



# DATASHEET

## TECO IE3 FLAMEPROOF (EXD) TEFC

|   |                                |  |
|---|--------------------------------|--|
| <b>MOTOR SERIES</b>                         | TECO IE3 FLAMEPROOF (EXD) TEFC |  |
| <b>START METHOD</b>                         |                                | DIRECT ON LINE   |
| <b>KW RATING</b>                            |                                | 75   |
| <b>VOLTAGE</b>                              | (V)                            | 415  |
| <b>PHASES</b>                               |                                | 3  |
| <b>FREQUENCY</b>                            | (Hz)                           | 50   |
| <b>NO OF POLES</b>                          |                                | 8  |
| <b>FRAME</b>                                |                                | 315MC  |
| <b>SPEED</b>                                |                                |  |
| SYNCHRONOUS                                 | (rpm)                          | 750  |
| FULL LOAD                                   | (rpm)                          | 737  |
| <b>CURRENT</b>                              |                                |  |
| FULL LOAD                                   | (Amps)                         | 137  |
| LOCKED ROTOR                                | %                              | 715  |
| <b>TORQUE</b>                               |                                |  |
| FULL LOAD TORQUE                            | (Nm)                           | 970  |
| STARTING TORQUE                             | %                              | 130  |
| MINIMUM TORQUE                              | %                              | 110  |
| BREAKDOWN TORQUE                            | %                              | 230  |
| <b>ROTOR INERTIA (J = GD<sup>2</sup>/4)</b> | (Kgm <sup>2</sup> )            | 5.325  |
| <b>EFFICIENCY</b>                           |                                |  |
| 100% LOAD                                   | %                              | 93.1   |
| 75% LOAD                                    | %                              | 93.3   |
| 50% LOAD                                    | %                              | 92.5   |
| <b>POWER FACTOR</b>                         |                                |  |
| 100% LOAD                                   | %                              | 82   |
| 75% LOAD                                    | %                              | 76   |
| 50% LOAD                                    | %                              | 64   |
| <b>INSULATION CLASS</b>                     |                                | F  |
| <b>ENCLOSURE TYPE</b>                       |                                | TEFC   |
| <b>IP RATING</b>                            |                                | 56   |
| <b>WEIGHT OF MOTOR</b>                      | kgs                            | 1480   |
| <b>BEARINGS</b>                             |                                |  |
| DRIVE END                                   |                                | NU320 C3   |
| NON DRIVE END                               |                                | 6316 C3  |
| <b>NO LOAD SOUND PRESSURE LEVEL @ 1M</b>    | dbA                            |  |
| <b>DESIGN STANDARD</b>                      |                                | BS4999, IEC60034, IEC60079-1:2014, IEC60079-0:2011           |
| <b>CERTIFICATION</b>                        |                                | Ex db, IIC, T4, Gb and Ex db, I, Mb both -20°C < Tamb < 55°C |
| <b>TEMPERATURE RISE ABOVE AMBIENT</b>       |                                | < 80 DEG C   |