalsABS, CB, CSA US, cRUus, cULus, GLMaterial ProtectionAluminiumHold-up time at 400 V AC, full load. Typical.27 msIP ClassIP20	Clamp type	Screw
Material ProtectionAluminiumHold-up time at 400 V AC, full load. Typical.27 msIP ClassIP20	Series	Dimension C
Hold-up time at 400 V AC, full load. Typical.27 msIP ClassIP20	Approvals	ABS, CB, CE, CSA US, cRUus, cULus, GL
IP Class IP20	Material Protection	Aluminium
	Hold-up time at 400 V AC, full load. Typical.	27 ms
Active Transient Yes	IP Class	IP20
	Active Transient	Yes









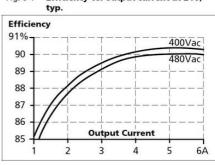
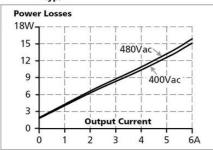


Fig. 8-2 Losses vs. output current at 24V, typ.



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

	0.75mm ²	1.0mm ²	1.5mm ²	2.5mm ²
C-2A	17m	19m	29m	39m
C-3A	11m	14m	22m	33m
C-4A	3m	4m	6m	14m
C-6A	1m	1m	2m	3m
C-8A	-		-	
B-6A	6m	9m	13m	17m
B-10A	-	-	-	1m

PIG. 10-1 Pront side

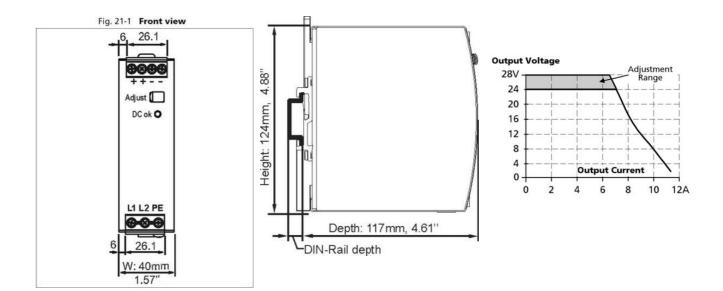
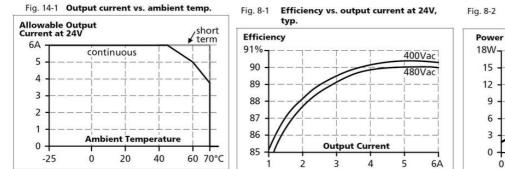
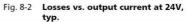
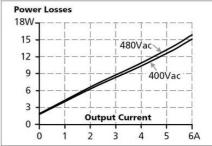


Fig. 10-1 Front side







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

	0.75mm ²	1.0mm ²	1.5mm ²	2.5mm ²
C-2A	17m	19m	29m	39m
C-3A	11m	14m	22m	33m
C-4A	3m	4m	6m	14m
C-6A	1m	1m	2m	3m
C-8A	-		-	
B-6A	6m	9m	13m	17m
B-10A	-		-	1m



