

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Wjet Pump Single-Phase Start Capacitor Product code : 10084016

|                       |                           |                             |                       |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame                 | : W56J                    | Locked rotor time           | : 10s (cold) 6s (hot) |
| Output                | : 0.5 HP (0.37 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         | : 9.30/3.90-4.65 A        | Protection degree           | : IP21                |
| L. R. Amperes         | : 42.8/17.9-21.4 A        | Cooling method              | : IC01 - ODP          |
| LRC                   | : 4.6x(Code L)            | Mounting                    | : F-1                 |
| No load current       | : 7.10/3.06-3.55 A        | Rotation <sup>1</sup>       | : CCW                 |
| Rated speed           | : 3465 rpm                | Starting method             | : Direct On Line      |
| Slip                  | : 3.75 %                  | Approx. weight <sup>3</sup> | : 9.0 kg              |
| Rated torque          | : 0.105 kgfm              |                             |                       |
| Locked rotor torque   | : 190 %                   |                             |                       |
| Breakdown torque      | : 290 %                   |                             |                       |
| Insulation class      | : B                       |                             |                       |
| Service factor        | : 1.60                    |                             |                       |
| Moment of inertia (J) | : 0.0080 kgm <sup>2</sup> |                             |                       |

|                |      |      |      |      |                  |          |
|----------------|------|------|------|------|------------------|----------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 41.8 | 44.8 | 53.5 | 58.0 | Max. traction    | : 5 kgf  |
| Power Factor   | 0.27 | 0.47 | 0.55 | 0.63 | Max. compression | : 14 kgf |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6203 2RS         | 6202 2RS             |
| Sealing              | : | Slinger          | 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 |                 |           |         |          |
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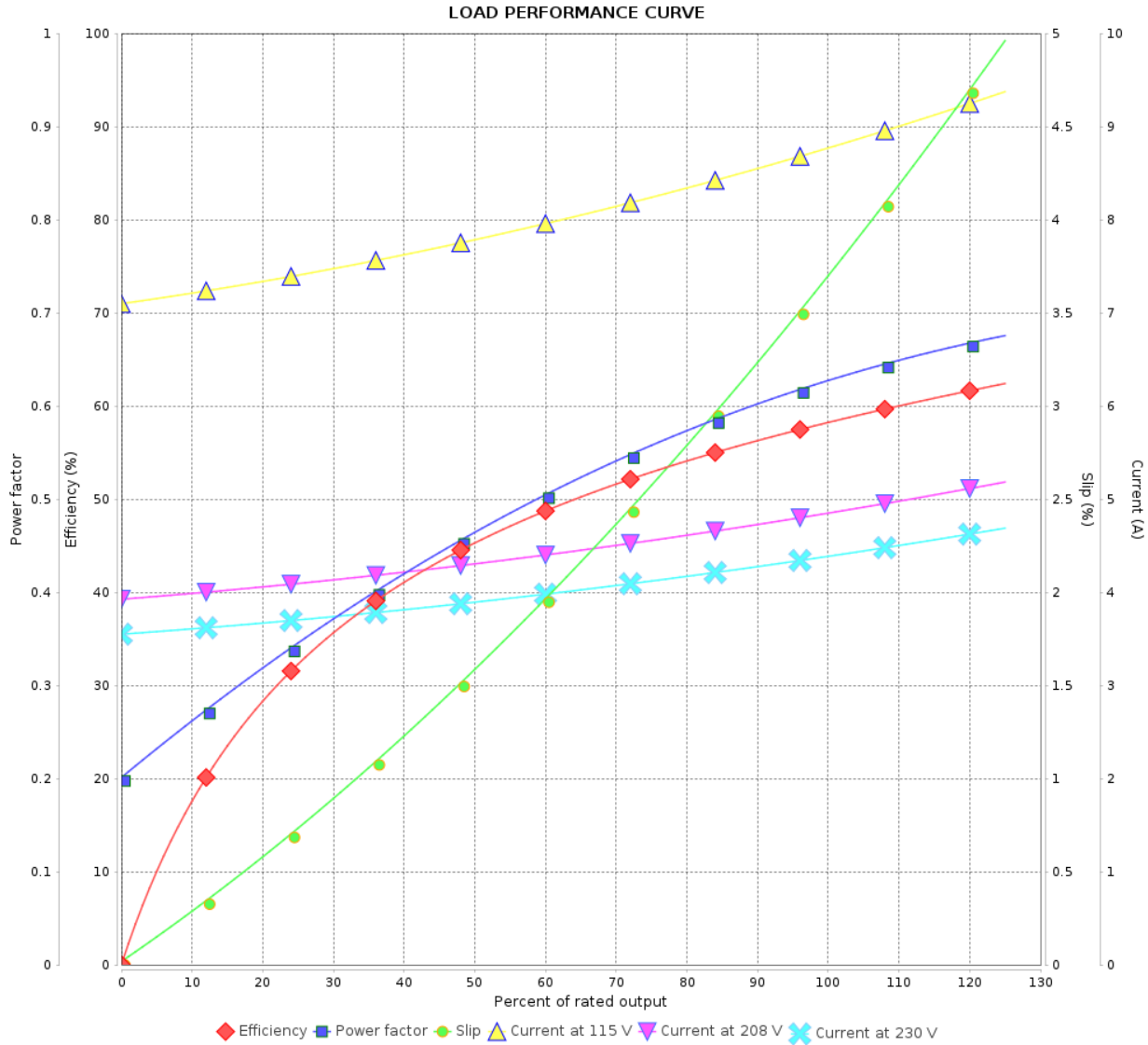
# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Wjet Pump Single-Phase Start Capacitor Product code : 10084016



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

Rated current : 9.30/3.90-4.65 A  
 LRC : 4.6  
 Rated torque : 0.105 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 290 %  
 Rated speed : 3465 rpm

Moment of inertia (J) : 0.0080 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : B  
 Service factor :  
 Temperature rise : 80 K

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