DATA SHEET

Customer

Rated torque [kgfm]

Locked rotor torque [%]

Three Phase Induction Motor - Squirrel Cage



4.99

150

Product line : NEMA Premium Efficiency Three-Product code: 12686828 : 254/6T Cooling method Frame : IC01 - ODP 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 : 1000 m.a.s.l. Approx. weight³ : 74.6 kg Altitude Design Moment of inertia (J) : 0.0331 kgm² : B Output [HP] 20 20 20 Poles 2 2 2 60 Frequency [Hz] 50 50 Rated voltage [V] 230/460 190-220/380 415 Rated current [A] 47.6/23.8 58.0-50.1/29.0 26.7 L. R. Amperes [A] 286/143 261-225/131 144 LRC [A] 6.0x(Code G) 4.5x(Code D) 5.4x(Code F) No load current [A] 17.0/8.50 16.2-14.0/8.09 9.87 Rated speed [RPM] 2910 3525 2895 Slip [%] 2.08 3.00 3.50

Breakdown torque [%] 190 229 240 Service factor 1.00 1.15 1.00 Temperature rise 80 K 105 K 80 K 0s (cold) 0s (hot) 0s (cold) 0s (hot) Locked rotor time 23s (cold) 13s (hot) Noise level² 70.0 dB(A) 68.0 dB(A) 68.0 dB(A) 25% 50% 90.2 90.6 90.5 Efficiency (%) 75% 91.0 89.5 90.2 100% 91.0 87.2 88.88 25% 0.76 0.82 0.75 50% Power Factor 75% 0.83 0.88 0.84 100% 0.87 0.90 0.88

5.01

130

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

4.12

180

Bearing type : 6309 Z C3 6208 Z C3 Max. traction : 143 kgf Sealing : Without Without Max. compression : 217 kgf

Bearing Seal Bearing Seal

Lubrication interval : 20000 h 20000 h
Lubricant amount : 13 g 8 g
Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 52.6A SF 1.00 SFA 52.6A

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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LOAD PERFORMANCE CURVE

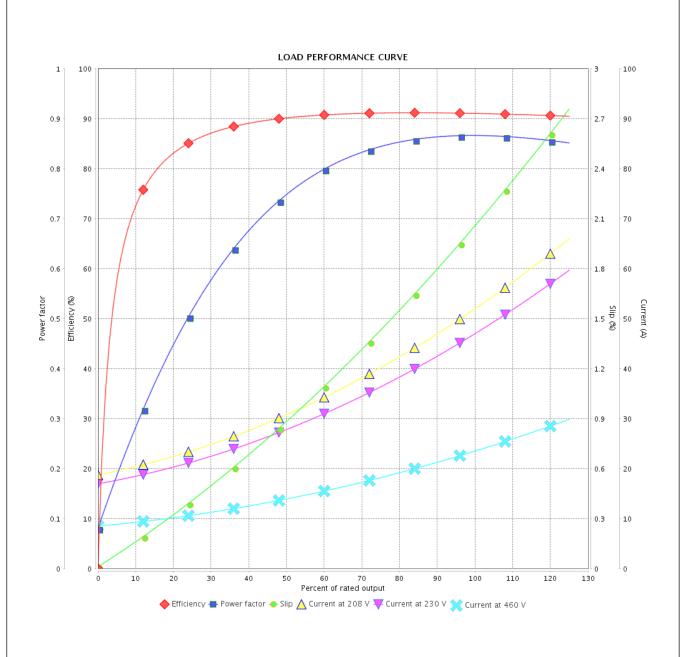
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12686828

Phase



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 47.6/23.8 A : 6.0 : 4.12 kgfm : 180 % : 240 % : 3525 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0331 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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Date

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

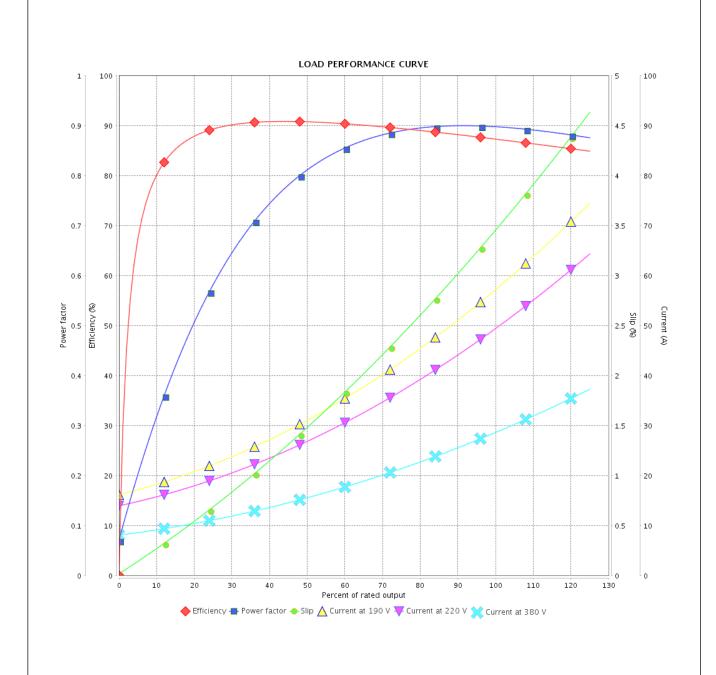
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Date

13/05/2022

Product line : NEMA Premium Efficiency Three- Product code : 12686828

Phase



Performance	: 190-220/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.0-50.1/29.0 A : 4.5 : 5.01 kgfm : 130 % : 190 % : 2895 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0331 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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Revision

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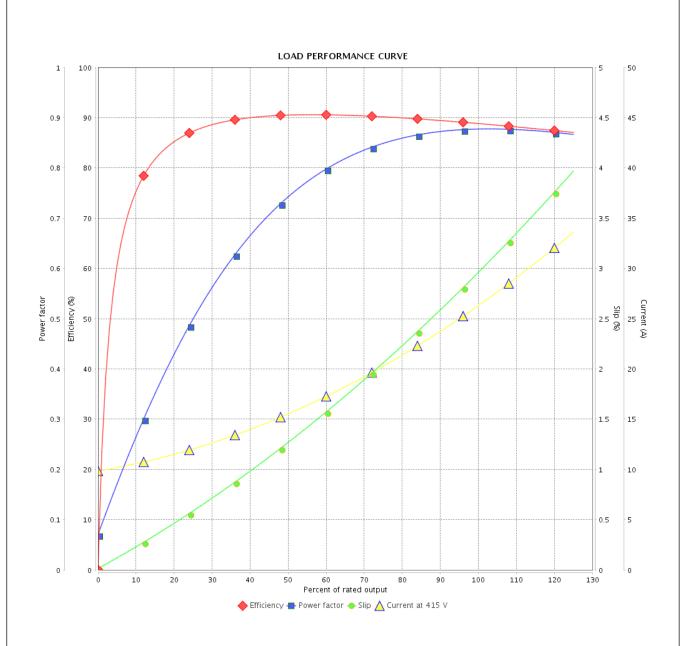
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12686828

Phase



Performance : 415 V 50 Hz 2P : 0.0331 kgm² : 26.7 A Moment of inertia (J) Rated current **LRC** : Cont.(S1) : 5.4 Duty cycle Insulation class : 4.99 kgfm : F Rated torque Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Design Rated speed : 2910 rpm : B D ----Changes Summan Ob - - 1 - - - 1

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