

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : General Single-Phase Product code : 10083691

|                       |                           |                             |                       |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame                 | : B56                     | Locked rotor time           | : 10s (cold) 6s (hot) |
| Output                | : 0.33 HP (0.25 kW)       | Temperature rise            | : 80 K                |
| Poles                 | : 4                       | Duty cycle                  | : Cont.(S1)           |
| Frequency             | : 60 Hz                   | Ambient temperature         | : -20°C to +40°C      |
| Rated voltage         | : 115/208-230 V           | Altitude                    | : 1000 m.a.s.l.       |
| Rated current         | : 5.60/2.70-2.80 A        | Protection degree           | : IP55                |
| L. R. Amperes         | : 32.5/15.7-16.2 A        | Cooling method              | : IC411 - TEFC        |
| LRC                   | : 5.8x(Code N)            | Mounting                    | : F-1                 |
| No load current       | : 4.60/1.98-2.30 A        | Rotation <sup>1</sup>       | : Both (CW and CCW)   |
| Rated speed           | : 1750 rpm                | Noise level <sup>2</sup>    | : 55.0 dB(A)          |
| Slip                  | : 2.78 %                  | Starting method             | : Direct On Line      |
| Rated torque          | : 0.137 kgfm              | Approx. weight <sup>3</sup> | : 9.6 kg              |
| Locked rotor torque   | : 340 %                   |                             |                       |
| Breakdown torque      | : 280 %                   |                             |                       |
| Insulation class      | : B                       |                             |                       |
| Service factor        | : 1.15                    |                             |                       |
| Moment of inertia (J) | : 0.0026 kgm <sup>2</sup> |                             |                       |

|                |      |      |      |                  |          |
|----------------|------|------|------|------------------|----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 49.0 | 58.0 | 61.0 | Max. traction    | : 7 kgf  |
| Power Factor   | 0.44 | 0.53 | 0.62 | Max. compression | : 17 kgf |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6203 ZZ          | 6202 ZZ              |
| Sealing              | : | V'Ring           | V'Ring               |
| 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 / 2 |         |      |
| Checked by   |                 |                        |         |      |
| Date         | 26/10/2024      |                        |         |      |

LOAD PERFORMANCE CURVE

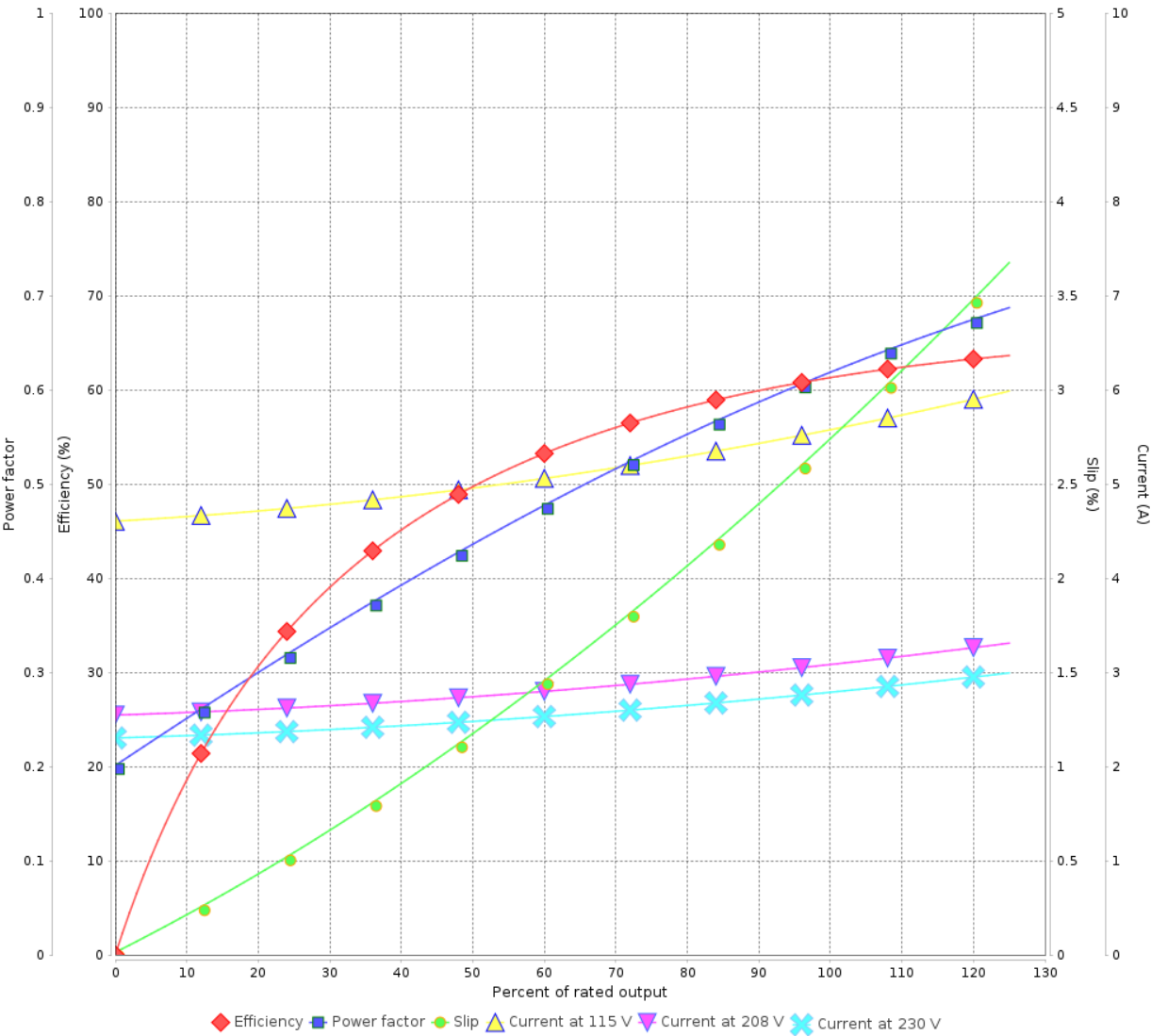
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LOAD PERFORMANCE CURVE



|                                      |                    |                       |               |
|--------------------------------------|--------------------|-----------------------|---------------|
| Performance : 115/208-230 V 60 Hz 4P |                    |                       |               |
| Rated current                        | : 5.60/2.70-2.80 A | Moment of inertia (J) | : 0.0026 kgm² |
| LRC                                  | : 5.8              | Duty cycle            | : Cont.(S1)   |
| Rated torque                         | : 0.137 kgfm       | Insulation class      | : B           |
| Locked rotor torque                  | : 340 %            | Service factor        | :             |
| Breakdown torque                     | : 280 %            | Temperature rise      | : 80 K        |
| Rated speed                          | : 1750 rpm         |                       |               |

| Rev.         | Changes Summary |  | Performed | Checked       | Date     |
|--------------|-----------------|--|-----------|---------------|----------|
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