DATA SHEET

Checked by

Date

22/10/2024

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11432963 Efficiency Three-Phase Frame : 143/5TC 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 : 1000 m.a.s.l. Approx. weight³ : 27.5 kg Altitude Protection degree : IP56 Moment of inertia (J) : 0.0060 kgm² Design : B Output [HP] 1.5 1.5 1.5 1.5 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 2.02 2.42 2.33 2.30 L. R. Amperes [A] 17.0 15.5 16.3 17.0 LRC [A] 8.4x(Code L) 6.4x(Code J) 7.0x(Code K) 7.4x(Code K) No load current [A] 1.10 1.10 1.20 1.30 Rated speed [RPM] 1755 1440 1445 1450 Slip [%] 2.50 4.00 3.67 3.33 Rated torque [kgfm] 0.620 0.756 0.751 0.751 Locked rotor torque [%] 290 220 250 280 Breakdown torque [%] 350 250 290 320 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K 25s (cold) 14s (hot) Locked rotor time 25s (cold) 14s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) Noise level² 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 82.5 82.5 82.5 81.0 Efficiency (%) 75% 85.5 84.0 84.0 84.0 100% 86.5 84.1 84.1 84.1 25% 50% 0.60 0.67 0.63 0.60 Power Factor 75% 0.70 0.76 0.74 0.70 0.79 0.82 0.81 0.79 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.6 14.6 14.6 14.6 P2 (0,5;1,0) 12.1 12.1 12.1 12.1 P3 (0,25;1,0) 12.2 12.2 12.2 12.2 P4 (0,9;0,5) 8.2 8.2 8.2 8.2 Losses (%) P5 (0,5;0,5) 5.7 5.7 5.7 5.7 P6 (0,5;0,25) 4.3 4.3 4.3 4.3 P7 (0,25;0,25) 3.2 3.2 3.2 3.2 Non drive end Foundation loads Drive end Bearing type 6205 C3 6204 C3 Max. traction : 55 kaf Sealing Inpro/Seal Inpro/Seal Max. compression : 82 kgf 20000 h 20000 h Lubrication interval Lubricant amount 4 g 4 g Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA MG-1. (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. Performed Checked Rev. **Changes Summary** Date Performed by

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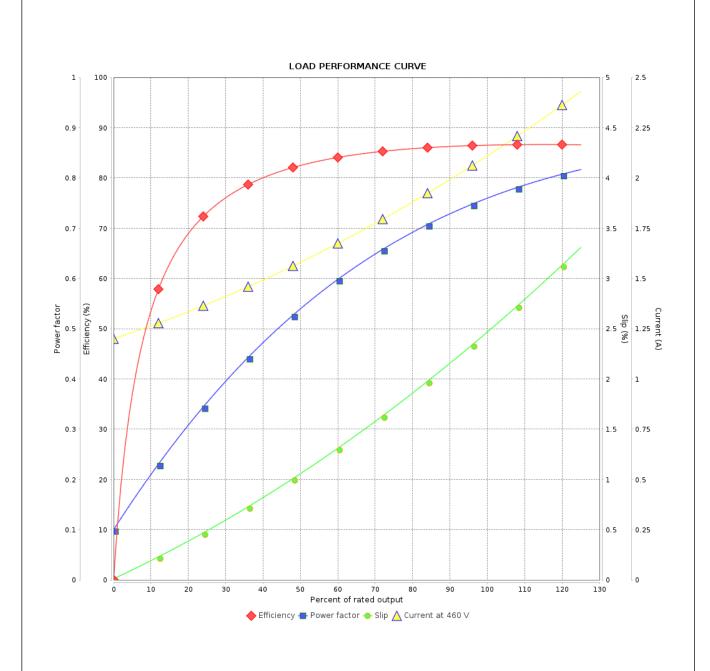


11432963

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance : 460 V 60 Hz 4P : 2.02 A Rated current Moment of inertia (J) : 0.0060 kgm² **LRC** : 8.4 Duty cycle : Cont.(S1) : 0.620 kgfm Insulation class : F Rated torque Locked rotor torque : 290 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Datad speed

Rated speed	: 17	roo rpm	Design		: В	
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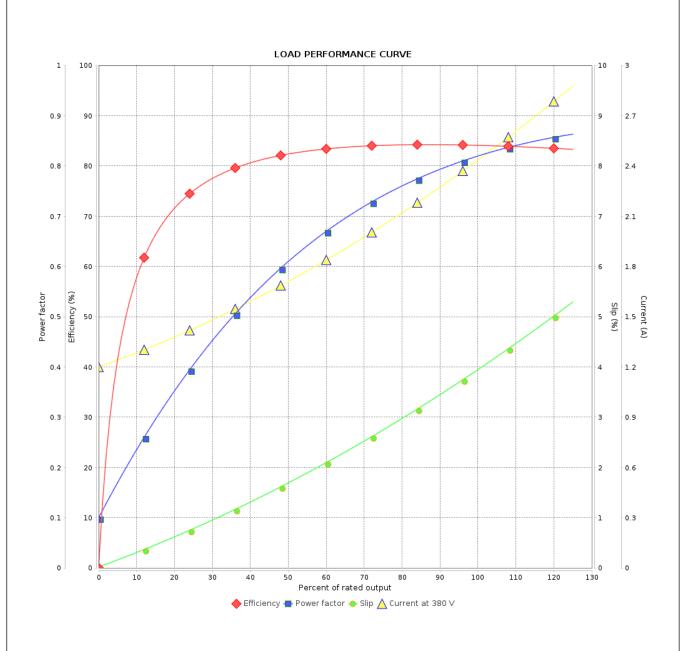


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11432963



Performance	: 380 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.42 A : 6.4 : 0.756 kgfm : 220 % : 250 % : 1440 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0060 kgm² : Cont.(S1) : F : 1.25 : 80 K : B		
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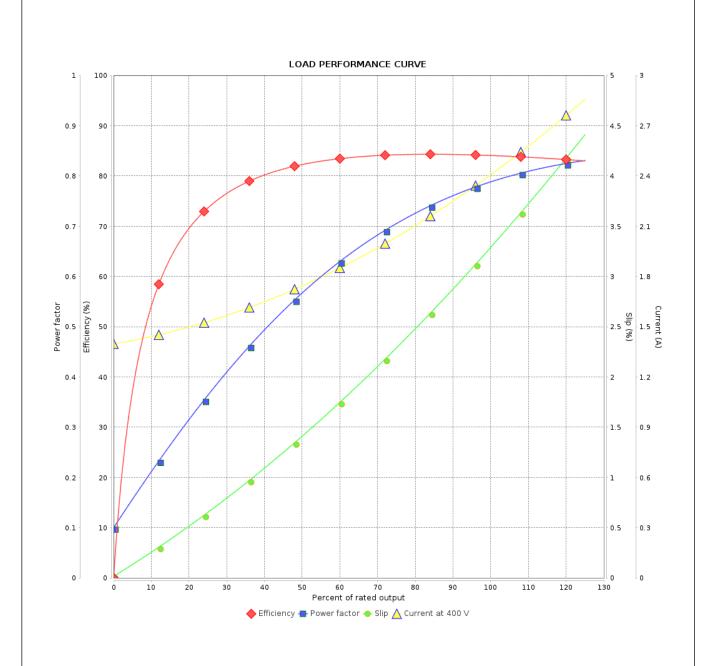
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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.33 A : 7.0 : 0.751 kgfm : 250 % : 290 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0060 kgm² : Cont.(S1) : F : 1.25 : 80 K : B		
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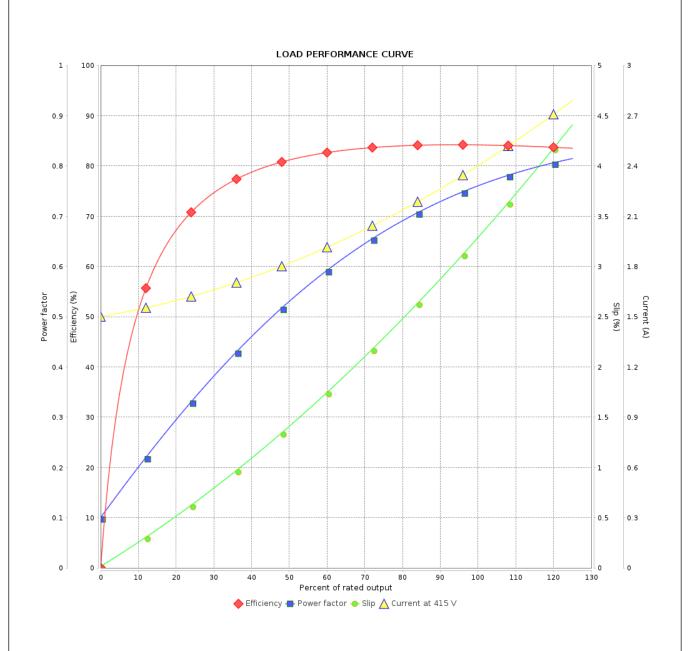


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11432963



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.30 A : 7.4 : 0.751 kgfm : 280 % : 320 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0060 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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