

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|                                                                               |                                                    |                             |                        |                 |  |  |  |  |  |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|------------------------|-----------------|--|--|--|--|--|
| Customer :                                                                    |                                                    |                             |                        |                 |  |  |  |  |  |
| Product line                                                                  | : Rolled Steel NEMA Premium Efficiency Three-Phase |                             | Product code :         | 14014003        |  |  |  |  |  |
|                                                                               |                                                    |                             | Catalog # :            | 00218ET3J145T-S |  |  |  |  |  |
| Frame                                                                         | : 143/5T                                           | Locked rotor time           | : 27s (cold) 15s (hot) |                 |  |  |  |  |  |
| Output                                                                        | : 2 HP (1.5 kW)                                    | Temperature rise            | : 70 K                 |                 |  |  |  |  |  |
| Poles                                                                         | : 4                                                | Duty cycle                  | : Cont.(S1)            |                 |  |  |  |  |  |
| Frequency                                                                     | : 60 Hz                                            | Ambient temperature         | : -20°C to +50°C       |                 |  |  |  |  |  |
| Rated voltage                                                                 | : 380/660 V                                        | Altitude                    | : 1000 m.a.s.l.        |                 |  |  |  |  |  |
| Rated current                                                                 | : 3.29/1.90 A                                      | Protection degree           | : IP55                 |                 |  |  |  |  |  |
| L. R. Amperes                                                                 | : 27.0/15.6 A                                      | Cooling method              | : IC411 - TEFC         |                 |  |  |  |  |  |
| LRC                                                                           | : 8.2x(Code K)                                     | Mounting                    | : F-1                  |                 |  |  |  |  |  |
| No load current                                                               | : 1.69/0.974 A                                     | Rotation <sup>1</sup>       | : Both (CW and CCW)    |                 |  |  |  |  |  |
| Rated speed                                                                   | : 1745 rpm                                         | Noise level <sup>2</sup>    | : 52.0 dB(A)           |                 |  |  |  |  |  |
| Slip                                                                          | : 3.06 %                                           | Starting method             | : Direct On Line       |                 |  |  |  |  |  |
| Rated torque                                                                  | : 6.02 ft.lb                                       | Approx. weight <sup>3</sup> | : 42.5 lb              |                 |  |  |  |  |  |
| Locked rotor torque                                                           | : 270 %                                            |                             |                        |                 |  |  |  |  |  |
| Breakdown torque                                                              | : 300 %                                            |                             |                        |                 |  |  |  |  |  |
| Insulation class                                                              | : F                                                |                             |                        |                 |  |  |  |  |  |
| Service factor                                                                | : 1.15                                             |                             |                        |                 |  |  |  |  |  |
| Moment of inertia (J)                                                         | : 0.1305 sq.ft.lb                                  |                             |                        |                 |  |  |  |  |  |
| Design                                                                        | : B                                                |                             |                        |                 |  |  |  |  |  |
| Output                                                                        | 25%                                                | 50%                         | 75%                    | 100%            |  |  |  |  |  |
| Efficiency (%)                                                                | 0.000                                              | 85.5                        | 87.5                   | 86.5            |  |  |  |  |  |
| Power Factor                                                                  | 0.00                                               | 0.60                        | 0.73                   | 0.80            |  |  |  |  |  |
| Foundation loads                                                              |                                                    |                             |                        |                 |  |  |  |  |  |
|                                                                               | Max. traction                                      |                             | : 136 lb               |                 |  |  |  |  |  |
|                                                                               | Max. compression                                   |                             | : 178 lb               |                 |  |  |  |  |  |
| Drive end                                                                     |                                                    |                             |                        |                 |  |  |  |  |  |
| Bearing type                                                                  | : 6205 ZZ                                          | Non drive end               |                        |                 |  |  |  |  |  |
| Sealing                                                                       | : V'Ring                                           | 6203 ZZ                     |                        |                 |  |  |  |  |  |
| Lubrication interval                                                          | : 0 h                                              | Without Bearing Seal        |                        |                 |  |  |  |  |  |
| Lubricant amount                                                              | : 0 g                                              | 0 h                         |                        |                 |  |  |  |  |  |
| Lubricant type                                                                | : Mobil Polyrex EM                                 | 0 g                         |                        |                 |  |  |  |  |  |
| Notes:                                                                        |                                                    |                             |                        |                 |  |  |  |  |  |
| This revision replaces and cancel the previous one, which must be eliminated. |                                                    |                             |                        |                 |  |  |  |  |  |
| (1) Looking the motor from the shaft end.                                     |                                                    |                             |                        |                 |  |  |  |  |  |
| (2) Measured at 1m and with tolerance of +3dB(A).                             |                                                    |                             |                        |                 |  |  |  |  |  |
| (3) Approximate weight subject to changes after manufacturing process.        |                                                    |                             |                        |                 |  |  |  |  |  |
| (4) At 100% of full load.                                                     |                                                    |                             |                        |                 |  |  |  |  |  |
| Rev.                                                                          | Changes Summary                                    |                             |                        | Performed       |  |  |  |  |  |
|                                                                               |                                                    |                             |                        | Checked         |  |  |  |  |  |
| Performed by                                                                  |                                                    |                             |                        |                 |  |  |  |  |  |
| Checked by                                                                    |                                                    |                             |                        |                 |  |  |  |  |  |
| Date                                                                          | 27/03/2024                                         |                             |                        |                 |  |  |  |  |  |
|                                                                               |                                                    |                             |                        | Page            |  |  |  |  |  |
|                                                                               |                                                    |                             |                        | Revision        |  |  |  |  |  |
|                                                                               |                                                    |                             |                        | 1 / 1           |  |  |  |  |  |