

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Compressor Duty Single-Phase Product code : 15842173

|                       |                           |                             |                       |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame                 | : G56HZ                   | Locked rotor time           | : 10s (cold) 6s (hot) |
| Output                | : 5 HP (3.7 kW)           | Temperature rise            | : 105 K               |
| Poles                 | : 2                       | Duty cycle                  | : Cont.(S1)           |
| Frequency             | : 60 Hz                   | Ambient temperature         | : -20°C to +40°C      |
| Rated voltage         | : 208-230 V               | Altitude                    | : 1000 m.a.s.l.       |
| Rated current         | : 21.0-19.1 A             | Protection degree           | : IP21                |
| L. R. Amperes         | : 137-124 A               | Cooling method              | : IC01 - ODP          |
| LRC                   | : 6.5x(Code G)            | Mounting                    | : F-1                 |
| No load current       | : 3.19-3.70 A             | Rotation <sup>1</sup>       | : Both (CW and CCW)   |
| Rated speed           | : 3455 rpm                | Starting method             | : Direct On Line      |
| Slip                  | : 4.03 %                  | Approx. weight <sup>3</sup> | : 22.1 kg             |
| Rated torque          | : 1.05 kgfm               |                             |                       |
| Locked rotor torque   | : 220 %                   |                             |                       |
| Breakdown torque      | : 200 %                   |                             |                       |
| Insulation class      | : F                       |                             |                       |
| Service factor        | : 1.00                    |                             |                       |
| Moment of inertia (J) | : 0.0030 kgm <sup>2</sup> |                             |                       |

|                |      |      |      |                  |
|----------------|------|------|------|------------------|
| Output         | 50%  | 75%  | 100% | Foundation loads |
| Efficiency (%) | 83.0 | 85.0 | 85.0 | Max. traction    |
| Power Factor   | 0.99 | 0.99 | 0.99 | Max. compression |

|                      |   |                      |                      |
|----------------------|---|----------------------|----------------------|
|                      |   | <u>Drive end</u>     | <u>Non drive end</u> |
| Bearing type         | : | 6205 ZZ              | 6203 ZZ              |
| Sealing              | : | Without Bearing Seal | 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 |
|--------------|-----------------|---------------------------|---------|------|
|              |                 |                           |         |      |
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| Checked by   |                 |                           |         |      |
| Date         | 29/10/2025      |                           |         |      |

# LOAD PERFORMANCE CURVE

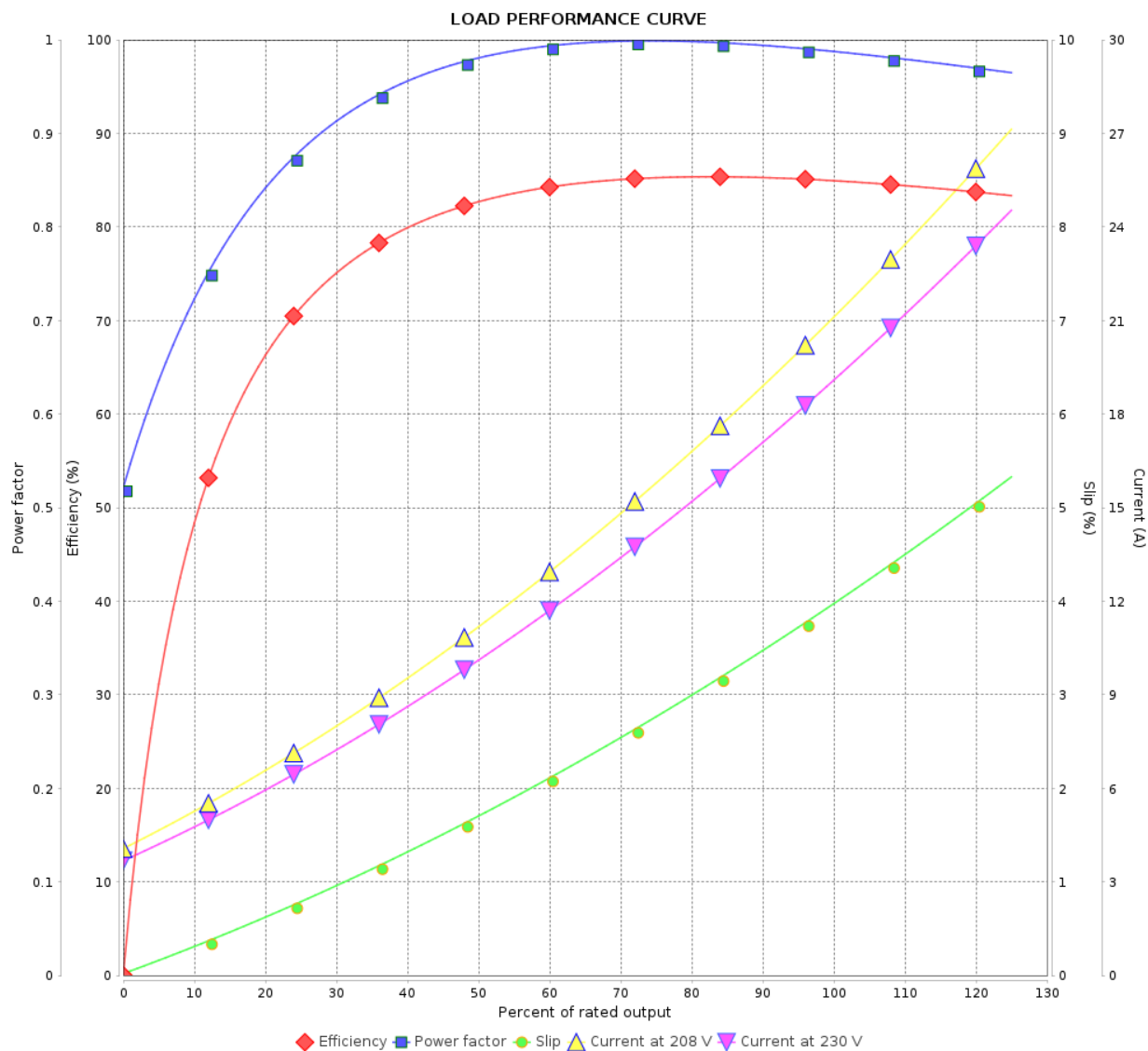
## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Compressor Duty Single-Phase

Product code : 15842173



Performance : 208-230 V 60 Hz 2P

Rated current : 21.0-19.1 A  
LRC : 6.5  
Rated torque : 1.05 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 200 %  
Rated speed : 3455 rpm

Moment of inertia (J) : 0.0030 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor :  
Temperature rise : 105 K

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