# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 13129040

| | | | |
|---|---|---|---|
| Frame | : 324HP | Cooling method | : IC411 - TEFC |
| Insulation class | : F | Mounting | : W-6 |
| Duty cycle | : Cont.(S1) | Rotation¹ | : Both (CW and CCW) |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line |
| Altitude | : 1000 m.a.s.l. | Approx. weight³ | : 223 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.3861 kgm² |
| Design | : B | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Output [HP] | | 40 | 30 | 30 | 30 | 40 | 40 | 40 |
| Poles | | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Frequency [Hz] | | 60 | 50 | 50 | 50 | 50 | 50 | 50 |
| Rated voltage [V] | | 230/460 | 380 | 400 | 415 | 380 | 400 | 415 |
| Rated current [A] | | 94.2/47.1 | 42.8 | 41.5 | 41.1 | 57.4 | 57.4 | 52.8 |
| L. R. Amperes [A] | | 574/287 | 291 | 307 | 316 | 287 | 287 | 317 |
| LRC [A] | | 6.1x(Code G) | 6.8x(Code H) | 7.4x(Code J) | 7.7x(Code J) | 5.0x(Code E) | 5.0x(Code E) | 6.0x(Code G) |
| No load current [A] | | 34.6/17.3 | 16.8 | 18.0 | 19.0 | 16.8 | 16.8 | 19.0 |
| Rated speed [RPM] | | 1775 | 1477 | 1480 | 1480 | 1460 | 1460 | 1470 |
| Slip [%] | | 1.39 | 1.53 | 1.33 | 1.33 | 2.67 | 2.67 | 2.00 |
| Rated torque [kgfm] | | 16 | 14 | 14 | 14 | 19 | 19 | 19 |
| Locked rotor torque [%] | | 229 | 240 | 270 | 280 | 170 | 170 | 210 |
| Breakdown torque [%] | | 240 | 260 | 290 | 310 | 200 | 200 | 229 |
| Service factor | | 1.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Temperature rise | | 80 K | 80 K | 80 K | 80 K | 105 K | 105 K | 105 K |
| Locked rotor time | | 36s (cold) 20s (hot) | 25s (cold) 14s (hot) | 27s (cold) 15s (hot) | 27s (cold) 15s (hot) | 19s (cold) 11s (hot) | 19s (cold) 11s (hot) | 23s (cold) 13s (hot) |
| Noise level² | | 66.0 dB(A) | 63.0 dB(A) | 63.0 dB(A) | 63.0 dB(A) | 63.0 dB(A) | 63.0 dB(A) | 63.0 dB(A) |
| Efficiency (%) | 25% | 0.000 | | | | 0.000 | 0.000 | |
| | 50% | 93.6 | 92.9 | 92.4 | 91.7 | 93.6 | 93.6 | 93.0 |
| | 75% | 94.1 | 93.1 | 93.0 | 92.6 | 93.0 | 93.0 | 93.0 |
| | 100% | 94.1 | 93.0 | 93.2 | 93.1 | 92.4 | 92.4 | 93.0 |
| Power Factor | 25% | 0.00 | | | | 0.00 | 0.00 | |
| | 50% | 0.72 | 0.68 | 0.64 | 0.62 | 0.77 | 0.77 | 0.72 |
| | 75% | 0.80 | 0.78 | 0.75 | 0.73 | 0.84 | 0.84 | 0.80 |
| | 100% | 0.85 | 0.84 | 0.82 | 0.80 | 0.86 | 0.86 | 0.85 |

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Losses (%) | P1 (0,9;1,0) | 6.2 | 7.5 | 7.3 | 7.4 | 8.2 | 8.2 | 7.5 |
| | P2 (0,5;1,0) | 5.4 | 6.5 | 6.3 | 6.4 | 7.1 | 7.1 | 6.5 |
| | P3 (0,25;1,0) | 4.9 | 5.9 | 5.7 | 5.8 | 6.5 | 6.5 | 5.9 |
| | P4 (0,9;0,5) | 2.8 | 3.4 | 3.2 | 3.3 | 3.7 | 3.7 | 3.4 |
| | P5 (0,5;0,5) | 2.0 | 2.4 | 2.4 | 2.4 | 2.7 | 2.7 | 2.4 |
| | P6 (0,5;0,25) | 1.3 | 1.5 | 1.5 | 1.5 | 1.6 | 1.6 | 1.5 |
| | P7 (0,25;0,25) | 0.9 | 1.1 | 1.0 | 1.1 | 1.2 | 1.2 | 1.1 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6314 C3 | 6212 C3 |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | 12000 h | 15000 h |
| Lubricant amount | : | 27 g | 13 g |
| Lubricant type | : | Mobil Polyrex EM | |

Foundation loads

Max. traction : 0 kgf

Max. compression : 0 kgf

This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.

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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# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 104A SF 1.15 SFA 120A

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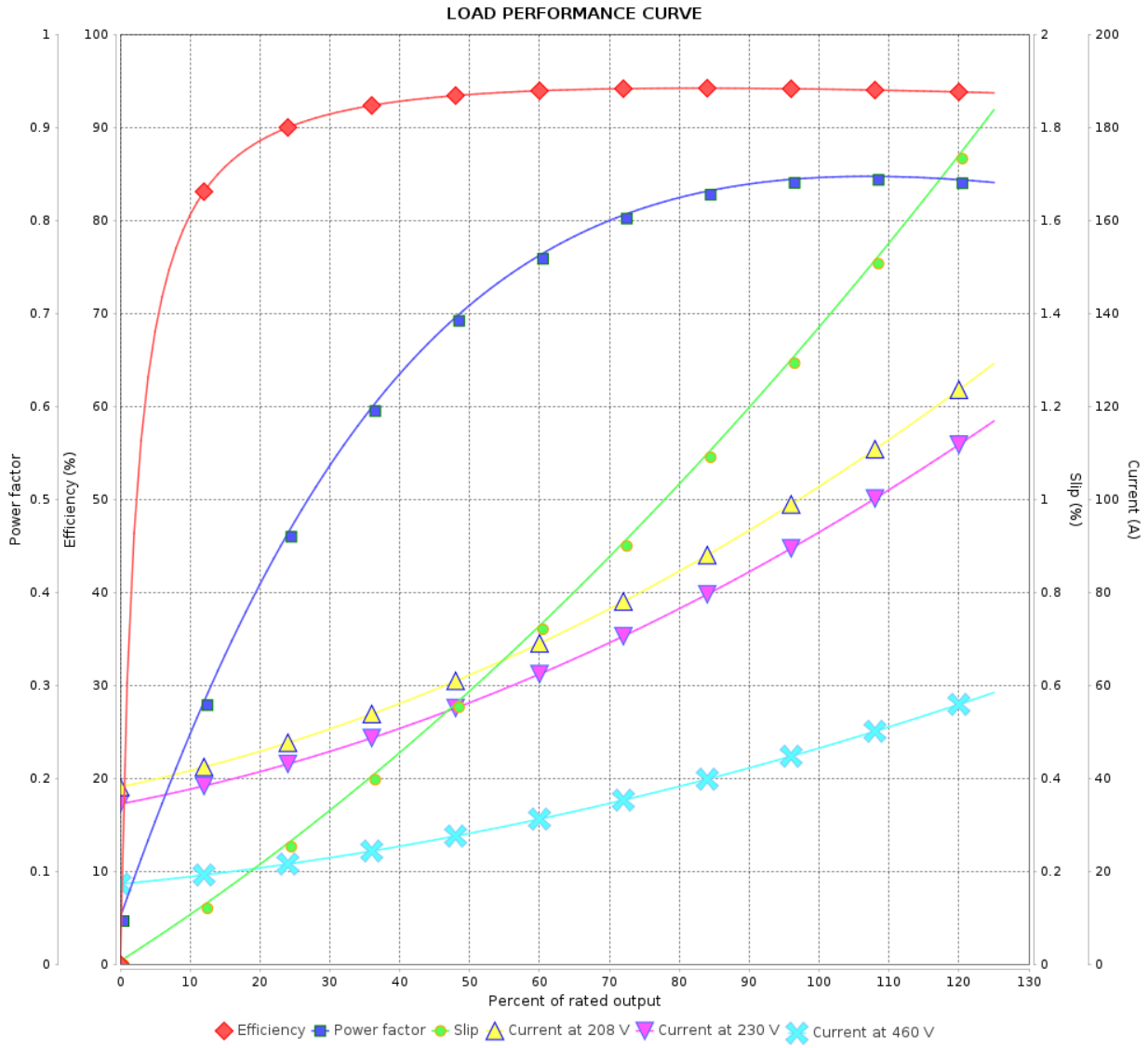
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 P Base NEMA Premium Efficiency Three-Phase |
| Product code : | 13129040 |




| | | | |
|---|---|---|---|
| Performance | : 230/460 V 60 Hz 4P | | |
| Rated current | : 94.2/47.1 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 6.1 | Duty cycle | : Cont.(S1) |
| Rated torque | : 16 kgfm | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.25 |
| Breakdown torque | : 240 % | Temperature rise | : 80 K |
| Rated speed | : 1775 rpm | Design | : B |

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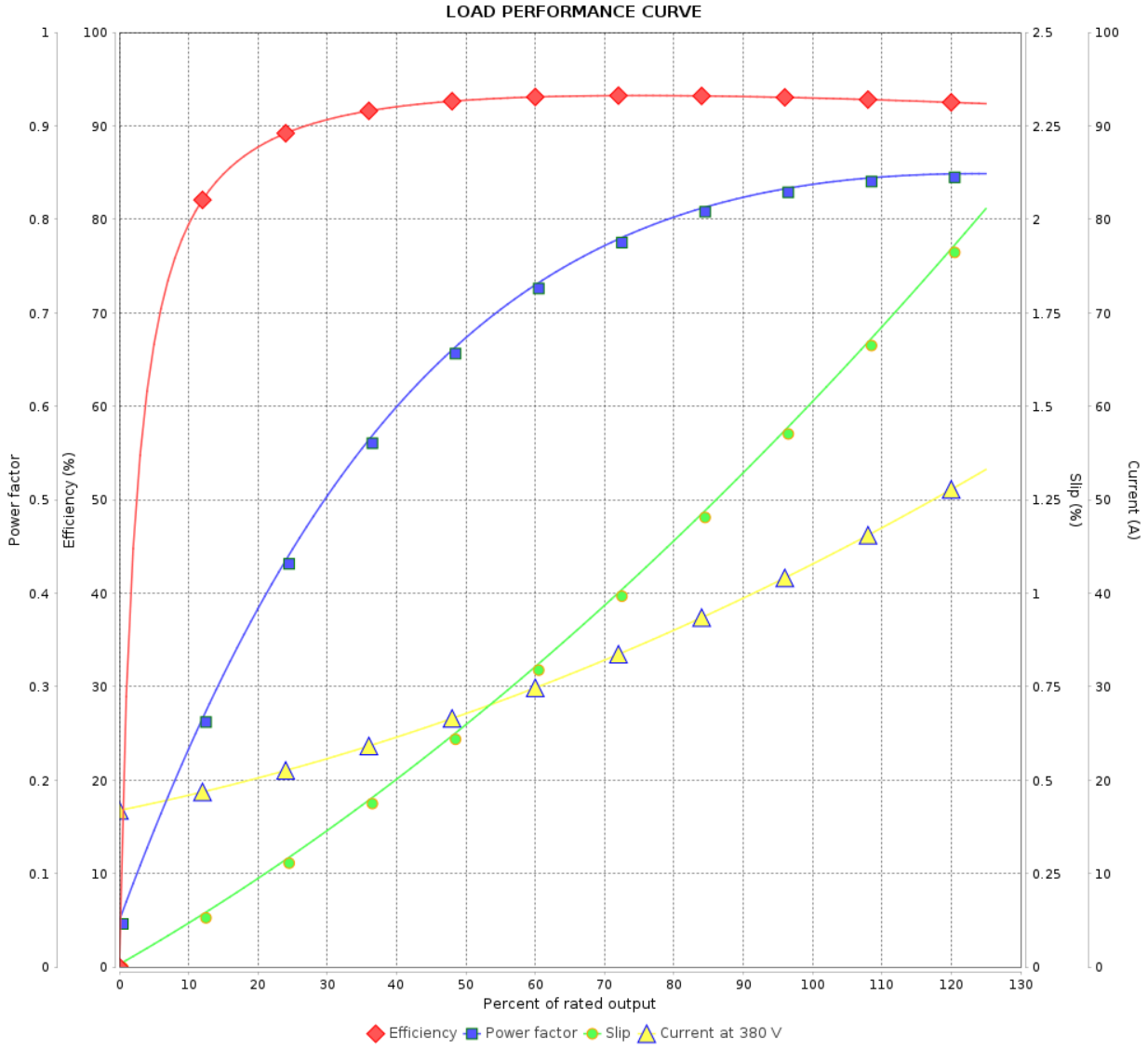
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
| Customer | : | | |
| Product line | : W22 P Base NEMA Premium Efficiency Three-Phase | Product code : | 13129040 |




| | | | |
|---|---|---|---|
| Performance | : 380 V 50 Hz 4P IE3 | | |
| Rated current | : 42.8 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 6.8 | Duty cycle | : Cont.(S1) |
| Rated torque | : 14 kgfm | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.00 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 1477 rpm | Design | : B |

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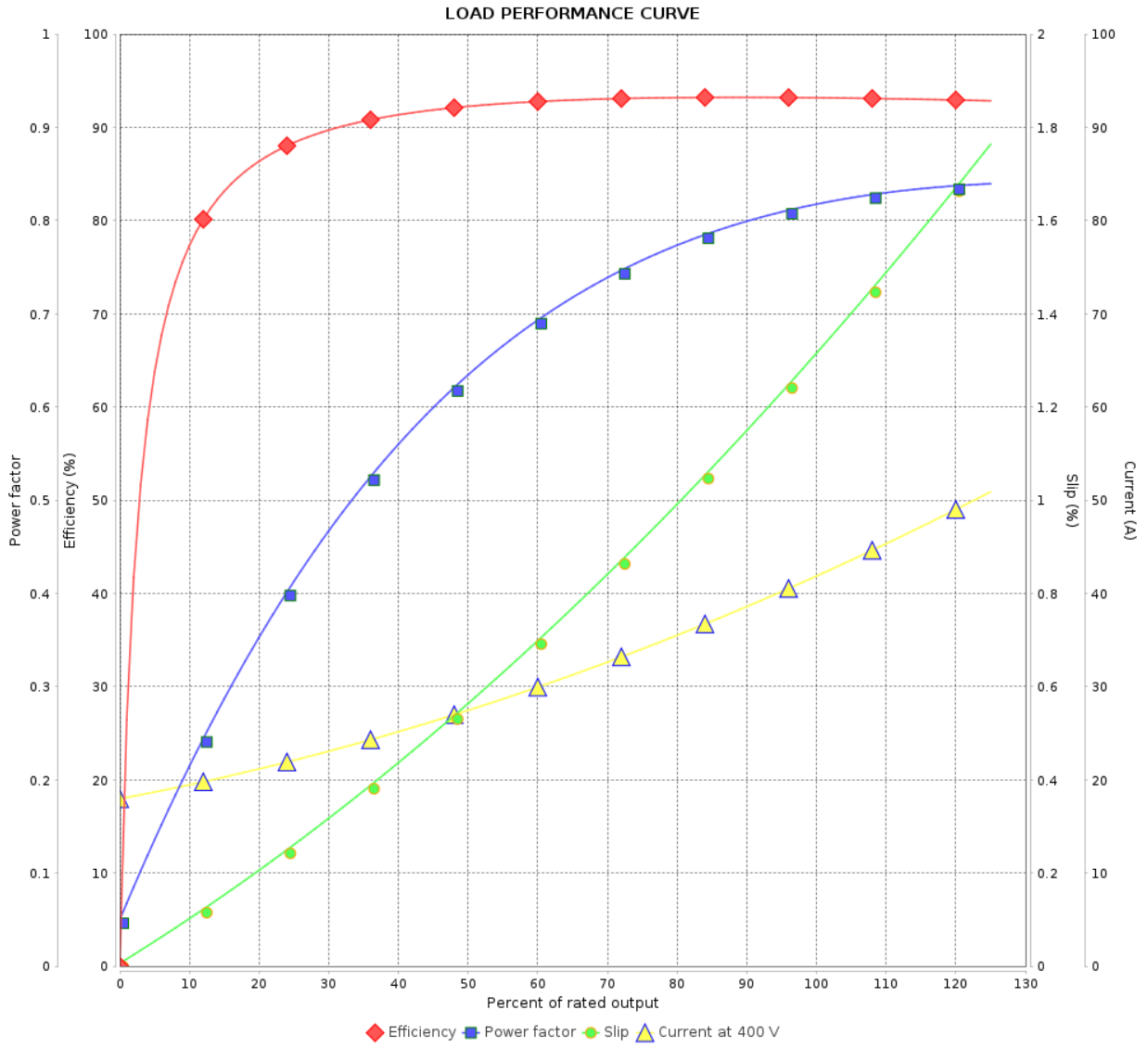
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
| Customer | : | | |
| Product line | : W22 P Base NEMA Premium Efficiency Three-Phase | Product code : | 13129040 |




| | | | |
|---|---|---|---|
| Performance | : 400 V 50 Hz 4P IE3 | | |
| Rated current | : 41.5 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 7.4 | Duty cycle | : Cont.(S1) |
| Rated torque | : 14 kgfm | Insulation class | : F |
| Locked rotor torque | : 270 % | Service factor | : 1.00 |
| Breakdown torque | : 290 % | Temperature rise | : 80 K |
| Rated speed | : 1480 rpm | Design | : B |

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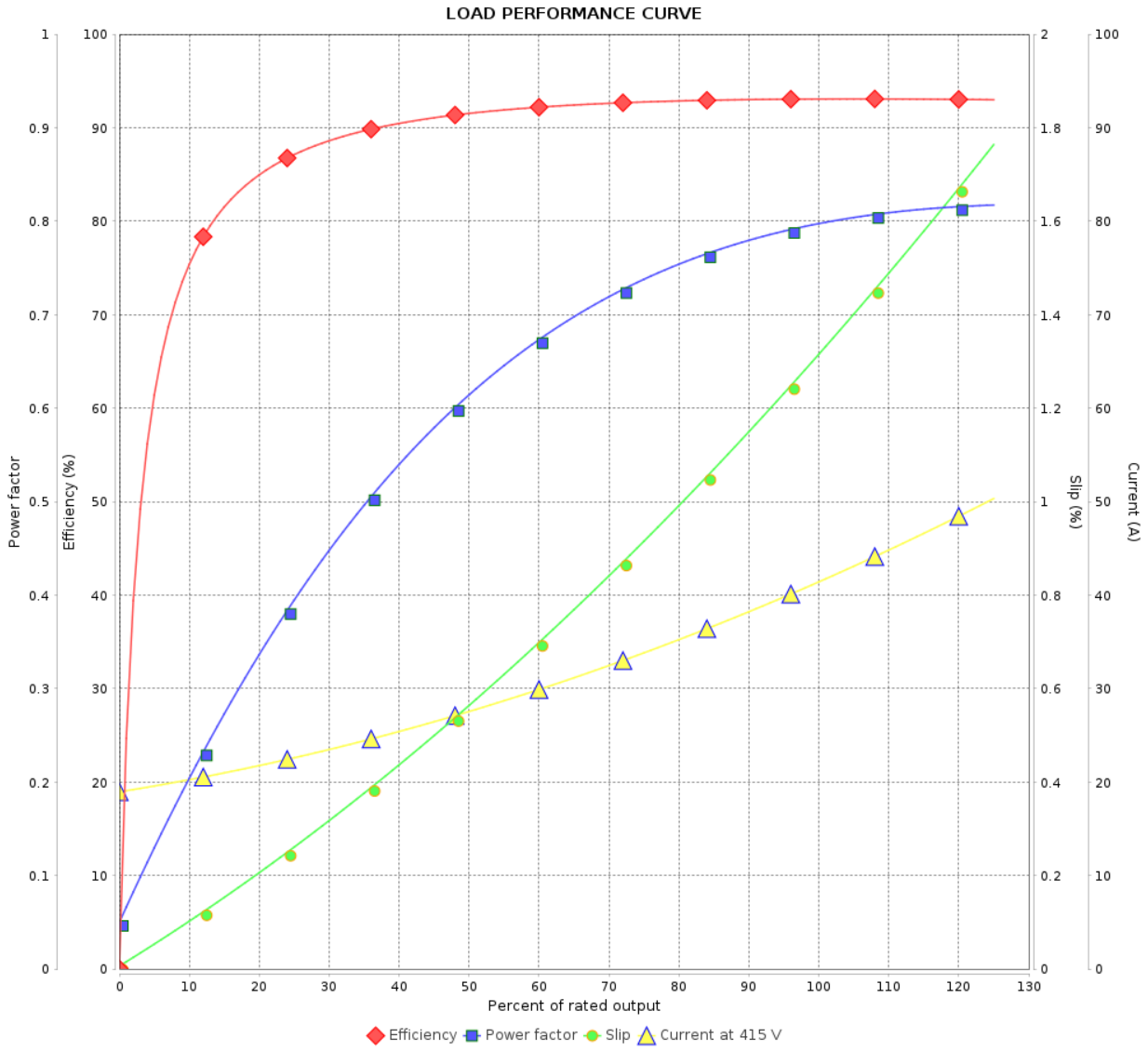
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
| Customer | : | | |
| Product line | : W22 P Base NEMA Premium Efficiency Three-Phase | Product code : | 13129040 |




| | | | |
|---|---|---|---|
| Performance | : 415 V 50 Hz 4P IE3 | | |
| Rated current | : 41.1 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 7.7 | Duty cycle | : Cont.(S1) |
| Rated torque | : 14 kgfm | Insulation class | : F |
| Locked rotor torque | : 280 % | Service factor | : 1.00 |
| Breakdown torque | : 310 % | Temperature rise | : 80 K |
| Rated speed | : 1480 rpm | Design | : B |

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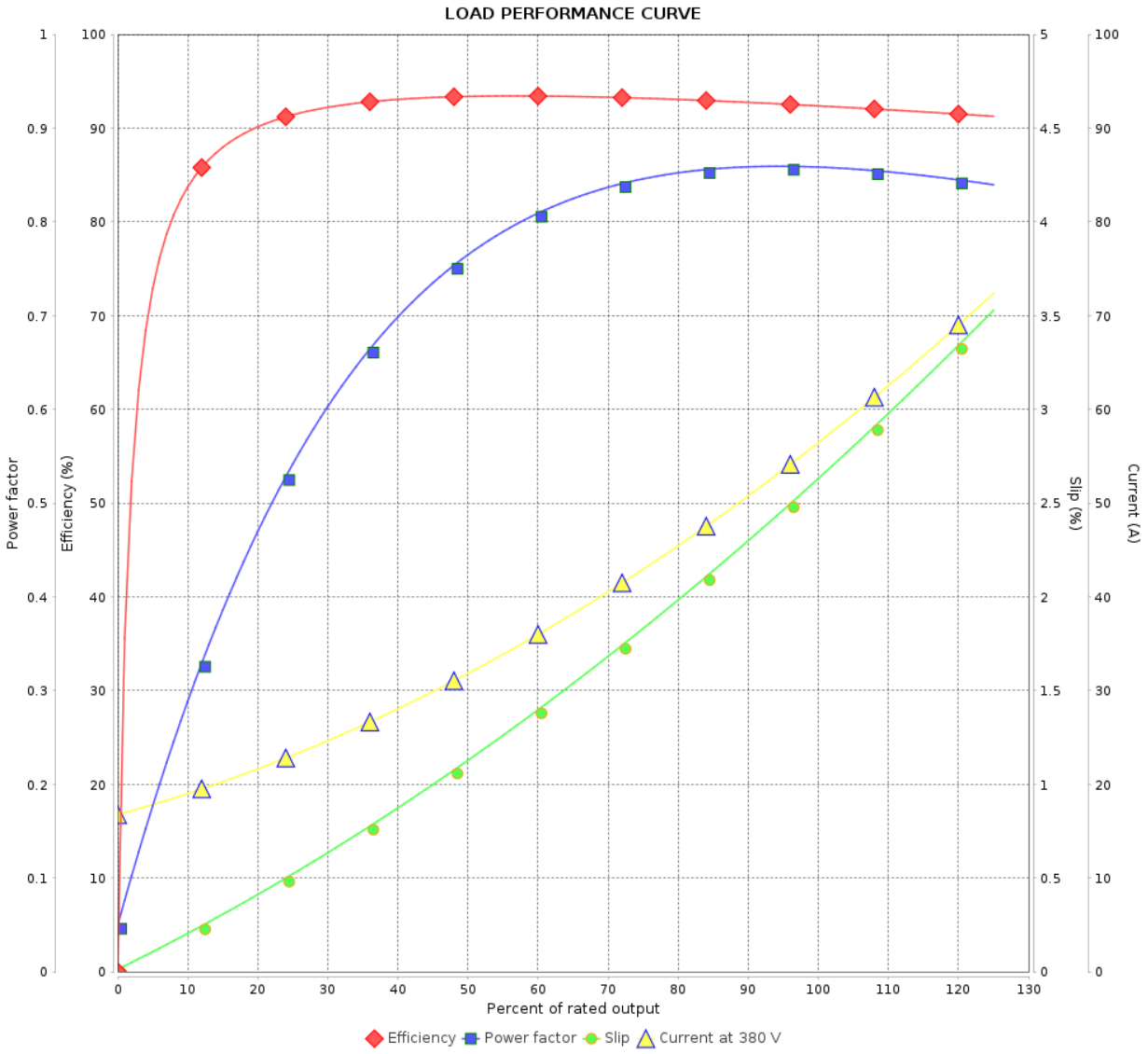
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
| Customer | : | | |
| Product line | : W22 P Base NEMA Premium Efficiency Three-Phase | Product code : | 13129040 |




| | | | |
|---|---|---|---|
| Performance | : 380 V 50 Hz 4P IE2 | | |
| Rated current | : 57.4 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 5.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 19 kgfm | Insulation class | : F |
| Locked rotor torque | : 170 % | Service factor | : 1.00 |
| Breakdown torque | : 200 % | Temperature rise | : 105 K |
| Rated speed | : 1460 rpm | Design | : B |

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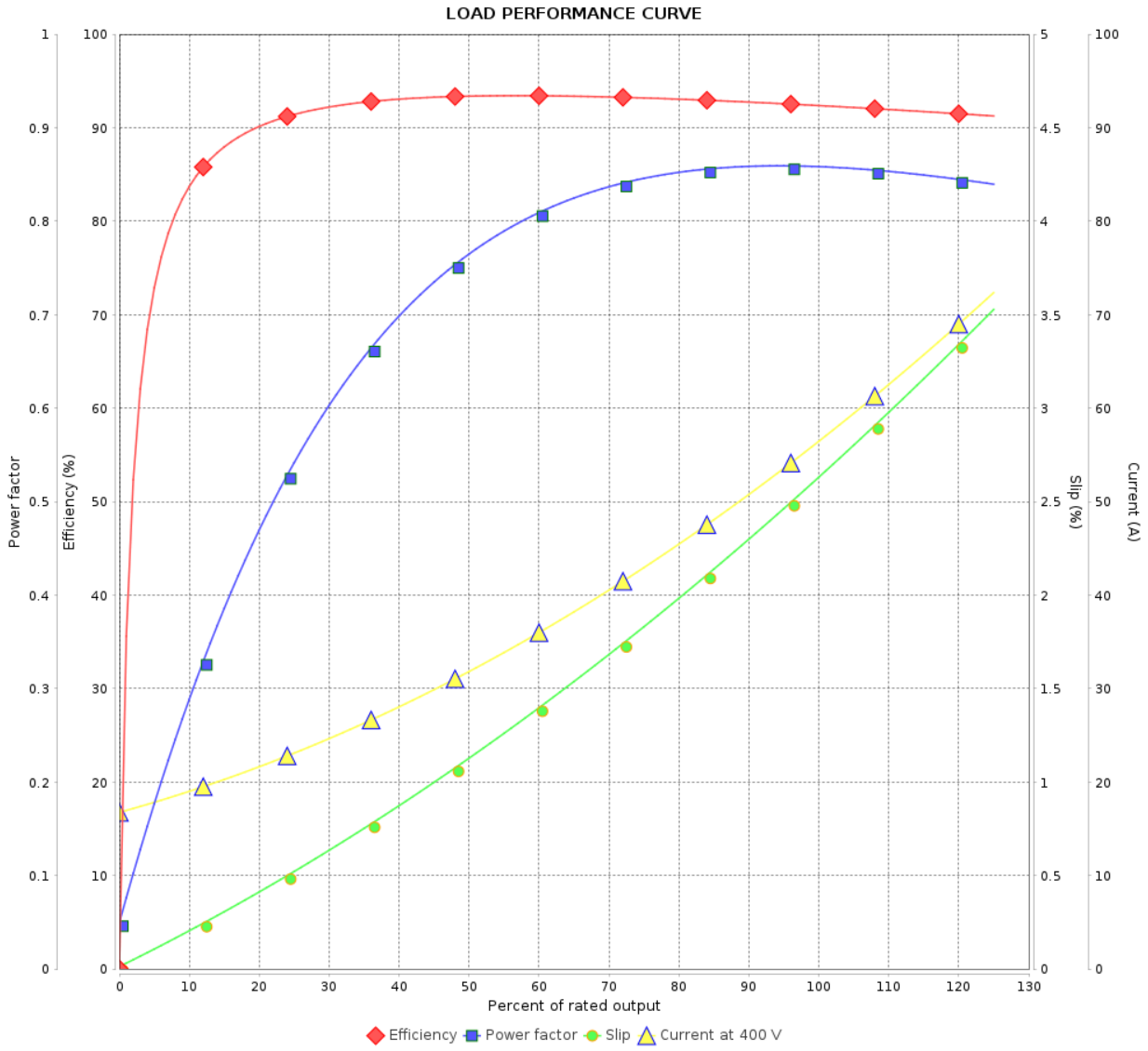
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
| Customer | : | | |
| Product line | : W22 P Base NEMA Premium Efficiency Three-Phase | Product code : | 13129040 |




| | | | |
|---|---|---|---|
| Performance | : 400 V 50 Hz 4P IE2 | | |
| Rated current | : 57.4 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 5.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 19 kgfm | Insulation class | : F |
| Locked rotor torque | : 170 % | Service factor | : 1.00 |
| Breakdown torque | : 200 % | Temperature rise | : 105 K |
| Rated speed | : 1460 rpm | Design | : B |

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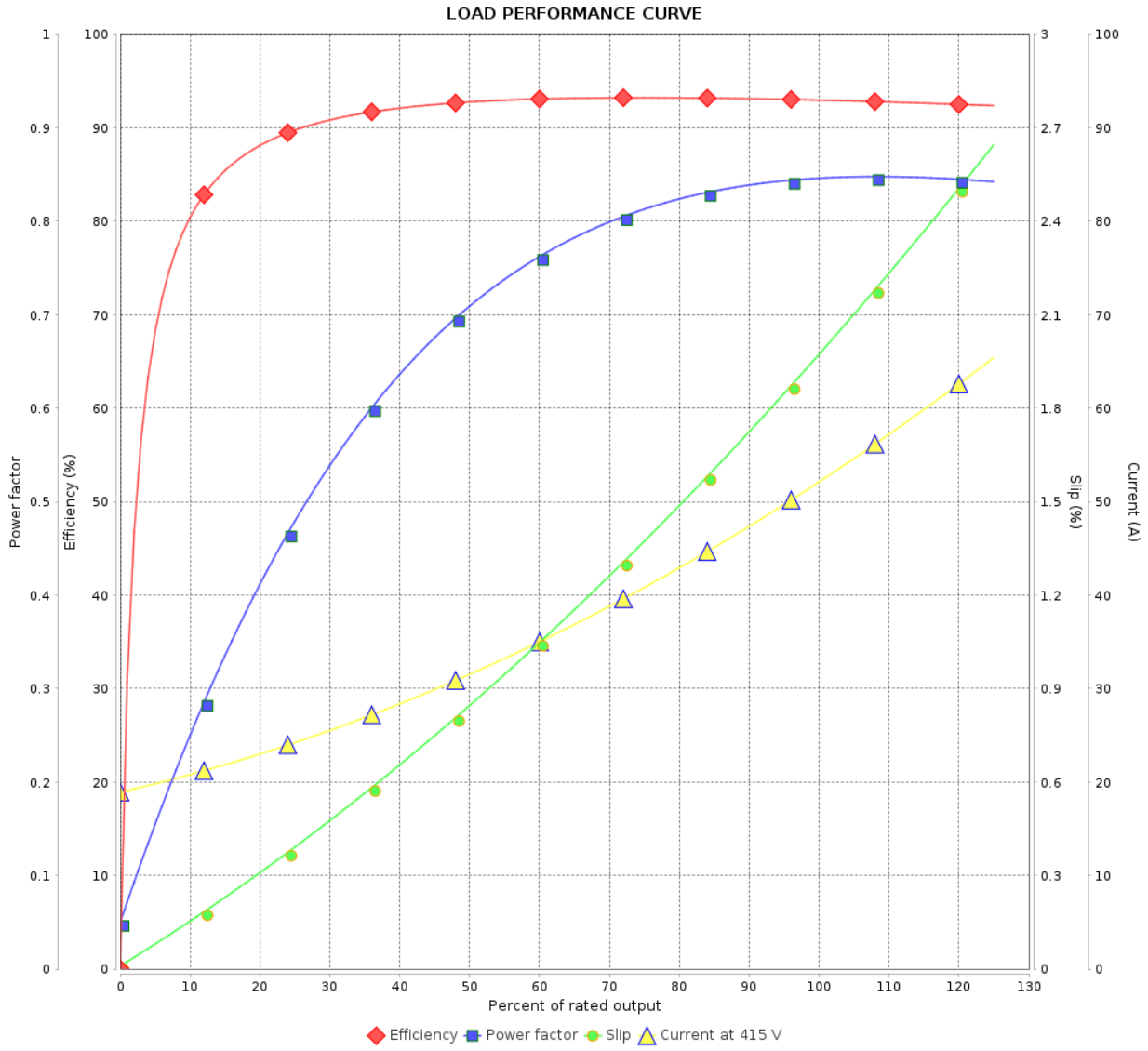
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 13129040




| | | | |
|---|---|---|---|
| Performance | : 415 V 50 Hz 4P IE2 | | |
| Rated current | : 52.8 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 6.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 19 kgfm | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 229 % | Temperature rise | : 105 K |
| Rated speed | : 1470 rpm | Design | : B |

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