D50 Series

50kA Surge Protective Device



DITEK's D50 Series is designed to provide protection for 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 D50 Series is an excellent choice for electrical panel protection.

PRODUCT FEATURES

- 50,000 amps per phase surge current rating ensures long service life
- Compact size enables close mounting to the protected panel
- Diagnostic LED provides positive indication of system power and SPD function
- NEMA 4X polycarbonate enclosure
- Available in 8 voltage configurations
- UL 1449 Listed Type 1 SPD

APPLICATIONS

- Electrical Panels
- Disconnect Switches
- Commercial HVAC

ACCESSORIES

- For flush mount option, see D50FM 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
D50-120/2401	120/240Vac	Split Φ (3w + G)	150V/300V	20kA	1200V	600V	1000V	600V
D50-120/2083Y	120/208Vac	Three Φ Wye (4w + G)	150V/300V	20kA	1200V	600V	1000V	600V
D50-120/240HL	120/240Vac	Three Φ Delta High Leg (4w + G)	150V/300V 320V/470V	10kA	1200V	600V 1200V	1000V 1500V	600V
D50-2401 **D50-240HW**	240Vac	Single Φ (2w + G)	320V/640V	10kA	N/A	1200V	1200V	2000V
D50-2403D	240Vac	Three Φ Delta (3w + G)	320V/630V	10kA	2000V	N/A	1200V	N/A
D50-277/4803Y	277/480Vac	Three Φ Wye (4w + G)	320V/640V	10kA	2000V	1200V	2000V	1200V
D50-347/6003Y	347/600Vac	Three Φ Wye (4w + G)	420V/840V	10kA	2500V	1500V	2500V	1500V
D50-4803D	480Vac	Three Φ Delta (3w + G)	550V/1100V	10kA	4000V	N/A	1800V	N/A

MECHANICAL SPECIFICATIONS	
Connection Method:	¾” NPT male hub 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:	3.8 in. L x 3.7 in. W x 2.62 in. H (97 mm x 94 mm x 67 mm)
Weight:	1.5 lbs. (0.68kg)

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

DITEK Surge Protection, Largo, FL 33771 • Sales: 800-753-2345
Diteksurgeprotection.com • SPS-100073-001 Rev 16 05/26

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