

Phasefale MP15DE, MP15/E Automatic Motor Protector [Economy model]

Installation and Commissioning



Red: Motor not running

When power is initially applied to active (pin 7), the MP15/e has a fixed start delay of 1 second. Where more than one motor is supplied from a single supply, the MP15 is recommended which allows a staggered start at regular intervals.

The MP15/e protects against these common causes of motor failure:

- Voltage imbalances of more than 25% between phases.
- Blown fuses causing single phasing.
- Chattering or poor making motor starting contacts.
- Faulty 415V isolating switchgear
- Loose or poor connections simulating a phase loss.
- Overloading. Motor starters which automatically reset can cause windings failure. The MP15/e's 15 minute delay prevents this.

The MP15/e is a solid state three phase motor protector with fixed start delay and anti short cycle timer and fault memory. The MP15/e is manufactured under the same strict quality control and testing procedures as the fully featured MP15, which along with its advanced electronics means superior precision and reliability.

The MP15/e indicates the condition of the motor control circuit as follows;

Green: Motor Running

- Under voltage. If the voltage drops to approximately 180 volts to neutral on any phase, the MP15/e automatically trips and actuates a 15 minute delay.

The MP15/e plugs into a standard octal base. The eight connections are:

- Pin 1:** Line 1 of the motor supply. For maximum protection the connection should be made on the load side of the motor starter close to the motor.
- Pin 2:** Line 2, as for line 1.
- Pin 3:** Line 3, as for line 1.
- Pin 4:** Neutral.
- Pin 5:** Not used.
- Pin 6:** Control Out. this is a 240 VAC signal which is switched by the internal control relay. The Control Out signal can be connected to further control devices and on to the motor starter.
- Pin 7:** Active. The Start Delay starts timing when power is applied to this pin. This active is switched through to pin 6 (Control Out) via the internal control relay.
- Pin 8:** Not used

NOTE: Pins 1, 2, 3, 5 and 8 are protected against induced voltage such as that induced as the motor field collapses.

The MP15 is a versatile control with many uses. Notes are available on specific applications of the MP15 - please ask. Other Models Available:
MP15 - model with Octal Base
MP15D - model Din Rail mount
MP15P1 - Single Phase Octal Base
MP15D1 - Single Phase Model Din Rail mount.

