



TITAN™ DR

DIN Rail Mounted Surge Protection

EFI's Titan DR SPD systems provide high-quality surge protection for electrical and automation cabinets. The Titan DR can be mounted on standard 35 mm rail prior to the incoming power source to isolate the cabinet from the outside environment. This product is ideal for manufacturers and electrical installers requiring designed-in power protection.



APPLICATIONS

EFI's new Titan DR Surge Protection Devices (SPD) provide protection for single and multi-pole applications. The DR is ideal for manufacturers and integrators of industrial, medical and commercial instrumentation equipment.

SUPERIOR PERFORMANCE

The Titan DR provides protection up to 80kA 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 thermal fusing. Each MOV is individually fused for maximum safety. The Titan DR has been tested in accordance with UL 1449-2, CE and IEC 61643-1.

EASY INSTALLATION

The Titan DR mounts quickly and easily to mounting rails (35mm). 25mm² connectors provide easy parallel connection providing 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.

PLUG-IN

Single pole devices feature plug-in module design. User-replaceable module allows easy replacement of damaged SPD modules without any electrical wiring. Plug-in module also provides high flexibility when testing the isolation resistance of electrical cabinets.

FEATURES	ADVANTAGES	BENEFITS
IMAX Status Indicator Thermal Fusing	Higher IMAX for class II Provides continuous status indication Offers protection from extreme surge currents	Higher protection levels Prevents unknown loss of protection Provides reliable operation and prevents dangerous thermal run-away when MOVs are damaged
Plug-in Modules (1-Pole)	User replaceable module	Allows replacement without interrupting power

Titan DR Product Specifications

PERFORMANCE

Technology	MOV
Response Time	≤ 5ns

MECHANICAL DESCRIPTION

Terminal Size	25mm ²
Mounting Method	Parallel (for use on 35 mm rail)
Thermal Fusing	Yes, LightningTemp® Fuse
Operating Frequency	50/60 Hz
Max Operating Current	Unlimited
Circuit Type	Parallel
Operating Temperature	-30° to +70° C
Terminal Capacity	Min 1x3mm ² , Max 1x25mm ²
Plug-In Module	1 Pole Devices Only

DIAGNOSTICS

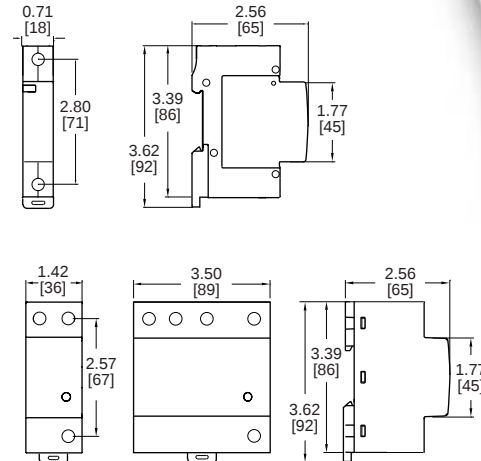
1 Pole	Status Window, Optional Dry Contacts
2 Pole	Green Status LED
4 Pole	Green Status LED, Optional Dry Contacts

SAFETY APPROVALS

 1449 2nd Edition, CE, IEC 61643-1

WARRANTY

Product	10 years
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Dimensions: in.
[mm]

Model No.	Service Voltage	Poles	Maximum Surge Current /Phase	UL		MCOV*	IEC		Protection Modes
				Suppressed Voltage Rating			Nominal Discharge Current	Voltage Protection Level	
				L-N	N-G				
	Un	IMax	N-PE	Uc	In	Up (L-N)			
DR1P20K120S	120 V	1	20 kA	500 V	–	150 V	5 kA	600 V	L-N
DR1P20K230S	230 V	1	20 kA	700 V	–	270 V	5 kA	960 V	L-N
DR1P20K400S	400 V	1	20 kA	1500 V	–	480 V	5 kA	1580 V	L-N
DR1P45K120S(DC)	120 V	1	45 kA	500 V	–	150 V	10 kA	750 V	L-N
DR1P45K230S(DC)	230 V	1	45 kA	700 V	–	270 V	10 kA	1000 V	L-N
DR1P45K400S(DC)	400 V	1	45 kA	1500 V	–	480 V	10 kA	1450 V	L-N
DR1P65K120S(DC)	120 V	1	65 kA	400 V	–	150 V	20 kA	920 V	L-N
DR1P65K230S(DC)	230 V	1	65 kA	700 V	–	270 V	20 kA	1200 V	L-N
DR1P65K400S(DC)	400 V	1	65 kA	1200 V	–	480 V	20 kA	1950 V	L-N
DR2P20K120S	120 V	2	20 kA	400 V	500 V	150 V	5 kA	575 V	L-N, N-G (N-PE)
DR2P20K230S	230 V	2	20 kA	700 V	500 V	270 V	5 kA	900 V	L-N, N-G (N-PE)
DR2P45K120S	120 V	2	45 kA	400 V	500 V	150 V	10 kA	775 V	L-N, N-G (N-PE)
DR2P45K230S	230 V	2	45 kA	700 V	500 V	270 V	10 kA	1080 V	L-N, N-G (N-PE)
DR4P20K120S(DC)	208Y/120 V	4	20 kA	400 V	500 V	300/150 V	5 kA	560 V	L-N, N-G (N-PE)
DR4P20K400S(DC)	400Y/230 V	4	20 kA	700 V	500 V	540/270 V	5 kA	900 V	L-N, N-G (N-PE)
DR4P45K120S(DC)	208Y/120 V	4	45 kA	400 V	500 V	300/150 V	10 kA	760 V	L-N, N-G (N-PE)
DR4P45K400S(DC)	400Y/230 V	4	45 kA	700 V	500 V	540/270 V	10 kA	1080 V	L-N, N-G (N-PE)
DR4P80K120S(DC)	208Y/120 V	4	80 kA	400 V	500 V	300/150 V	20 kA	1040 V	L-N, N-G (N-PE)
DR4P80K400S(DC)	400Y/230 V	4	80 kA	700 V	500 V	540/270 V	20 kA	1420 V	L-N, N-G (N-PE)

*MCOV = Maximum Continuous Operating Voltage
(DC) = Dry Contact Option



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