

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | |
|--|-----------------------------------|--|---------------------------|----------|
| Customer | : | | | |
| Product line | : Standard Efficiency Three-Phase | Product code : | 12894765 | |
| Frame | : 56C | Cooling method | : IC411 - TEFC | |
| Insulation class | : F | Mounting | : F-1 | |
| Duty cycle | : Cont.(S1) | Rotation ¹ | : Both (CW and CCW) | |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line | |
| Altitude | : 1000 m.a.s.l. | Approx. weight ³ | : 16.4 kg | |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0052 kgm ² | |
| Design | : A | | | |
| Output [HP] | 2 | 1.5 | 1.5 | |
| Poles | 4 | 4 | 4 | |
| Frequency [Hz] | 60 | 50 | 50 | |
| Rated voltage [V] | 230/460 | 190/380 | 220/415 | |
| Rated current [A] | 5.70/2.85 | 5.24/2.62 | 4.96/2.63 | |
| L. R. Amperes [A] | 41.6/20.8 | 38.3/19.1 | 38.2/20.3 | |
| LRC [A] | 7.3x(Code K) | 7.3x(Code K) | 7.7x(Code L) | |
| No load current [A] | 3.33/1.66 | 3.23/1.61 | 3.52/1.87 | |
| Rated speed [RPM] | 1745 | 1445 | 1450 | |
| Slip [%] | 3.06 | 3.67 | 3.33 | |
| Rated torque [kgfm] | 0.832 | 0.753 | 0.751 | |
| Locked rotor torque [%] | 240 | 250 | 280 | |
| Breakdown torque [%] | 270 | 290 | 320 | |
| Service factor | | 1.15 | 1.15 | |
| Temperature rise | 80 K | 80 K | 80 K | |
| Locked rotor time | 14s (cold) 8s (hot) | 0s (cold) 0s (hot) | 0s (cold) 0s (hot) | |
| Noise level ² | 52.0 dB(A) | 49.0 dB(A) | 49.0 dB(A) | |
| Efficiency (%) | 25% | 78.9 | 77.4 | 74.4 |
| | 50% | 80.0 | 77.8 | 75.6 |
| | 75% | 81.5 | 80.6 | 79.6 |
| | 100% | 82.5 | 80.6 | 80.5 |
| Power Factor | 25% | 0.33 | 0.32 | 0.29 |
| | 50% | 0.58 | 0.57 | 0.52 |
| | 75% | 0.72 | 0.71 | 0.66 |
| | 100% | 0.80 | 0.79 | 0.75 |
| Bearing type | : Drive end : 6204 ZZ | Non drive end : 6202 ZZ | Foundation loads | |
| Sealing | : V'Ring | Without Bearing Seal | Max. traction : 69 kgf | |
| Lubrication interval | : - | - | Max. compression : 85 kgf | |
| Lubricant amount | : - | - | | |
| Lubricant type | : Mobil Polyrex EM | | | |
| Notes | | | | |
| USABLE @208V 6.30A SF 1.00 SFA 6.30A | | | | |
| 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 | 13/05/2022 | | 1 / 4 | |

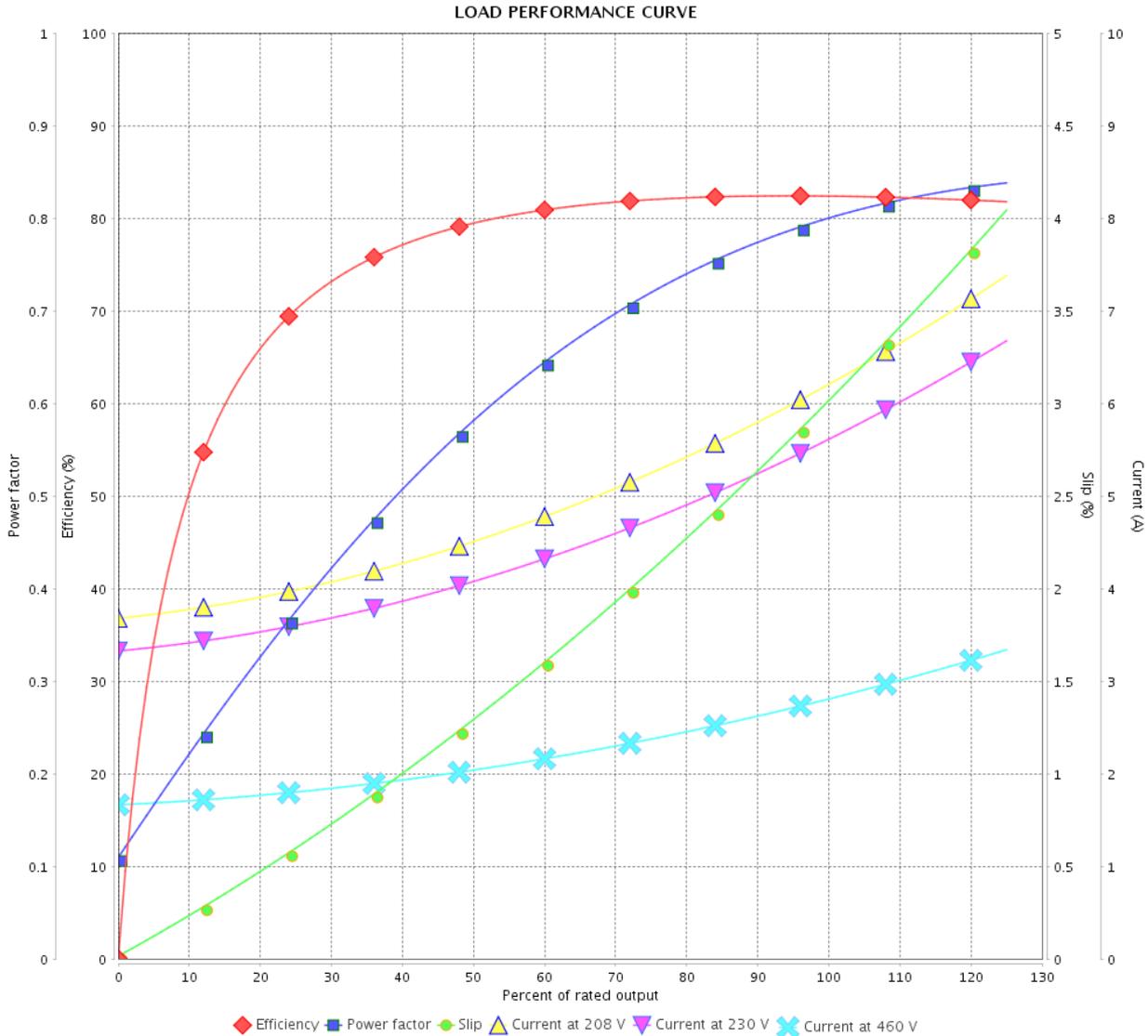
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894765



Performance : 230/460 V 60 Hz 4P

Rated current : 5.70/2.85 A
 LRC : 7.3
 Rated torque : 0.832 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0052 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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| Date | 13/05/2022 | | | |

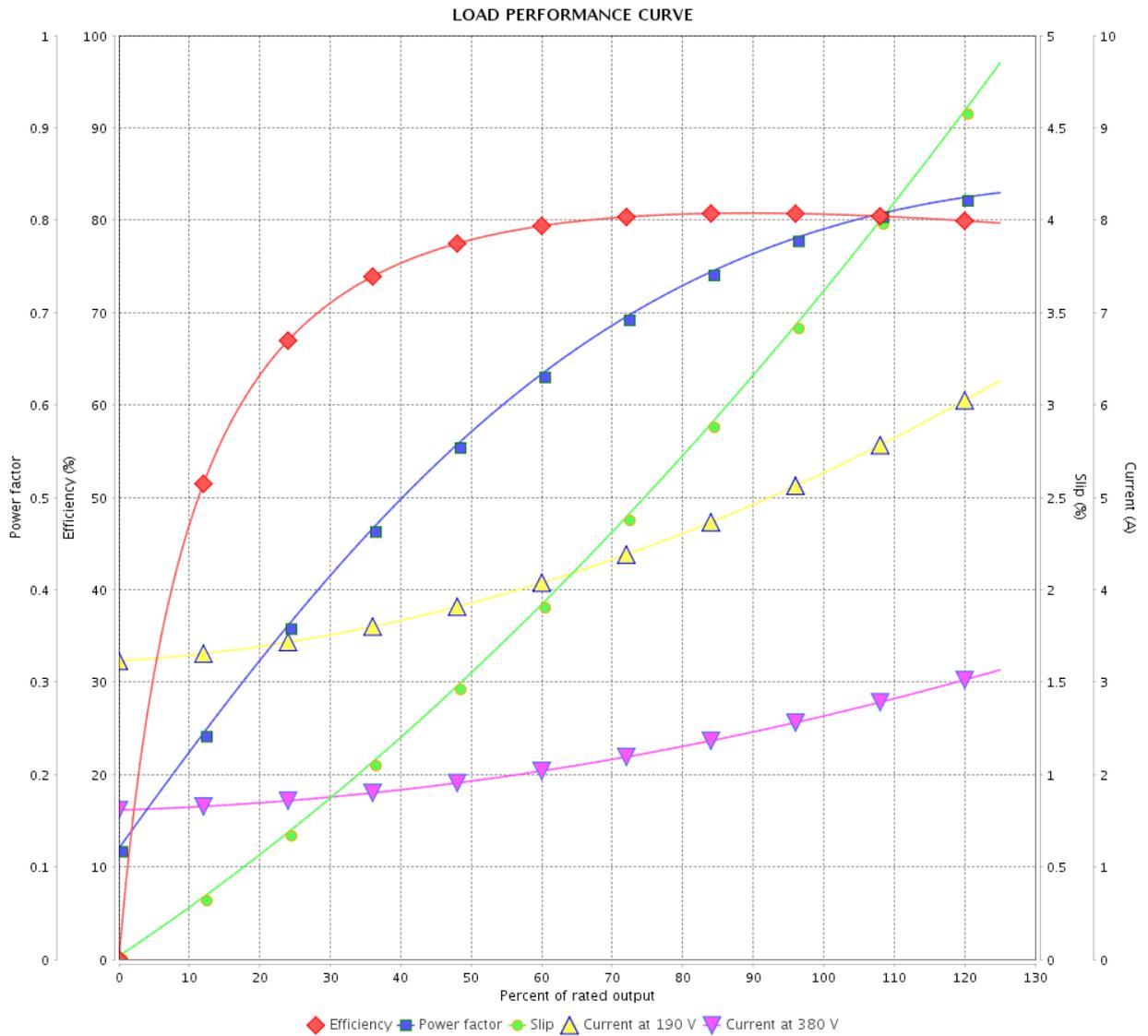
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 12894765



Performance : 190/380 V 50 Hz 4P

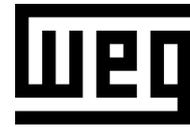
Rated current : 5.24/2.62 A
 LRC : 7.3
 Rated torque : 0.753 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 290 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0052 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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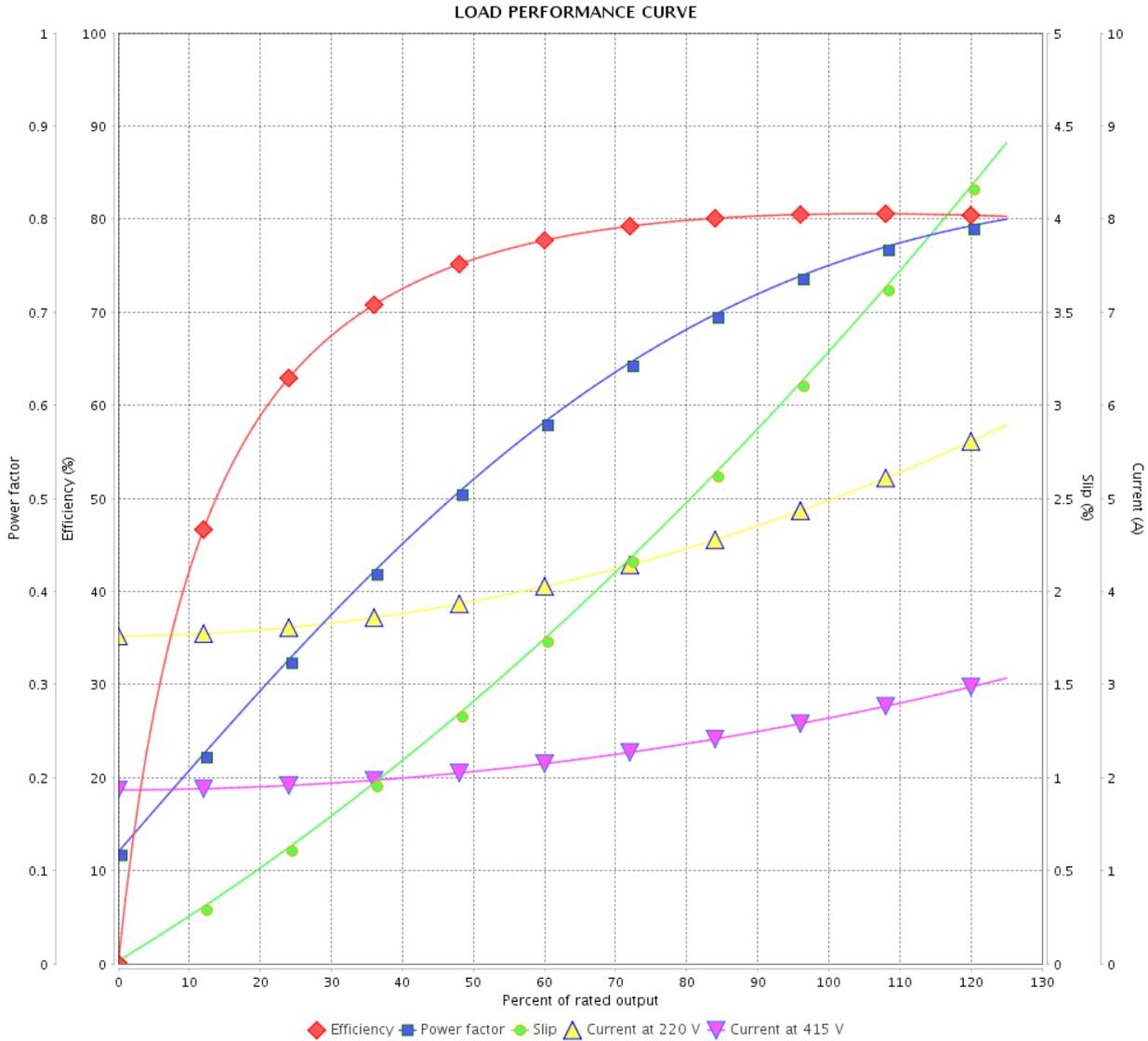
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 12894765



Performance : 220/415 V 50 Hz 4P

Rated current : 4.96/2.63 A
 LRC : 7.7
 Rated torque : 0.751 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 320 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0052 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

| Rev. | Changes Summary | Performed | Checked | Date |
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| Performed by | | | Page 4 / 4 | Revision |
| Checked by | | | | |
| Date | 13/05/2022 | | | |