DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code: 13484346 Frame : 56C Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F 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 : 16.5 kg Protection degree : IP55 Moment of inertia (J) : 0.0046 kgm² Design : B Output [HP] 1.5 1.5 1.5 Poles 4 4 4 60 Frequency [Hz] 50 50 Rated voltage [V] 230/460 190-220/380 415 Rated current [A] 4.04/2.02 4.82-4.16/2.41 2.27 16.3 L. R. Amperes [A] 33.1/16.6 29.4-25.4/14.7 LRC [A] 6.1x(Code H) 7.2x(Code J) 8.2x(Code K) No load current [A] 2.17/1.08 2.13-1.84/1.07 1.26 Rated speed [RPM] 1750 1420 1435 Slip [%] 2.78 4.33 5.33 Rated torque [kgfm] 0.767 0.759 0.622 Locked rotor torque [%] 260 270 210 Breakdown torque [%] 300 250 300 Service factor 1.15 1.15 Temperature rise 80 K 80 K 80 K 36s (cold) 20s (hot) Locked rotor time 37s (cold) 21s (hot) 32s (cold) 18s (hot) Noise level² 52.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 85.5 84.7 83.5 Efficiency (%) 75% 86.5 84.7 84.9 100% 82.7 86.5 84.1 25% 0.59 0.67 0.59 50% Power Factor 75% 0.72 0.78 0.72 100% 0.79 0.84 0.80 Non drive end Foundation loads Drive end Bearing type 6204 ZZ 6202 ZZ Max. traction : 65 kgf Sealing V'Ring Without Max. compression : 81 kgf Bearing Seal Lubrication interval

Notes

Lubricant amount

Lubricant type

USABLE @208V 4.47A SF 1.00 SFA 4.47A

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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Mobil Polyrex EM

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Three Phase Induction Motor - Squirrel Cage



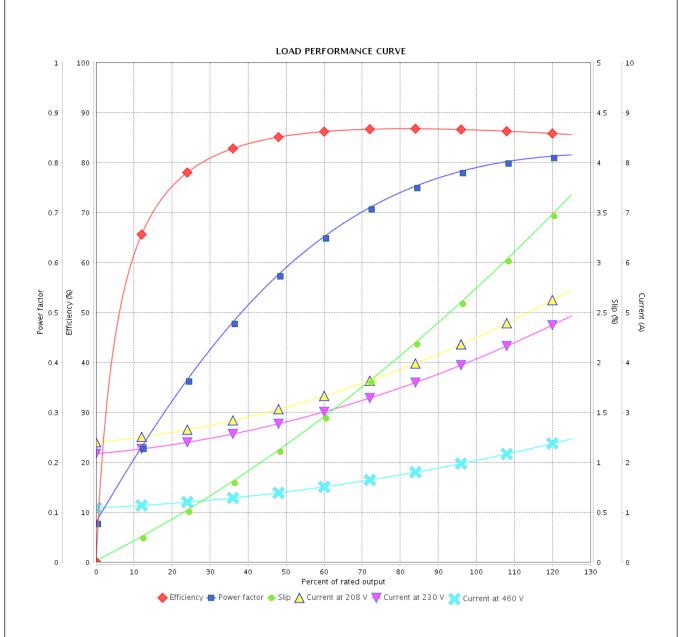
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Customer	

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Date

11/05/2022

Product line : Premium Efficiency Three-Phase Product code : 13484346



Performance	: 230/460 V	60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.04/2.02 / : 8.2 : 0.622 kgfm ue : 270 %	A Moment of Duty cycle in Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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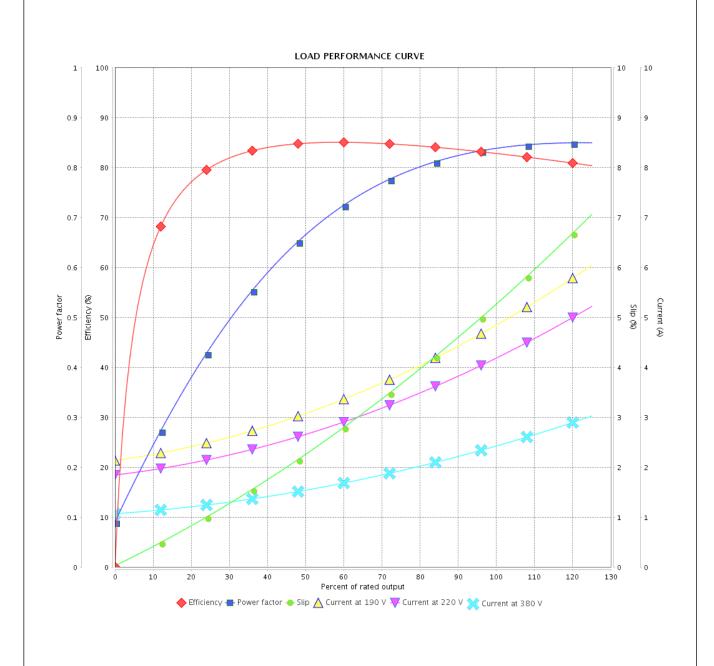
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Product line : Premium Efficiency Three-Phase Product code : 13484346



Performance	: 190-220/380 V 50 Hz 4P	: 190-220/380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.82-4.16/2.41 A : 6.1 : 0.767 kgfm : 210 % : 250 % : 1420 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0046 kgm² : Cont.(S1) : F : 1.15 : 80 K : B			
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Three Phase Induction Motor - Squirrel Cage



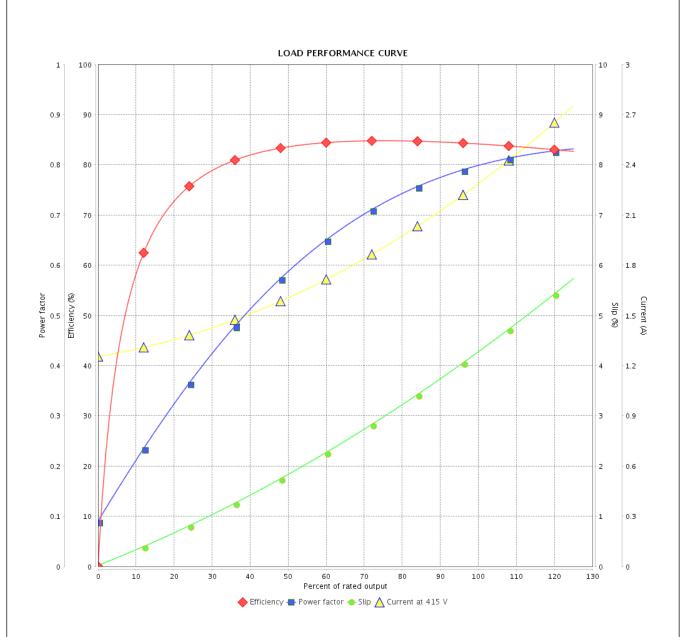
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Date

11/05/2022

Product line : Premium Efficiency Three-Phase Product code : 13484346



Performance		: 415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 2.27 A : 7.2 : 0.759 kgfm : 260 % : 300 % : 1435 rpm	Duty cyc Insulation Service	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		2
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