



D50FM Series

50kA Surge Protective Device



DITEK's D50FM Series is designed to provide protection to AC power systems in the most demanding environments. It incorporates individually fused components for maximum performance and protection. Available in a wide range of voltage configurations, the compact D50FM Series is an excellent choice for recessed electrical panel protection.

PRODUCT FEATURES

- 50,000 amps per phase surge current rating ensures long service life
- Flush mount plate and flexible conduit for mounting next to recessed panels
- Diagnostic LED provides positive indication of system power and SPD function
- NEMA 4X polycarbonate enclosure
- Available in 7 voltage configurations
- UL 1449 Listed Type 1 SPD

APPLICATIONS

- Recessed Electrical Panels

ACCESSORIES

- For surface mount option, see D50 Series

| TECHNICAL SPECIFICATIONS | |
|--------------------------------------|---------------------------------------|
| Voltage Configurations: | See chart on page 2 |
| Surge Current Rating: | 50,000A per phase 50,000A per mode |
| Short Circuit Current Rating (SCCR): | 100,000A |
| Operating Frequency: | 50/60Hz |
| Status Indication: | LED |
| Recommended Circuit Breaker: | 20A single or multi-pole |



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| Part Number | Voltage | Service | MCOV | I _n Rating | Voltage Protection Rating (VPR) | | | |
|------------------------|------------|--------------------------------------|------------------------|-----------------------|---------------------------------|---------------|----------------|-------|
| | | | | | L-L | L-N | L-G | N-G |
| D50-120/2083YFM | 120/208Vac | Three Φ Wye (4w + G) | 150V/300V | 20kA | 1200V | 600V | 1000V | 600V |
| D50-120/240HLFM | 120/240Vac | Three Φ Delta High Leg (4w + G) | 150V/300V 320V/470V | 10kA | 1200V | 600V 1200V | 1000V 1500V | 600V |
| D50-2401FM | 240Vac | Single Φ (2w + G) | 320V/640V | 10kA | N/A | 1200V | 1200V | 2000V |
| D50-2403DFM | 240Vac | Three Φ Delta (3w + G) | 320V/630V | 10kA | 2000V | N/A | 1200V | N/A |
| D50-277/4803YFM | 277/480Vac | Three Φ Wye (4w + G) | 320V/640V | 10kA | 2000V | 1200V | 2000V | 1200V |
| D50-347/6003YFM | 347/600Vac | Three Φ Wye (4w + G) | 420V/840V | 10kA | 2500V | 1500V | 2500V | 1500V |
| D50-4803DFM | 480Vac | Three Φ Delta (3w + G) | 550V/1100V | 10kA | 4000V | N/A | 1800V | N/A |

| MECHANICAL SPECIFICATIONS | |
|---------------------------|---|
| Connection Method: | 1/2" NPT non-metallic flexible conduit 30-inch 12 AWG wire leads |
| Housing: | NEMA Type 4X polycarbonate |
| Operating Temperature: | -31°F – 185°F (-35°C – 85°C) |
| Maximum Humidity: | 95% non-condensing |
| Dimensions: | 6.0 in. L x 6.0 in. W x 2.4 in. H (152 mm x 152 mm x 61 mm) |
| Weight: | 1.5 lbs. (0.68kg) |

| SAFETY STANDARDS AND CERTIFICATIONS | |
|-------------------------------------|--|
| Certifications: | UL 1449 5 th Edition Type 1 SPD CSA C22.2 No. 269.1-17, 2017-02 Type 1 SPD |
| Standards Compliance: | RoHS |
| Warranty: | 10 Year Limited Warranty |

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