



mp3 - Motor Protection Module

Overview:

M-Tronix is your source for highly innovative electronic control, protection, and monitoring systems for mining and general industry. m-Tronix is your exclusive distributor of the Bramco product range.

Application:

Leaders in Innovative Protection Systems, the mp3 is compliant to latest statutory and industry standards. The M-Tronix Composite Motor Protection Module **mp3** has been designed to cover critical protection features in one industrial module.

Features:

- The mp3 is configurable for multiple applications including those requiring segregation of low voltage programmable equipment from medium and high voltage componentry in distribution and starter panels.
- The mp3 can function independently or in networked operations.
- The mp3 provides key motor protection features with easy set up for (amongst others) overload protection, earth leakage protection, pilot protection, earth leakage lockout, fan control, pump control, thermistor control and phase balancing.
- With the addition of its megger facility, provides insulation test, enhanced monitoring and pre-emptive/preventative testing of 1100v and 3300v systems. Megger also provides frozen contactor/LOV plus Earth Leakage Lockout protection for restrained outlets.
- Most functions are menu selectable with monitoring events and test results recorded.
- The fan protection operates with programmable "burping" operation, allowing the fan to commence via a burp start whose number and duty cycle is programmable.
- Operating information and set up via display and/or PLC.
- 120 Event Log.
- 3 x input CT's monitored and available.
- Latest Generation Microprocessor Control.
- RS 232 or optional RS485 Communication Port.
- Latest comms via Ethernet Interfacing.
- Remote or internal power supply.

Ordering Information:

A01242 mp3 - 500mA
Please contact M-Tronix to discuss your requirements. The mp3 comes with a minimum 2-year warranty.

Specifications:

Supply:	110V AC(50-60Hz) (40-50hz)
Earth Leakage:	<ul style="list-style-type: none"> • 50 to 500mA adjustable • 50 to 500mSec adjustable
Overload:	1.0-995 Amps.
Overload Curves:	<ul style="list-style-type: none"> • Curves matched to IEC255-C. • Curves 10-250s referenced at two times the full load current.
Motor Start/Short Circuit:	<ul style="list-style-type: none"> • 4-5000Amps. • Operating times as fast as 10ms.
Thermistor:	<ul style="list-style-type: none"> • 500-2500 Ohms when enabled. • Thermistor short circuit detection (<400ohms).
Display:	<ul style="list-style-type: none"> • Local and/or Remote Display and buttons.
Enclosure:	
Dimensions:	<ul style="list-style-type: none"> • Remote LCD Screen - IP65 with flange gasket. • Dims: 96mm x 96mm x 100mm deep 70mm behind panel • Cut out 92mm x 92mm for fascia mount
Material:	Powder coated steel construction
Approvals/Conformances:	
AUS Ex 3310X	MDA EXib 1842 MDA EXib R11242 QMD 87 6586XU
Compliances:	AS 2081;2081 12340 1988



Specifications:

Line Voltages:	1000v, 3300v.
Control Voltage:	110/240vAC 2VA, 24vAC/DC.
FC/VOL Trip Voltage:	Above 24vAC
ELL Sense:	1 Meg ohm nominal@1000v DC.
ELL Tolerance:	-50 +100%
ELL, FC, Relay Contacts:	1C, 0.2A 120vAC.
Under Voltage:	20% of phase voltage.
Test Function:	Failsafe with integral testing.
AR Timer on Open:	30 secs for FC inhibit.
Relay Contacts:	5A 250vAC
Serial Ports:	<ul style="list-style-type: none">• RS485, 9600 baud Modbus ASCII or equivalent.• RS232 to PLC, 9600 baud Modbus ASCII or equivalent.

M-TRONIX Contacts

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Compliance:

AS/NZS 2081:2011
The CPM1 Plus comes with
a 2-year warranty.