



# DATASHEET

## TECO FLAMEPROOF TEFC

|   |                      |  |
|---|----------------------|--|
| <b>MOTOR SERIES</b>                         | TECO FLAMEPROOF TEFC |  |
| <b>START METHOD</b>                         |                      | DIRECT ON LINE   |
| <b>KW RATING</b>                            |                      | 1.1  |
| <b>VOLTAGE</b>                              | (V)                  | 415  |
| <b>PHASES</b>                               |                      | 3  |
| <b>FREQUENCY</b>                            | (Hz)                 | 50   |
| <b>NO OF POLES</b>                          |                      | 4  |
| <b>FRAME</b>                                |                      | 90S  |
| <b>SPEED</b>                                |                      |  |
| SYNCHRONOUS                                 | (rpm)                | 1500   |
| FULL LOAD                                   | (rpm)                | 1415   |
| <b>CURRENT</b>                              |                      |  |
| FULL LOAD                                   | (Amps)               | 2.32   |
| LOCKED ROTOR                                | %                    | 689  |
| <b>TORQUE</b>                               |                      |  |
| FULL LOAD TORQUE                            | (Nm)                 | 7.5  |
| STARTING TORQUE                             | %                    | 250  |
| MINIMUM TORQUE                              | %                    | 215  |
| BREAKDOWN TORQUE                            | %                    | 270  |
| <b>ROTOR INERTIA (J = GD<sup>2</sup>/4)</b> | (Kgm <sup>2</sup> )  | 0.00425  |
| <b>EFFICIENCY</b>                           |                      |  |
| 100% LOAD                                   | %                    | 84   |
| 75% LOAD                                    | %                    | 85   |
| 50% LOAD                                    | %                    | 84   |
| <b>POWER FACTOR</b>                         |                      |  |
| 100% LOAD                                   | %                    | 80   |
| 75% LOAD                                    | %                    | 72.5   |
| 50% LOAD                                    | %                    | 60   |
| <b>INSULATION CLASS</b>                     |                      | F  |
| <b>ENCLOSURE TYPE</b>                       |                      | TEFC   |
| <b>IP RATING</b>                            |                      | 55   |
| <b>WEIGHT OF MOTOR</b>                      | kgs                  | 33   |
| <b>BEARINGS</b>                             |                      |  |
| DRIVE END                                   |                      | 6205 ZZ C3   |
| NON DRIVE END                               |                      | 6205 ZZ C3   |
| <b>NO LOAD SOUND PRESSURE LEVEL @ 1M</b>    | dbA                  | 46   |
| <b>DESIGN STANDARD</b>                      |                      | AS1359, BS4999, IEC60079-0:2004,<br>IEC60079-1:2007, IEC60079-7:2006 |
| <b>CERTIFICATION</b>                        |                      | Ex de, Zone 1, IIC, T4 (T3 on VSD)<br>50°Camb                        |
| <b>TEMPERATURE RISE ABOVE AMBIENT</b>       |                      | < 80 DEG C   |