

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12630184

| | | | |
|---------------------|------------------|-----------------------------|---------------------------|
| Frame | : 56 | 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 | : 9.7 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0025 kgm ² |

| | | | |
|--------------------------|----------------------|--------------------|--------------------|
| Output [HP] | 0.5 | 0.5 | 0.5 |
| Poles | 4 | 4 | 4 |
| Frequency [Hz] | 60 | 50 | 50 |
| Rated voltage [V] | 208-230/460 | 190-220/380 | 415 |
| Rated current [A] | 1.91-1.72/0.862 | 1.90-1.64/0.950 | 0.962 |
| L. R. Amperes [A] | 13.3-12.1/6.03 | 11.0-9.52/5.51 | 6.06 |
| LRC [A] | 7.0x(Code L) | 5.8x(Code J) | 6.3x(Code K) |
| No load current [A] | 1.03-1.20/0.600 | 1.24-1.07/0.618 | 0.737 |
| Rated speed [RPM] | 1760 | 1445 | 1460 |
| Slip [%] | 2.22 | 3.67 | 2.67 |
| Rated torque [kgfm] | 0.206 | 0.251 | 0.249 |
| Locked rotor torque [%] | 240 | 180 | 220 |
| Breakdown torque [%] | 300 | 250 | 310 |
| Service factor | | 1.15 | 1.15 |
| Temperature rise | 80 K | 80 K | 80 K |
| Locked rotor time | 36s (cold) 20s (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% | 68.0 | 70.7 |
| | 75% | 74.0 | 75.0 |
| | 100% | 77.0 | 75.9 |
| Power Factor | 25% | | |
| | 50% | 0.48 | 0.56 |
| | 75% | 0.61 | 0.69 |
| | 100% | 0.70 | 0.78 |

| | | | |
|----------------------|--------------------|---------------|---------------------------|
| Bearing type | : Drive end | Non drive end | Foundation loads |
| | : 6203 ZZ | 6202 ZZ | |
| Sealing | : V'Ring | Without | Max. traction : 20 kgf |
| | | Bearing Seal | |
| Lubrication interval | : - | - | Max. compression : 29 kgf |
| Lubricant amount | : - | - | |
| Lubricant type | : Mobil Polyrex EM | | |

Notes

USABLE @208V SF 1.00

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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| Date | 11/05/2022 | | | |

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Revision

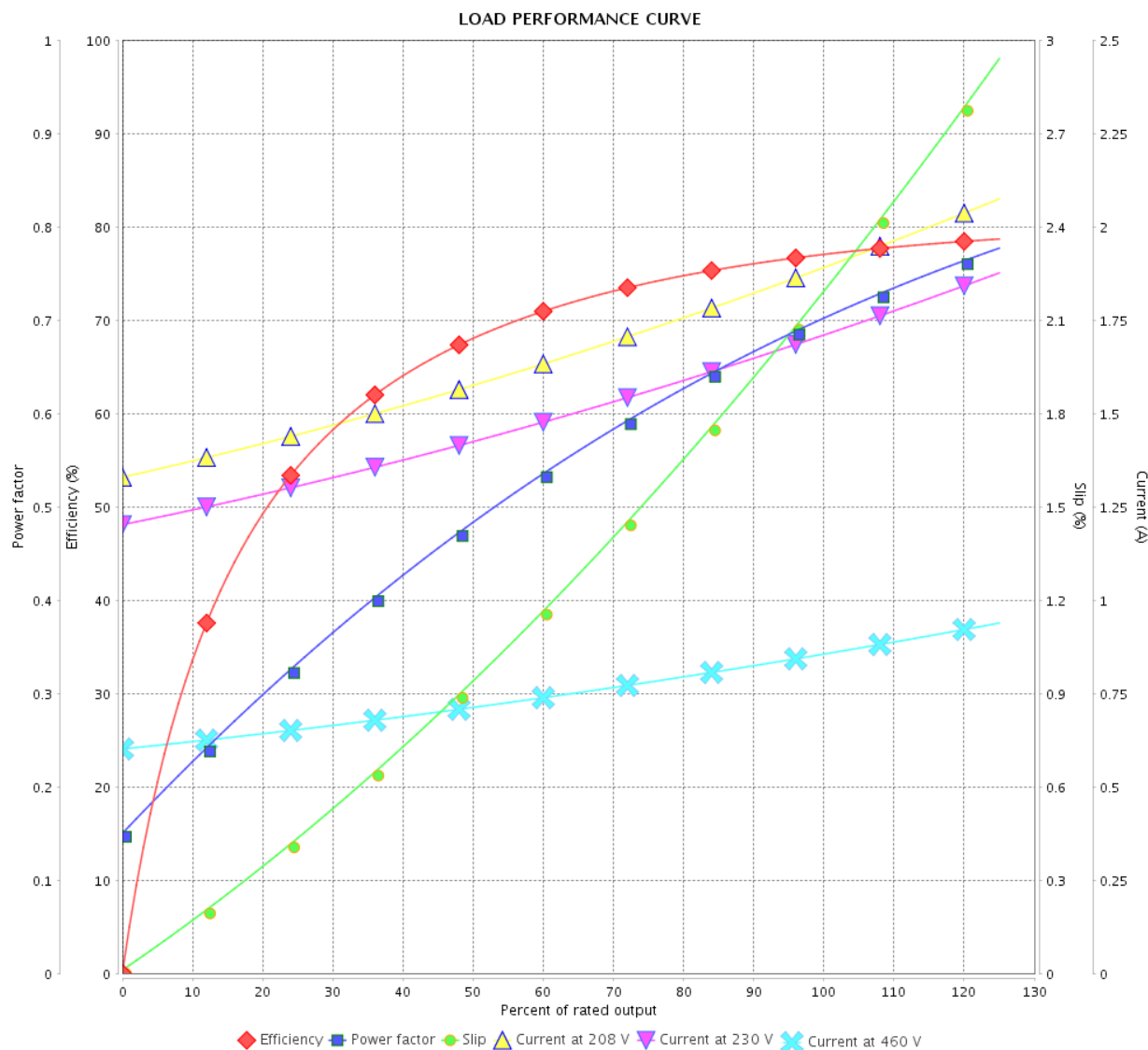
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12630184



Performance : 208-230/460 V 60 Hz 4P

Rated current : 1.91-1.72/0.862 A
 LRC : 7.0
 Rated torque : 0.206 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 300 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0025 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

| Rev. | Changes Summary | | Performed | Checked | Date |
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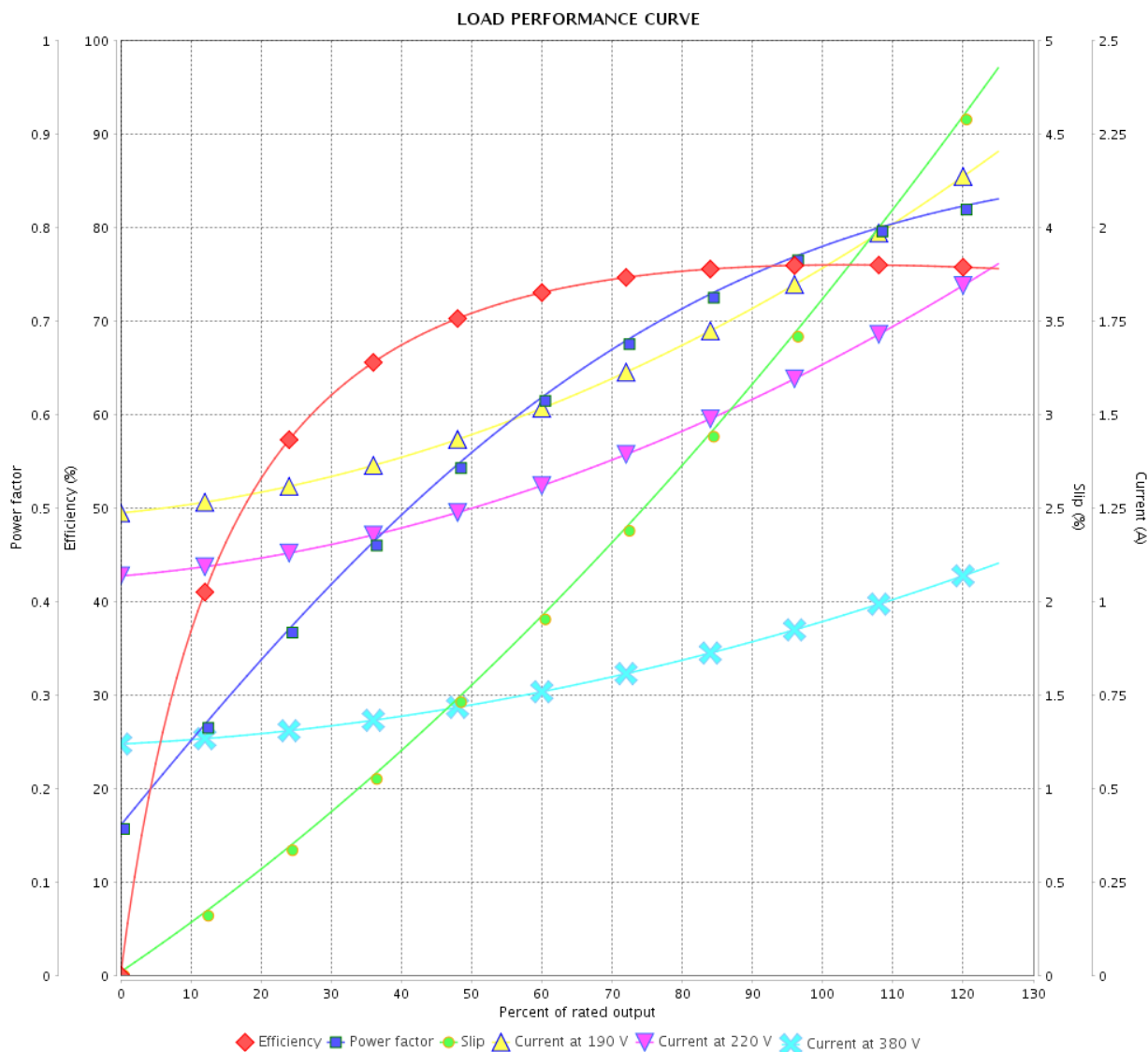
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12630184



Performance : 190-220/380 V 50 Hz 4P

Rated current : 1.90-1.64/0.950 A
 LRC : 5.8
 Rated torque : 0.251 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 250 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0025 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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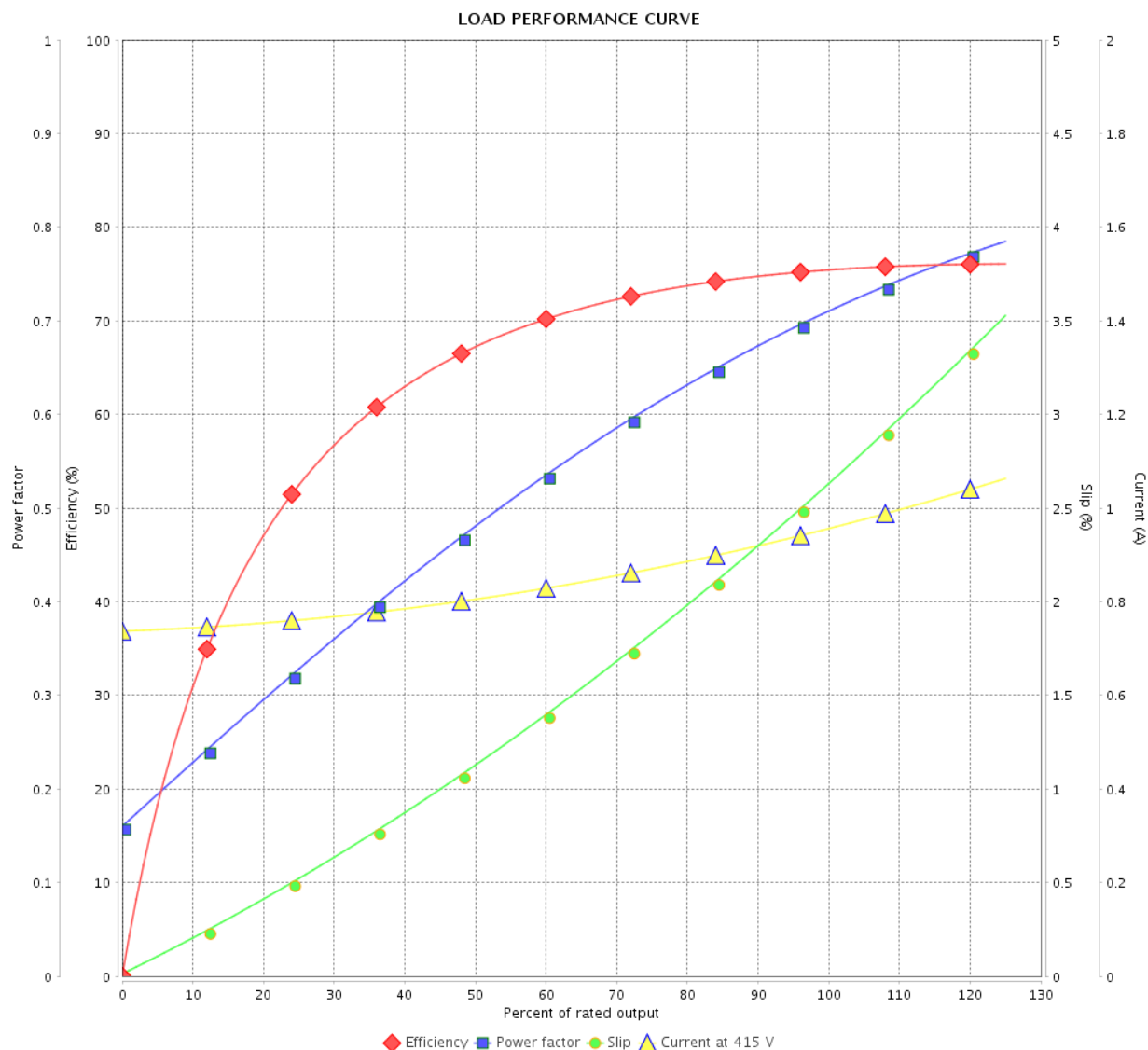
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12630184



Performance : 415 V 50 Hz 4P

Rated current : 0.962 A
 LRC : 6.3
 Rated torque : 0.249 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 310 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0025 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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