

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Farm Duty Single-Phase  
Product code : 12884005  
Catalog # : .5018ES1RFDW56-S

|                       |                    |                             |                        |
|-----------------------|--------------------|-----------------------------|------------------------|
| Frame                 | : W56              | Locked rotor time           | : 18s (cold) 10s (hot) |
| Output                | : 0.5 HP (0.37 kW) | Temperature rise            | : 80 K                 |
| Poles                 | : 4                | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz            | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 115/230 V        | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 8.00/4.00 A      | Protection degree           | : IP55                 |
| L. R. Amperes         | : 45.6/22.8 A      | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 5.7x(Code M)     | Mounting                    | : F-1                  |
| No load current       | : 7.10/3.55 A      | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1730 rpm         | Noise level <sup>2</sup>    | : 52.0 dB(A)           |
| Slip                  | : 3.89 %           | Starting method             | : Direct On Line       |
| Rated torque          | : 1.52 ft.lb       | Approx. weight <sup>3</sup> | : 20.7 lb              |
| Locked rotor torque   | : 320 %            |                             |                        |
| Breakdown torque      | : 270 %            |                             |                        |
| Insulation class      | : F                |                             |                        |
| Service factor        | : 1.15             |                             |                        |
| Moment of inertia (J) | : 0.0479 sq.ft.lb  |                             |                        |
| Design                | : N                |                             |                        |

|                |      |      |      |                  |         |
|----------------|------|------|------|------------------|---------|
| Output         | 50%  | 75%  | 100% | Foundation loads |         |
| Efficiency (%) | 52.0 | 59.0 | 64.0 | Max. traction    | : 29 lb |
| Power Factor   | 0.44 | 0.54 | 0.63 | Max. compression | : 51 lb |

|                      | Drive end        | Non drive end          |
|----------------------|------------------|------------------------|
| Bearing type         | : 6203 2RS       | : 6202 2RS             |
| Sealing              | : V'Ring         | : Without Bearing Seal |
| 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<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 01/07/2026      |                           |         |      |