

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | |
|--|---|--|---------|----------|
| Customer | : | | | |
| Product line | : JM Pump NEMA Premium Efficiency Three-Phase | Product code : 13439527 | | |
| Frame | : 254/6JM | 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 : 111 kg | | |
| Protection degree | : IP55 | Moment of inertia (J) : 0.0551 kgm ² | | |
| Design | : A | | | |
| Output [HP] | 25 | | | |
| Poles | 2 | | | |
| Frequency [Hz] | 60 | | | |
| Rated voltage [V] | 230/460 | | | |
| Rated current [A] | 57.0/28.5 | | | |
| L. R. Amperes [A] | 473/237 | | | |
| LRC [A] | 8.3x(Code J) | | | |
| No load current [A] | 20.1/10.0 | | | |
| Rated speed [RPM] | 3530 | | | |
| Slip [%] | 1.94 | | | |
| Rated torque [kgfm] | 5.14 | | | |
| Locked rotor torque [%] | 240 | | | |
| Breakdown torque [%] | 340 | | | |
| Service factor | 1.15 | | | |
| Temperature rise | 80 K | | | |
| Locked rotor time | 14s (cold) 8s (hot) | | | |
| Noise level ² | 75.0 dB(A) | | | |
| Efficiency (%) | 25% | | | |
| | 50% | 91.0 | | |
| | 75% | 91.7 | | |
| | 100% | 91.7 | | |
| Power Factor | 25% | | | |
| | 50% | 0.77 | | |
| | 75% | 0.85 | | |
| | 100% | 0.89 | | |
| Bearing type | : <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 6208 Z C3 | Foundation loads | | |
| Sealing | : V'Ring Without Bearing Seal | Max. traction : 219 kgf | | |
| Lubrication interval | : 15797 h 20000 h | Max. compression : 330 kgf | | |
| Lubricant amount | : 13 g 8 g | | | |
| Lubricant type | : Mobil Polyrex EM | | | |
| Notes USABLE @208V 63.0A SF 1.00 SFA 63.0A | | | | |
| 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 | | | Page | Revision |
| Date | 17/05/2022 | | 1 / | |

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

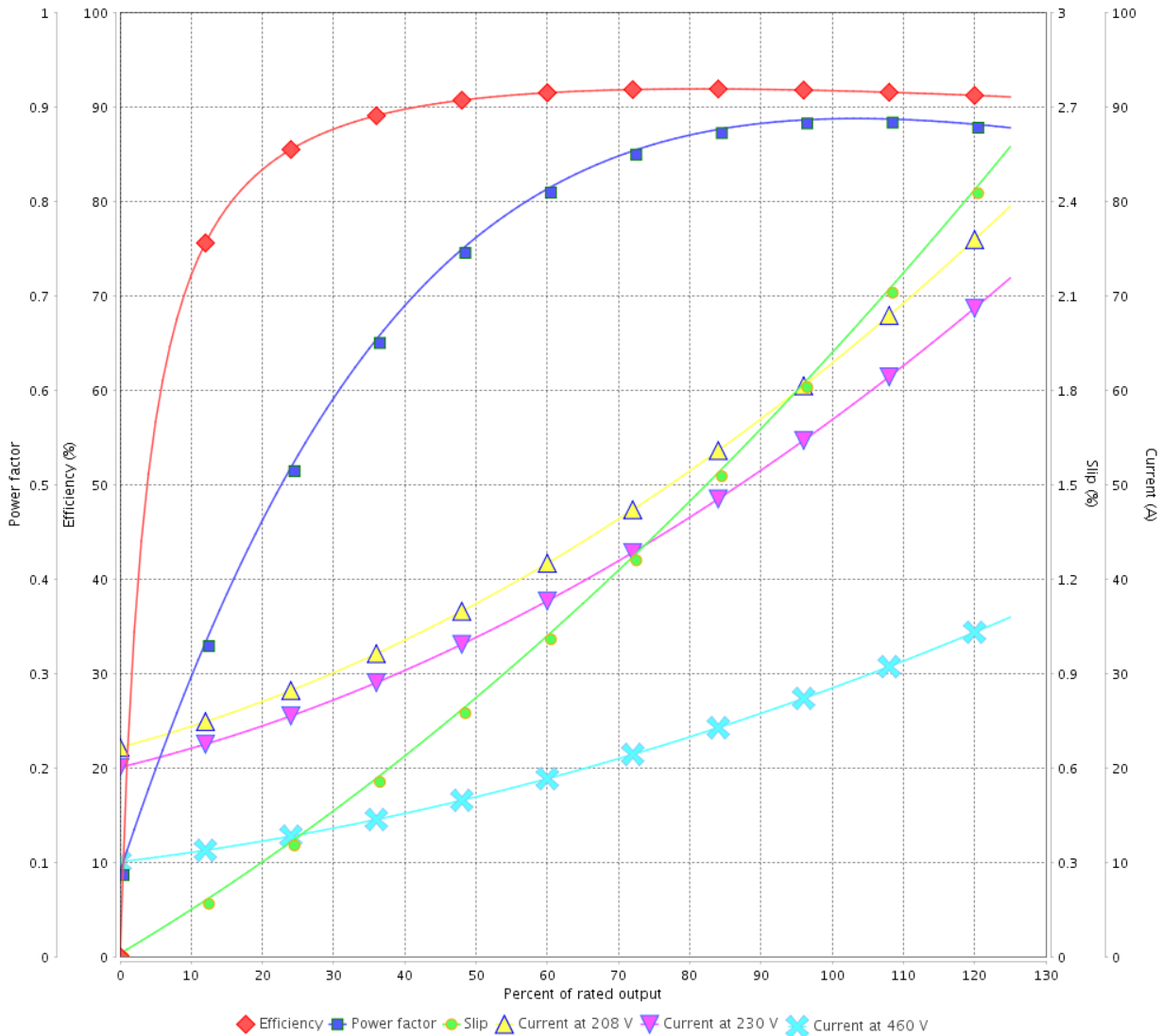


Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13439527

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 57.0/28.5 A
 LRC : 8.3
 Rated torque : 5.14 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 340 %
 Rated speed : 3530 rpm

Moment of inertia (J) : 0.0551 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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