# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

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

| | | | |
|---|---|---|---|
| Product line | : Jet Pump - C type Standard Efficiency Three-Phase | Product code : | 13917951 |

| | | | |
|---|---|---|---|
| Frame | : 56C | Cooling method | : IC01 - ODP |
| Insulation class | : F | Mounting | : F-1 |
| Duty cycle | : Cont.(S1) | Rotation¹ | : CCW |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line |
| Altitude | : 1000 m.a.s.l. | Approx. weight³ | : 15.0 kg |
| Design | : A | Moment of inertia (J) | : 0.0040 kgm² |

| | | | | |
|---|---|---|---|---|
| Output [HP] | | 3 | 2 | 2 |
| Poles | | 2 | 2 | 2 |
| Frequency [Hz] | | 60 | 50 | 50 |
| Rated voltage [V] | | 230/460 | 190/380 | 220/415 |
| Rated current [A] | | 7.78/3.89 | 6.30/3.15 | 6.02/3.19 |
| L. R. Amperes [A] | | 54.5/27.2 | 48.5/24.3 | 51.1/27.1 |
| LRC [A] | | 7.0x(Code J) | 7.7x(Code J) | 8.5x(Code L) |
| No load current [A] | | 3.20/1.60 | 3.20/1.60 | 4.15/2.20 |
| Rated speed [RPM] | | 3450 | 2875 | 2900 |
| Slip [%] | | 4.17 | 4.17 | 3.33 |
| Rated torque [kgfm] | | 0.631 | 0.505 | 0.501 |
| Locked rotor torque [%] | | 220 | 260 | 320 |
| Breakdown torque [%] | | 250 | 300 | 360 |
| Service factor | | | 1.15 | 1.15 |
| Temperature rise | | 80 K | 80 K | 80 K |
| Locked rotor time | | 14s (cold) 8s (hot) | 0s (cold) 0s (hot) | 0s (cold) 0s (hot) |
| Noise level² | | 62.0 dB(A) | 60.0 dB(A) | 60.0 dB(A) |
| Efficiency (%) | 25% | | | |
| | 50% | 80.0 | 81.0 | 76.8 |
| | 75% | 81.5 | 82.8 | 80.7 |
| | 100% | 81.5 | 82.2 | 81.7 |
| Power Factor | 25% | | | |
| | 50% | 0.70 | 0.69 | 0.56 |
| | 75% | 0.82 | 0.82 | 0.71 |
| | 100% | 0.87 | 0.88 | 0.80 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6203 2RS | 6202 2RS |
| Sealing | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | Mobil Polyrex EM | |

Foundation loads
Max. traction : 50 kgf
Max. compression : 65 kgf

Notes
USABLE @208V 8.60A SF 1.00 SFA 8.60A

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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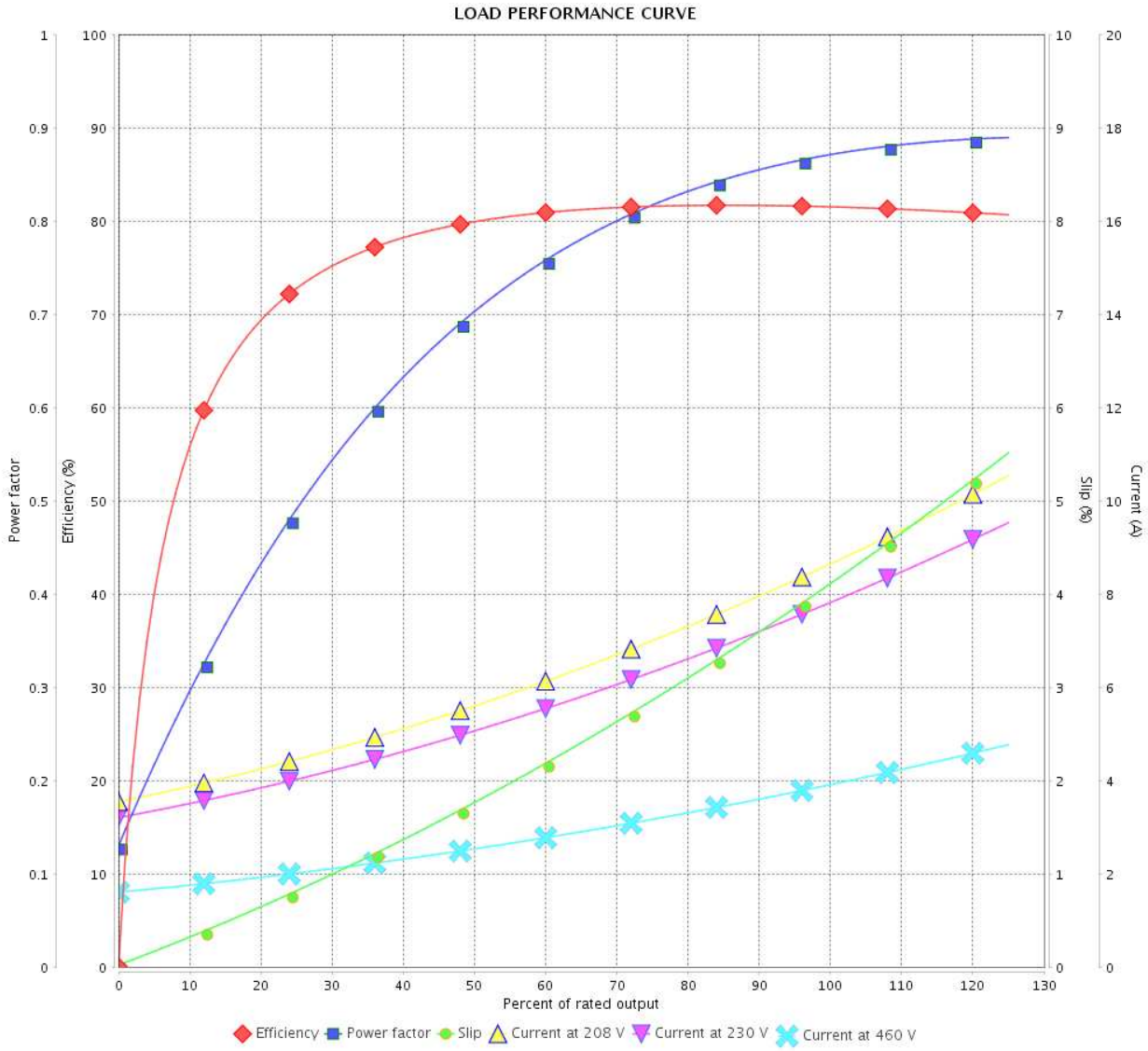
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

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|---|---|---|---|
| Customer | : | | |
| Product line | : Jet Pump - C type Standard Efficiency Three-Phase | Product code : | 13917951 |




| | | | |
|---|---|---|---|
| Performance | : 230/460 V 60 Hz 2P | | |
| Rated current | : 7.78/3.89 A | Moment of inertia (J) | : 0.0040 kgm² |
| LRC | : 7.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.631 kgfm | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : |
| Breakdown torque | : 250 % | Temperature rise | : 80 K |
| Rated speed | : 3450 rpm | Design | : A |

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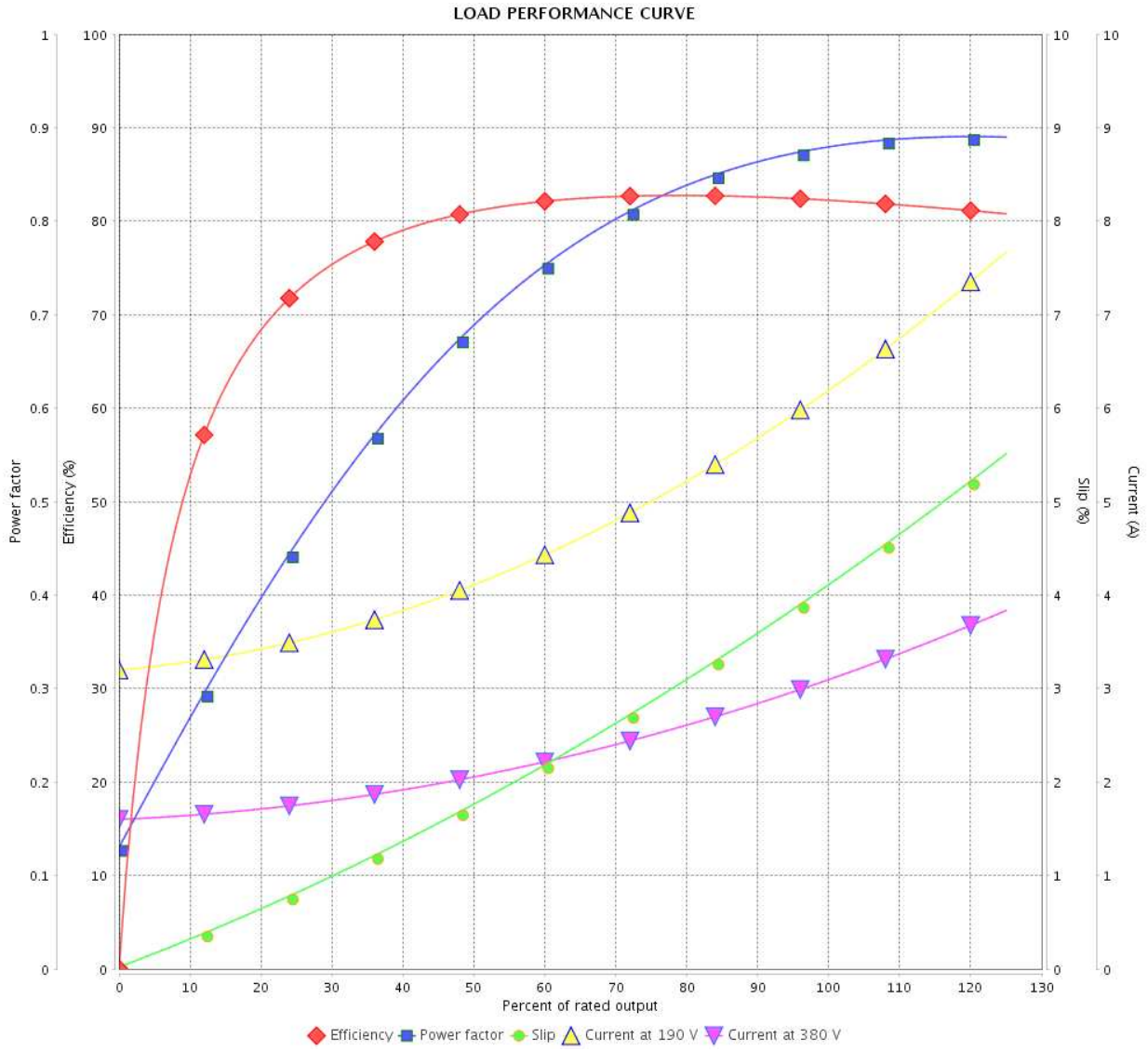
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| | | | |
|---|---|---|---|
| Performance | : 190/380 V 50 Hz 2P | | |
| Rated current | : 6.30/3.15 A | Moment of inertia (J) | : 0.0040 kgm² |
| LRC | : 7.7 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.505 kgfm | Insulation class | : F |
| Locked rotor torque | : 260 % | Service factor | : 1.15 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 2875 rpm | Design | : A |

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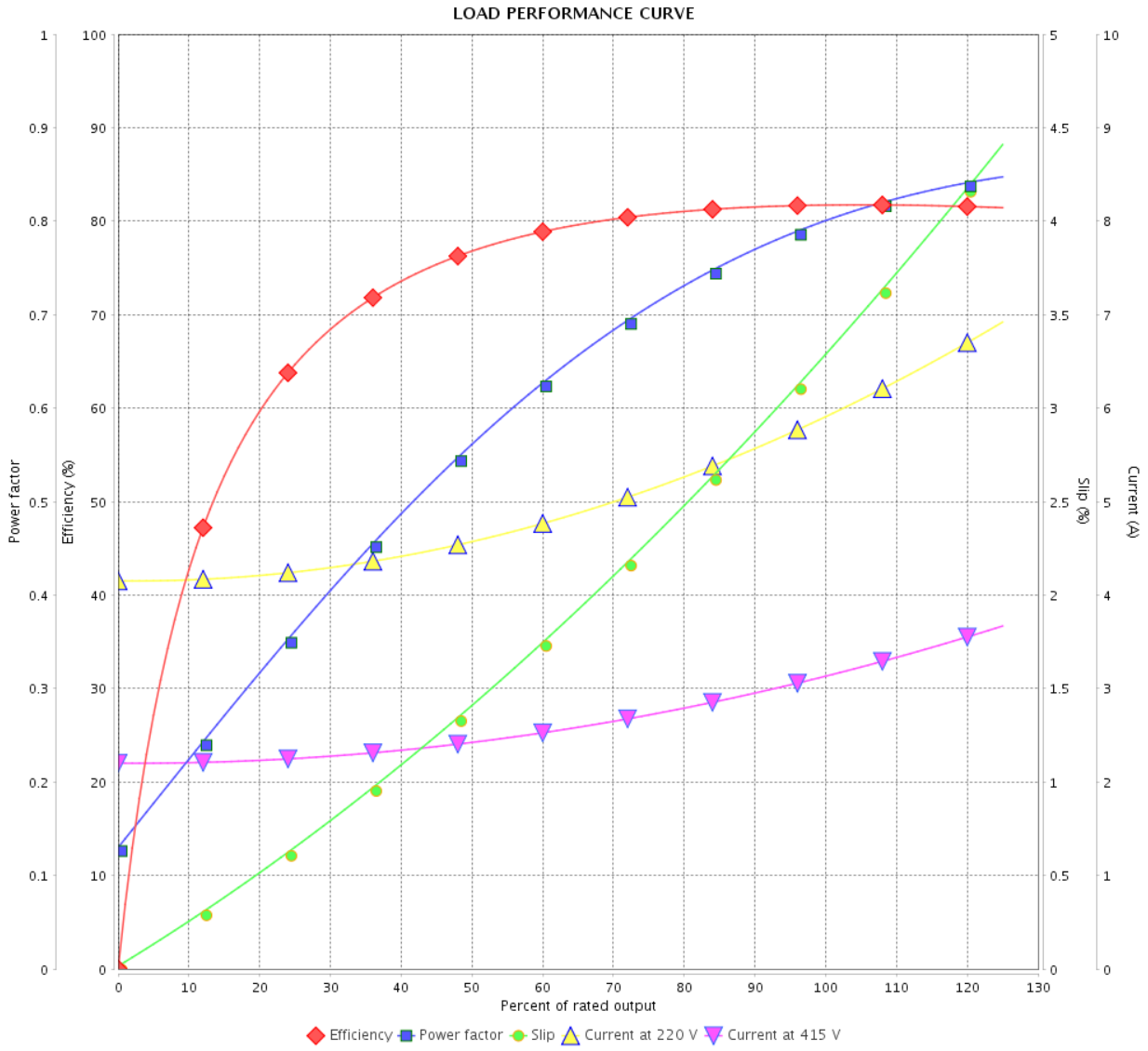
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# LOAD PERFORMANCE CURVE

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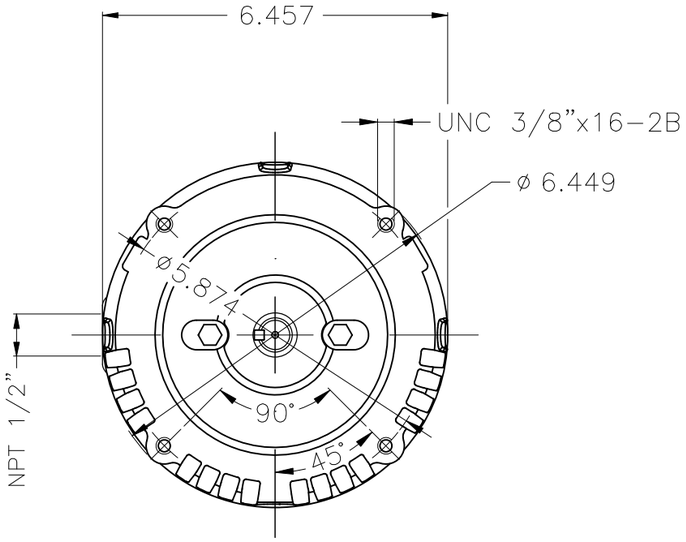


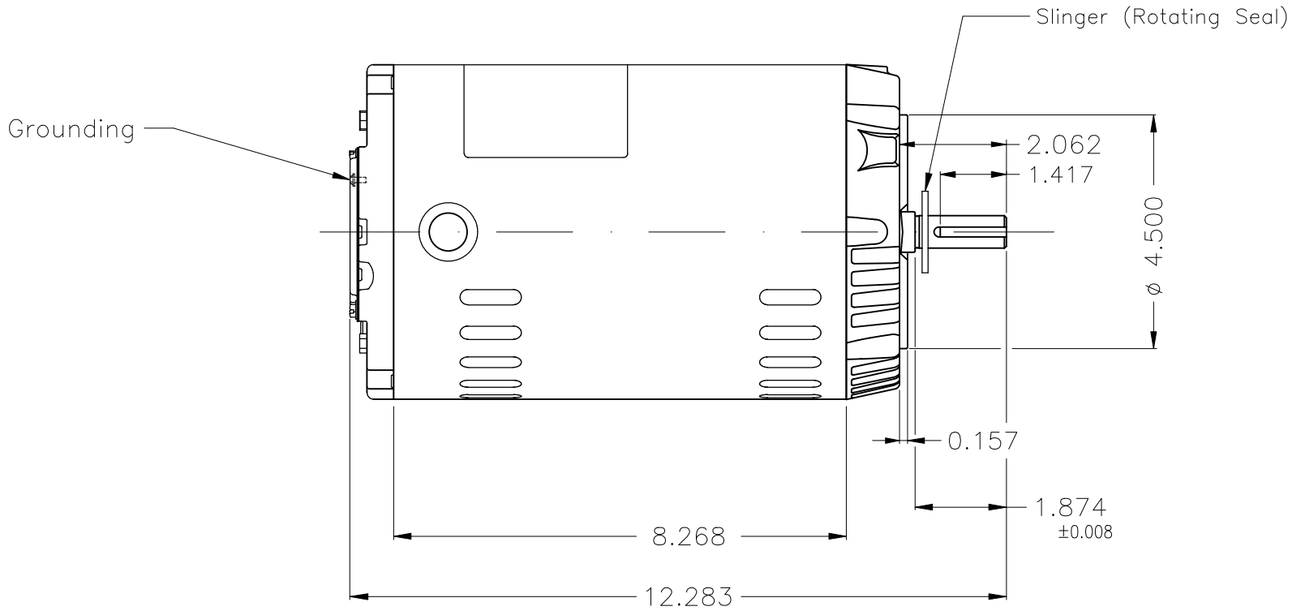

| | | | |
|---|---|---|---|
| Performance | : 220/415 V 50 Hz 2P | | |
| Rated current | : 6.02/3.19 A | Moment of inertia (J) | : 0.0040 kgm² |
| LRC | : 8.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.501 kgfm | Insulation class | : F |
| Locked rotor torque | : 320 % | Service factor | : 1.15 |
| Breakdown torque | : 360 % | Temperature rise | : 80 K |
| Rated speed | : 2900 rpm | Design | : A |

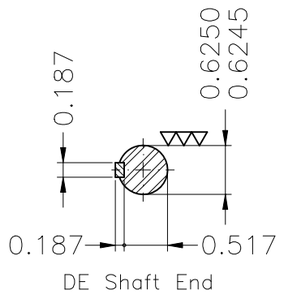
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Color Munsell N 1 matte black

Painting plan 207N

Mounting F-1/B14R(D)

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|---|---|---|---|---|---|---|---|
| | | | HYBRISUSER | | | | 00 |

| | | | | |
|---|---|---|---|---|
| EXECUTED | HYBRISUSER | THREE PH. MOTOR ROLLED STEEL JET PUMP KEYED | PREVIEW | |
| CHECKED | | FRAME 56C IP21 ODP | WDD | 00 |
| RELEASED | | | | |
| REL. DATE | | WMO Jaragua do Sul Product Engineering | SHEET | 1 / 1 |

3 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

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