

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Farm Duty Single-Phase

Product code : 11656982

|                       |                           |                             |                       |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame                 | : G56HC                   | Locked rotor time           | : 10s (cold) 6s (hot) |
| Output                | : 2 HP (1.5 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         | : 21.0/10.5 A             | Protection degree           | : IP55                |
| L. R. Amperes         | : 145/72.5 A              | Cooling method              | : IC411 - TEFC        |
| LRC                   | : 6.9x(Code K)            | Mounting                    | : F-1                 |
| No load current       | : 12.4/6.20 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          | : 0.829 kgfm              | Approx. weight <sup>3</sup> | : 23.8 kg             |
| Locked rotor torque   | : 280 %                   |                             |                       |
| Breakdown torque      | : 250 %                   |                             |                       |
| Insulation class      | : B                       |                             |                       |
| Service factor        | : 1.15                    |                             |                       |
| Moment of inertia (J) | : 0.0090 kgm <sup>2</sup> |                             |                       |

|                |      |      |      |                  |          |
|----------------|------|------|------|------------------|----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 74.0 | 78.0 | 78.1 | Max. traction    | : 55 kgf |
| Power Factor   | 0.60 | 0.71 | 0.78 | Max. compression | : 78 kgf |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6204 ZZ          | 6203 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 |
|--------------|-----------------|---------------|----------|------|
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| Checked by   |                 |               |          |      |
| Date         | 31/01/2024      |               |          |      |
|              |                 |               | Revision |      |

# LOAD PERFORMANCE CURVE

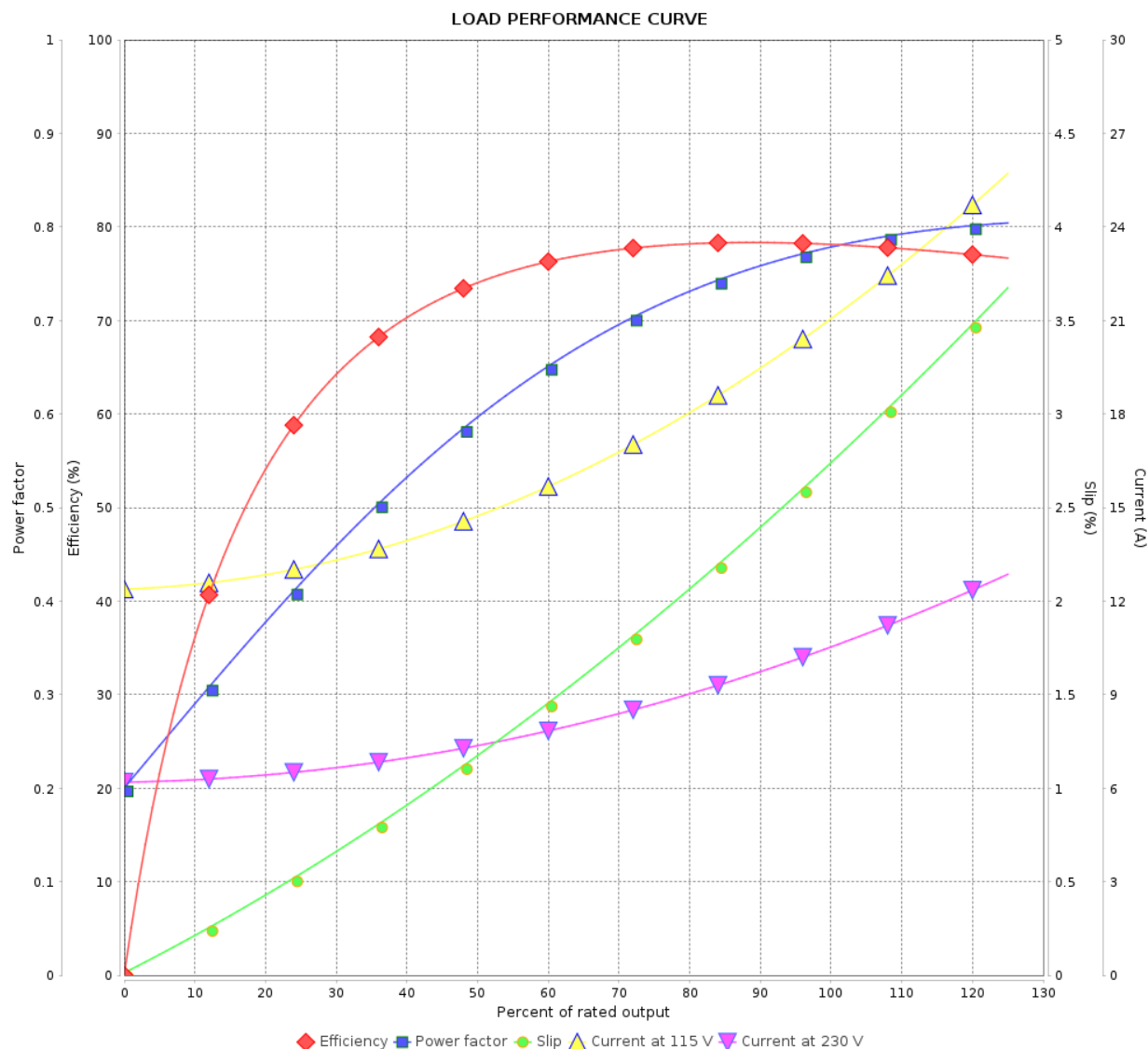
## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Farm Duty Single-Phase

Product code : 11656982



Performance : 115/230 V 60 Hz 4P

Rated current : 21.0/10.5 A  
LRC : 6.9  
Rated torque : 0.829 kgfm  
Locked rotor torque : 280 %  
Breakdown torque : 250 %  
Rated speed : 1750 rpm

Moment of inertia (J) : 0.0090 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : B  
Service factor : 1.15  
Temperature rise : 80 K

| Rev.         | Changes Summary | Performed             | Checked | Date |
|--------------|-----------------|-----------------------|---------|------|
|              |                 |                       |         |      |
| Performed by |                 | Page<br>2 / 2Revision |         |      |
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