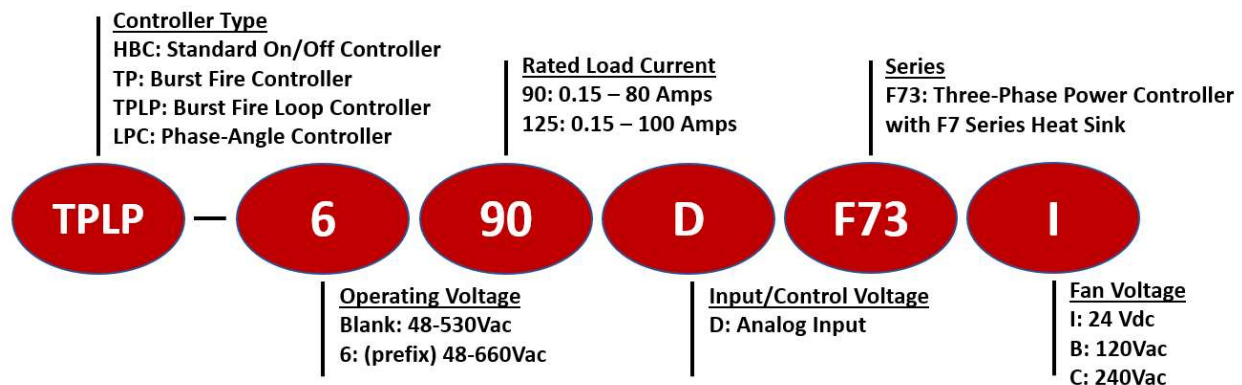


F7 Series TPLP Three-Phase 100 Amp Burst Fire Power Controller



- SCR output panel mount, three-phase proportional output (burst fire) Power Controller
- Output ratings up-to 100 amps per-phase @ 40°C ambient temperature
- Forced-air cooled heat sink to maximize overall product life expectancy
- Includes 90°C thermal cutout switch
- Loop powered – auxiliary power supply not required
- 4-20mA input
- Thermally efficient heat sink to maximize overall product life expectancy
- Direct-bond copper (DBC) substrate for superior thermal performance
- MTBF > 7 million hours (>800 years)
- Agency approvals; UL, CSA, VDE/TUV, and CE

Series Nomenclature



Output Specifications

| Part Number: TPLP - | 90DF73x | 690DF73x | 125DF73x | 6125DF73x |
|-------------------------------------------------------------|-----------|-----------|-------------|-------------|
| Operating Voltage (Vrms; 47-440Hz) | 48-530 | 48-660 | 48-530 | 48-660 |
| Load Current Range (Amps RMS Per--Phase) | .15 - 80 | .15 - 80 | .15 - 100 | .15 - 100 |
| Transient Overvoltage (Vpk) | 1200 | 1200 | 1200 | 1200 |
| Max. Surge Current (Apk; 50/60Hz) | 1145/1200 | 1145/1200 | 1670/1750 | 1670/1750 |
| Max. On-State Voltage Drop (Vrms) | 1.15 | 1.15 | 1.15 | 1.15 |
| Max I ² T for Fusing (A ² S; 50/60Hz) | 6560/5976 | 6560/5976 | 13950/12709 | 13950/12709 |
| Max. Off-State Leakage Current (mArms) | 1 | 1 | 1 | 1 |
| Min. Power Factor with Max. Load | 0.5 | 0.5 | 0.5 | 0.5 |



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Input Specifications *

4-20mA

* Loop powered; 24Vac power supply not required

General Specifications

| Description | Specification |
|--------------------------------------------------|--------------------------------------------------------------------|
| Dielectric Strength (Input/Output/Heat Sink) | 4,000 Vrms |
| Ambient Operating Temperature Range | -40 to +80 °C |
| Weight | 5.4 lbs (2.45 kg) (24Vdc Fan) / 6.1 lbs (2.77 kg) (120/240Vac Fan) |
| Solid State Relay Housing Material | UL94 V-0 Polymers |
| Heat Sink Material | Aluminum |
| Input Terminal Screw Torque Range (in-lb/Nm) | 13-15 / 1.5-1.7 |
| Load Terminal Screw Torque Range (in-lb/Nm) | 18-20 / 2.0-2.2 |
| MTBF (Mean Time Between Failures) @ 40°C ambient | ~11 Million Hours (>1,300 years) |
| MTBF (Mean Time Between Failures) @ 60°C ambient | ~7 Million Hours (>800 years) |

Available Options (Suffix at end of part number)

- M MOV (metal oxide varistor) overvoltage protection
- P Internal TVS overvoltage protection
- FD Front DIN mounting
- D DIN clip
- CT Current transducer

Input Options (Change TPLP- prefix to TP or LPC prefix)

- TP** Burst fire (time proportioning) controller. Analog Input; 0-10Vdc, 0-5Vdc, 2-10Vdc, 1-5Vdc, 4-20mA, potentiometer or 0-135Ω rheostat (TP135 prefix). 24Vac power supply required (optional HBCcontrols PS series if 24Vac supply is not available).
- LPC** Linear phase-angle controller. Analog Input; 0-10Vdc, 0-5Vdc, 2-10Vdc, 1-5Vdc, 4-20mA, potentiometer or 0-135Ω rheostat (LPC135 prefix). 24Vac power supply required (optional HBCcontrols PS series if 24Vac supply is not available).

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