

# MP15 Automatic Three Phase Motor Protector

## Protection for all kinds and sizes of three phase motors

The MP15 is a solid state three phase motor protector with adjustable start delay, anti short cycle timer and fault memory. It is suitable for all sizes and types of 3 phase motors. The MP15 is manufactured under strict quality control and testing procedures to ISO9001 which along with its advanced electronics means superior precision and reliability.

The MP15 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's automatic 15 minute restart delay allows the motor to cool and prevent winding overloads and damage.



MP15



MP15D

- Power failure or circuit breaker tripping caused by multiple motors starting simultaneously. The MP15 Start Delay prevents this.
- Under voltage. If the voltage drops to approximately 180 volts to neutral on any phase, the MP15 automatically trips and actuates a 15 minute off time delay.

The MP15 also includes a separate fault memory input to indicate prior faults. In operation, the LED indicator readily show the operating condition;



**Green:** motor is running

**Green/Amber:** motor running but prior fault

**Red:** Motor not running, either start delay or three phase supply problem.

**Red/Amber:** Motor not running, fault memory

PHASEFALE

CONTROL

MONITOR

PROTECT

Quality System



Quality Endorsed Company

ISO9001 QEC12298 Standards Australia

[www.phasefale.com.au](http://www.phasefale.com.au) [sales2@phasefale.com.au](mailto:sales2@phasefale.com.au) +613 9553 0800

# So, if it's protection you need, call the MP15 family.....

The adjustable start delay of the MP15 is ideal for stage starting of multiple three phase motors on a common supply and saves additional timers and wiring.

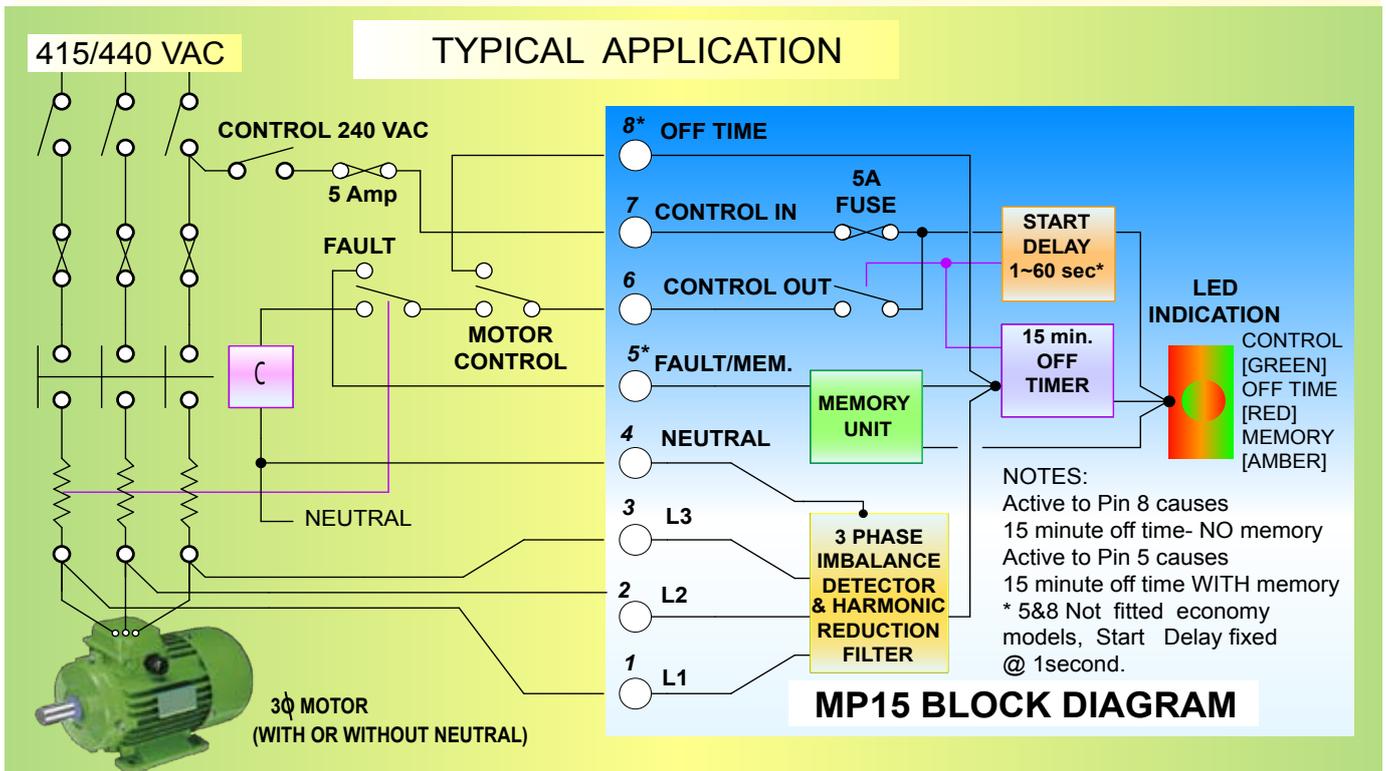
The MP15 has been delivering reliable service since 1970 and the range has now expanded to include both the traditional 8 pin mounting base allowing quick plug in change-over, to the compact DIN rail mounting version with a standard circuit breaker profile. Both these versions feature proven designs able to withstand the high voltages, harmonics and induction often seen in three phase systems.

The economy versions of the MP15 range include the same robust electronics, but offer cost savings with the omission of adjustable start delay and fault and memory inputs which may not be required. The single phase MP15 versions are ideal to protect single phase motors from interruptions to the supply phase.



The economy model MP15's offer the same high protection as the standard models at a reduced price.

The DIN mount 8 pin base is used with the standard MP15 range and allows plug in flexibility



**MP15 Model Selection Table**

Model	Mounting	Description
MP15	Octal Base	MP15 with Fault memory and adjustable start delay
MP15D	DIN Rail	DIN mount MP15 with Fault memory and adjustable start delay
MP15/E	Octal Base	Economy MP15 with fixed start delay
MP15DE	DIN Rail	Economy DIN mount MP15 with fixed start delay
MP15/P1	Octal Base	Single Phase MP15 with adjustable start delay & fault memory
MP15D1	DIN Rail	Single Phase DIN mount MP15 with adj.start delay & fault mem.