



# Time Proportioning Power Controller to 100/80Amp TP F7 Series

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- Solid State Relay assemblies rated to 80A/pole and 100A/pole @ 40°C (100% duty cycle, respectively)
  - Suitable for inductive loads (w/ -10 option)
  - Configurable for 4 different cycle times
  - Drives multiple Solid State Relays
  - 3 phase control
  - 90°C over-temp cutout switch standard
  - Relays & fan: UL, CSA, VDE, CE
  - LED input status indicator & panel mount standard
  - User selectable input
  - Ball bearing fan standard; 50/60 Hz
- (1) Fan options: B - 120VAC fan, C - 240VAC fan, I - 24VDC fan (Add letter of fan to end of part # EX: HBC-125DF73B – Denotes 3 phase, 3 pole, W/ 120VAC fan

Shown: TP-125DF73B-PS48

OUTPUT SPECIFICATIONS	80Amp		100Amp	
	TP-90DF73(1)	TP-690DF73(1)	TP-125DF73(1)	TP-6125DF73(1)
	3 Phase / 3 Pole	3 Phase / 3 Pole	3 Phase / 3 Pole	3 Phase / 3 Pole
Operating Voltage (47-63 Hz)	48-530VAC	48-660VAC	48-530VAC	48-660VAC
Load Current Range	0.04-80A	0.04-80A	.04-100A	.04-100A
Transient Overvoltage [Vpk]	1200	1200	1200	1200
Max. Surge Current, (16.6ms) [Apk]	1200	1200	1750	1750
Max. On-State Voltage Drop [Vpk]	1.7	1.7	1.7	1.7
Max. Turn-On	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle
Max. Turn-Off Time	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle
Max I <sup>2</sup> t for Fusing (8.3mS)	6000	6000	12700	12700
Max Off-State Leakage Current [mA <sub>rms</sub> ]	10	5	10	5
Power Factor (Min.) with Max. Load	0.5	0.5	0.5	0.5

#### INPUT SPECIFICATIONS: (User selectable)

0-10VDC  
0-5VDC  
2-10VDC  
1-5VDC  
4-20mA  
0-20mA  
Potentiometer

#### Note:

24VAC or DC Power Supply

#### REQUIRED

#### OPTIONS:

-M MOV – External transient voltage suppression  
-P Internal transient protection  
-FD Front DIN mount  
-D DIN clip  
-PSXX Power Supplies mount on front (-PS12 for PS-120, -PS24 for PS-240, -PS48 for PS-480)  
-10 Random turn-on  
-WH Wiring harness for multi-pole configurations  
-CT Current Transducer

