

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Wash Down NEMA Premium Efficiency Three-Phase      Product code : 15228354  
Catalog # : 00518ET3EHW184T-S

|                       |                   |                             |                        |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame                 | : 182/4T          | Locked rotor time           | : 28s (cold) 16s (hot) |
| Output                | : 5 HP (3.7 kW)   | Temperature rise            | : 80 K                 |
| Poles                 | : 4               | 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         | : 13.0/6.49 A     | Protection degree           | : IP56                 |
| L. R. Amperes         | : 90.9/45.4 A     | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 7.0x(Code J)    | Mounting                    | : F-1                  |
| No load current       | : 6.89/3.44 A     | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1750 rpm        | Noise level <sup>2</sup>    | : 56.0 dB(A)           |
| Slip                  | : 2.78 %          | Starting method             | : Direct On Line       |
| Rated torque          | : 15.0 ft.lb      | Approx. weight <sup>3</sup> | : 75.0 lb              |
| Locked rotor torque   | : 220 %           |                             |                        |
| Breakdown torque      | : 300 %           |                             |                        |
| Insulation class      | : F               |                             |                        |
| Service factor        | : 1.15            |                             |                        |
| Moment of inertia (J) | : 0.3080 sq.ft.lb |                             |                        |
| Design                | : B               |                             |                        |

|                |           |           |           |                  |          |
|----------------|-----------|-----------|-----------|------------------|----------|
| Output         | 50%       | 75%       | 100%      | Foundation loads |          |
| Efficiency (%) | 88.5 87.9 | 89.5 87.2 | 89.5 84.9 | Max. traction    | : 136 lb |
|                | 86.5      | 87.2      | 86.1      |                  |          |
| Power Factor   | 0.60 0.68 | 0.73 0.80 | 0.80 0.84 | Max. compression | : 170 lb |
|                | 0.59      | 0.73      | 0.80      |                  |          |

|                      |   |                                               |                                               |
|----------------------|---|-----------------------------------------------|-----------------------------------------------|
|                      |   | <u>Drive end</u>                              | <u>Non drive end</u>                          |
| Bearing type         | : | 6206 2RS                                      | 6205 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      Revision<br>1 / 1 |         |      |
| Checked by   |                 |                             |         |      |
| Date         | 29/03/2024      |                             |         |      |