DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805243

Frame : 56C Cooling method : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight³ : 11.0 kg Protection degree : IP55 Moment of inertia (J) : 0.0027 kgm² Output [HP] 1 Poles 2 2 2

Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 220/415 190/380 Rated current [A] 3.02/1.51 3.32/1.66 3.04/1.61 L. R. Amperes [A] 21.7/10.9 19.3/9.63 19.1/10.1 LRC [A] 7.2x(Code K) 5.8x(Code H) 6.3x(Code H) No load current [A] 1.42/0.710 1.39/0.697 1.50/0.793 Rated speed [RPM] 3480 2855 2835 Slip [%] 4.83 3.33 5.50 Rated torque [kgfm] 0.209 0.256 0.254 Locked rotor torque [%] 240 180 210 Breakdown torque [%] 290 229 250 Service factor 1.00 1.00 Temperature rise 80 K 105 K 80 K 54s (cold) 30s (hot) Locked rotor time 43s (cold) 24s (hot) 48s (cold) 27s (hot) Noise level² 68.0 dB(A) 65.0 dB(A) 65.0 dB(A) 25% 64.0 73.8 72.1 50% 66.0 73.7 72.7 Efficiency (%) 75% 72.0 76.2 76.1 100% 74.0 75.5 76.2 25% 0.43 0.48 0.43 50% 0.68 0.76 0.71 Power Factor 75% 0.79 0.86 0.83 100% 0.84 0.91 0.88

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6204 ZZ 6202 ZZ Max. traction : 15 kgf
Sealing : V'Ring Without Max. compression : 26 kgf

Bearing Seal

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 3.34A SF 1.00 SFA 3.34A

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.

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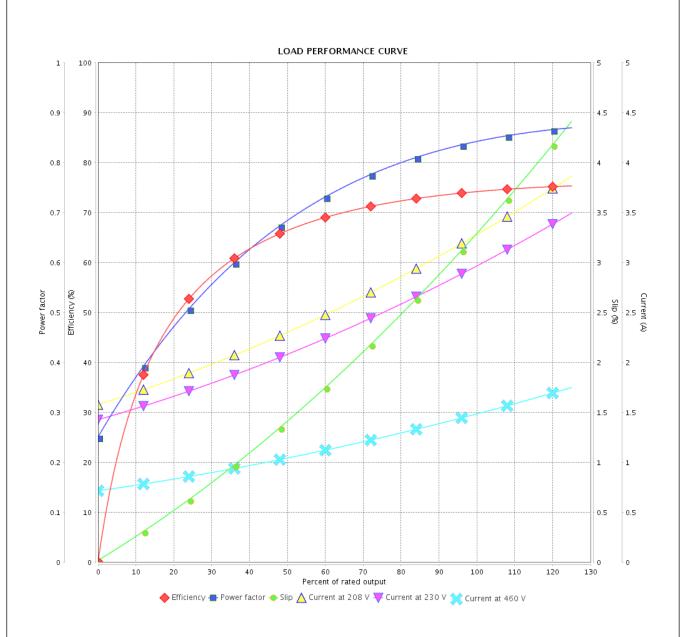
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Three Phase Induction Motor - Squirrel Cage



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Product line : Standard Efficiency Three-Phase Product code : 12805243



Performance	:	230/460 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: ue : se :	3.02/1.51 A 7.2 0.209 kgfm 240 % 290 % 3480 rpm	li S	Moment or Duty cycle nsulation Service far Temperatu	class ctor	: 0.0027 kgm : Cont.(S1) : F : : 80 K	2
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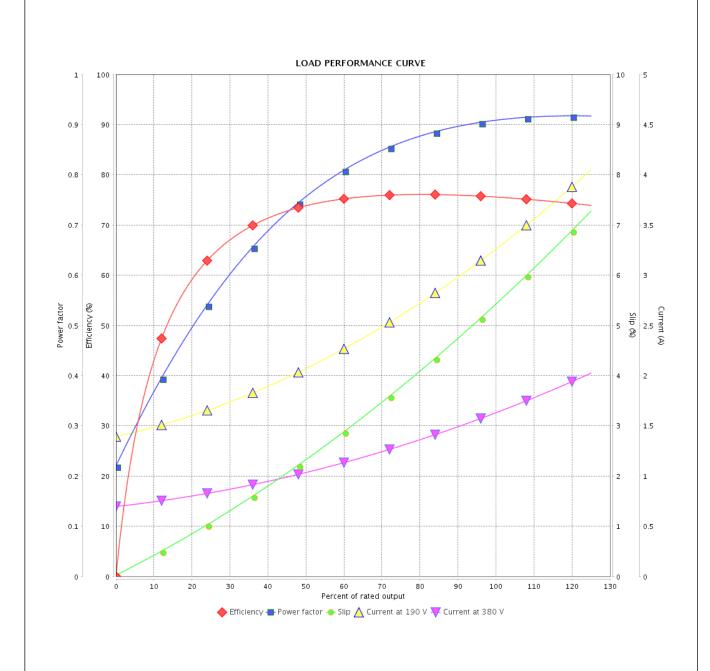
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805243



Performance : 190/380 V 50 Hz 2P : 3.32/1.66 A Rated current Moment of inertia (J) : 0.0027 kgm² **LRC** : 5.8 Duty cycle : Cont.(S1) : 0.256 kgfm Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2835 rpm

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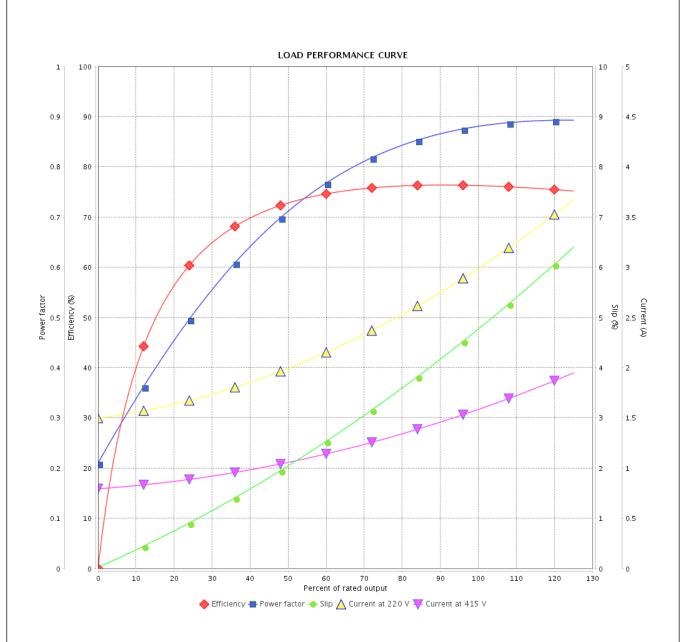
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Three Phase Induction Motor - Squirrel Cage



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Product line : Standard Efficiency Three-Phase Product code : 12805243



Performance : 220/415 V 50 Hz 2P : 3.04/1.61 A : 0.0027 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.3 : 0.254 kgfm Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2855 rpm

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