



D50 Series 50kA Surge Protective Device

DITEK's D50 Industrial Surge Protectors are designed to provide protection to AC power systems in the most demanding environments. The D50 Series incorporates individually fused components for maximum performance and protection. Available in a wide range of voltage configurations, the compact D50 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 to minimize wire length and maximize performance
- Diagnostic LED provides positive indication of system power and SPD function
- UL96A Lightning Protection Compliant (D50-120/2401 and D50-120/2083Y models)
- Available in 8 voltage configurations

Applications

- Branch Panel
- Small Disconnects and Service Panels

Note

- For flush mount models, see D50FM Series data sheet

Technical Specifications

Voltage Configurations:	See Chart on Page 2
Surge Current Rating:	50,000A / Phase 25,000A / Mode
SCCR:	100,000A
Operating Frequency:	50/60Hz

Mechanical Specifications

Connection Method:	$\frac{3}{4}$ " NPT Male 30-inch 12 AWG Leads
Housing:	NEMA 4X Polycarbonate
Operating Temperature:	-31°F – 185°F (-35°C – 85°C)
Maximum Humidity:	95% non-condensing
Dimensions:	4.63" L X 3.80" W x 2.62" H (117.6 mm x 96.5 mm x 67 mm)
Weight:	1.2 lb (0.5 kg)

Quality Standards & Approvals

Certifications:	UL1449 4 th Edition CSA C22.2 No. 269.1-14
SPD Type:	Type 1
Standards Compliance:	ANSI/IEEE C62.41 and C62.45 Category B & C3
Warranty:	10 Year Limited Warranty





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Part Number	Service Voltage	Service Configuration	MCOV	UL In Rating	Voltage Protection Rating (VPR)			
					L-G	L-L	L-N	N-G
D50-120/2401	120/240VAC	Split Φ (3W + G)	150V/300V	20kA	1000V	1200V	600V	600V
D50-120/2083Y	120/208VAC 127/220VAC	Three Φ Wye (4W + G)	150V/300V	20kA	1000V	1200V	600V	600V
D50-120/240HL	120/240VAC	Three Φ High Leg Delta (4W + G)	150V/300V 320V/470V	10kA	1000V HL-G 1500V	1200V HL-L 1200V	600V HL-N 1200V	600V
D50-2401 D50-240HW	240VAC	Single Φ (2W + G)	320V	10kA	1200V	N/A	1200V	2000V
D50-277/4803Y	277/480VAC 220/380VAC 230/400VAC 240/415VAC	Three Φ Wye (4W + G)	320V/640V	10kA	2000V	2000V	1200V	1200V
D50-347/6003Y	347/600VAC	Three Φ Wye (4W + G)	420V/840V	10kA	2500V	2500V	1500V	1500V
D50-2403D	240VAC	Three Φ Delta (3W + G)	320V/630V	10kA	1200V	2000V	N/A	N/A
D50-4803D	480VAC	Three Φ Delta (3W + G)	550V/1100V	10kA	1800V	4000V	N/A	N/A