



# DATASHEET

## MAX-E3 PREMIUM SEVERE DUTY Totally Enclosed Fan-Cooled Cast Iron Frame to 185kW

|   |   |                     |               |
|---|---|---------------------|---------------|
| <b>MOTOR SERIES</b>                         | MAX-E3 PREMIUM SEVERE DUTY Totally Enclosed Fan-Cooled Cast Iron Frame to 185kW |                     |               |
| <b>START METHOD</b>                         |   |                     | DIRECT ONLINE |
| <b>KW RATING</b>                            |   |                     | 0.37          |
| <b>VOLTAGE</b>                              | (V)   |                     | 240           |
| <b>PHASES</b>                               |   |                     | 3             |
| <b>FREQUENCY</b>                            | (Hz)  |                     | 50            |
| <b>NO OF POLES</b>                          |   |                     | 8             |
| <b>FRAME</b>                                |   |                     | 90S           |
| <b>SPEED</b>                                |   |                     |               |
|   | SYNCHRONOUS   | (rpm)               | 750           |
|   | FULL LOAD   | (rpm)               | 710           |
| <b>CURRENT</b>                              |   |                     |               |
|   | FULL LOAD   | (Amps)              | 2.13          |
|   | LOCKED ROTOR  | %                   | 388           |
| <b>TORQUE</b>                               |   |                     |               |
|   | FULL LOAD TORQUE  | (Nm)                | 4.98          |
|   | STARTING TORQUE   | %                   | 214.5         |
|   | MINIMUM TORQUE  | %                   | 209           |
|   | BREAKDOWN TORQUE  | %                   | 291.5         |
| <b>ROTOR INERTIA (J = GD<sup>2</sup>/4)</b> |   | (Kgm <sup>2</sup> ) | 0.0045        |
| <b>EFFICIENCY</b>                           |   |                     |               |
|   | 100% LOAD   | %                   | 70.5          |
|   | 75% LOAD  | %                   | 68            |
|   | 50% LOAD  | %                   | 62.5          |
| <b>POWER FACTOR</b>                         |   |                     |               |
|   | 100% LOAD   | %                   | 60            |
|   | 75% LOAD  | %                   | 51            |
|   | 50% LOAD  | %                   | 39.5          |
| <b>INSULATION CLASS</b>                     |   |                     | F             |
| <b>ENCLOSURE TYPE</b>                       |   |                     | TEFC          |
| <b>IP RATING</b>                            |   |                     | 66            |
| <b>WEIGHT OF MOTOR</b>                      |   | kgs                 | 22            |
| <b>BEARINGS</b>                             |   |                     |               |
|   | DRIVE END   |                     | 6205 ZZ C3    |
|   | NON DRIVE END   |                     | 6205 ZZ C3    |
| <b>NO LOAD SOUND PRESSURE LEVEL @ 1M</b>    |   | dbA                 | 49            |
| <b>DESIGN STANDARD</b>                      |   |                     | AS1359        |
| <b>CERTIFICATION</b>                        |   |                     |               |
| <b>TEMPERATURE RISE ABOVE AMBIENT</b>       |   |                     | < 80 DEG C    |