



TITAN[®] 120BP(F)

120,000 Amp Branch Panel Protection

Titan 120BP(F) suppression panels provide maximum surge protection for large loads and branch panels. With the Titan 120BP(F), design engineers can specify individual options and features for each project, such as system voltage, housing type, integral fused disconnect, etc.



APPLICATIONS

The Titan 120BP(F) is designed for installation on service entrance and branch panels, as well as sensitive electronic equipment in industrial, medical and commercial applications. The Titan 120BP(F) provides a 120,000 Amp peak surge current rating. In addition, the Titan 120BP(F) can be installed in series for sensitive loads up to 100 amps. Titan 120BP(F) surge suppressors provide excellent protection for branch panels and sensitive equipment in a cascaded filter suppression system.

SUPERIOR PERFORMANCE

The Titan 120BP(F) utilizes a hybrid Sine Wave Tracker[™] suppression circuit in a replaceable single- or three-phase module. It provides both transient protection and up to -50 dB of noise filtration.

SAFETY

The Titan 120BP(F) provides safe and reliable operation by incorporating EFI's latest safety developments. Each MOV is individually fused and the product is contained in a NEMA 1 metallic housing for maximum safety. The Titan 120BP(F) has been tested and is UL and cUL listed.

EASY INSTALLATION

The Titan 120BP(F) easily mounts adjacent to any panel board. Its compact design allows the Titan 120BP(F) to be mounted near the circuit breaker in order to reduce connecting leads and improve performance. Operating status lights are conveniently observed through the front cover and an audible alarm and form C dry contacts alert the user in the case of suppressor damage.

FEATURES

LED Status Indicators
Audible Alarm and NO/NC Dry Contacts Status Indicator
120,000 Peak Amp Surge Current Capacity
Sine Wave Tracker Circuitry

ADVANTAGES

Allows unit to be tested without disabling protection during test conditions
Provides additional indication of the suppression status
Protects against nearby high energy lightning strikes
Provides a tight clamping window above and below the AC sine wave

BENEFITS

Enables building maintenance personnel to regularly inspect suppressor
Allows the building engineer to remotely monitor Surge Protection Device status
Delivers protection even in the worst electrical conditions
Ensures superior transient protection

Titan 120BP(F) Product Specifications

MODELS AVAILABLE

T120BPF120/240Y, T120BPF120/208Y, T120BPF240D, T120BPF240/120D,
T120BPF220/380Y, T120BPF277/480Y, T120BPF480D, T120BPF347/600Y, T120BPF600D,
T120BP120/240Y, T120BP120/208Y, T120BP240D, T120BP220/380Y, T120BP240/120D,
T120BP277/480Y, T120BP480D, T120BP347/600Y, T120BP600D

PERFORMANCE

Maximum Surge Current	120 kA/Phase, 60 kA L-N, 60 kA L-G, 60 kA N-G
Short Circuit Current Rating	200 kA or 10 kA, 600 V Maximum
Sine Wave Tracking Circuit	Wye connected models
EMI/RFI Noise Rejection	-50 dB Wye models/-20 dB Delta models
Response Time	< 1 ns


MECHANICAL DESCRIPTION

Dimensions	See image
Housing Ratings	NEMA 1 (optional NEMA 3R/12)
Product Weight	8.75 lbs
Connection Method	#2 AWG Terminals (# 4 AWG w/Disconnect)
Mounting Method	Parallel
Internal Fusing	Yes
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	Green Status LED's per Phase, Audible Alarm with Enable/Disable Switch
Optional	NEMA 3R/12 Enclosure (including Push to Test Diagnostics, Red & Green Status LED's per Phase and Dry Contacts) Surge Counter, Fused Safety Disconnect Switch

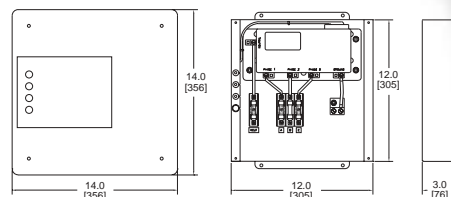
SAFETY APPROVALS

 1449 2nd Edition

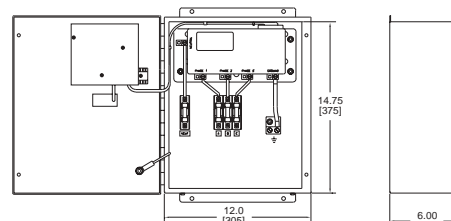
WARRANTY

Product	10 years
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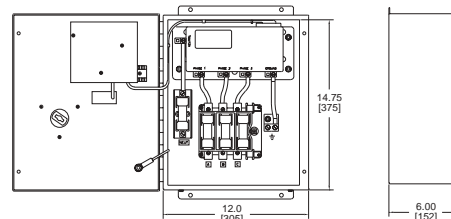
NEMA 1



NEMA 3R



NEMA 3R-D



Dimensions: in.
[mm]

T120BPF (200 kA SCCR) SYSTEM DESCRIPTION

Model	Configuration	SCCR*	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
T120BPF120/240Y	1 Phase Wye, 3-wire + G	200 kA	150	330	400	330	600	300	350	380
T120BPF120/208Y	3 Phase Wye, 4-wire + G	200 kA	150	330	400	330	600	300	350	380
T120BPF240D	3 Phase Delta, 3-wire + G	200 kA	260	N/A	N/A	N/A	700	475	570	685
T120BPF240/120D	3 Phase Delta, 4-wire + G	200 kA	250/130	600/400	600/500	400	700	450/300	590/350	715/380
T120BPF220/380Y	3 Phase Wye, 4-wire + G	200 kA	320	800	800	800	1500	540	670	780
T120BPF277/480Y	3 Phase Wye, 4-wire + G	200 kA	320	800	800	700	1500	540	670	780
T120BPF480D	3 Phase Delta, 3-wire + G	200 kA	640	N/A	N/A	N/A	1500	940	1365	1736
T120BPF347/600Y	3 Phase Wye, 4-wire +G	200 kA	390	900	1000	800	1800	640	900	1088
T120BPF600D	3 Phase Delta, 3-wire +G	200 kA	780	N/A	N/A	N/A	1800	1125	1650	2096

T120BP (10 kA SCCR) SYSTEM DESCRIPTION

Model	Configuration	SCCR*	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
T120BP120/240Y	1 Phase Wye, 3-wire + G	10 kA	150	330	400	330	600	300	350	380
T120BP120/208Y	3 Phase Wye, 4-wire + G	10 kA	150	330	400	330	600	300	350	380
T120BP240D	3 Phase Delta, 3-wire + G	10 kA	260	N/A	N/A	N/A	700	475	570	685
T120BP240/120D	3 Phase Delta, 4-wire + G	10 kA	250/130	600/400	600/500	400	700	450/300	590/350	715/380
T120BP220/380Y	3 Phase Wye, 4-wire + G	10 kA	320	800	800	800	1500	540	670	780
T120BP277/480Y	3 Phase Wye, 4-wire + G	10 kA	320	800	800	700	1500	540	670	780
T120BP480D	3 Phase Delta, 3-wire + G	10 kA	640	N/A	N/A	N/A	1500	940	1365	1736
T120BP347/600Y	3 Phase Wye, 4-wire +G	10 kA	390	900	1000	800	1800	640	900	1088
T120BP600D	3 Phase Delta, 3-wire +G	10 kA	780	N/A	N/A	N/A	1800	1125	1650	2096

* Short Circuit Current Rating



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