

## mp3 Motor Protection Module

### Overview

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

- 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 megga facility, provides insulation test, enhanced monitoring and pre-emptive/preventative testing of 1100v and 3300v systems. Mega 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.

### Specifications

#### Supply Voltage:

- 110/240v 50/60Hz or 40/50Hz.

#### Earth Leakage:

- Trip range 50 to 500mA in 10mA steps.
- Time range 50 to 500ms in 10ms steps.

#### Overload:

- 1.0-995 Amps.

#### Overload Curves:

- Curves matched to IEC255-C.
- Curves 10-250s referenced at two times the full load current.

#### Motor Start/Short Circuit:

- 4-5000Amps.
- Operating times as fast as 10ms.

#### Thermistor:

- 500-2500 Ohms when enabled.
- Thermistor short circuit detection (<40 Ohms).

#### Display:

- Local and/or Remote Display and buttons.



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### Specifications cont.:

**Relay Contacts:**

- 5A 250vAC

**Material:**

- Powder coated or stainless steel construction.

**Remote Screen Size:**

- 96x96x100mm deep.
- 70mm behind panel.
- Cut out 92x92 for fascia mount.

**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.

**Serial Ports:**

- RS485, 9600 baud Modbus ASCII or equivalent.
- RS232 to PLC, 9600 baud Modbus ASCII or equivalent.

### Ordering Information

A01242 mp3 - 500mA

Please contact Bramco to discuss your requirements.

The mp3 comes with a minimum 2 year warranty.

### Bramco Contacts

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mp3 - Remote Screen