

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | |
|--|---|
| Customer : | |
| Product line | : Jet Pump - J type Three-Phase |
| Product code : | 13721750 |
| Frame | : W56J |
| 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 | : W-6 |
| Rotation ¹ | : CCW |
| Starting method | : Direct On Line |
| Approx. weight ² | : 7.9 kg |
| Moment of inertia (J) | : 0.0008 kgm ² |
| Output [HP] | 0.5 |
| Poles | 2 |
| Frequency [Hz] | 60 |
| Rated voltage [V] | 208-230/460 |
| Rated current [A] | 1.73-1.57/0.784 |
| L. R. Amperes [A] | 13.3-12.1/6.04 |
| LRC [A] | 7.7x(Code L) |
| No load current [A] | 0.719-0.834/0.417 |
| Rated speed [RPM] | 3435 |
| Slip [%] | 4.58 |
| Rated torque [kgfm] | 0.106 |
| Locked rotor torque [%] | 330 |
| Breakdown torque [%] | 360 |
| Service factor | |
| Temperature rise | 80 K |
| Locked rotor time | 32s (cold) 18s (hot) |
| Noise level ² | 65.0 dB(A) |
| Efficiency (%) | 25% |
| | 50% |
| | 75% |
| | 100% |
| Power Factor | 25% |
| | 50% |
| | 75% |
| | 100% |
| Bearing type | : <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS |
| Sealing | : V'Ring V'Ring |
| Lubrication interval | : - - |
| Lubricant amount | : - - |
| Lubricant type | : Mobil Polyrex EM |
| Foundation loads | Max. traction : 8 kgf Max. compression : 16 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 by | Performed |
| Checked by | Checked |
| Date | Date |
| 16/05/2022 | |
| Page | Revision |
| 1 / 4 | |

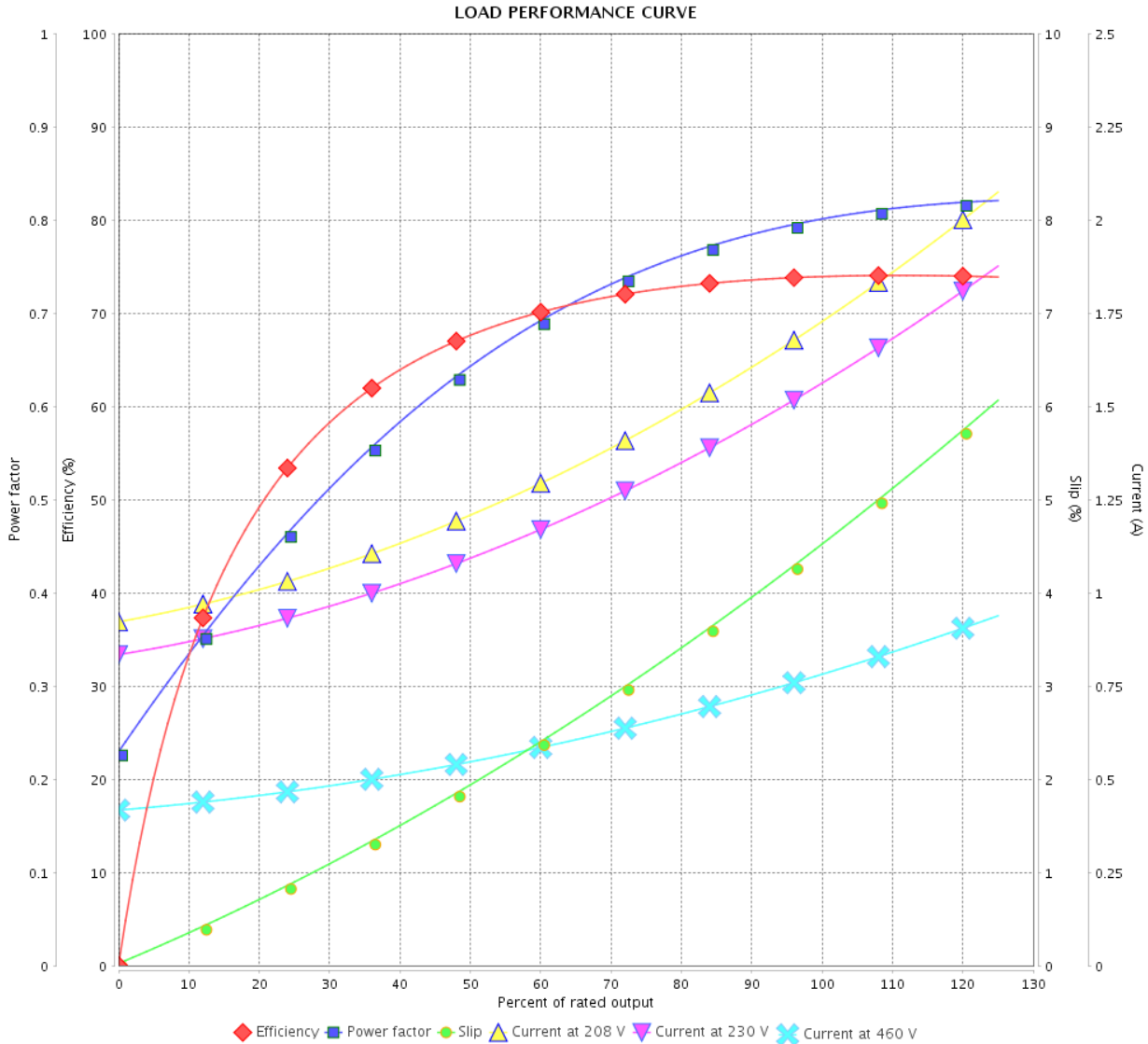
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase Product code : 13721750



Performance : 208-230/460 V 60 Hz 2P

Rated current : 1.73-1.57/0.784 A
 LRC : 7.7
 Rated torque : 0.106 kgfm
 Locked rotor torque : 330 %
 Breakdown torque : 360 %
 Rated speed : 3435 rpm

Moment of inertia (J) : 0.0008 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|----------|
| | | | | |
| Performed by | | | Page | Revision |
| Checked by | | | | |
| Date | | | | |

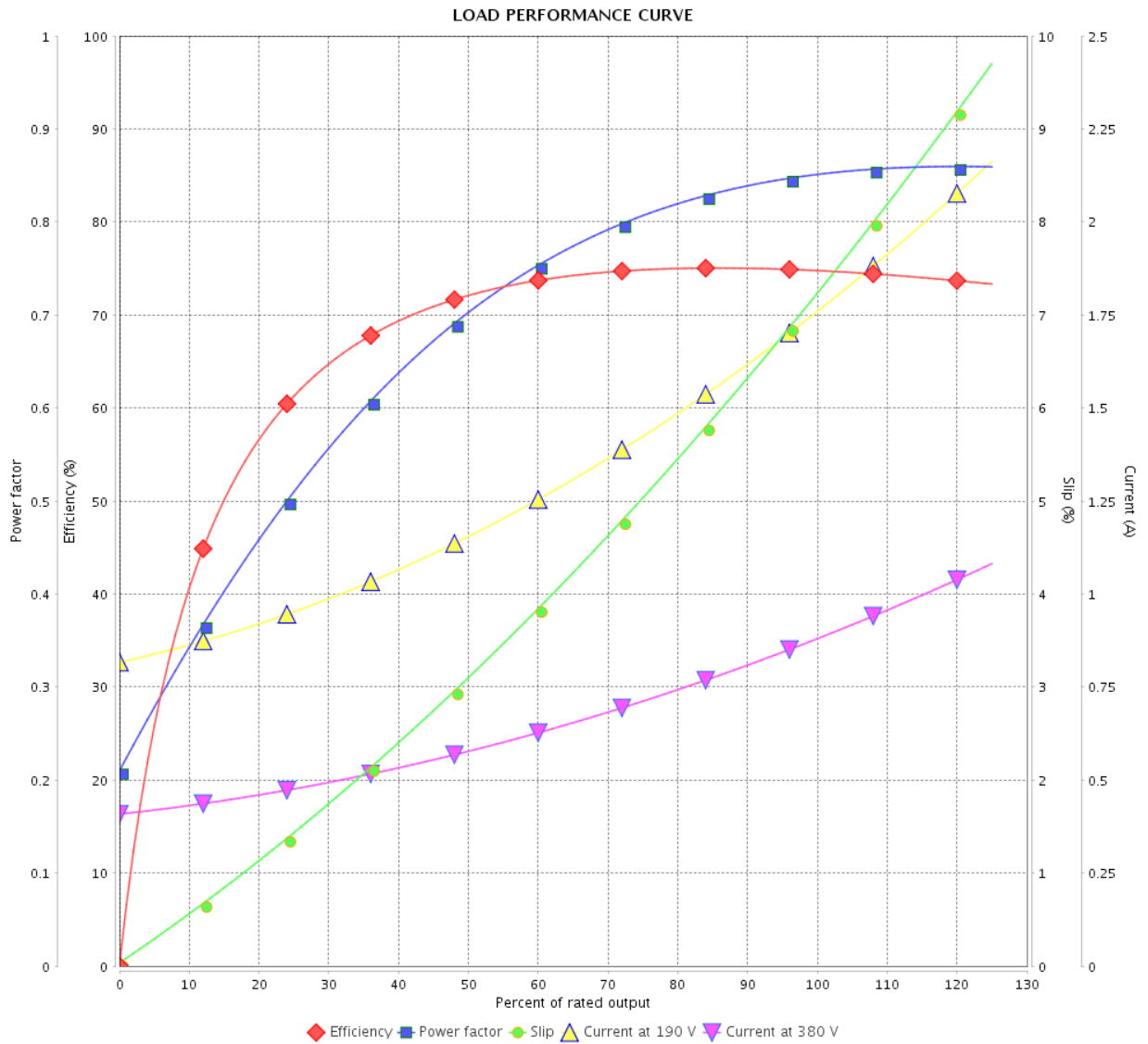
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase Product code : 13721750



Performance : 190/380 V 50 Hz 2P

Rated current : 1.77/0.885 A
 LRC : 5.8
 Rated torque : 0.131 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 2780 rpm

Moment of inertia (J) : 0.0008 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 | Revision |
| Checked by | | | 3 / 4 | |
| Date | 16/05/2022 | | | |

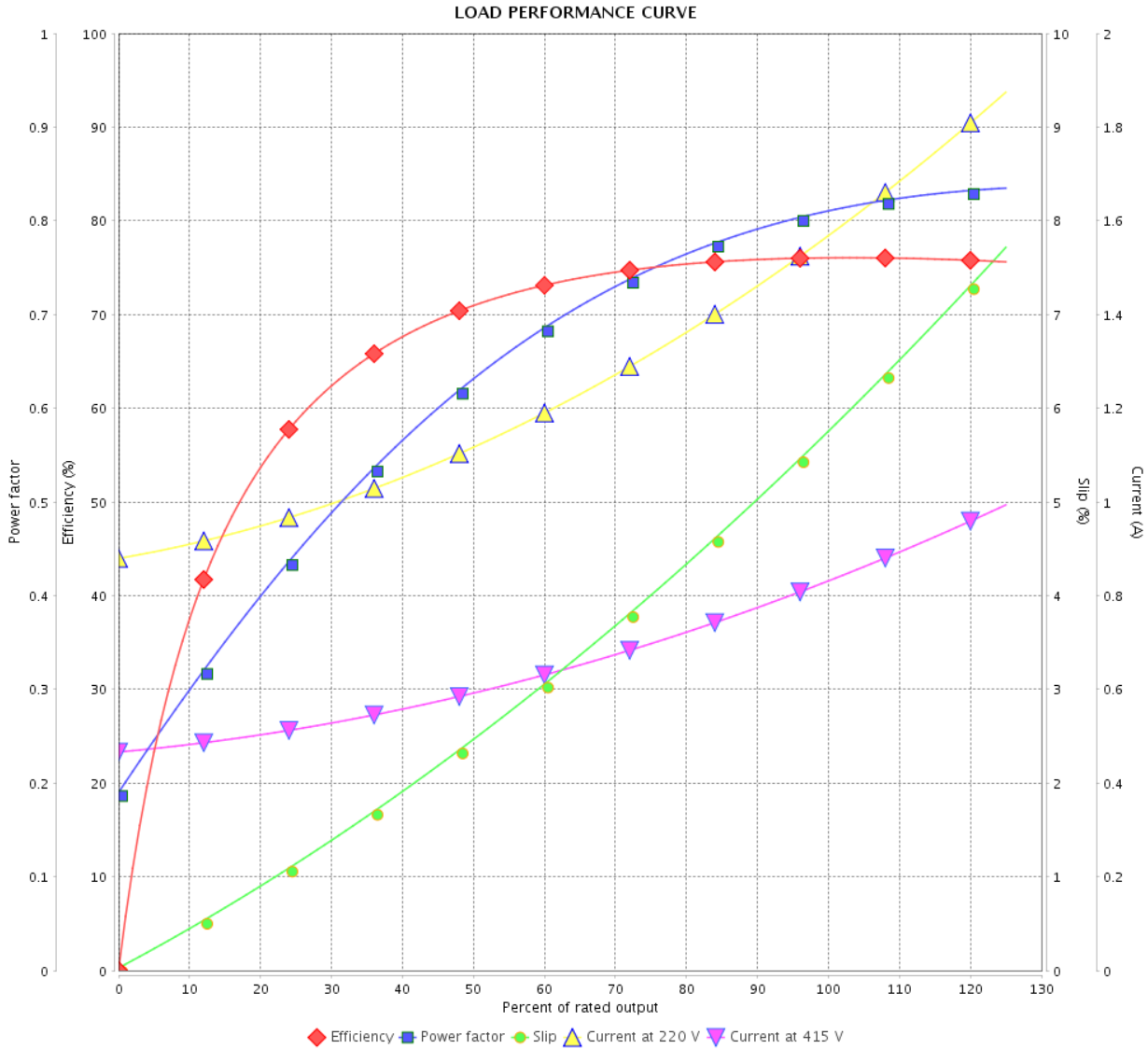
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase Product code : 13721750



Performance : 220/415 V 50 Hz 2P

Rated current : 1.58/0.836 A
 LRC : 6.8
 Rated torque : 0.128 kgfm
 Locked rotor torque : 300 %
 Breakdown torque : 310 %
 Rated speed : 2825 rpm

Moment of inertia (J) : 0.0008 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 |
| Checked by | | | | |
| Date | 16/05/2022 | | | |