



# 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 <sub>n</sub> Rating	Voltage Protection Rating (VPR)			
					L-L	L-N	L-G	N-G
<b>D50-120/2401</b>	120/240Vac	Split $\Phi$ (3w + G)	150V/300V	20kA	1200V	600V	1000V	600V
<b>D50-120/2083Y</b>	120/208Vac	Three $\Phi$ Wye (4w + G)	150V/300V	20kA	1200V	600V	1000V	600V
<b>D50-120/240HL</b>	120/240Vac	Three $\Phi$ Delta High Leg (4w + G)	150V/300V 320V/470V	10kA	1200V	600V 1200V	1000V 1500V	600V
<b>D50-2401</b> <b>D50-240HW</b>	240Vac	Single $\Phi$ (2w + G)	320V/640V	10kA	N/A	1200V	1200V	2000V
<b>D50-2403D</b>	240Vac	Three $\Phi$ Delta (3w + G)	320V/630V	10kA	2000V	N/A	1200V	N/A
<b>D50-277/4803Y</b>	277/480Vac	Three $\Phi$ Wye (4w + G)	320V/640V	10kA	2000V	1200V	2000V	1200V
<b>D50-347/6003Y</b>	347/600Vac	Three $\Phi$ Wye (4w + G)	420V/840V	10kA	2500V	1500V	2500V	1500V
<b>D50-4803D</b>	480Vac	Three $\Phi$ Delta (3w + G)	550V/1100V	10kA	4000V	N/A	1800V	N/A

## MECHANICAL SPECIFICATIONS

Connection Method:	$\frac{3}{4}$ " 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 5 <sup>th</sup> 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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