

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Wash Down NEMA Premium Efficiency Three-Phase      Product code : 15228444  
Catalog # : 01036ET3EHW215TC-S

|                       |                   |                             |                        |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame                 | : 213/5TC         | Locked rotor time           | : 21s (cold) 12s (hot) |
| Output                | : 10 HP (7.5 kW)  | Temperature rise            | : 80 K                 |
| Poles                 | : 2               | 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         | : 23.0/11.5 A     | Protection degree           | : IP56                 |
| L. R. Amperes         | : 173/86.2 A      | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 7.5x(Code H)    | Mounting                    | : F-1                  |
| No load current       | : 7.53/3.77 A     | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 3530 rpm        | Noise level <sup>2</sup>    | : 70.0 dB(A)           |
| Slip                  | : 1.94 %          | Starting method             | : Direct On Line       |
| Rated torque          | : 14.9 ft.lb      | Approx. weight <sup>3</sup> | : 161 lb               |
| Locked rotor torque   | : 260 %           |                             |                        |
| Breakdown torque      | : 300 %           |                             |                        |
| Insulation class      | : F               |                             |                        |
| Service factor        | : 1.15            |                             |                        |
| Moment of inertia (J) | : 0.7188 sq.ft.lb |                             |                        |
| Design                | : B               |                             |                        |

|                |           |           |           |                  |          |
|----------------|-----------|-----------|-----------|------------------|----------|
| Output         | 50%       | 75%       | 100%      | Foundation loads |          |
| Efficiency (%) | 89.5 90.0 | 90.2 89.2 | 90.2 87.2 | Max. traction    | : 203 lb |
|                | 90.1      | 90.0      | 88.7      |                  |          |
| Power Factor   | 0.80 0.85 | 0.88 0.90 | 0.91 0.92 | Max. compression | : 364 lb |
|                | 0.80      | 0.88      | 0.91      |                  |          |

|                      |   |   |   |
|----------------------|---|---|---|
|                      |   | <u>Drive end</u>                              | <u>Non drive end</u>                          |
| Bearing type         | : | 6208 2RS                                      | 6206 2RS                                      |
| Sealing              | : | Viton Oil seal with<br>Stainless Steel Spring | Viton Oil seal with<br>Stainless Steel Spring |
| Lubrication interval | : | -   | -   |
| Lubricant amount     | : | -   | -   |
| Lubricant type       | : | Mobil Polyrex EM                              |   |

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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

| Rev.         | Changes Summary | Performed     | Checked  | Date |
|--------------|-----------------|---------------|----------|------|
|              |                 |               |          |      |
| Performed by |                 | Page<br>1 / 1 |          |      |
| Checked by   |                 |               |          |      |
| Date         | 29/03/2024      |               |          |      |
|              |                 |               | Revision |      |