

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 JM Pump Single-Phase Product code : 14314720

|                       |                           |                             |                         |
|-----------------------|---------------------------|-----------------------------|-------------------------|
| Frame                 | : 182/4JM                 | Locked rotor time           | : 14s (cold) 8s (hot)   |
| Output                | : 3 HP (2.2 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         | : 30.2/15.7-15.1 A        | Protection degree           | : IP55                  |
| L. R. Amperes         | : 208/108-104 A           | Cooling method              | : IC411 - TEFC          |
| LRC                   | : 6.9x(Code J)            | Mounting                    | : F-1                   |
| No load current       | : 18.0/7.76-9.00 A        | Rotation <sup>1</sup>       | : Both (CW and CCW)     |
| Rated speed           | : 1745 rpm                | Noise level <sup>2</sup>    | : 60.0 dB(A)            |
| Slip                  | : 3.06 %                  | Vibration                   | : Not Applicable        |
| Rated torque          | : 1 kgfm                  | Starting method             | : Direct On Line        |
| Locked rotor torque   | : 290 %                   | Approx. weight <sup>3</sup> | : 46.5 kg               |
| Breakdown torque      | : 270 %                   |                             | : 207A (ISO 12944 - C3) |
| Insulation class      | : F                       |                             | : RAL 5009              |
| Service factor        | : 1.15                    |                             |                         |
| Moment of inertia (J) | : 0.0157 kgm <sup>2</sup> |                             |                         |

|                |      |      |      |                  |          |
|----------------|------|------|------|------------------|----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 65.0 | 74.0 | 77.0 | Max. traction    | : 46 kgf |
| Power Factor   | 0.74 | 0.80 | 0.82 | Max. compression | : 95 kgf |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6307 ZZ          | 6206 ZZ              |
| Sealing              | : | V'Ring           | V'Ring               |
| Lubrication interval | : | -                | -                    |
| Lubricant amount     | : | -                | -                    |
| Lubricant type       | : | 00088            |                      |

### 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 |                 |           |               |          |
| Checked by   |                 |           |               |          |
| Date         | 25/09/2026      |           | Page<br>1 / 2 | Revision |

# LOAD PERFORMANCE CURVE

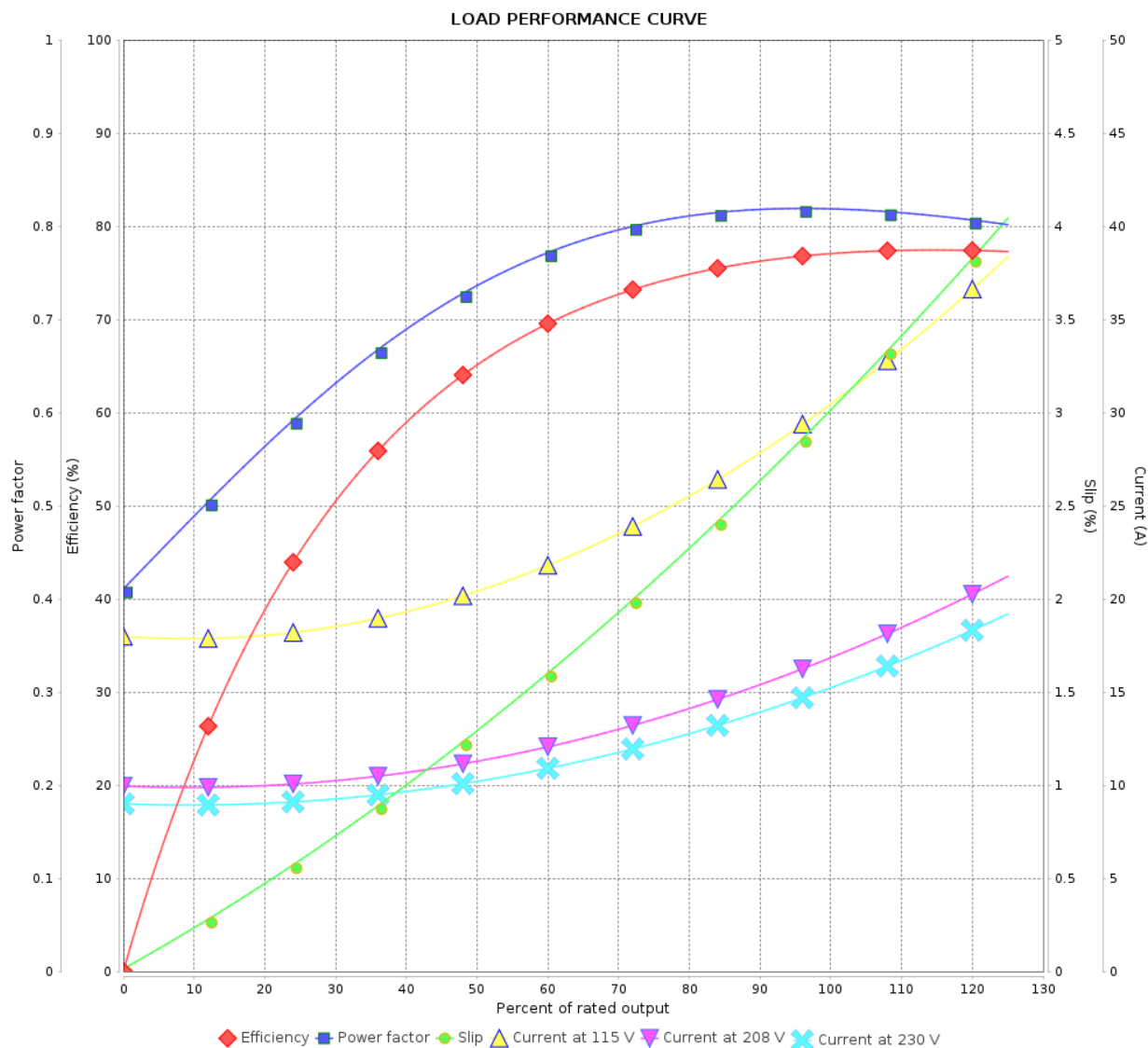
## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 JM Pump Single-Phase

Product code : 14314720



Performance : 115/208-230 V 60 Hz 4P

Rated current : 30.2/15.7-15.1 A  
LRC : 6.9  
Rated torque : 1 kgfm  
Locked rotor torque : 290 %  
Breakdown torque : 270 %  
Rated speed : 1745 rpm

Moment of inertia (J) : 0.0157 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor :  
Temperature rise : 80 K

| Rev.         | Changes Summary |  | Performed | Checked       | Date     |
|--------------|-----------------|--|-----------|---------------|----------|
|              |                 |  |           |               |          |
| Performed by |                 |  |           | Page<br>2 / 2 | Revision |
| Checked by   |                 |  |           |               |          |
| Date         | 25/09/2026      |  |           |               |          |