



TITAN[®] 160P

160,000 Amp Panel Protection

EFI Electronics Titan 160P delivers specification grade performance and features at an affordable price. This multi-phase protection system provides protection for all critical modes in a durable and safe package. The compact design of the Titan 160P allows protection to be installed adjacent to power panels in a compact yet durable design.



APPLICATIONS

The Titan 160P is a versatile and compact surge protection device designed to provide high quality protection for a wide variety of commercial, industrial or institutional applications. The Titan 160P is excellent as a component in a suppression network or as a standalone protector.

SUPERIOR PERFORMANCE

The Titan 160P utilizes a high energy suppression circuit which provides 160,000 peak amps of surge current rating per phase along with EFI Electronics sine wave tracking circuitry to provide up to -30 dB of noise attenuation. The bus bar construction and bolt down modules reduce the impedance in the system to allow the Titan 160P to deliver maximum protection. And with the addition of fault current fusing, the Titan 160P is able to survive abuse that will destroy a lower class suppression device.

SAFETY

The EFI Electronics Titan 160P is engineered to be the industries safest surge protection device with unique fusing technology designed for these high energy surge products.

EASY INSTALLATION

The EFI Electronics Titan 160P mounts adjacent to the panel through a conduit connection. The Titan 160P can be mounted adjacent to the circuit breaker to be used in order to reduce lead lengths and improve protection.

| FEATURES | ADVANTAGES | BENEFITS |
|------------------------------|--|---|
| Modular Design | Allows quick and easy replacement of damaged surge modules | Prevents operating without protection and eliminates costly labor expenses |
| 160,000 Peak Amp Capacity | Provides protection against high energy nearby lightning strikes | Keeps valuable electronics safe even in the worst electrical conditions |
| Sine Wave Tracker™ Circuitry | Suppresses transients closer to the sine wave | Improves protection to the equipment |
| Durable Bus Bar Construction | Improves electrical connections and reduces system impedance | Improves suppressor efficiency resulting in tighter clamping voltages and improved protection |
| LED Status Indication | Provides visual indication of suppressor status | Allows immediate response if suppressor is damaged |
| Suppression Status Alarm | Immediate alarm if suppression is damaged | Prevents operating without protection |
| LightningTemp® Fuse | Thermal fuse capable of extreme surge currents | Provides reliable operation and prevents dangerous thermal runaway when MOV's are damaged |

Titan 160P Product Specifications

MODELS AVAILABLE

T160P120/240Y, T160P120/208Y, T160P240D,
T160P240/120D, T160P220/380Y, T160P277/480Y,
T160P480D, T160P347/600Y,

PERFORMANCE

Max Surge Current 160 kA/phase, L-N 80 kA, L-G 80 kA, N-G 80 kA
Short Circuit Current Rating 200 kA, 600 V Maximum
EMI/RFI Noise Rejection Up to -30 dB
Sine Wave Tracking Yes
Fault Current Fusing 200 kAIC

MECHANICAL DESCRIPTION

Dimensions See image
Housing Ratings NEMA 12
Product Weight 17 lb
Connection Method #2 AWG Terminals
Mounting Method Parallel
Thermal Fusing Yes, LightningTemp® Fuse
Operating Frequency 50/60/400 Hz
Circuit Type Parallel Hybrid
Storage Temperature -40° to +160° F (-40° to +70° C)
Operating Temperature -40° to +140° F (-40° to +60° C)
Operating Altitude Sea Level to 12,000 feet (3,658 Meters)

DIAGNOSTICS

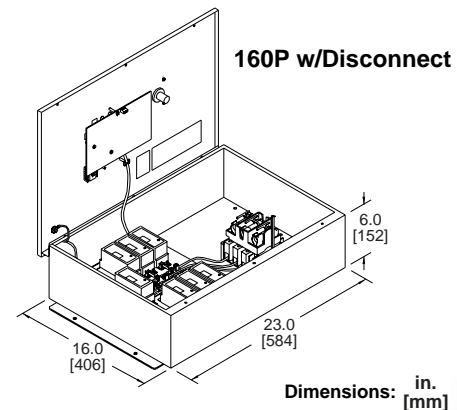
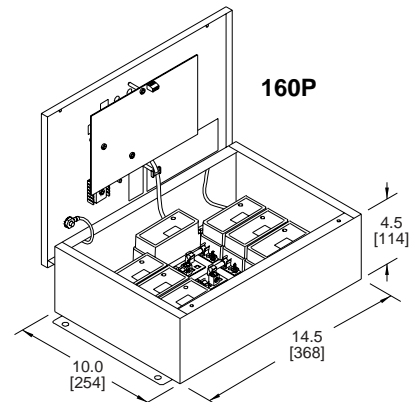
Standard Push to Test Diagnostic Switches, Red and Green
Status LED's, Dry Contacts, Audible Alarm
Optional Surge Counter, Fused Safety Disconnect Switch,
Flush Mount

SAFETY APPROVALS

 1449 2nd Edition

WARRANTY

Product 10 years



Dimensions: in. [mm]

TITAN 160P SYSTEM DESCRIPTION

| Model | Configuration | MCOV | UL 1449 2-nd Ed | | | | ANSI C 62.41 Clamping Voltage | | |
|----------------|---------------------------|---------|-----------------|---------|-----|----------|-------------------------------|---------|---------|
| | | | L-N | L-G | N-G | L-L | Cat A | Cat B3 | Cat C1 |
| T160P 120/240Y | 1 Phase Wye, 3-wire + G | 150 | 400 | 400 | 400 | 700 | 364 | 480 | 560 |
| T160P 120/208Y | 3 Phase Wye, 4-wire + G | 150 | 400 | 400 | 400 | 700 | 364 | 480 | 560 |
| T160P 240D | 3 Phase Delta, 3-wire + G | 300 | N/A | N/A | N/A | 700 | 560 | 692 | 864 |
| T160P 240/120D | 3 Phase Delta, 4-wire + G | 250/150 | 600/400 | 600/400 | 400 | 1200/700 | 364/588 | 480/792 | 560/986 |
| T160P 220/380Y | 3 Phase Wye, 4-wire + G | 320 | 800 | 800 | 800 | 1500 | 600 | 772 | 960 |
| T160P 277/480Y | 3 Phase Wye, 4-wire + G | 320 | 800 | 800 | 800 | 1500 | 600 | 772 | 960 |
| T160P 480D | 3 Phase Delta, 3-wire + G | 640 | N/A | N/A | N/A | 1500 | 1048 | 1184 | 1740 |
| T160P 347/600Y | 3 Phase Wye, 4-wire +G | 780 | 900 | 900 | 900 | 1800 | 624 | 856 | 1152 |



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