

## Motec Motor Starter



Due to its high breaking capacity and high current limitation, Motec provides optimum overload and short-circuit protection for one to three-phase electric motors up to 32A, 690V AC.

Also equipped with phase failure protection and ambient temperature compensation, plus a range of accessories, Motec can provide motor protection, switching, remote signalling, enclosures, locking and simple connection.

**NOTE:** Our Motor Starters are IE3 compliant and therefore suitable for the safe operation of high efficiency IE3 motors.



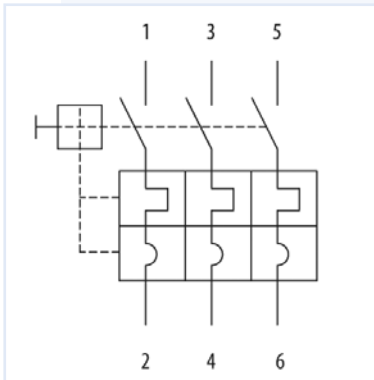


## Motec Motor Starter

- Motor Starters are used for overload and short-circuit protection of one to three-phase electric motors up to 32A, 690V AC
- Manual (ON/OFF) switching of motors by green/red push-buttons on the front of the device
- Padlockable actuation
- Adjustable thermal release setting via rotary control on the front of the device
- Integral phase failure protection and temperature compensation
- Motec + accessories = protection + switching + remote signalling + enclosure + locking + simple connection

## Motec Technical Specification

|  |                                |                   |
|--|--------------------------------|-------------------|
| Standards  | EN 60 947                      |                   |
| Number of Poles                                  | 3                              |                   |
| Rated Current I <sub>n</sub>                     | 0.16 - 32A                     |                   |
| Rated Voltage U <sub>e</sub>                     | 690 Vac                        |                   |
| Rated Frequency f <sub>n</sub>                   | 40 - 60Hz                      |                   |
| Mechanical / Electrical Endurance                | Operating Cycles               | 100,000           |
|  | Max. Operations                | 30 Hours          |
| Rated Impulse Withstand Voltage U <sub>imp</sub> | (1.2/50µs)                     | 6kV               |
| Power Loss per Pole                              | At minimum range setting       | 0.6 - 1.05 W      |
|  | At maximum range setting       | 1.5 - 2.6 W       |
| Mounting   | DIN-Rail                       | 35mm              |
|  | Surface Mount                  | 2xM4              |
| Degree of Protection                             | Motec Starter                  | IP20              |
|  | Motec Starter in Enclosure     | maximum IP55      |
| Connection                                       | Conductor                      | Solid or Stranded |
|  |                                |                   |
| Operating Conditions                             | Ambient Temperature            | -5 to 55°C        |
|  | Temp. Compensation Range       | -5 to 40°C        |
|  | Operating Position             | any               |
|  | Resistance to Mechanical Shock | 15g/10ms          |



| Rated Current (A) | Maximum Operating Power (kW/AC3) |       |       | Operating Current Short Circuit Release (A) | Breaking Capacity without Back-Up Fuse I <sub>cu</sub> (400V AC) (kA) | Order Code |
|-------------------|----------------------------------|-------|-------|---|---|------------|
|                   | 400/415 V                        | 500 V | 690 V |   |   |            |
| 0.1 - 0.16        | -                                | -     | 0.06  | 1.92  | 100   | Motec 0.16 |
| 0.16 - 0.25       | 0.06                             | 0.06  | 0.12  | 3   | 100   | Motec 0.25 |
| 0.25 - 0.4        | 0.09                             | 0.12  | 0.18  | 4.8   | 100   | Motec 0.4  |
| 0.4 - 0.63        | 0.12                             | 0.18  | 0.25  | 7.6   | 100   | Motec 0.63 |
| 0.63 - 1          | 0.25                             | 0.37  | 0.55  | 12  | 100   | Motec 1    |
| 1 - 1.6           | 0.55                             | 0.75  | 1.1   | 19.2  | 100   | Motec 1.6  |
| 1.6 - 2.5         | 0.75                             | 1.1   | 1.5   | 30  | 100   | Motec 2.5  |
| 2.5 - 4           | 1.5                              | 2.2   | 3     | 48  | 100   | Motec 4.0  |
| 4 - 6.3           | 2.2                              | 3     | 4     | 75.6  | 100   | Motec 6.3  |
| 6.3 - 10          | 4                                | 5.5   | 7.5   | 120   | 6   | Motec 10   |
| 10 - 16           | 7.5                              | 9     | 12.5  | 192   | 6   | Motec 16   |
| 16 - 20           | 9.0                              | 12.5  | 15    | 240   | 6   | Motec 20   |
| 20 - 25           | 12.5                             | 15    | 22    | 300   | 6   | Motec 25   |
| 25 - 32           | 15                               | 18.5  | -     | 384   | 6   | Motec 32   |

## Motec Diagrams and Trip Curve

