

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | |
|--|---|--|---------------------------|
| Customer | | : | |
| Product line | | : Jet Pump - C type Three-Phase | Product code : 13722360 |
| Frame | : 56C | Cooling method | : IC411 - TEFC |
| Insulation class | : F | Mounting | : W-6 |
| Duty cycle | : Cont.(S1) | Rotation ¹ | : CCW |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line |
| Altitude | : 1000 m.a.s.l. | Approx. weight ² | : 17.7 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0054 kgm ² |
| Design | : B | | |
| Output [HP] | 2 | 2 | 2 |
| Poles | 2 | 2 | 2 |
| Frequency [Hz] | 60 | 50 | 50 |
| Rated voltage [V] | 230/460 | 190/380 | 220/415 |
| Rated current [A] | 4.94/2.47 | 5.94/2.97 | 5.23/2.77 |
| L. R. Amperes [A] | 48.9/24.5 | 44.0/22.0 | 46.0/24.4 |
| LRC [A] | 9.9x(Code L) | 7.4x(Code J) | 8.8x(Code K) |
| No load current [A] | 2.13/1.06 | 2.10/1.05 | 2.27/1.20 |
| Rated speed [RPM] | 3520 | 2875 | 2900 |
| Slip [%] | 2.22 | 4.17 | 3.33 |
| Rated torque [kgfm] | 0.412 | 0.505 | 0.501 |
| Locked rotor torque [%] | 250 | 229 | 280 |
| Breakdown torque [%] | 300 | 280 | 340 |
| Service factor | | 1.15 | 1.15 |
| Temperature rise | 80 K | 80 K | 80 K |
| Locked rotor time | 23s (cold) 13s (hot) | 21s (cold) 12s (hot) | 18s (cold) 10s (hot) |
| Noise level ² | 68.0 dB(A) | 65.0 dB(A) | 65.0 dB(A) |
| Efficiency (%) | 25% | | |
| | 50% | 82.5 | 84.0 |
| | 75% | 85.5 | 84.6 |
| | 100% | 85.5 | 83.3 |
| Power Factor | 25% | | |
| | 50% | 0.73 | 0.79 |
| | 75% | 0.83 | 0.88 |
| | 100% | 0.89 | 0.92 |
| Bearing type | : Drive end 6203 2RS Non drive end 6202 2RS | Foundation loads | |
| Sealing | : V'Ring V'Ring | Max. traction | : 46 kgf |
| Lubrication interval | : - - | Max. compression | : 63 kgf |
| Lubricant amount | : - - | | |
| Lubricant type | : Mobil Polyrex EM | | |
| Notes USABLE @208V 5.46A SF 1.00 SFA 5.46A | | | |
| 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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| Checked by | | | Page |
| Date | 17/05/2022 | | Revision |
| | | | 1 / 4 |

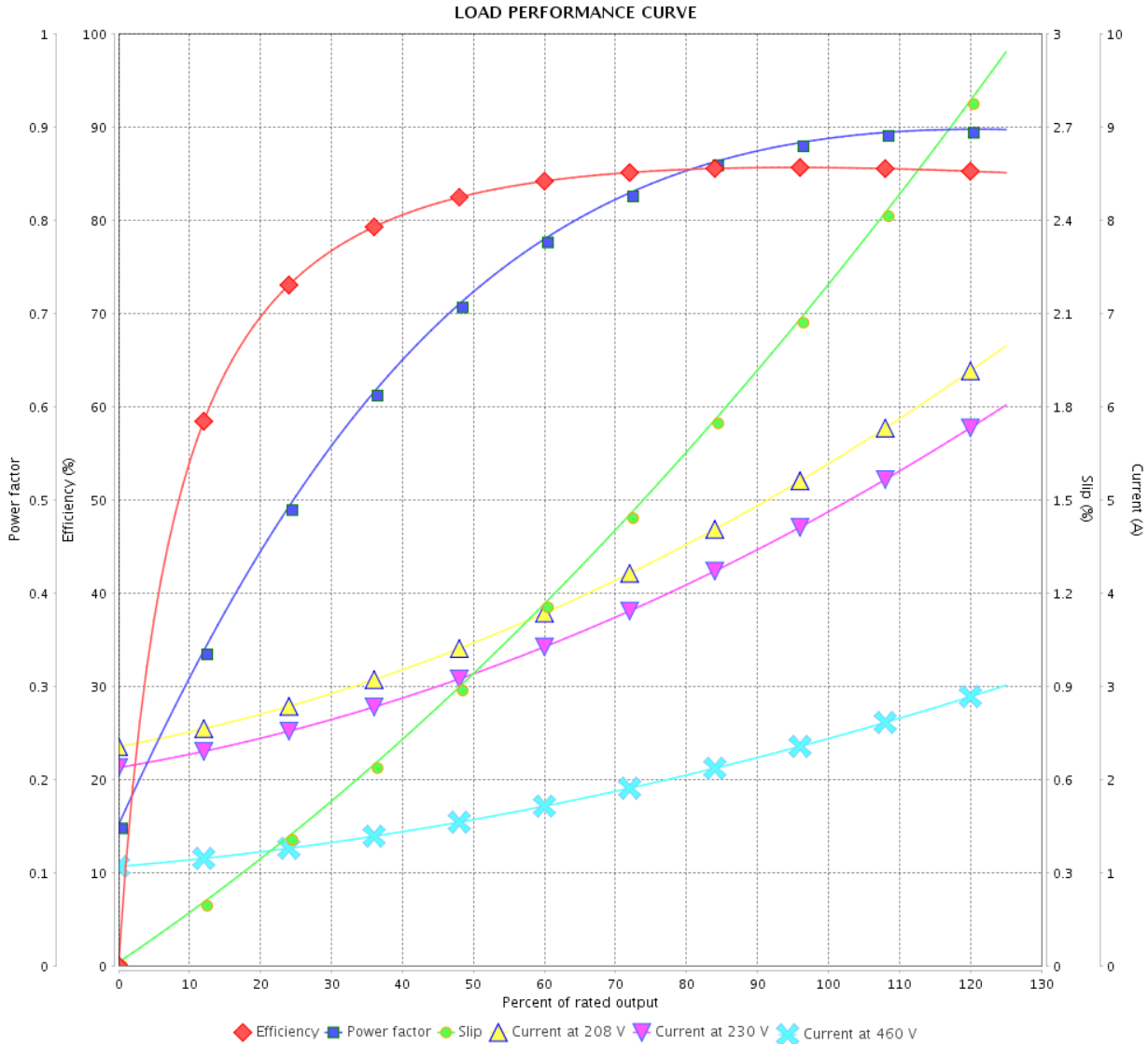
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Three-Phase Product code : 13722360



Performance : 230/460 V 60 Hz 2P

Rated current : 4.94/2.47 A
 LRC : 9.9
 Rated torque : 0.412 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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| Date | 17/05/2022 | | | |

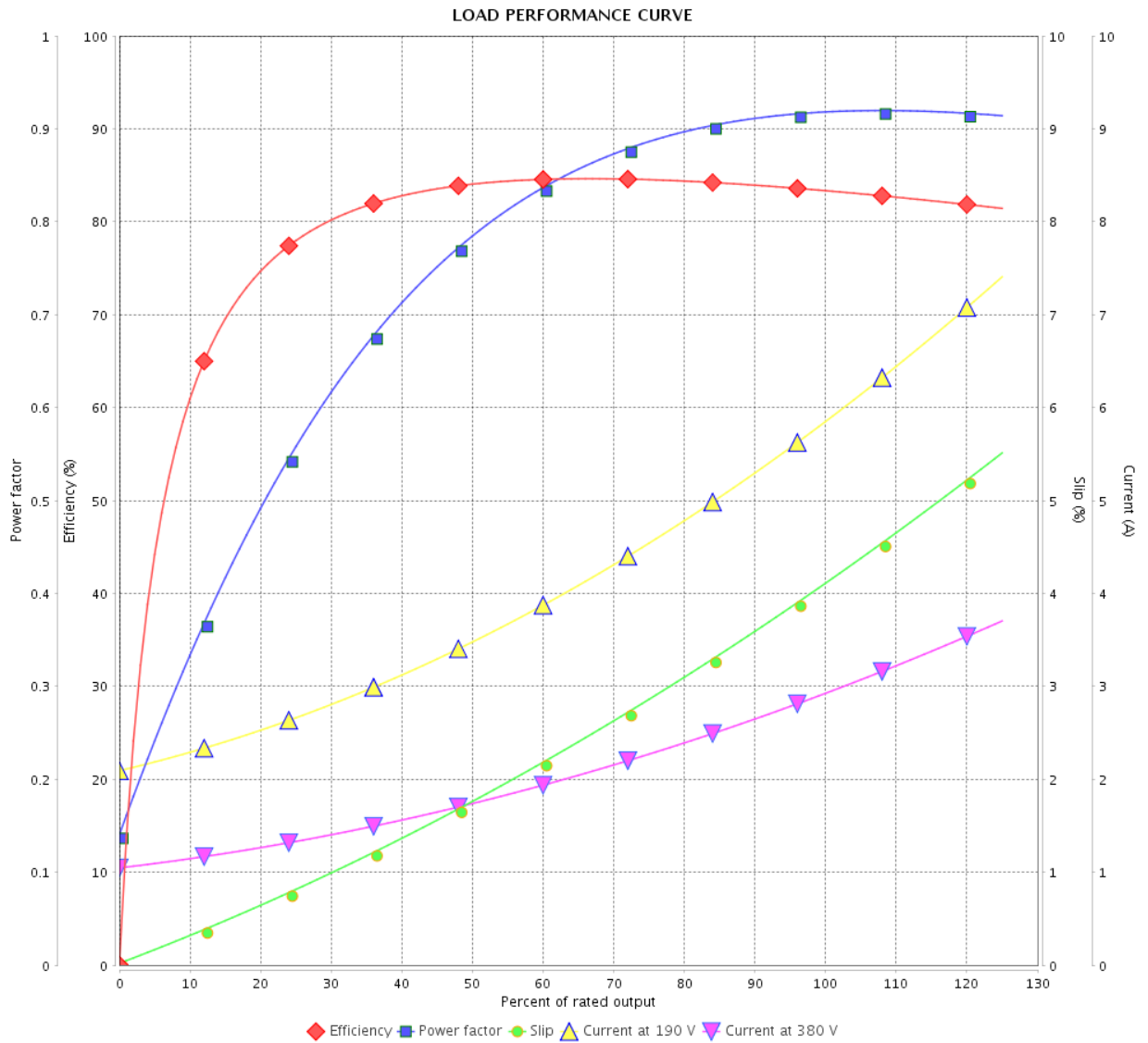
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Jet Pump - C type Three-Phase Product code : 13722360



Performance : 190/380 V 50 Hz 2P

Rated current : 5.94/2.97 A
 LRC : 7.4
 Rated torque : 0.505 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 280 %
 Rated speed : 2875 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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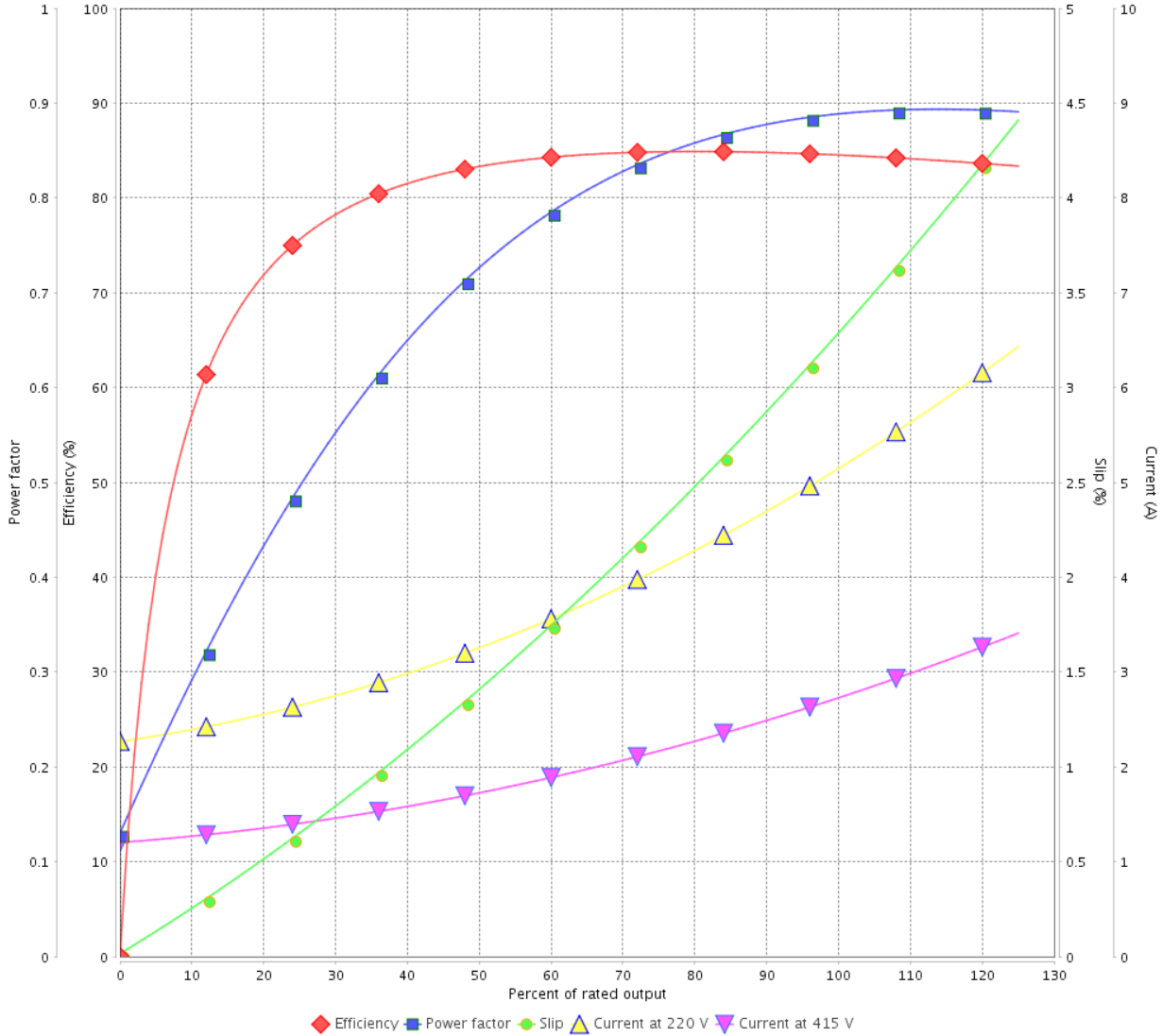
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Three-Phase Product code : 13722360

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 2P

Rated current : 5.23/2.77 A
 LRC : 8.8
 Rated torque : 0.501 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 340 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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