

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | | |
|--|-----------------------------------|------------------------------|--|----------|----------|
| Customer : | | | | | |
| Product line | : Standard Efficiency Three-Phase | Product code : | 12895592 | | |
| 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 ² | : 8.9 kg | | |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0022 kgm ² | | |
| Output [HP] | 0.33 | 0.33 | 0.33 | | |
| Poles | 4 | 4 | 4 | | |
| Frequency [Hz] | 60 | 50 | 50 | | |
| Rated voltage [V] | 208-230/460 | 190/380 | 220/415 | | |
| Rated current [A] | 1.38-1.25/0.624 | 1.36/0.678 | 1.29/0.682 | | |
| L. R. Amperes [A] | 9.80-8.86/4.43 | 7.59/3.80 | 7.59/4.02 | | |
| LRC [A] | 7.1x(Code M) | 5.6x(Code J) | 5.9x(Code K) | | |
| No load current [A] | 0.810-0.940/0.470 | 0.924/0.462 | 0.941/0.499 | | |
| Rated speed [RPM] | 1765 | 1455 | 1460 | | |
| Slip [%] | 1.94 | 3.00 | 2.67 | | |
| Rated torque [kgfm] | 0.136 | 0.165 | 0.164 | | |
| Locked rotor torque [%] | 229 | 170 | 190 | | |
| Breakdown torque [%] | 300 | 260 | 290 | | |
| Service factor | | 1.00 | 1.00 | | |
| Temperature rise | 80 K | 80 K | 80 K | | |
| Locked rotor time | 55s (cold) 31s (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% | 62.0 | 64.9 | 62.8 | |
| | 50% | 64.0 | 66.7 | 65.0 | |
| | 75% | 72.0 | 72.0 | 71.1 | |
| | 100% | 74.0 | 73.7 | 73.5 | |
| Power Factor | 25% | 0.26 | 0.31 | 0.28 | |
| | 50% | 0.47 | 0.55 | 0.51 | |
| | 75% | 0.58 | 0.67 | 0.63 | |
| | 100% | 0.68 | 0.76 | 0.72 | |
| Bearing type | : <u>Drive end</u> 6203 ZZ | <u>Non drive end</u> 6202 ZZ | Foundation loads | | |
| Sealing | : V'Ring | Without Bearing Seal | Max. traction | : 10 kgf | |
| Lubrication interval | : - | - | Max. compression | : 19 kgf | |
| Lubricant amount | : - | - | | | |
| Lubricant type | : Mobil Polyrex EM | | | | |
| 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 | Checked | Date |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
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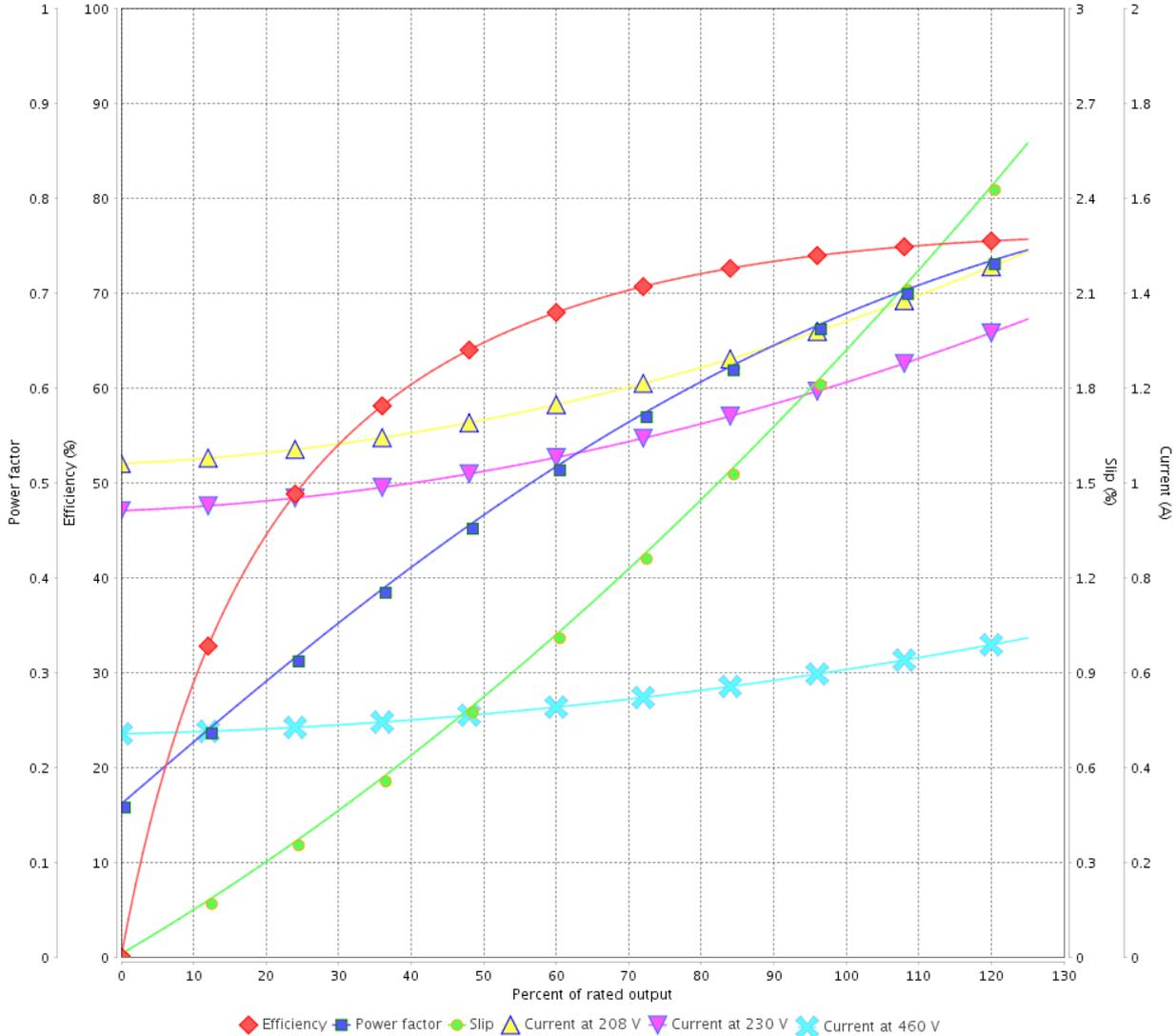
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12895592

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Performance : 208-230/460 V 60 Hz 4P

Rated current : 1.38-1.25/0.624 A
 LRC : 7.1
 Rated torque : 0.136 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0022 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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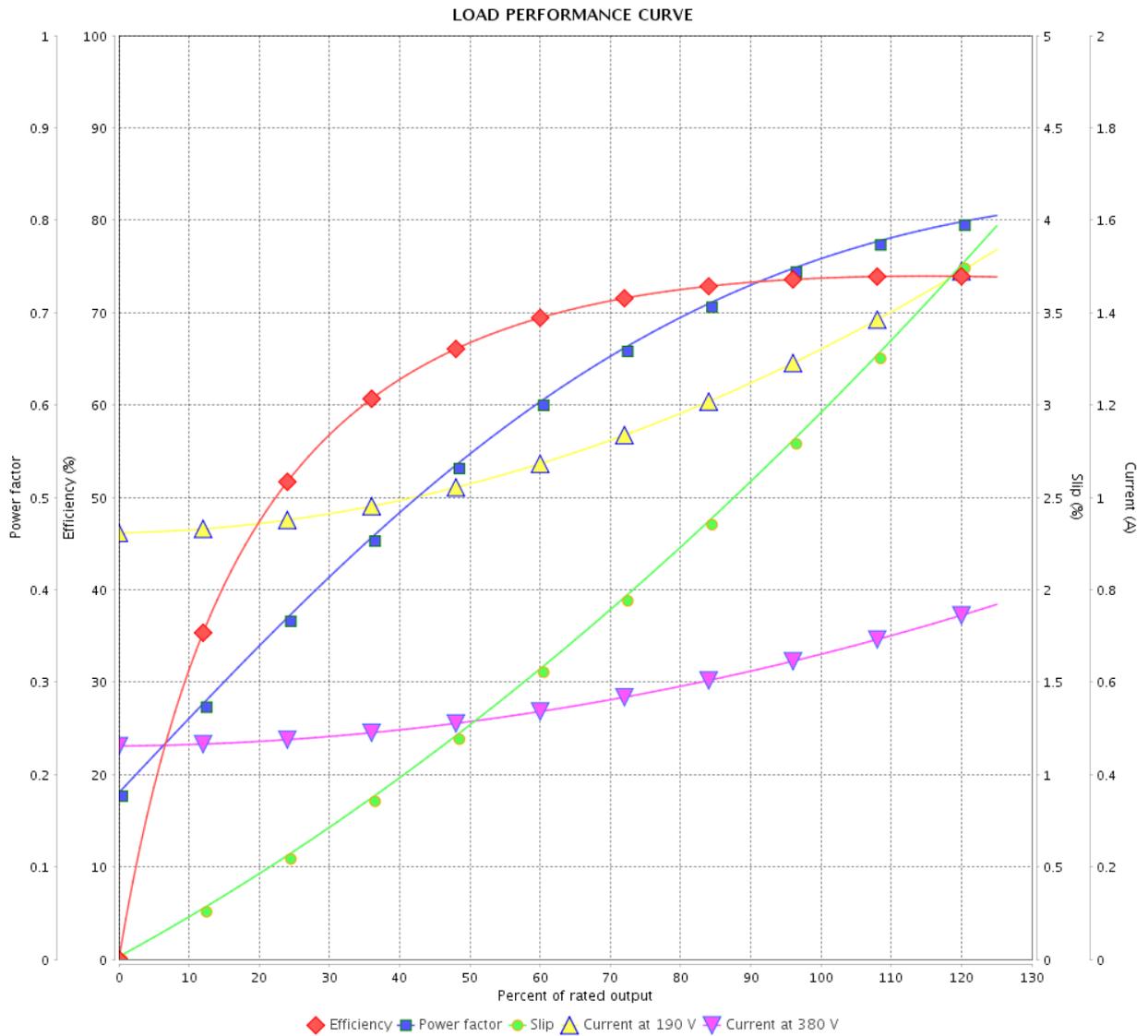
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 12895592



Performance : 190/380 V 50 Hz 4P

Rated current : 1.36/0.678 A
 LRC : 5.6
 Rated torque : 0.165 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 260 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0022 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K

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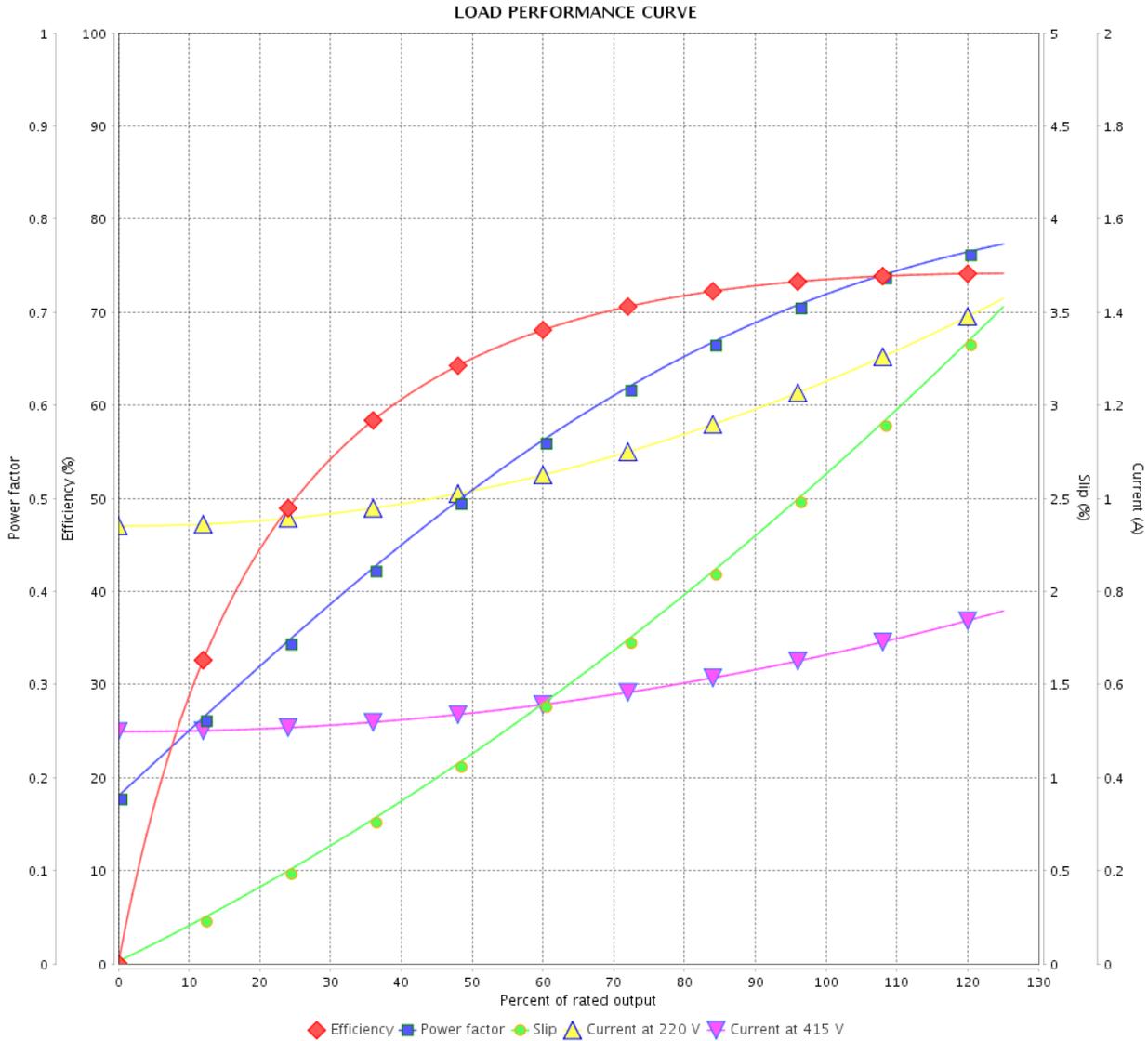
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12895592



Performance : 220/415 V 50 Hz 4P

Rated current : 1.29/0.682 A
 LRC : 5.9
 Rated torque : 0.164 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 290 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0022 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K

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| Date | 11/05/2022 | | | |