

TITAN DR 45kA

Class II 45,000 Amp Surge Protection



The Titan DR provides high-quality surge protection for DIN Rail mounting inside electrical cabinets. The Titan DR can be mounted on 43880 DIN Rail prior to the incoming power source to isolate the cabinet from the outside environment. This product is ideal for manufacturers and integrators requiring designed-in power protection.

Applications

EFI's new Titan DR Surge Protection Devices (SPD) provide protection for single and multi-pole TNC and IT respectively TNS and TT energy supplier networks. The Titan DR is ideal for homes, commercial and industrial buildings as well as manufacturers and integrators of industrial, medical and commercial instrumentation equipment.

Superior Performance

The Titan DR utilizes a suppression circuit that provides up to 45,000 amps of surge protection from voltage surges generated by lightning, power supplier network switching, motors, frequency converters, etc.

Safety

The Titan DR provides safe and reliable operation by incorporating EFI's latest safety developments including EFI's trademarked Lightning Temp® fusing technology. Each MOV is individually fused for maximum safety. The Titan DR has been tested in accordance with CE and IEC 61643-1.

Easy Installation

The Titan DR mounts quickly and easily to 35mm mounting rails (DIN# 43880). 50mm² screw connectors provide easy parallel connection to the power system. The small footprint of the Titan DR provides greater installation flexibility, even where space is limited.

The plug-in module of the single pole device allows replacement of a damaged SPD while still connected to the mounting rail and power.

FEATURES	ADVANTAGES	BENEFITS
IMAX	Higher IMAX for class II	Higher protection levels
Dry Contacts	Dry contact circuit integrated at the PCB	Remote diagnostic
Green Status LED	Provides continuous status indication	Prevents unknown loss of protection
Lightning Temp® Fuse	Offers protection from extreme surge currents	Provides reliable operation and prevents dangerous thermal run-away when MOVs are damaged
Plug-in Modules	User replaceable module	Allows replacement without interrupting power

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Product Specification

Models Available: DR1P45K230S (DC) DR1P45K400S (DC)
DR2P45K230S DR4P45K400S (DC)

Performance

Technology: MOV
Max Surge Current: 45kA
Response Time: # 5ns

Mechanical Description

Terminal Size: 50mm²
Mounting Method: Parallel (for use on DIN 43880 rail)
Thermal Fusing: Yes, Lightning Temp® Fuse
Operating Frequency: 50/60 Hz
Max Operating Current
Parallel Unlimited
Series (preferred) Up to 40 A
Circuit Type: Parallel
Operating Temperature: -30° to +75° C
Terminal Capacity: Min 1x2,5mm²
Max 1x50mm²
Plug-in Module: 1 Pole Devices Only

Diagnostics

1 Pole: Status Window, Optional Dry Contacts
2 Pole: Green Status LED
4 Pole: Green Status LED, Optional Dry Contacts

Standards CE, IEC 61643-1, NF C61-740

TITAN DR 45kA CLASS II SURGE PROTECTION								
MODEL	I _{max}	I _{nom}	U _p (L-PE)	U _n	UC MCOV	No. of Poles	Protection Modes	Aux Contact
DR1P45K230S (DC)	45kA	10kA	1000V	230V	270V	1	Single mode L-PE or N-PE	Optional (DC)
DR1P45K400S (DC)	45kA	10kA	2100V	400V	480V	1		Optional (DC)
DR2P45K230S	45kA	10kA	1000V	230V	270V	2	Three Mode L-PE, L-N, N-PE	N/A
DR4P45K400S (DC)	45kA	10kA	1000V	230V (L-N) 400V (L-L)	270V 480V	4	Seven Mode L-PE, L-N, N-PE	Optional (DC)

