# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 12675365

| | | | |
|---|---|---|---|
| Frame | : 182/4TC | 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] | : 32.4 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0130 kgm² |
| Design | : B | | |

| | | | | |
|---|---|---|---|---|
| Output [HP] | | 5 | 4 | 4 |
| Poles | | 4 | 4 | 4 |
| Frequency [Hz] | | 60 | 50 | 50 |
| Rated voltage [V] | | 230/460 | 190-220/380 | 415 |
| Rated current [A] | | 13.0/6.49 | 12.8-11.1/6.42 | 6.33 |
| L. R. Amperes [A] | | 90.9/45.4 | 91.2-78.7/45.6 | 48.7 |
| LRC [A] | | 7.0x(Code J) | 7.1x(Code J) | 7.7x(Code K) |
| No load current [A] | | 6.88/3.44 | 6.74-5.82/3.37 | 3.77 |
| Rated speed [RPM] | | 1750 | 1440 | 1450 |
| Slip [%] | | 2.78 | 4.00 | 3.33 |
| Rated torque [kgfm] | | 2 | 2 | 2 |
| Locked rotor torque [%] | | 220 | 210 | 250 |
| Breakdown torque [%] | | 300 | 290 | 330 |
| Service factor | | 1.15 | 1.00 | 1.00 |
| Temperature rise | | 80 K | 80 K | 80 K |
| Locked rotor time | | 21s (cold) 12s (hot) | 23s (cold) 13s (hot) | 21s (cold) 12s (hot) |
| Noise level[2] | | 56.0 dB(A) | 53.0 dB(A) | 53.0 dB(A) |
| Efficiency (%) | 25% | 0.000 | 0.000 | 0.000 |
| | 50% | 88.5 | 87.6 | 86.4 |
| | 75% | 89.5 | 87.9 | 87.5 |
| | 100% | 89.5 | 87.7 | 87.7 |
| Power Factor | 25% | 0.00 | 0.00 | 0.00 |
| | 50% | 0.60 | 0.60 | 0.55 |
| | 75% | 0.73 | 0.74 | 0.69 |
| | 100% | 0.80 | 0.81 | 0.78 |

Losses at normative operating points (speed;torque), in percentage of rated output power

| | | | | |
|---|---|---|---|---|
| Losses (%) | P1 (0,9;1,0) | 14.1 | 15.1 | 15.5 |
| | P2 (0,5;1,0) | 13.1 | 14.2 | 14.5 |
| | P3 (0,25;1,0) | 12.9 | 13.9 | 14.2 |
| | P4 (0,9;0,5) | 6.6 | 7.2 | 7.3 |
| | P5 (0,5;0,5) | 5.1 | 5.5 | 5.6 |
| | P6 (0,5;0,25) | 3.6 | 3.8 | 3.9 |
| | P7 (0,25;0,25) | 2.8 | 3.0 | 3.1 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6206 ZZ | 6205 ZZ |
| Sealing | : | V'Ring | Without Bearing Seal |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | Mobil Polyrex EM | |

Foundation loads

Max. traction : 120 kgf

Max. compression : 157 kgf

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).

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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| Checked by | | | Page | Revision |
| Date | 23/09/2026 | | 1 / 5 | |

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# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 14.4A SF 1.00 SFA 14.4A

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| Date | 23/09/2026 | | 2 / 5 | |

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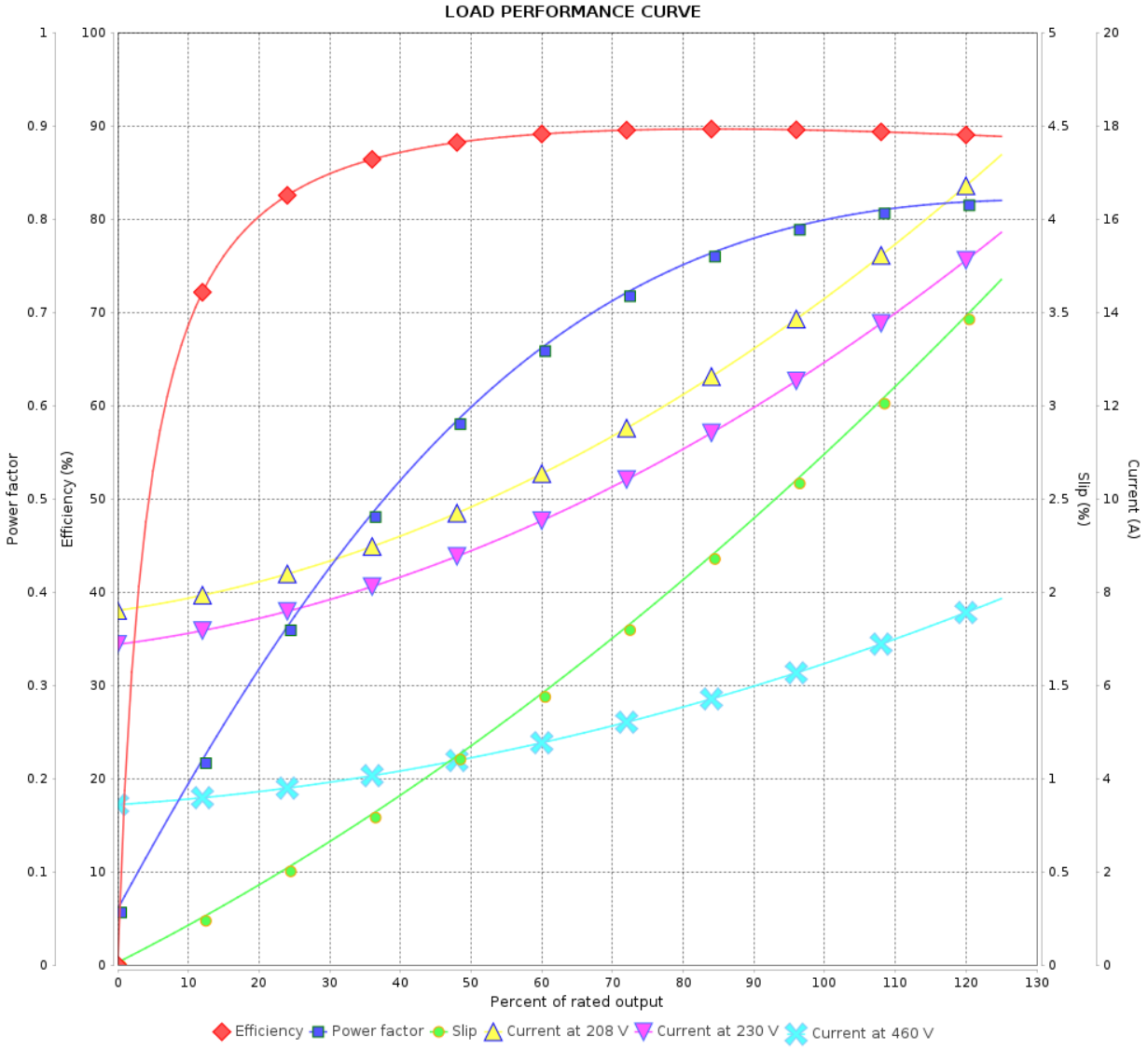
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 12675365




| | | | |
|---|---|---|---|
| Performance | : 230/460 V 60 Hz 4P | | |
| Rated current | : 13.0/6.49 A | Moment of inertia (J) | : 0.0130 kgm² |
| LRC | : 7.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 2 kgfm | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.15 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 1750 rpm | Design | : B |

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

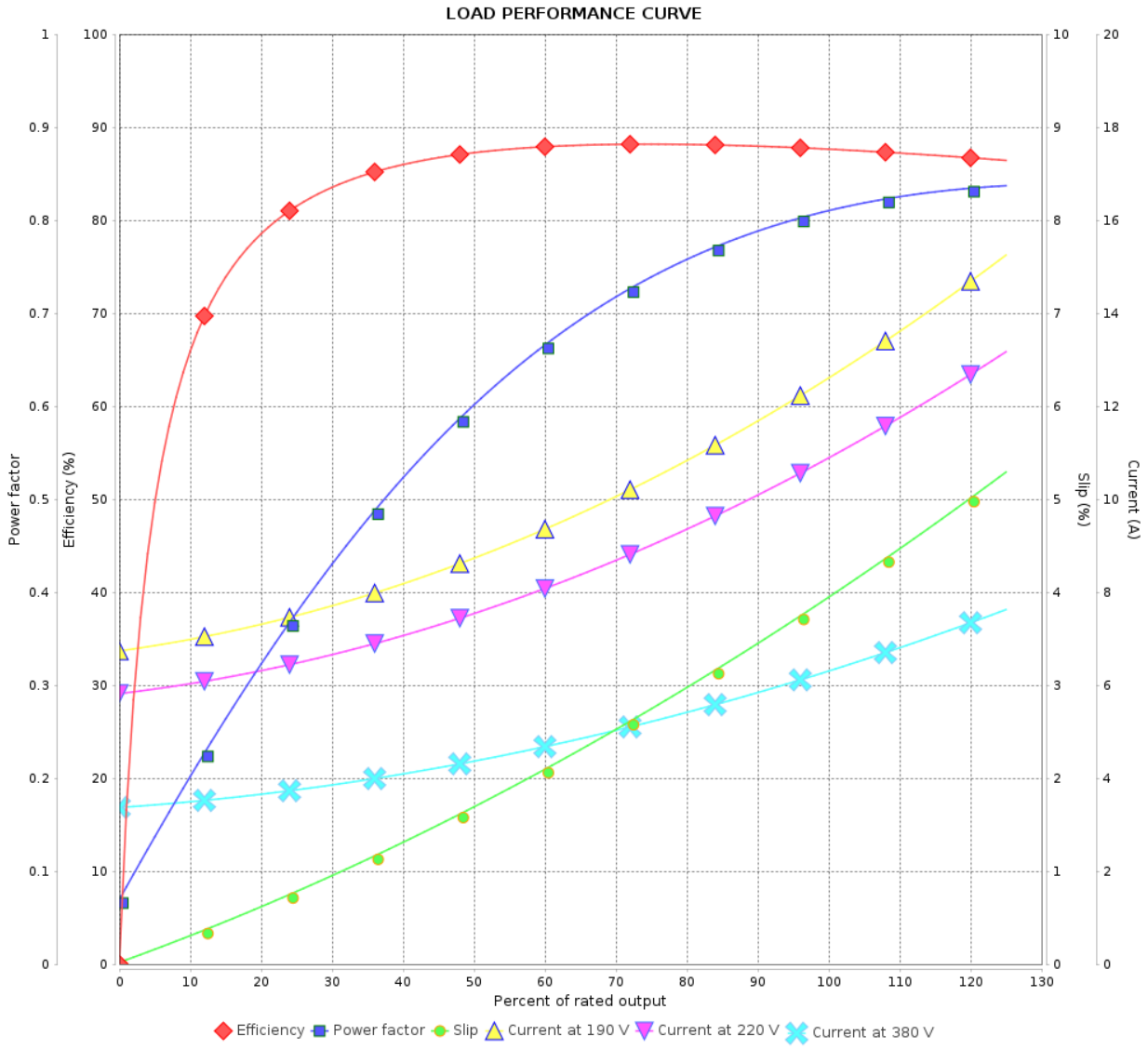
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| Date | 23/09/2026 | | 3 / 5 | |

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
| Customer | : | | |
| Product line | : Rolled Steel NEMA Premium Efficiency Three-Phase | Product code : | 12675365 |




| | | | |
|---|---|---|---|
| Performance | : 190-220/380 V 50 Hz 4P | | |
| Rated current | : 12.8-11.1/6.42 A | Moment of inertia (J) | : 0.0130 kgm² |
| LRC | : 7.1 | Duty cycle | : Cont.(S1) |
| Rated torque | : 2 kgfm | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 290 % | Temperature rise | : 80 K |
| Rated speed | : 1440 rpm | Design | : B |

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| Date | 23/09/2026 | | 4 / 5 | |

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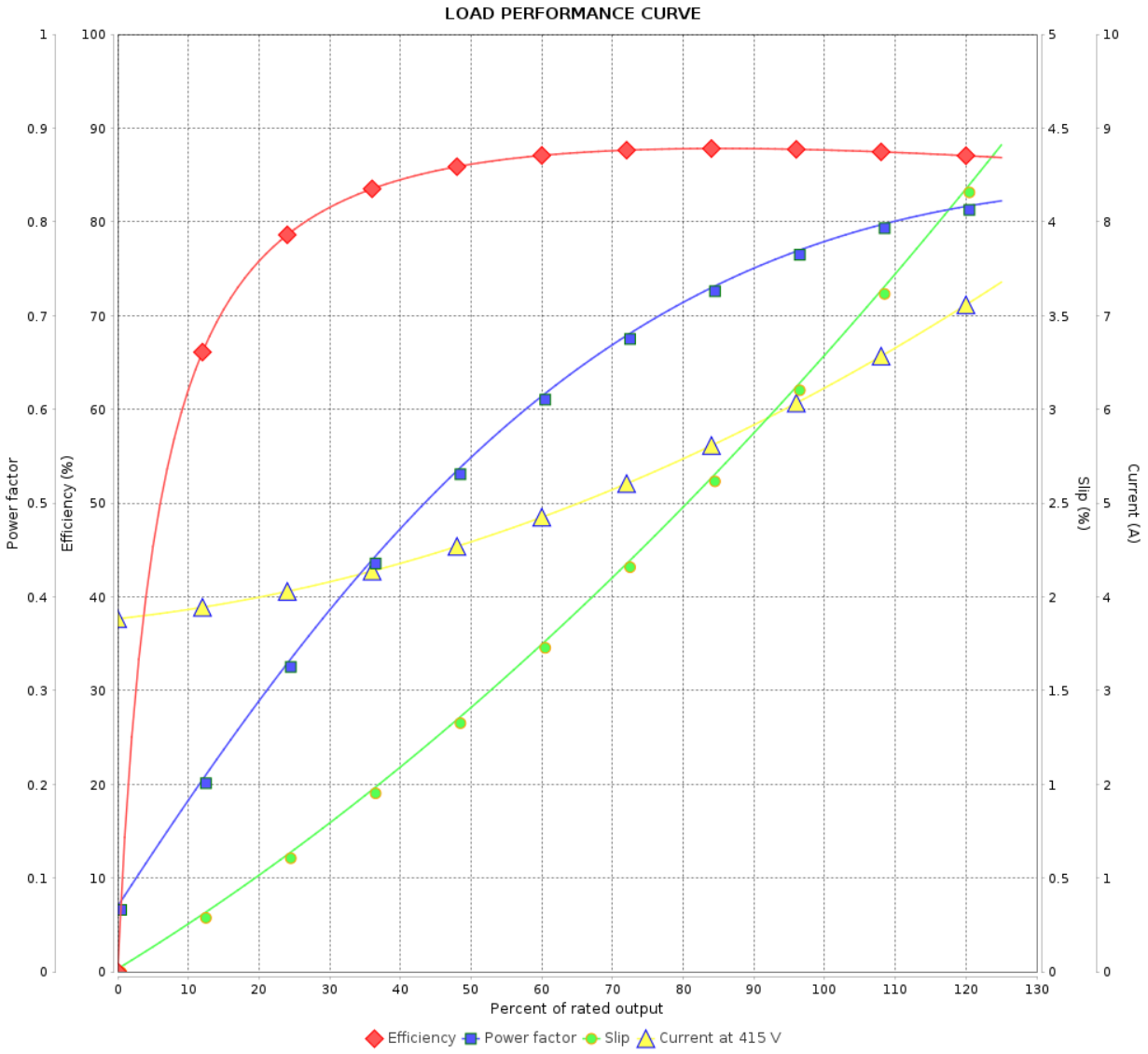
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 12675365




| | | | |
|---|---|---|---|
| Performance | : 415 V 50 Hz 4P | | |
| Rated current | : 6.33 A | Moment of inertia (J) | : 0.0130 kgm² |
| LRC | : 7.7 | Duty cycle | : Cont.(S1) |
| Rated torque | : 2 kgfm | Insulation class | : F |
| Locked rotor torque | : 250 % | Service factor | : 1.00 |
| Breakdown torque | : 330 % | Temperature rise | : 80 K |
| Rated speed | : 1450 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
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| Date | 23/09/2026 | | 5 / 5 | |

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