

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|   |  |  |                        |         |          |
|---|--|--|------------------------|---------|----------|
| Customer :  |  |  |                        |         |          |
| Product line  | : Rolled Steel NEMA Premium Efficiency Three-Phase | Product code :   | 12675416               |         |          |
|   |  | Catalog # :  | 00512ET3E215T-S        |         |          |
| Frame   | : 213/5T   | Locked rotor time  | : 54s (cold) 30s (hot) |         |          |
| Output  | : 5 HP (3.7 kW)                                    | Temperature rise   | : 80 K                 |         |          |
| Poles   | : 6  | Duty cycle   | : Cont.(S1)            |         |          |
| Frequency   | : 60 Hz  | Ambient temperature  | : -20°C to +40°C       |         |          |
| Rated voltage   | : 230/460 V  | Altitude   | : 1000 m.a.s.l.        |         |          |
| Rated current   | : 13.5/6.74 A                                      | Protection degree  | : IP55                 |         |          |
| L. R. Amperes   | : 80.9/40.4 A                                      | Cooling method   | : IC411 - TEFC         |         |          |
| LRC   | : 6.0x(Code H)                                     | Mounting   | : F-1                  |         |          |
| No load current   | : 6.84/3.42 A                                      | Rotation <sup>1</sup>  | : Both (CW and CCW)    |         |          |
| Rated speed   | : 1175 rpm   | Noise level <sup>2</sup>   | : 55.0 dB(A)           |         |          |
| Slip  | : 2.08 %   | Starting method  | : Direct On Line       |         |          |
| Rated torque  | : 22.3 ft.lb                                       | Approx. weight <sup>3</sup>  | : 143 lb               |         |          |
| Locked rotor torque   | : 220 %  |  |                        |         |          |
| Breakdown torque  | : 250 %  |  |                        |         |          |
| Insulation class  | : F  |  |                        |         |          |
| Service factor  | : 1.15   |  |                        |         |          |
| Moment of inertia (J)   | : 1.26 sq.ft.lb                                    |  |                        |         |          |
| Design  | : B  |  |                        |         |          |
| Output  | 50%  | 75%  | 100%                   |         |          |
| Efficiency (%)  | 87.5 87.8  | 88.5 87.4  | 89.5 85.4              |         |          |
|   | 87.3   | 87.9   | 86.8                   |         |          |
| Power Factor  | 0.59 0.66  | 0.71 0.77  | 0.77 0.81              |         |          |
|   | 0.59   | 0.72   | 0.78                   |         |          |
| Bearing type  |  | Drive end  | Non drive end          |         |          |
| Sealing   |  | 6208 ZZ  | 6206 ZZ                |         |          |
| Lubrication interval  |  | V'Ring   | Without Bearing Seal   |         |          |
| Lubricant amount  |  | -  | -                      |         |          |
| Lubricant type  |  | Mobil Polyrex EM   |                        |         |          |
| Notes:  |  |  |                        |         |          |
| This revision replaces and cancel the previous one, which must be eliminated. |  | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. |                        |         |          |
| (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 | Date     |
|   |  |  |                        |         |          |
| Performed by  |  |  |                        |         |          |
| Checked by  |  |  |                        | Page    | Revision |
| Date  | 27/03/2024   |  |                        | 1 / 1   |          |