TITAN® MBP

90,000 Amp Branch Panel Protection

The MBP panel is a high-performance surge suppression device designed to protect branch panels as well as critical loads used in industrial, commercial, and medical environments.

APPLICATIONS

Initially designed and manufactured for installation on main branch panels, the MBP has also been used on commercial and light industrial main service panels. The MBP suppressor provides state-of-the-art protection for multi-phase applications. The MBP's 90,000 Amp surge current capacity protects equipment from L-N and N-G (optional) surge currents and transient voltages. The MBP represents an excellent complement to an EFI Electronics cascaded suppression filter system.

SUPERIOR PERFORMANCE

The MBP utilizes a hybrid Sine Wave Tracker™ suppression circuit in individual replaceable modules. The MBP not only provides transient protection but also up to -40 dB noise filtration.

SAFETY

The MBP 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 12 metallic housing for maximum safety. The MBP has been tested and is UL and cUL listed.

EASY INSTALLATION

The MBP easily mounts adjacent to any panel board. Its compact design allows the MBP 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.

FEATURES	ADVANTAGES	BENEFITS
LED Suppression Status Indicator Per Phase	Provides visual indication of the suppressor's status	Allows immediate response if suppressor is damaged
90,000 Peak Amp Capacity	Protects against nearby high-energy lightning strikes	Protects sensitive electronic equipment at all times, even during lightning storms
Sine Wave Tracker Circuitry	Provides a tight clamping window above and below the AC sine wave	Ensures superior protection from transient voltages
Modular Design	Enables user to replace without turning power off	Allows service and maintenance without interrupting operation

MBP
Product Specifications

MODELS AVAILABLE

MBP120/240Y, MBP120/208Y, MBP220Y, MBP220/380Y, MBP240D, MBP240/120D, MBP277/480Y, MBP480D

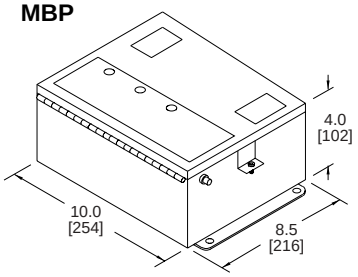
PERFORMANCE

Maximum Surge Current	90 kA/Phase
Short Circuit Current Rating	5 kA, 480 V Maximum
Sine Wave Tracking Circuit	On Models MBP120/240Y, MBP120/208Y, MBP240/120D, MBP277/480Y
EMI/RFI Noise Rejection	-40 dB Wye models/-20 dB Delta models
Response Time	<1 ns
Frequency	50/60 400 Hz

MECHANICAL DESCRIPTION

Dimensions	8.5” x 10” x 4”
Enclosure	Nema 12
Operating Temperature	-40˚ to 140˚ F (-10˚ to 60˚ C)
Storage Temperature	-40˚ to 160˚ F (-40˚ to 85˚ C)
Altitude	Sea level to 12,000 feet (3,658 meters)
Weight	11 lbs (5kg)
Connecting Wire Size	Max #2 (33.6 sq mm)

MBP



Dimensions: in. [mm]

DIAGNOSTICS

Green Status LED - Suppression Status Per Phase

SAFETY APPROVALS

c UL us 1449 2nd Edition, CE

WARRANTY

Product	10 years

MBP 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
MBP 120/240Y	1 Phase Wye, 3-wire + G	150	400	800	400	800	300	680	445
MBP 120/208Y	3 Phase Wye, 4-wire + G	150	400	800	400	800	300	380	445
MBP 220Y	1 Phase Wye, 3-wire + G	250	800	1800	800	1500	585	610	695
MBP 220/380Y	3 Phase Wye, 4-wire + G	250	800	1800	800	1500	585	610	695
MBP 240D	3 Phase Delta	250	N/A	1500	N/A	1500	585	610	695
MBP 240/120D	3 Phase Delta	250/150	700/400	1500/800	400	700/800	585/300	610/380	695/445
MBP 277/480Y	3 Phase Wye, 4-wire + G	320	800	1800	800	1800	550	784	960
MBP 480D	3 Phase Delta	550	N/A	3000	N/A	3000	1380	1450	1650

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