

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | |
|--|--|-----------|---------|----------|
| Customer : | | | | |
| Product line | : Standard Efficiency Three-Phase | | | |
| Product code | : 13406452 | | | |
| Frame : 56H Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : A | Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 15.0 kg Moment of inertia (J) : 0.0044 kgm ² | | | |
| Output [HP] | 1.5 | | | |
| Poles | 4 | | | |
| Frequency [Hz] | 60 | | | |
| Rated voltage [V] | 230/460 | | | |
| Rated current [A] | 4.46/2.23 | | | |
| L. R. Amperes [A] | 33.5/16.7 | | | |
| LRC [A] | 7.5x(Code K) | | | |
| No load current [A] | 3.00/1.50 | | | |
| Rated speed [RPM] | 1750 | | | |
| Slip [%] | 2.78 | | | |
| Rated torque [kgfm] | 0.622 | | | |
| Locked rotor torque [%] | 250 | | | |
| Breakdown torque [%] | 300 | | | |
| Service factor | 1.00 | | | |
| Temperature rise | 80 K | | | |
| Locked rotor time | 16s (cold) 9s (hot) | | | |
| Noise level ² | 52.0 dB(A) | | | |
| Efficiency (%) | 25% | | | |
| | 50% | | | |
| | 75% | | | |
| | 100% | | | |
| Power Factor | 25% | | | |
| | 50% | | | |
| | 75% | | | |
| | 100% | | | |
| Bearing type : Drive end 6204 ZZ Non drive end 6202 ZZ Sealing : V'Ring V'Ring Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM | Foundation loads Max. traction : 58 kgf Max. compression : 73 kgf | | | |
| Notes USABLE @208V 4.93A SF 1.00 SFA 4.93A | | | | |
| 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 | 11/05/2022 | | 1 / 4 | |

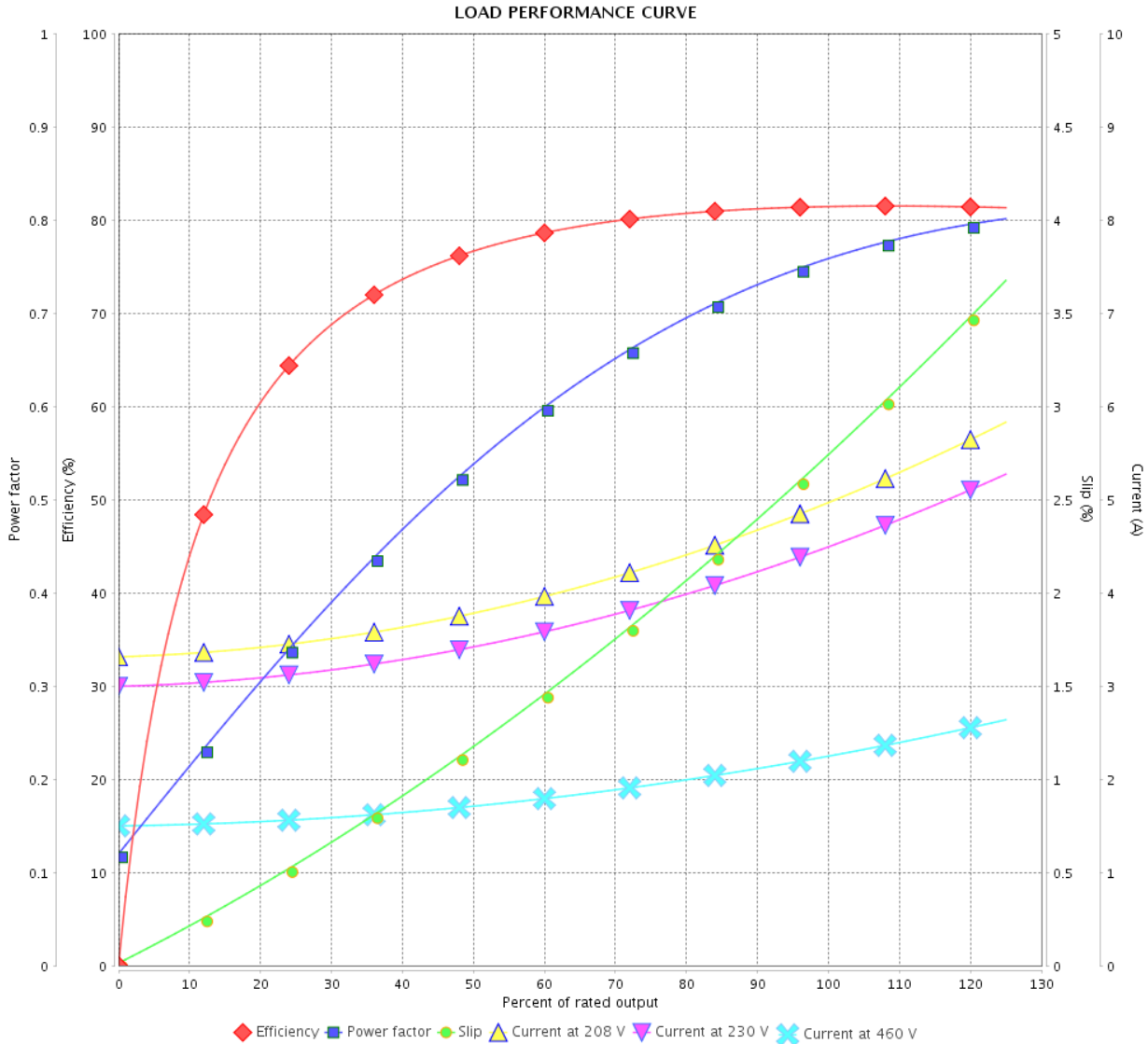
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13406452



Performance : 230/460 V 60 Hz 4P

Rated current : 4.46/2.23 A
 LRC : 7.5
 Rated torque : 0.622 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0044 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

| Rev. | Changes Summary | Performed | Checked | Date |
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| Performed by | | | Page | Revision |
| Checked by | | | | |
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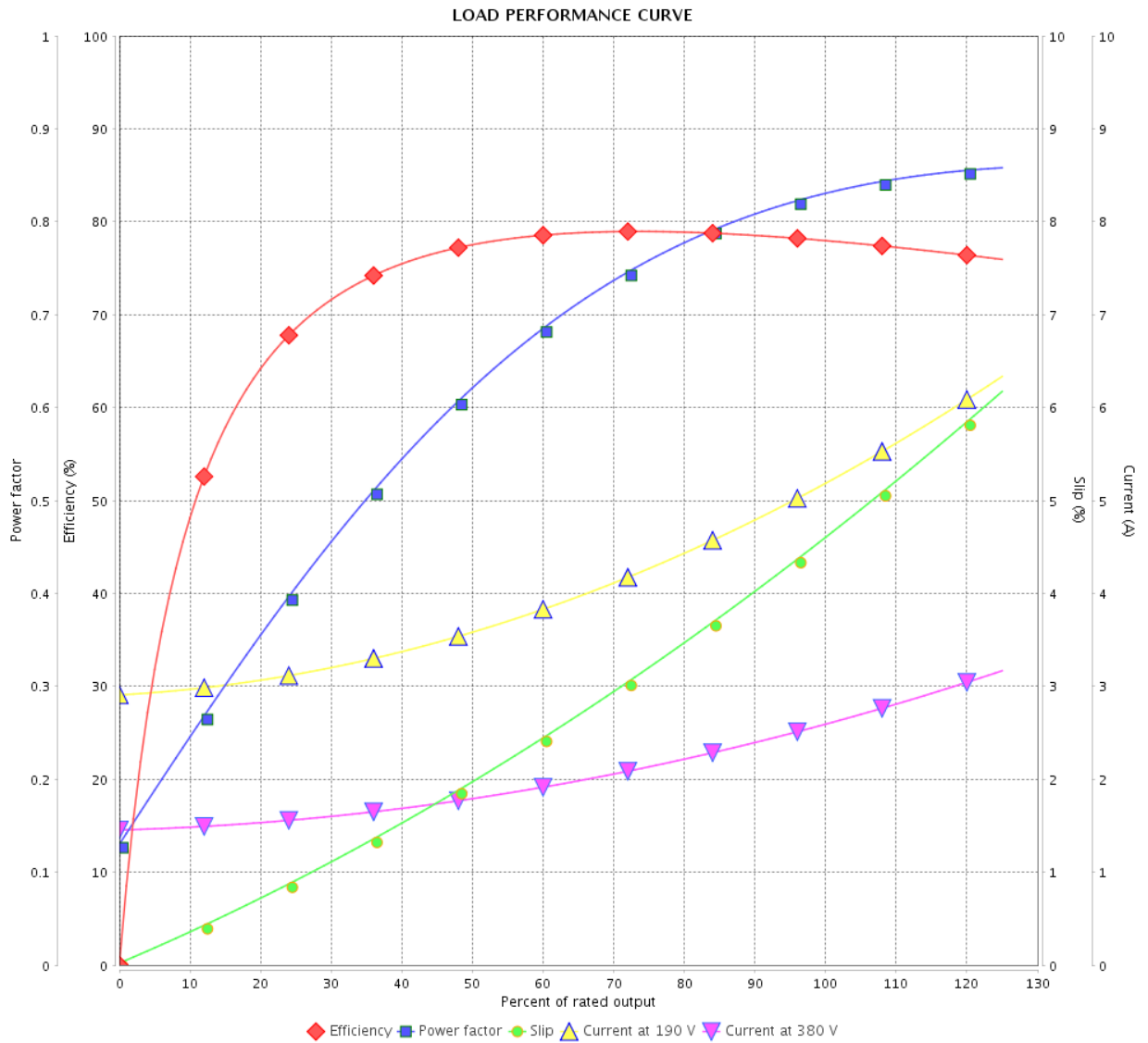
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 13406452



Performance : 190/380 V 50 Hz 4P

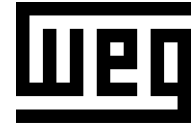
Rated current : 5.16/2.58 A
 LRC : 6.0
 Rated torque : 0.761 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 220 %
 Rated speed : 1430 rpm

Moment of inertia (J) : 0.0044 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|----------|
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| Performed by | | | Page | Revision |
| Checked by | | | | |
| Date | | | | |
| | | | 3 / 4 | |

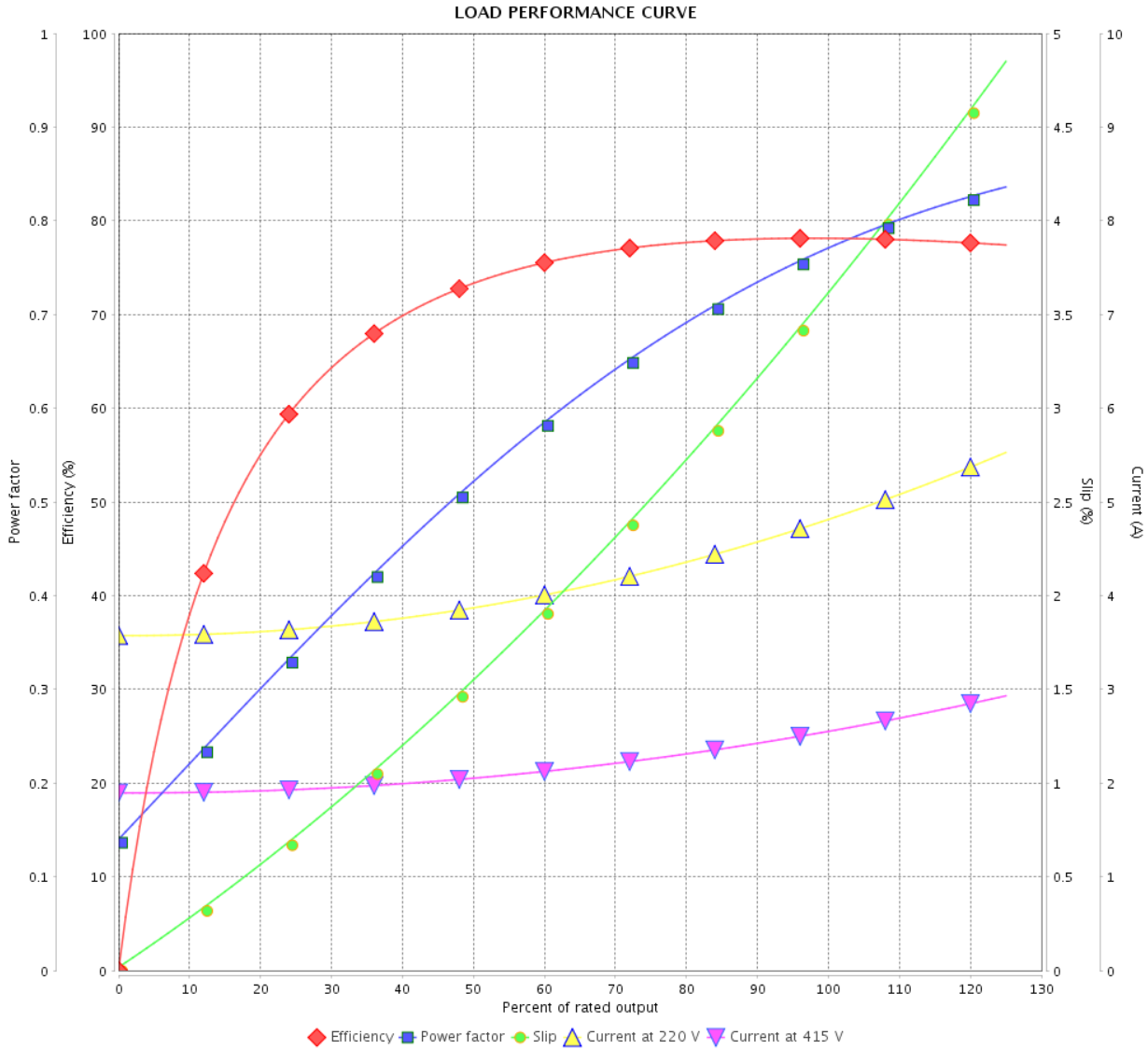
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13406452



Performance : 220/415 V 50 Hz 4P

Rated current : 4.79/2.54 A
 LRC : 6.7
 Rated torque : 0.753 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0044 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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|--------------|-----------------|-----------|---------------|----------|
| | | | | |
| Performed by | | | Page 4 / 4 | Revision |
| Checked by | | | | |
| Date | 11/05/2022 | | | |