

# MP15D1, MP15P1 Automatic Single Phase Motor Protector

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

The MP15 ( Model Designators MP15P1 and MP15D1) are solid state single phase motor protectors with adjustable start delay, anti short cycle timer and fault memory. It is suitable for all sizes and types of 1 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:

- Supply voltage dip of more than 25% ( now adjustable)
- Intermittent Motor supply from chattering or poor making motor starting contacts.
- Faulty 240V isolating switchgear
- Loose or poor connections affecting supply.

- 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.
- 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 (adjustable) to neutral on supply or motor voltage 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

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

The MP15 single phase monitors both the supply AND motor terminal voltages, thereby giving an extra level of protection.

The adjustable start delay of the MP15 is ideal for stage starting of multiple motors on a common supply to reduce starting current 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 motor control circuits.

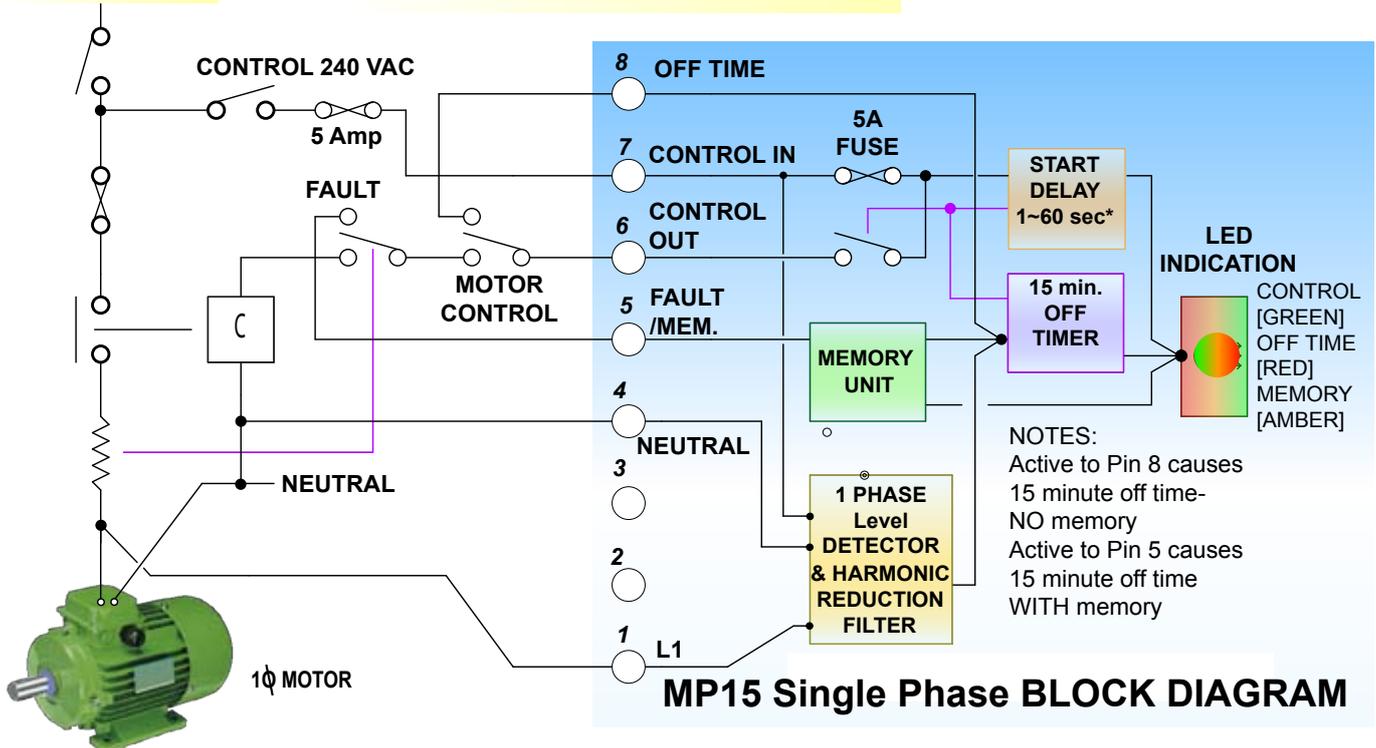
The MP15 is also available as a three phase motor protection control, please refer separate brochure for details.

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



200-260 VAC

### TYPICAL APPLICATION



### MP15 Single Phase Model Selection Table

Model	Mounting	Description
MP15P1	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.