



# DATASHEET

## Te3 Severe Duty CAST IRON FRAME TO 500KW

|   |  |                |
|---|--|----------------|
| <b>MOTOR SERIES</b>                         | Te3 Severe Duty CAST IRON FRAME TO 500KW |                |
| <b>START METHOD</b>                         |  | DIRECT ON LINE |
| <b>KW RATING</b>                            |  | 37             |
| <b>VOLTAGE</b>                              | (V)                                      | 415            |
| <b>PHASES</b>                               |  | 3              |
| <b>FREQUENCY</b>                            | (Hz)                                     | 50             |
| <b>NO OF POLES</b>                          |  | 6              |
| <b>FRAME</b>                                |  | 250M           |
| <b>SPEED</b>                                |  |                |
| SYNCHRONOUS                                 | (rpm)                                    | 1000           |
| FULL LOAD                                   | (rpm)                                    | 985            |
| <b>CURRENT</b>                              |  |                |
| FULL LOAD                                   | (Amps)                                   | 65.2           |
| LOCKED ROTOR                                | %  | 700            |
| <b>TORQUE</b>                               |  |                |
| FULL LOAD TORQUE                            | (Nm)                                     | 358            |
| STARTING TORQUE                             | %  | 210            |
| MINIMUM TORQUE                              | %  |                |
| BREAKDOWN TORQUE                            | %  | 210            |
| <b>ROTOR INERTIA (J = GD<sup>2</sup>/4)</b> | (Kgm <sup>2</sup> )                      | 0.88           |
| <b>EFFICIENCY</b>                           |  |                |
| 100% LOAD                                   | %  | 93.4           |
| 75% LOAD                                    | %  | 92.8           |
| 50% LOAD                                    | %  | 91.8           |
| <b>POWER FACTOR</b>                         |  |                |
| 100% LOAD                                   | %  | 84             |
| 75% LOAD                                    | %  | 83             |
| 50% LOAD                                    | %  | 75             |
| <b>INSULATION CLASS</b>                     |  | H              |
| <b>ENCLOSURE TYPE</b>                       |  | TEFC           |
| <b>IP RATING</b>                            |  | 66             |
| <b>WEIGHT OF MOTOR</b>                      | kgs                                      | 395            |
| <b>BEARINGS</b>                             |  |                |
| DRIVE END                                   |  | 6314           |
| NON DRIVE END                               |  | 6313           |
| <b>NO LOAD SOUND PRESSURE LEVEL @ 1M</b>    | dbA                                      | 70             |
| <b>DESIGN STANDARD</b>                      |  | AS1359         |
| <b>CERTIFICATION</b>                        |  |                |
| <b>TEMPERATURE RISE ABOVE AMBIENT</b>       |  | < 80 DEG C     |