

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | |
|---|---|------------------------------|---|-----------|----------|
| Customer | : | | | | |
| Product line | : JM Pump NEMA Premium Efficiency Three-Phase | Product code : | 13312539 | | |
| Frame | : 213/5JM | Cooling method | : IC411 - TEFC | | |
| Insulation class | : F | Mounting | : F-1 | | |
| Duty cycle | : Cont.(S1) | Rotation ¹ | : Both (CW and CCW) | | |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line | | |
| Altitude | : 1000 m.a.s.l. | Approx. weight ³ | : 77.0 kg | | |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0303 kgm ² | | |
| Design | : B | | | | |
| Output [HP] | 10 | | | | |
| Poles | 2 | | | | |
| Frequency [Hz] | 60 | | | | |
| Rated voltage [V] | 575 | | | | |
| Rated current [A] | 9.20 | | | | |
| L. R. Amperes [A] | 69.0 | | | | |
| LRC [A] | 7.5x(Code H) | | | | |
| No load current [A] | 3.01 | | | | |
| Rated speed [RPM] | 3530 | | | | |
| Slip [%] | 1.94 | | | | |
| Rated torque [kgfm] | 2.06 | | | | |
| Locked rotor torque [%] | 260 | | | | |
| Breakdown torque [%] | 300 | | | | |
| Service factor | 1.15 | | | | |
| Temperature rise | 80 K | | | | |
| Locked rotor time | 21s (cold) 12s (hot) | | | | |
| Noise level ² | 70.0 dB(A) | | | | |
| Efficiency (%) | 25% | 89.3 | | | |
| | 50% | 89.5 | | | |
| | 75% | 90.2 | | | |
| | 100% | 90.2 | | | |
| Power Factor | 25% | 0.53 | | | |
| | 50% | 0.80 | | | |
| | 75% | 0.88 | | | |
| | 100% | 0.91 | | | |
| Bearing type | : <u>Drive end</u> 6209 ZZ | <u>Non drive end</u> 6206 ZZ | Foundation loads | | |
| Sealing | : V'Ring | V'Ring | Max. traction | : 75 kgf | |
| Lubrication interval | : - | - | Max. compression | : 152 kgf | |
| Lubricant amount | : - | - | | | |
| Lubricant type | : Mobil Polyrex EM | | | | |
| Notes | | | | | |
| <p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p> | | | <p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p> | | |
| Rev. | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 16/05/2022 | | | 1 / 2 | |

LOAD PERFORMANCE CURVE

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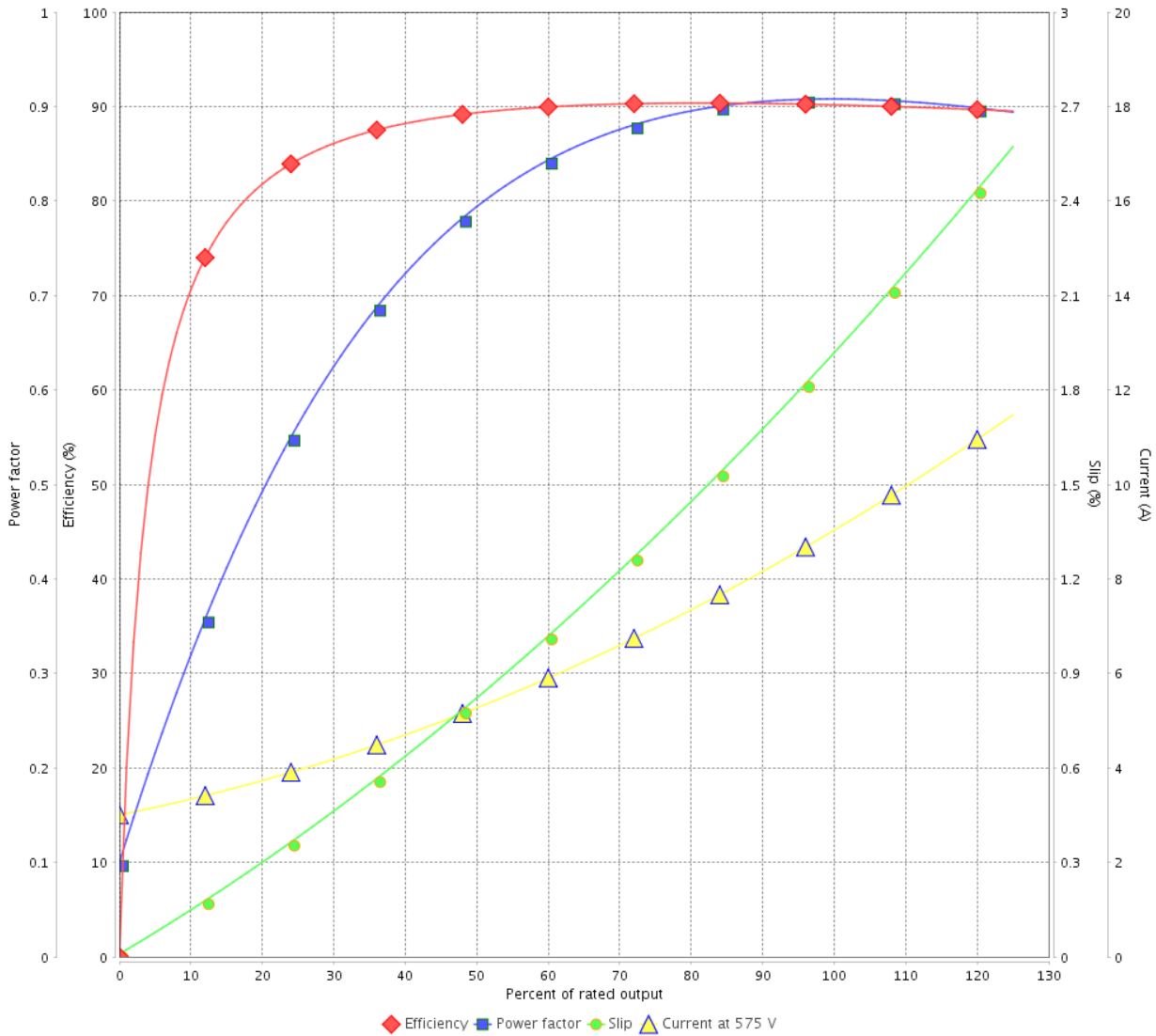


Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13312539

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current : 9.20 A
LRC : 7.5
Rated torque : 2.06 kgfm
Locked rotor torque : 260 %
Breakdown torque : 300 %
Rated speed : 3530 rpm

Moment of inertia (J) : 0.0303 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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