

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Centrifugal Pump Single-Phase Start Capacitor Product code : 10744003

|                       |                           |                             |                       |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame                 | : F56HC                   | Locked rotor time           | : 10s (cold) 6s (hot) |
| Output                | : 2 HP (1.5 kW)           | Temperature rise            | : 80 K                |
| Poles                 | : 2                       | 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         | : 20.0/10.6-10.0 A        | Protection degree           | : IP55                |
| L. R. Amperes         | : 140/74.2-70.0 A         | Cooling method              | : IC411 - TEFC        |
| LRC                   | : 7.0x(Code K)            | Mounting                    | : F-1                 |
| No load current       | : 9.00/3.88-4.50 A        | Rotation <sup>1</sup>       | : Both (CW and CCW)   |
| Rated speed           | : 3470 rpm                | Noise level <sup>2</sup>    | : 55.0 dB(A)          |
| Slip                  | : 3.61 %                  | Starting method             | : Direct On Line      |
| Rated torque          | : 0.418 kgfm              | Approx. weight <sup>3</sup> | : 20.1 kg             |
| Locked rotor torque   | : 250 %                   |                             |                       |
| Breakdown torque      | : 240 %                   |                             |                       |
| Insulation class      | : B                       |                             |                       |
| Service factor        | : 1.15                    |                             |                       |
| Moment of inertia (J) | : 0.0033 kgm <sup>2</sup> |                             |                       |

|                |      |      |      |                  |          |
|----------------|------|------|------|------------------|----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 69.0 | 73.0 | 74.0 | Max. traction    | : 22 kgf |
| Power Factor   | 0.72 | 0.81 | 0.87 | Max. compression | : 42 kgf |

|                      |   |                  |               |
|----------------------|---|------------------|---------------|
|                      |   | Drive end        | Non drive end |
| Bearing type         | : | 6204 2RS         | 6203 2RS      |
| 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         | 24/10/2024      |                        |         |      |

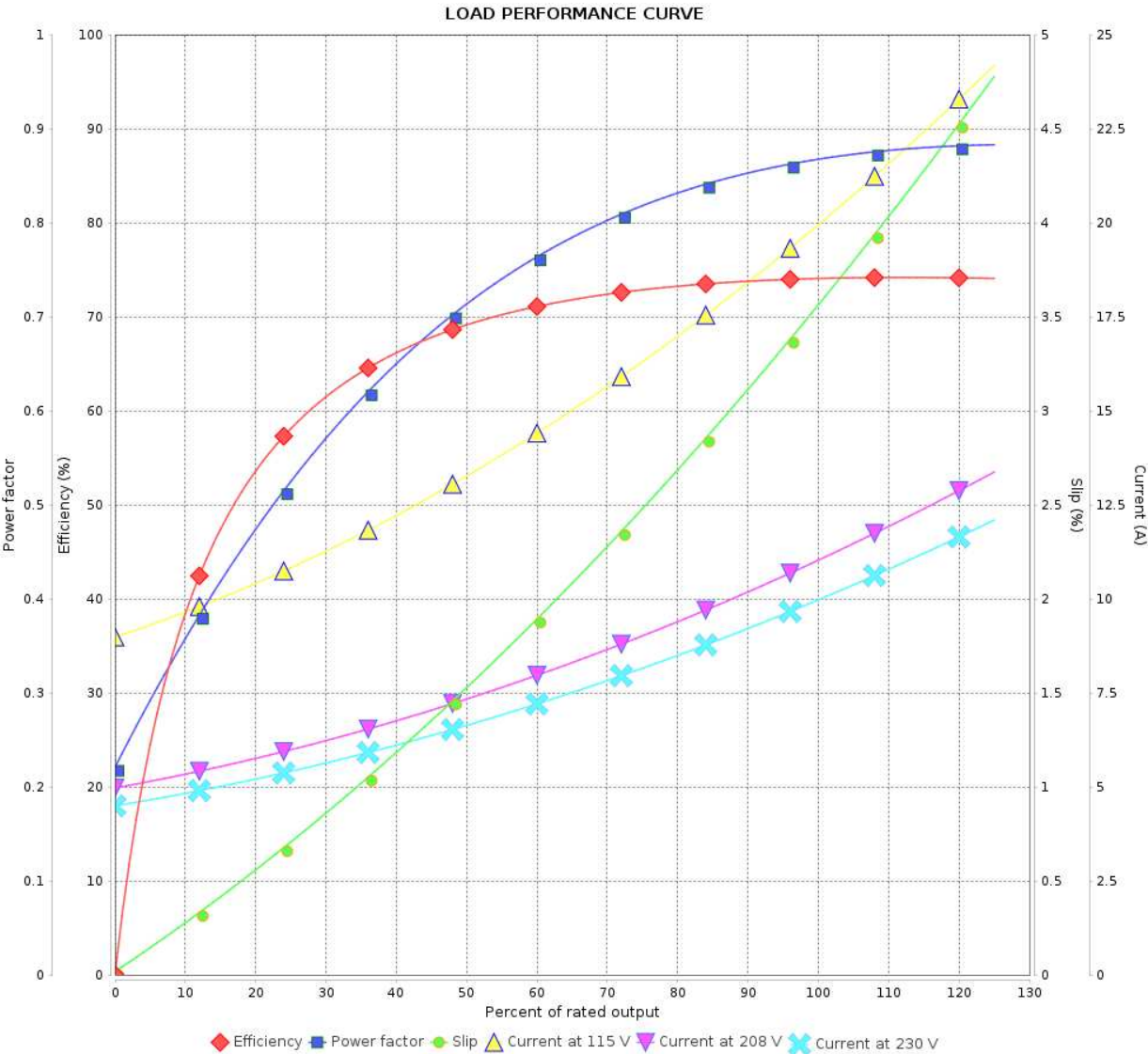
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Product line : Centrifugal Pump Single-Phase Start Capacitor      Product code : 10744003



Performance : 115/208-230 V 60 Hz 2P

Rated current : 20.0/10.6-10.0 A  
LRC : 7.0  
Rated torque : 0.418 kgfm  
Locked rotor torque : 250 %  
Breakdown torque : 240 %  
Rated speed : 3470 rpm

Moment of inertia (J) : 0.0033 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : B  
Service factor :  
Temperature rise : 80 K

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