

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | |
|--|--|-----------|---------|----------|
| Customer : | | | | |
| Product line : Three-Phase | Product code : 14568106 | | | |
| Frame : 56C Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 | Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 12.2 kg Moment of inertia (J) : 0.0045 kgm ² | | | |
| Output [HP] | 0.5 | | | |
| Poles | 6 | | | |
| Frequency [Hz] | 60 | | | |
| Rated voltage [V] | 208-230/460 | | | |
| Rated current [A] | 2.16-1.95/0.976 | | | |
| L. R. Amperes [A] | 12.1-10.9/5.47 | | | |
| LRC [A] | 5.6x(Code K) | | | |
| No load current [A] | 1.33-1.55/0.774 | | | |
| Rated speed [RPM] | 1160 | | | |
| Slip [%] | 3.33 | | | |
| Rated torque [kgfm] | 0.313 | | | |
| Locked rotor torque [%] | 240 | | | |
| Breakdown torque [%] | 330 | | | |
| Service factor | | | | |
| Temperature rise | 80 K | | | |
| Locked rotor time | 46s (cold) 26s (hot) | | | |
| Noise level ² | 50.0 dB(A) | | | |
| Efficiency (%) | 25% | | | |
| | 50% | | | |
| | 75% | | | |
| | 100% | | | |
| Power Factor | 25% | | | |
| | 50% | | | |
| | 75% | | | |
| | 100% | | | |
| Bearing type : <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ Sealing : V'Ring V'Ring Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM | Foundation loads Max. traction : 25 kgf Max. compression : 38 kgf | | | |
| 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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Three Phase Induction Motor - Squirrel Cage

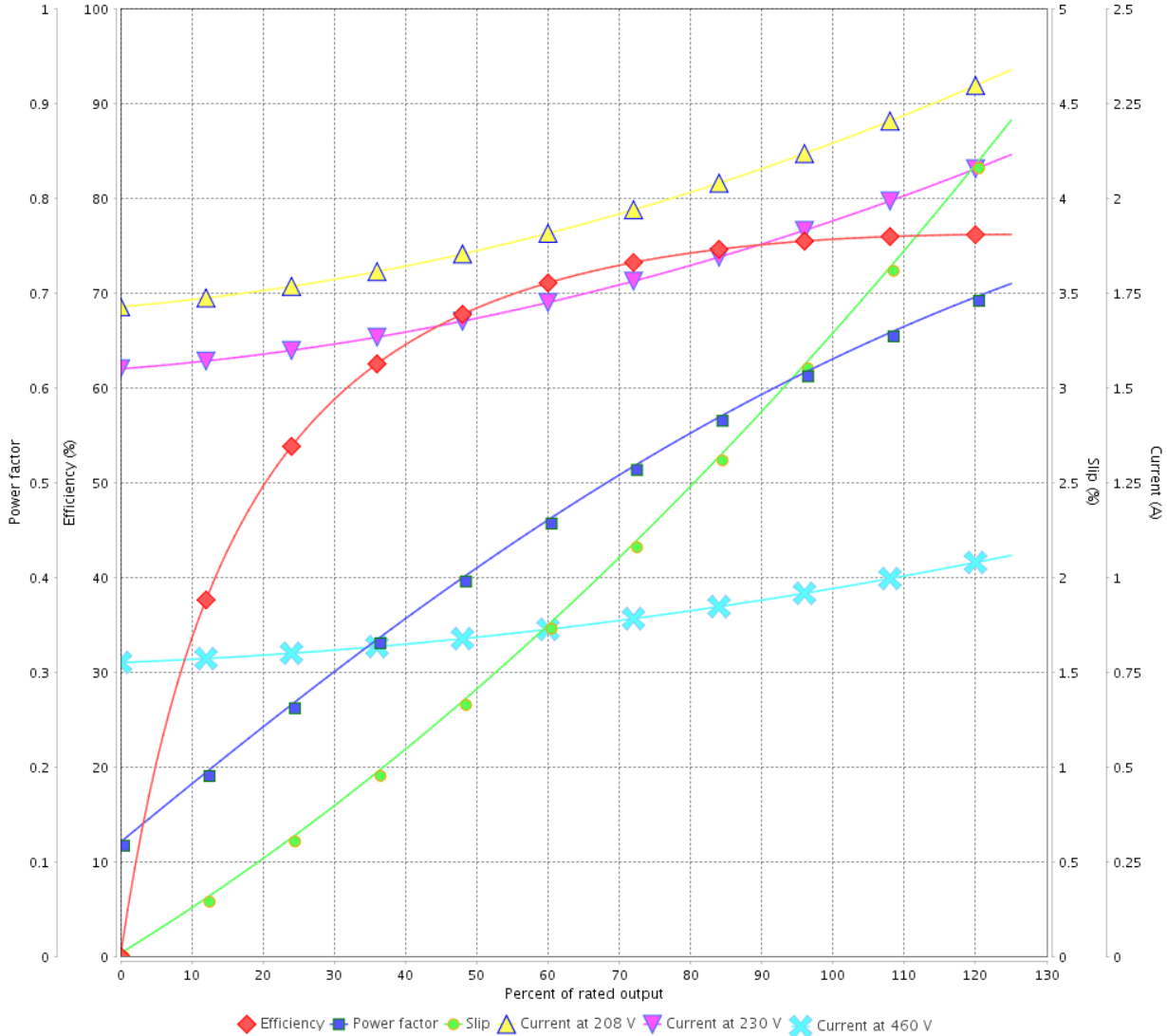


Customer : _____

Product line : Three-Phase

Product code : 14568106

LOAD PERFORMANCE CURVE



Performance : 208-230/460 V 60 Hz 6P

Rated current : 2.16-1.95/0.976 A
 LRC : 5.6
 Rated torque : 0.313 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 330 %
 Rated speed : 1160 rpm

Moment of inertia (J) : 0.0045 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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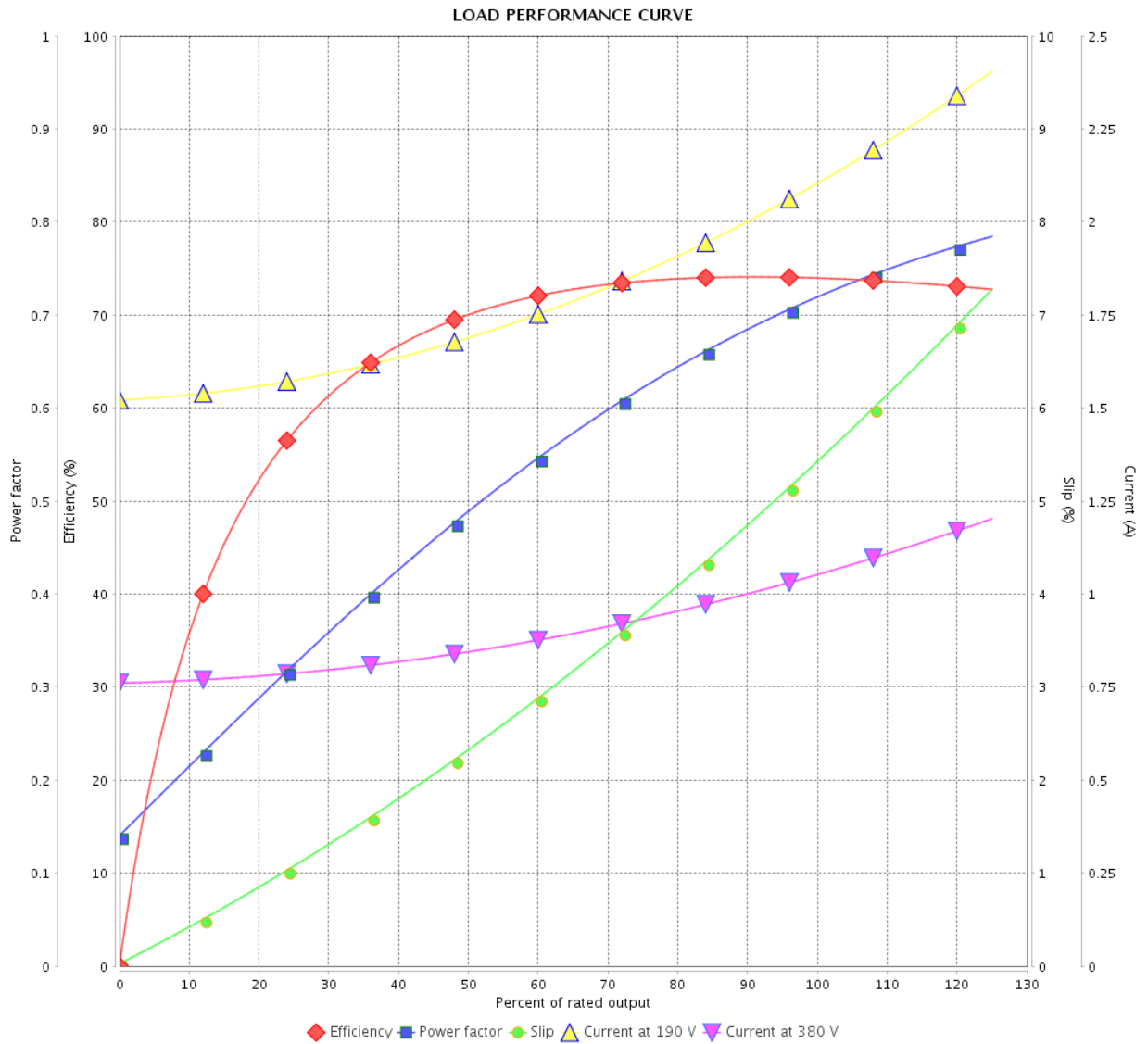
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Three-Phase

Product code : 14568106



Performance : 190/380 V 50 Hz 6P

Rated current : 2.12/1.06 A
 LRC : 4.5
 Rated torque : 0.384 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 229 %
 Rated speed : 945 rpm

Moment of inertia (J) : 0.0045 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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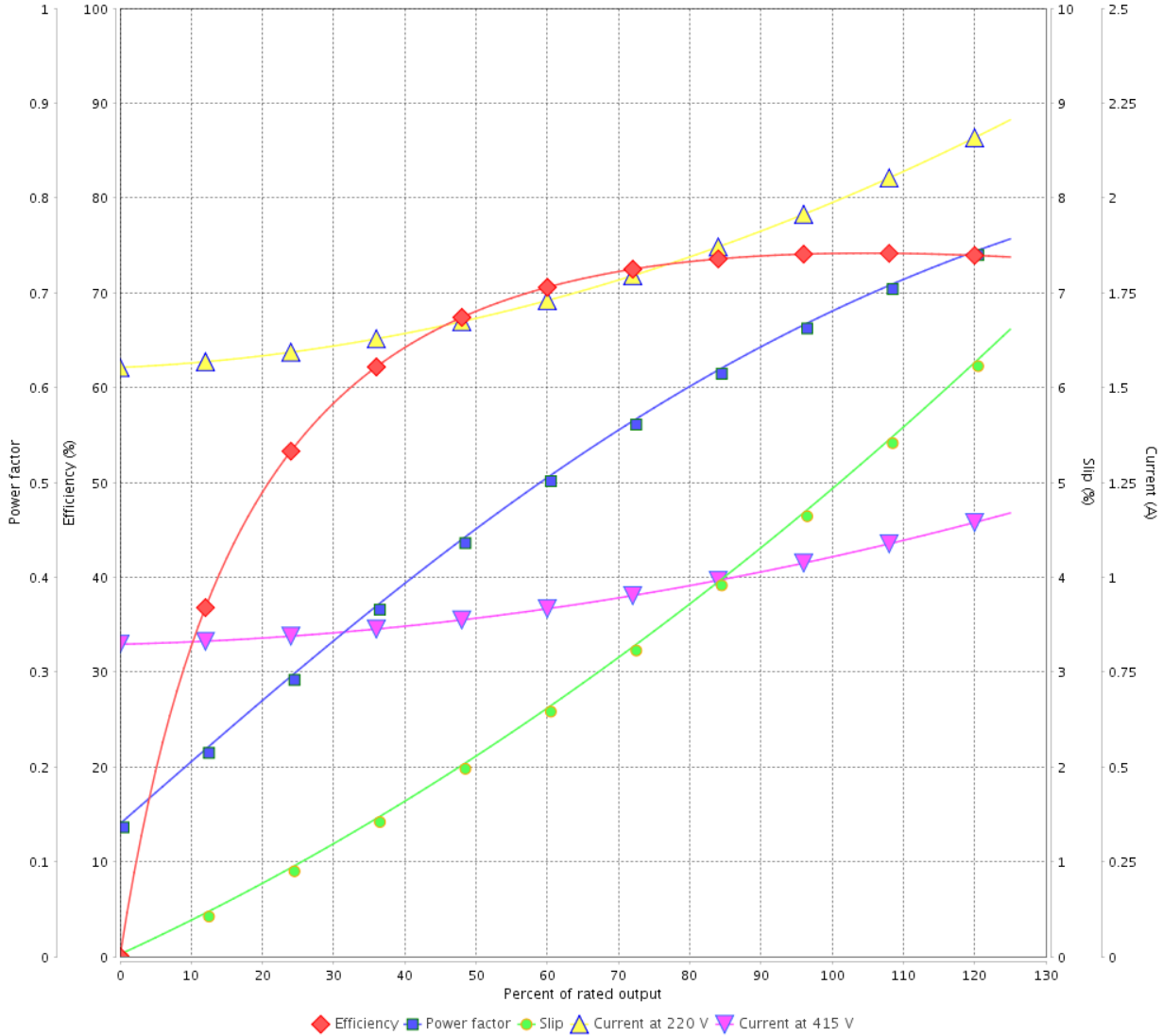


Customer :

Product line : Three-Phase

Product code : 14568106

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 6P

Rated current : 2.00/1.06 A
 LRC : 4.8
 Rated torque : 0.382 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 260 %
 Rated speed : 950 rpm

Moment of inertia (J) : 0.0045 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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