

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | |
|--|--|--|----------------------|----------|
| Customer : | | | | |
| Product line : Three-Phase | Product code : 13737451 | | | |
| Frame : 56 Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. | Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 10.7 kg Moment of inertia (J) : 0.0030 kgm ² | | | |
| Output [HP] | 0.75 | 0.75 | 0.75 | |
| Poles | 4 | 4 | 4 | |
| Frequency [Hz] | 60 | 50 | 50 | |
| Rated voltage [V] | 208-230/460 | 190/380 | 220/415 | |
| Rated current [A] | 2.54-2.30/1.15 | 2.62/1.31 | 2.43/1.29 | |
| L. R. Amperes [A] | 18.5-16.8/8.40 | 14.9/7.47 | 15.6/8.26 | |
| LRC [A] | 7.3x(Code K) | 5.7x(Code H) | 6.4x(Code J) | |
| No load current [A] | 1.38-1.60/0.800 | 1.53/0.763 | 1.73/0.917 | |
| Rated speed [RPM] | 1760 | 1445 | 1455 | |
| Slip [%] | 2.22 | 3.67 | 3.00 | |
| Rated torque [kgfm] | 0.309 | 0.377 | 0.374 | |
| Locked rotor torque [%] | 250 | 170 | 210 | |
| Breakdown torque [%] | 300 | 240 | 290 | |
| Service factor | | 1.15 | 1.15 | |
| Temperature rise | 80 K | 80 K | 80 K | |
| Locked rotor time | 37s (cold) 21s (hot) | 43s (cold) 24s (hot) | 36s (cold) 20s (hot) | |
| Noise level ² | 52.0 dB(A) | 49.0 dB(A) | 49.0 dB(A) | |
| Efficiency (%) | 25% | | | |
| | 50% | 74.0 | 73.6 | |
| | 75% | 78.5 | 77.8 | |
| | 100% | 81.1 | 78.9 | |
| Power Factor | 25% | | | |
| | 50% | 0.52 | 0.52 | |
| | 75% | 0.65 | 0.65 | |
| | 100% | 0.74 | 0.75 | |
| Bearing type | : Drive end 6203 ZZ Non drive end 6202 ZZ | Foundation loads | | |
| Sealing | : Without Bearing Seal Without Bearing Seal | Max. traction | : 29 kgf | |
| | | Max. compression | : 40 kgf | |
| Lubrication interval | : - | | | |
| 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 |
| Performed by | | | | |
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LOAD PERFORMANCE CURVE

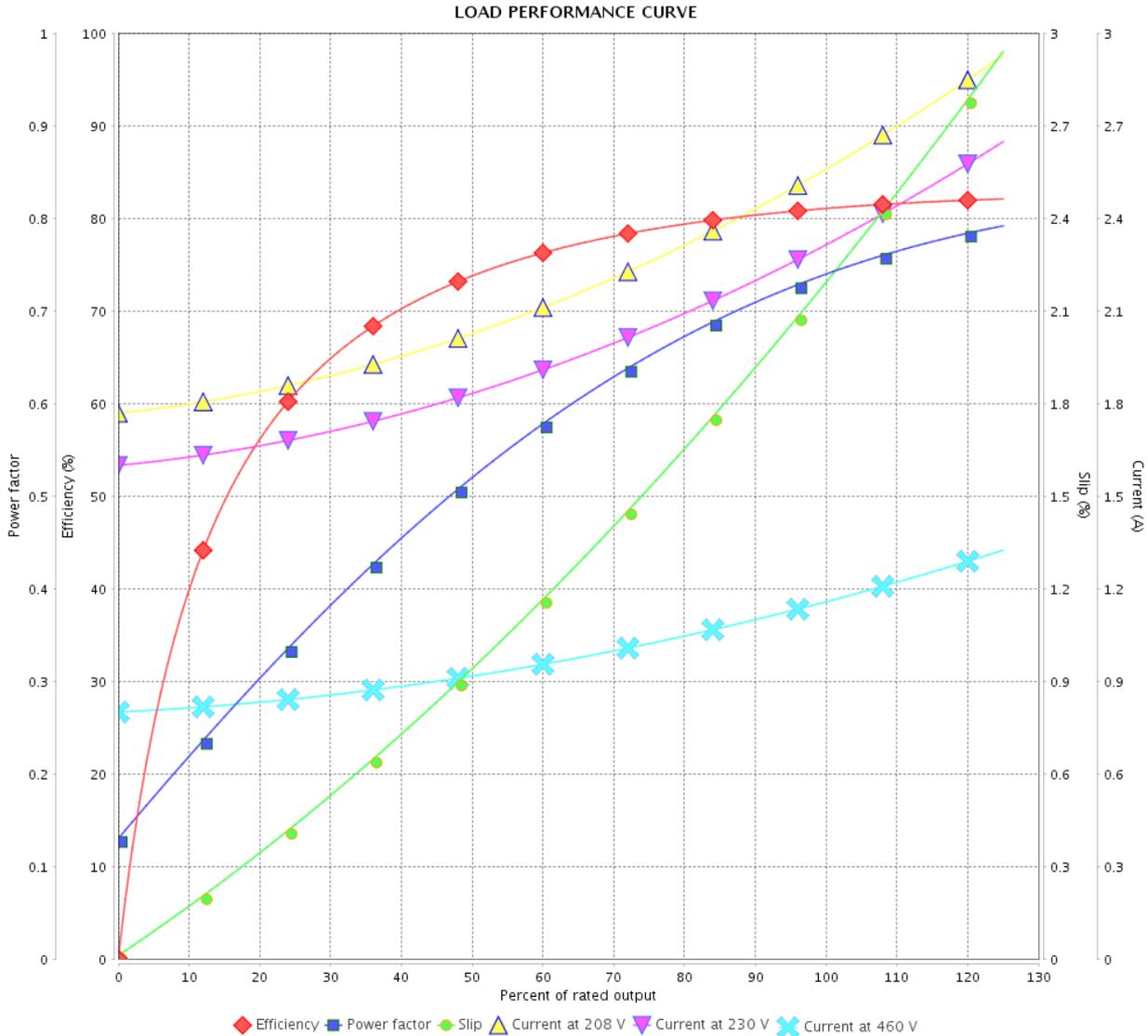
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13737451



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

Rated current : 2.54-2.30/1.15 A
 LRC : 7.3
 Rated torque : 0.309 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0030 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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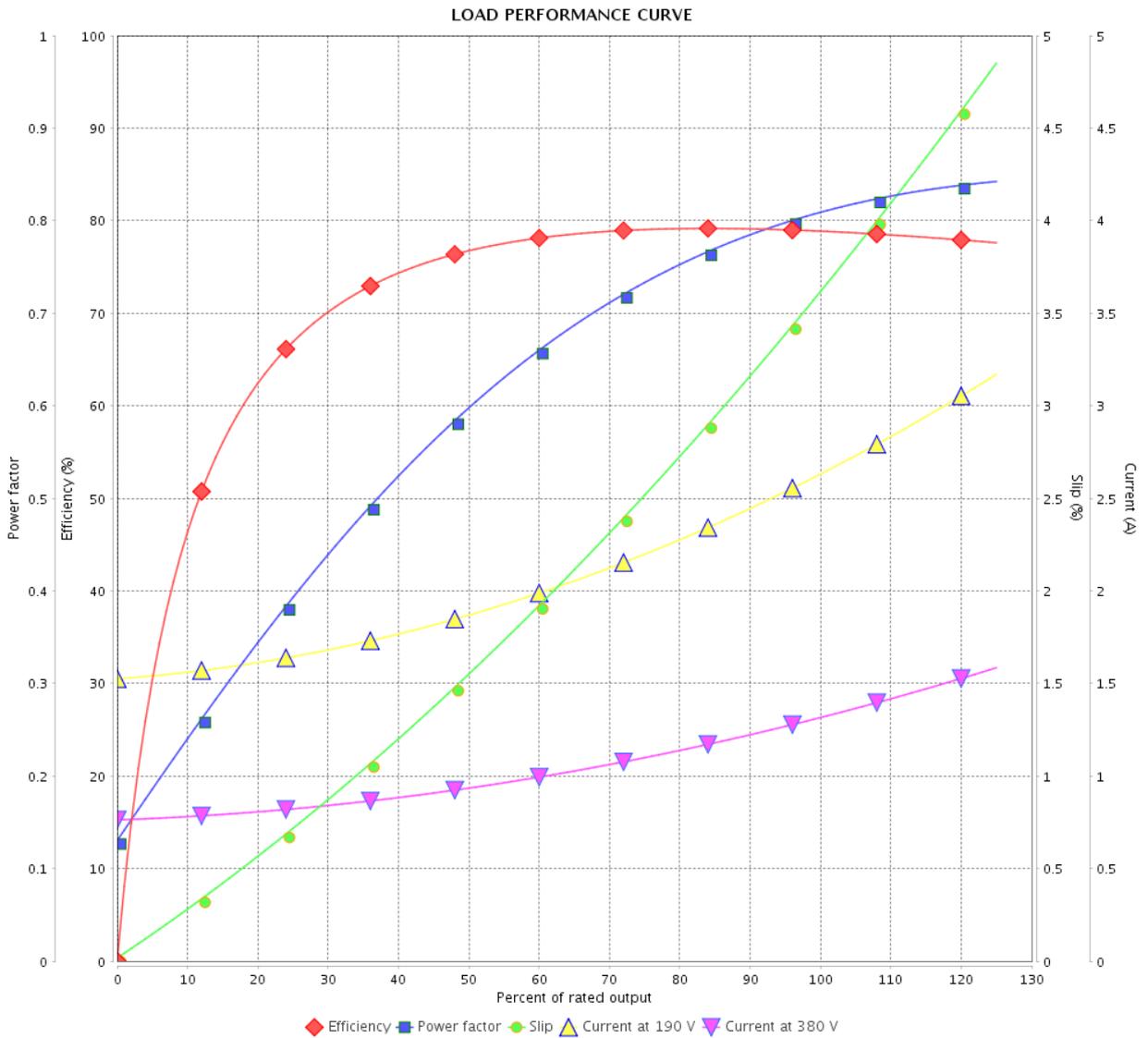
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13737451



Performance : 190/380 V 50 Hz 4P

Rated current : 2.62/1.31 A
 LRC : 5.7
 Rated torque : 0.377 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 240 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0030 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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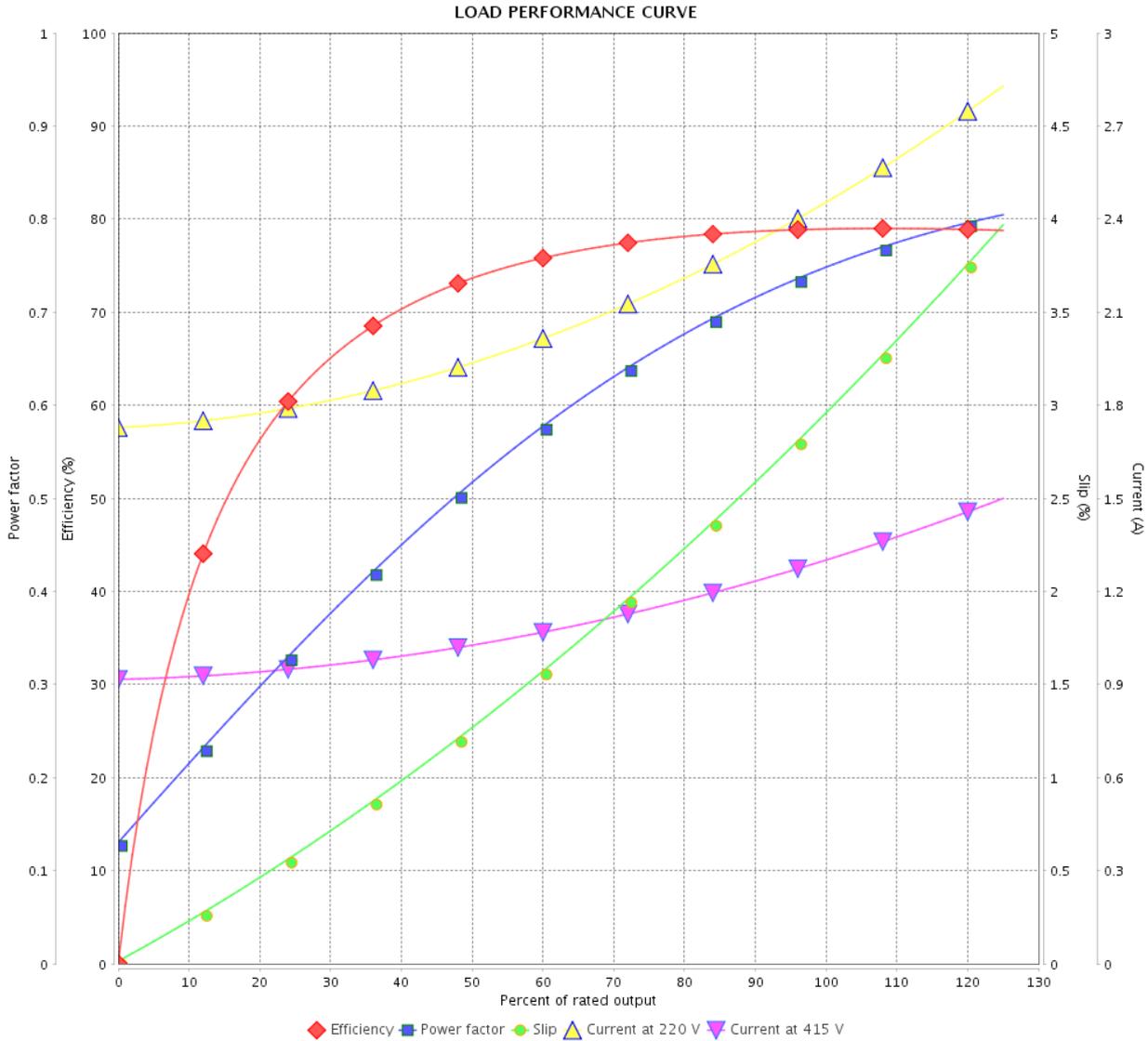
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13737451



Performance : 220/415 V 50 Hz 4P

Rated current : 2.43/1.29 A
 LRC : 6.4
 Rated torque : 0.374 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 290 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0030 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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