# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |

| | | | |
|---|---|---|---|
| Product line | : JM Pump NEMA Premium Efficiency Three-Phase | Product code : | 13405269 |

| | | | |
|---|---|---|---|
| Frame | : 143/5JM | Cooling method | : IC01 - ODP |
| Insulation class | : F | Mounting | : W-6 |
| 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] | : 16.2 kg |
| Design | : B | Moment of inertia (J) | : 0.0046 kgm² |

| | | | | |
|---|---|---|---|---|
| Output [HP] | | 1 | 1 | 1 |
| Poles | | 4 | 4 | 4 |
| Frequency [Hz] | | 60 | 50 | 50 |
| Rated voltage [V] | | 230/460 | 190-220/380 | 415 |
| Rated current [A] | | 3.02/1.51 | 3.44-2.97/1.72 | 1.67 |
| L. R. Amperes [A] | | 24.2/12.1 | 22.4-19.3/11.2 | 12.5 |
| LRC [A] | | 8.0x(Code L) | 6.5x(Code J) | 7.5x(Code L) |
| No load current [A] | | 1.92/0.958 | 1.88-1.63/0.942 | 1.09 |
| Rated speed [RPM] | | 1760 | 1445 | 1455 |
| Slip [%] | | 2.22 | 3.67 | 3.00 |
| Rated torque [kgfm] | | 0.412 | 0.502 | 0.499 |
| Locked rotor torque [%] | | 290 | 200 | 250 |
| Breakdown torque [%] | | 360 | 270 | 330 |
| Service factor | | | 1.15 | 1.15 |
| Temperature rise | | 80 K | 80 K | 80 K |
| Locked rotor time | | 39s (cold) 22s (hot) | 0s (cold) 0s (hot) | 0s (cold) 0s (hot) |
| Noise level[2] | | 52.0 dB(A) | 49.0 dB(A) | 49.0 dB(A) |
| Efficiency (%) | 25% | | | |
| | 50% | 81.5 | 81.9 | 80.1 |
| | 75% | 84.0 | 83.4 | 82.9 |
| | 100% | 85.5 | 82.6 | 83.2 |
| Power Factor | 25% | | | |
| | 50% | 0.51 | 0.59 | 0.52 |
| | 75% | 0.65 | 0.73 | 0.66 |
| | 100% | 0.73 | 0.80 | 0.75 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6206 ZZ | 6203 ZZ |
| Sealing | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | Mobil Polyrex EM | |

Foundation loads
Max. traction : 39 kgf
Max. compression : 55 kgf

Notes
USABLE @208V 3.34A SF 1.00 SFA 3.34A

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 |
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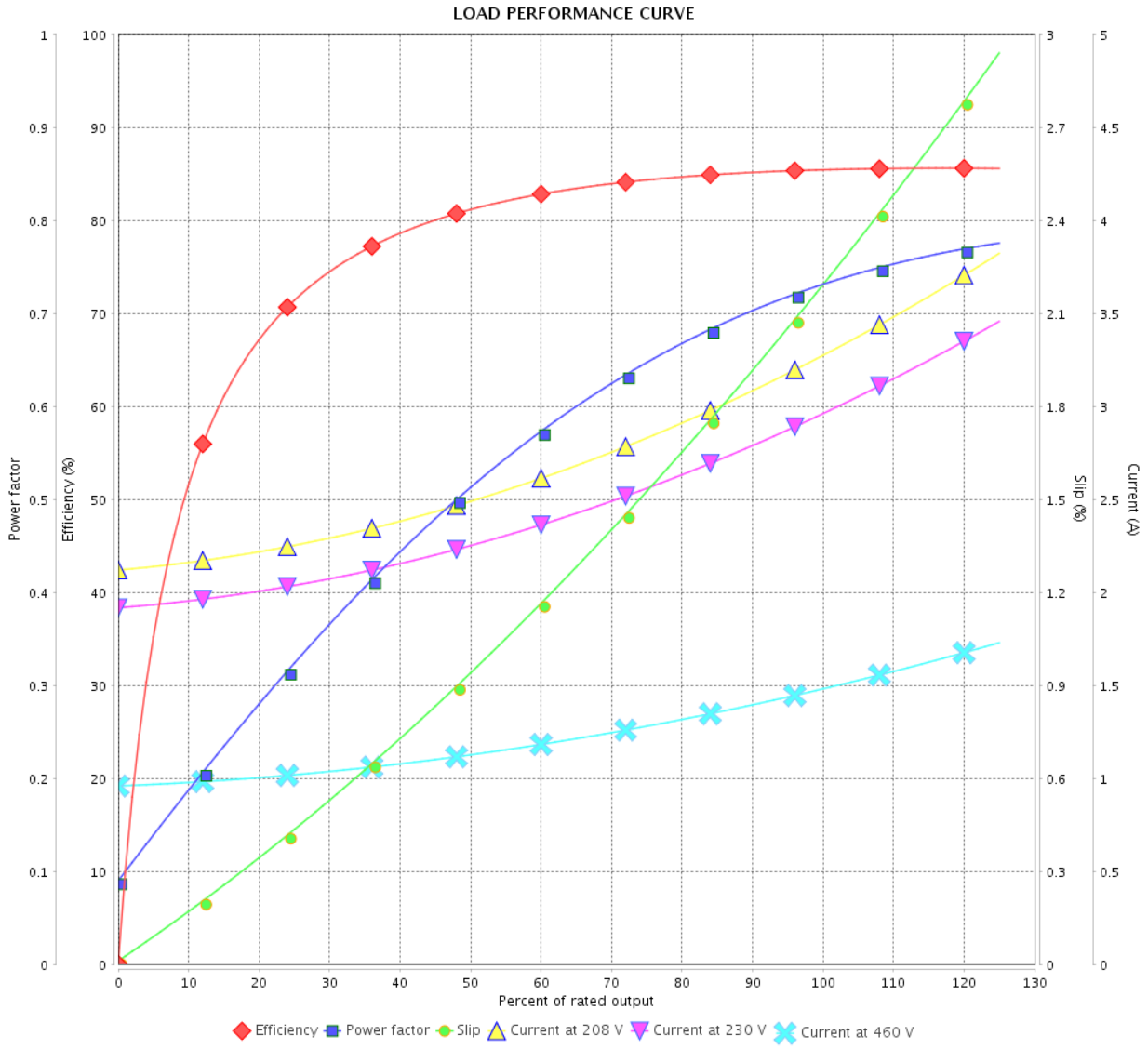
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
| Customer | : | | |
| Product line | : JM Pump NEMA Premium Efficiency Three-Phase | Product code : | 13405269 |




| | | | |
|---|---|---|---|
| Performance | : 230/460 V 60 Hz 4P | | |
| Rated current | : 3.02/1.51 A | Moment of inertia (J) | : 0.0046 kgm² |
| LRC | : 8.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.412 kgfm | Insulation class | : F |
| Locked rotor torque | : 290 % | Service factor | : |
| Breakdown torque | : 360 % | Temperature rise | : 80 K |
| Rated speed | : 1760 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
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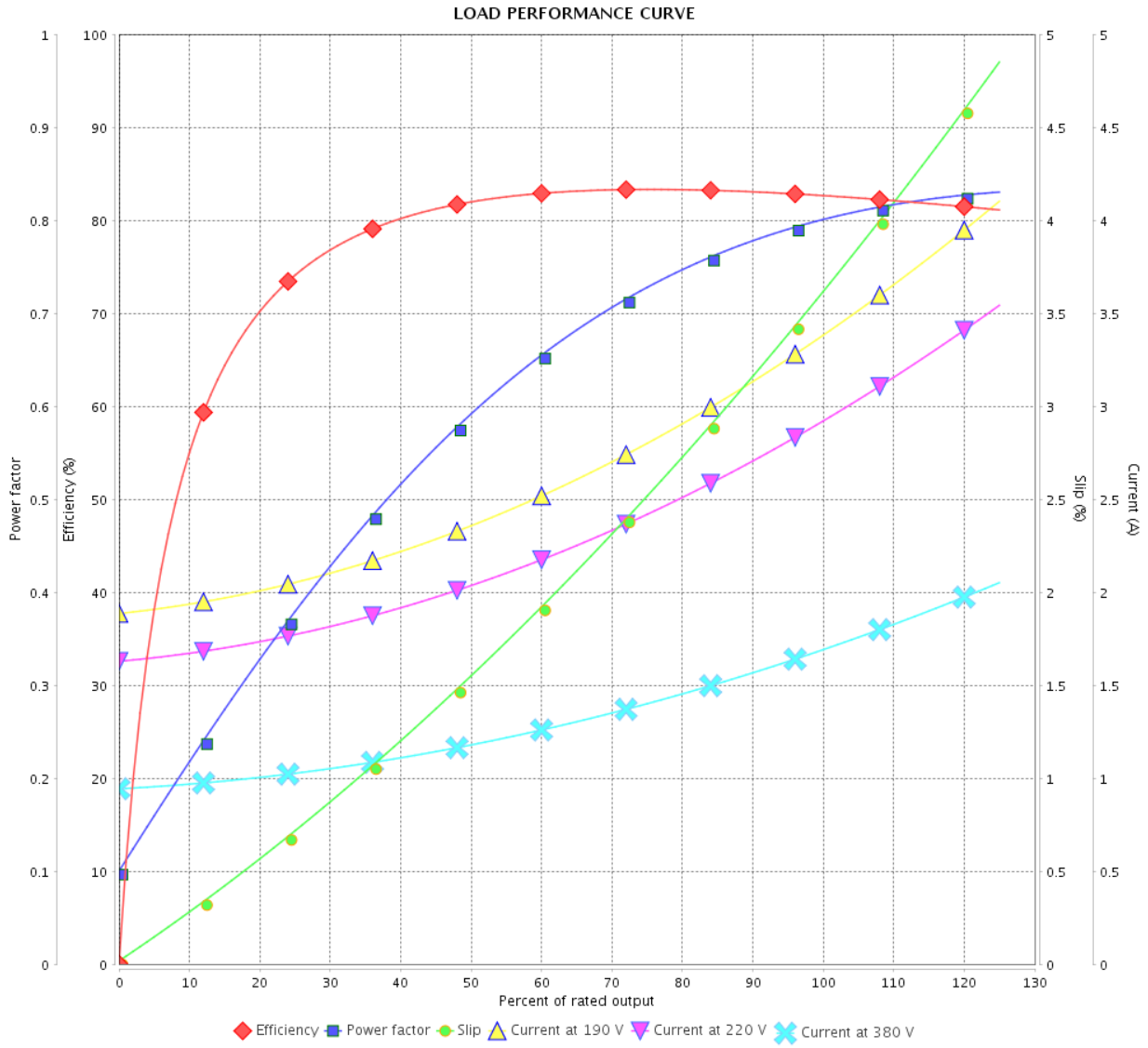
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

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|---|---|---|---|
| Customer | : | | |
| Product line | : JM Pump NEMA Premium Efficiency Three-Phase | Product code : | 13405269 |




| | | | |
|---|---|---|---|
| Performance | : 190-220/380 V 50 Hz 4P | | |
| Rated current | : 3.44-2.97/1.72 A | Moment of inertia (J) | : 0.0046 kgm² |
| LRC | : 6.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.502 kgfm | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.15 |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 1445 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
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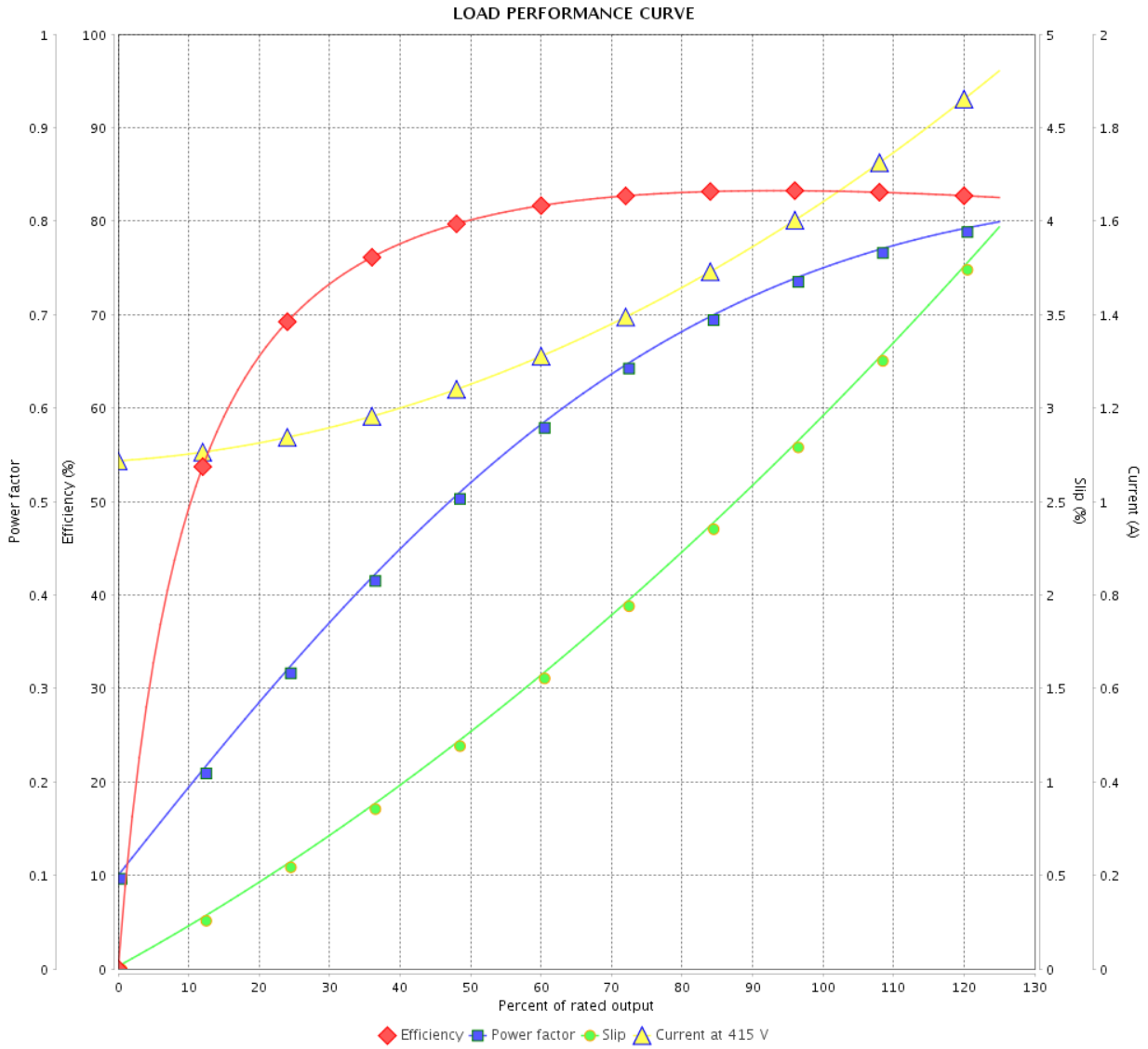
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

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|---|---|---|---|
| Customer | : | | |
| Product line | : JM Pump NEMA Premium Efficiency Three-Phase | Product code : | 13405269 |




| | | | |
|---|---|---|---|
| Performance | : 415 V 50 Hz 4P | | |
| Rated current | : 1.67 A | Moment of inertia (J) | : 0.0046 kgm² |
| LRC | : 7.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.499 kgfm | Insulation class | : F |
| Locked rotor torque | : 250 % | Service factor | : 1.15 |
| Breakdown torque | : 330 % | Temperature rise | : 80 K |
| Rated speed | : 1455 rpm | Design | : B |

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