

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | |
|--|---|--|---------------------------|----------|
| Customer : | | | | |
| Product line | : Jet Pump - J type Premium Efficiency Three-Phase | Product code : | 15942864 | |
| Frame | : W56J | 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 | : 9.5 kg | |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0011 kgm ² | |
| Output [HP] | 1 | 1 | 1 | |
| Poles | 2 | 2 | 2 | |
| Frequency [Hz] | 60 | 50 | 50 | |
| Rated voltage [V] | 230/460 | 190-220/380 | 415 | |
| Rated current [A] | 3.00/1.50 | 3.40-2.94/1.70 | 1.65 | |
| L. R. Amperes [A] | 26.4/13.2 | 22.1-19.1/11.0 | 12.4 | |
| LRC [A] | 8.8x(Code M) | 6.5x(Code J) | 7.5x(Code K) | |
| No load current [A] | 1.60/0.798 | 1.56-1.35/0.781 | 0.949 | |
| Rated speed [RPM] | 3435 | 2770 | 2815 | |
| Slip [%] | 4.58 | 7.67 | 6.17 | |
| Rated torque [kgfm] | 0.211 | 0.262 | 0.258 | |
| Locked rotor torque [%] | 360 | 280 | 330 | |
| Breakdown torque [%] | 380 | 250 | 310 | |
| Service factor | | 1.15 | 1.15 | |
| Temperature rise | 80 K | 80 K | 80 K | |
| Locked rotor time | 18s (cold) 10s (hot) | 16s (cold) 9s (hot) | 14s (cold) 8s (hot) | |
| Noise level ² | 65.0 dB(A) | 64.0 dB(A) | 64.0 dB(A) | |
| Efficiency (%) | 25% | | | |
| | 50% | 74.0 | 75.9 | |
| | 75% | 77.0 | 78.9 | |
| | 100% | 78.5 | 79.0 | |
| Power Factor | 25% | | | |
| | 50% | 0.63 | 0.61 | |
| | 75% | 0.75 | 0.74 | |
| | 100% | 0.80 | 0.80 | |
| Bearing type | : <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS | Foundation loads | | |
| Sealing | : V'Ring V'Ring | Max. traction | : 21 kgf | |
| Lubrication interval | : - - | Max. compression | : 30 kgf | |
| Lubricant amount | : - - | | | |
| Lubricant type | : Mobil Polyrex EM | | | |
| Notes USABLE @208V 3.32A SF 1.00 SFA 3.32A | | | | |
| 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 | | | | |
| Checked by | | | Page | Revision |
| Date | 16/05/2022 | | 1 / 4 | |

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Three Phase Induction Motor - Squirrel Cage

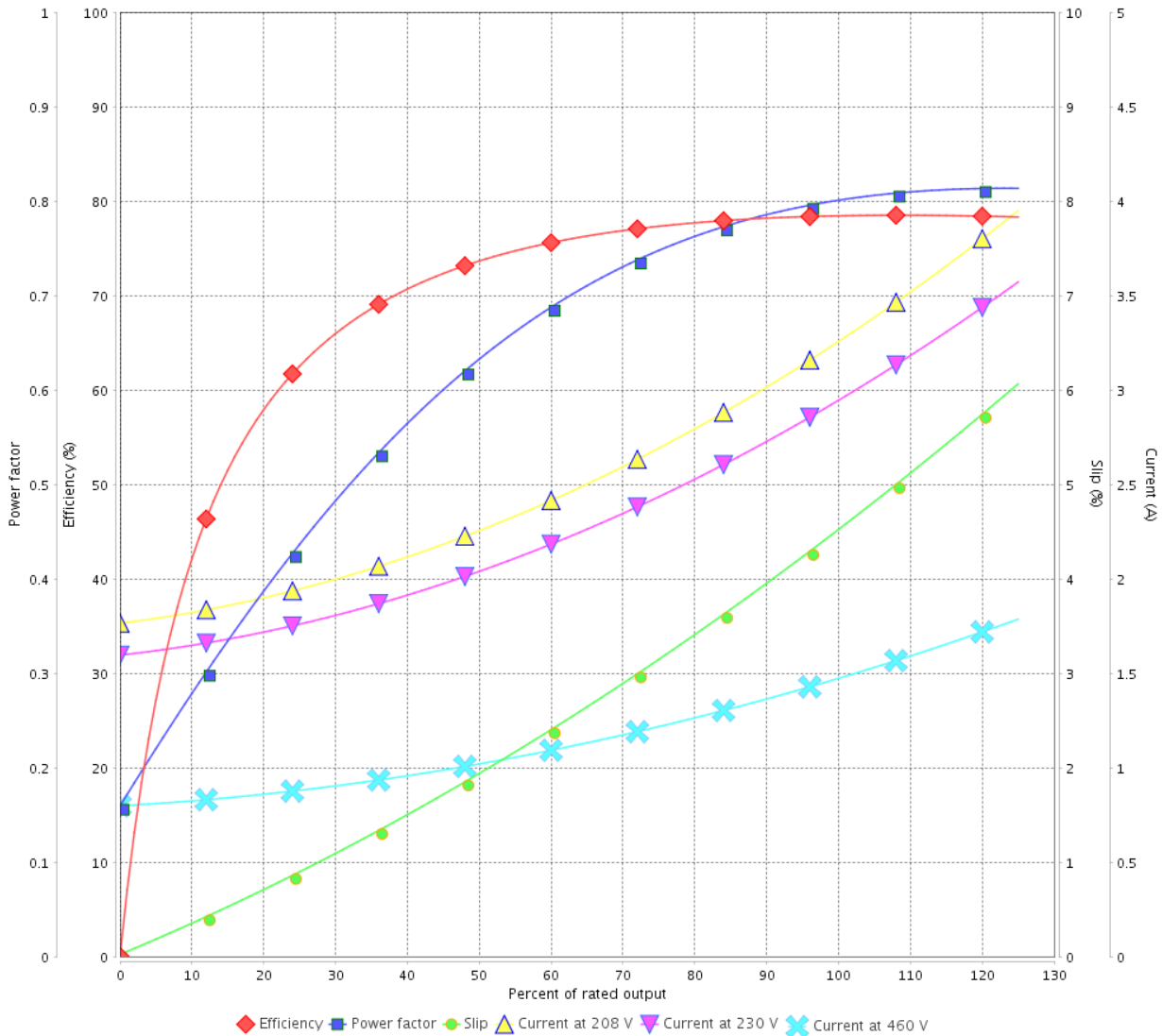


Customer :

Product line : Jet Pump - J type Premium
Efficiency Three-Phase

Product code : 15942864

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 3.00/1.50 A
 LRC : 8.8
 Rated torque : 0.211 kgfm
 Locked rotor torque : 360 %
 Breakdown torque : 380 %
 Rated speed : 3435 rpm

Moment of inertia (J) : 0.0011 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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|--------------|-----------------|-----------|---------|----------|
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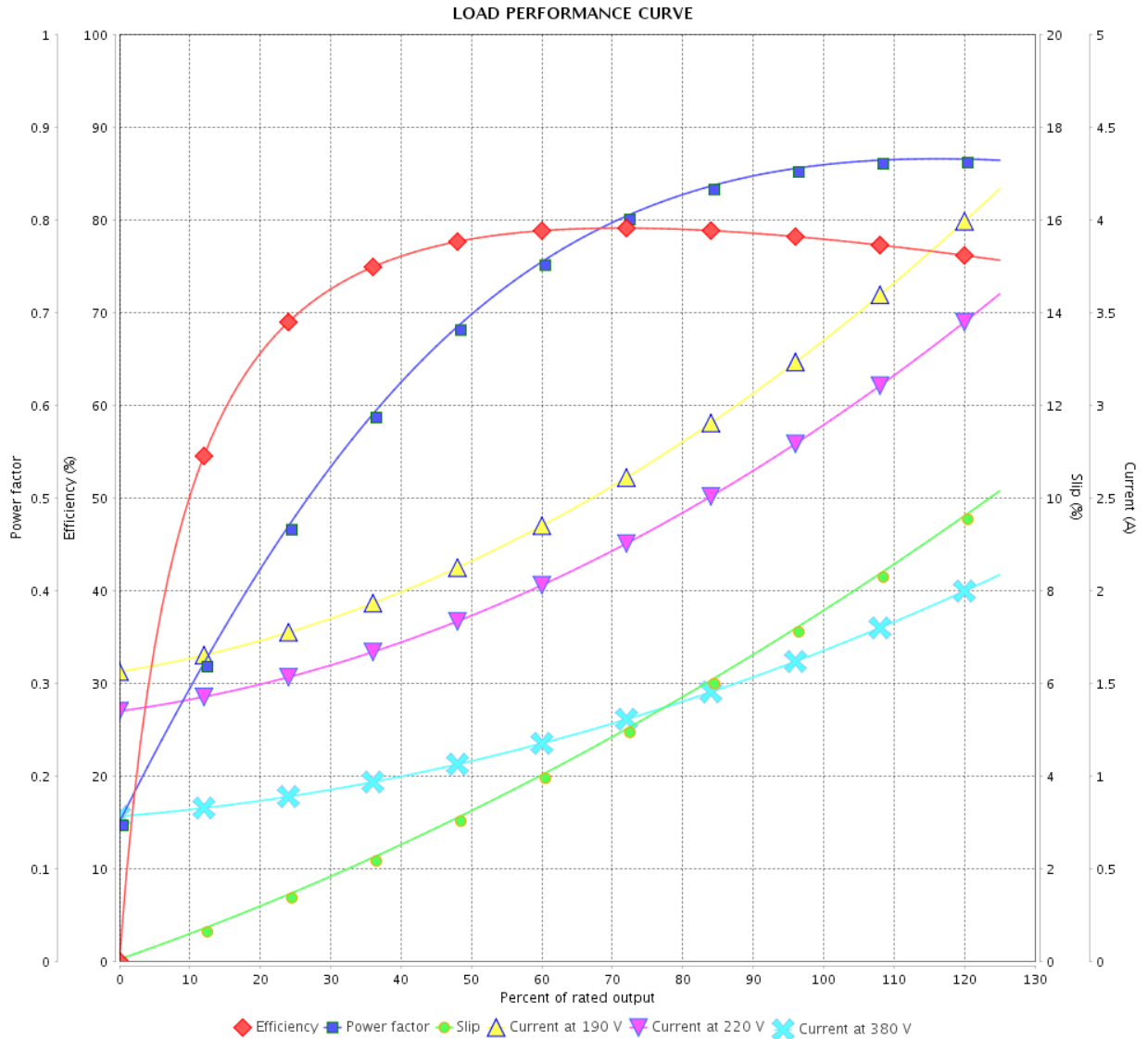
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Premium
Efficiency Three-Phase

Product code : 15942864



Performance : 190-220/380 V 50 Hz 2P

Rated current : 3.40-2.94/1.70 A
 LRC : 6.5
 Rated torque : 0.262 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 250 %
 Rated speed : 2770 rpm

Moment of inertia (J) : 0.0011 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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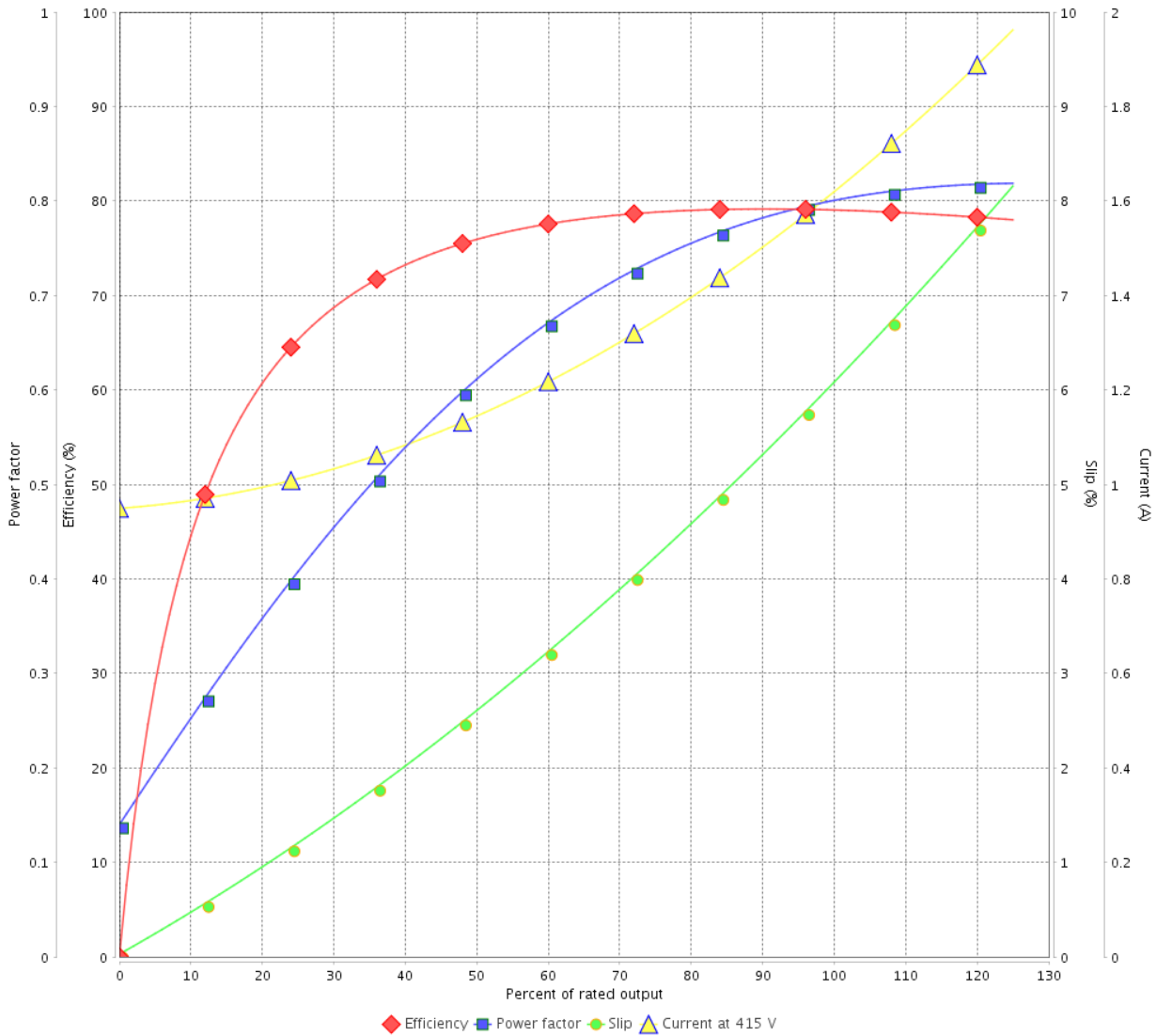


Customer :

Product line : Jet Pump - J type Premium
Efficiency Three-Phase

Product code : 15942864

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 2P

Rated current : 1.65 A
LRC : 7.5
Rated torque : 0.258 kgfm
Locked rotor torque : 330 %
Breakdown torque : 310 %
Rated speed : 2815 rpm

Moment of inertia (J) : 0.0011 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------------|----------|
| | | | | |
| Performed by | | | Page 4 / 4 | Revision |
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| Date | 16/05/2022 | | | |