DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12376409 Efficiency Three-Phase Frame Cooling method : IC411 - TEFC : 213/5T 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 : 76.8 kg Altitude Protection degree : IP56 Moment of inertia (J) : 0.0504 kgm² Design : B Output [HP] 3 3 3 3 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 4.41 5.09 4.92 4.87 L. R. Amperes [A] 30.9 29.5 31.5 33.1 LRC [A] 7.0x(Code K) 5.8x(Code H) 6.4x(Code J) 6.8x(Code J) No load current [A] 2.75 2.72 2.91 3.05 Rated speed [RPM] 1175 965 970 970 Slip [%] 2.08 3.50 3.00 3.00 Rated torque [kgfm] 1.85 2.26 2.24 2.24 Locked rotor torque [%] 200 170 200 220 Breakdown torque [%] 280 210 240 270 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K Locked rotor time 104s (cold) 58s (hot) 72s (cold) 40s (hot) 72s (cold) 40s (hot) 72s (cold) 40s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 50% 86.5 87.5 86.5 86.5 Efficiency (%) 75% 88.5 88.5 88.5 88.5 100% 89.5 87.5 88.5 88.5 25% 50% 0.50 0.57 0.53 0.50 Power Factor 75% 0.63 0.70 0.66 0.64 0.70 0.75 0.73 0.71 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.0 11.0 11.0 P2 (0,5;1,0) 8.5 8.5 8.5 8.5 P3 (0,25;1,0) 7.7 7.7 7.7 7.7 P4 (0,9;0,5) Losses (%) 6.7 6.7 6.7 6.7 P5 (0,5;0,5) 4.4 4.4 4.4 4.4 P6 (0,5;0,25) 3.4 3.4 3.4 3.4 P7 (0,25;0,25) 2.5 2.5 2.5 2.5 Non drive end Foundation loads Drive end Bearing type 6308 C3 6207 C3 Max. traction : 73 kgf Sealing Inpro/Seal Inpro/Seal Max. compression : 150 kgf 20000 h 20000 h Lubrication interval Lubricant amount 11 q 7 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 Checked by Page Revision

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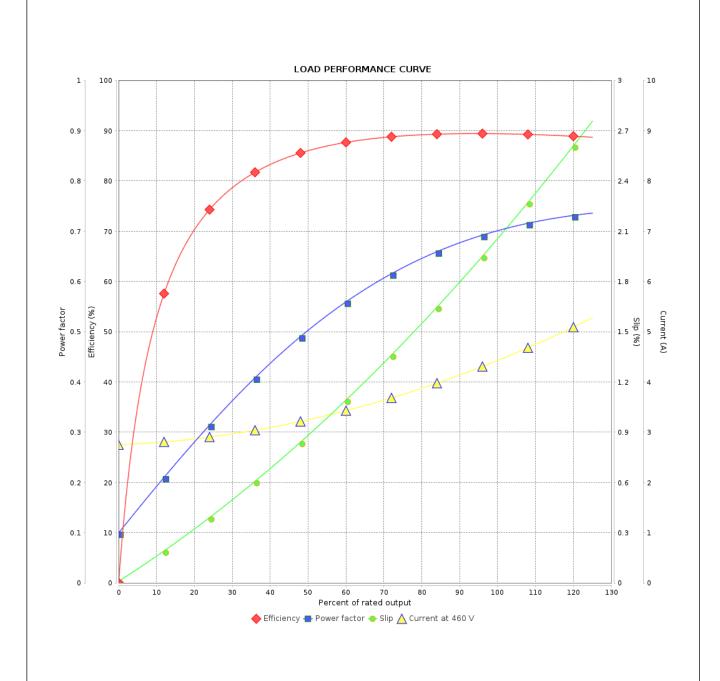


12376409

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 4.41 A : 7.0 : 1.85 kgfm : 200 % : 280 % : 1175 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0504 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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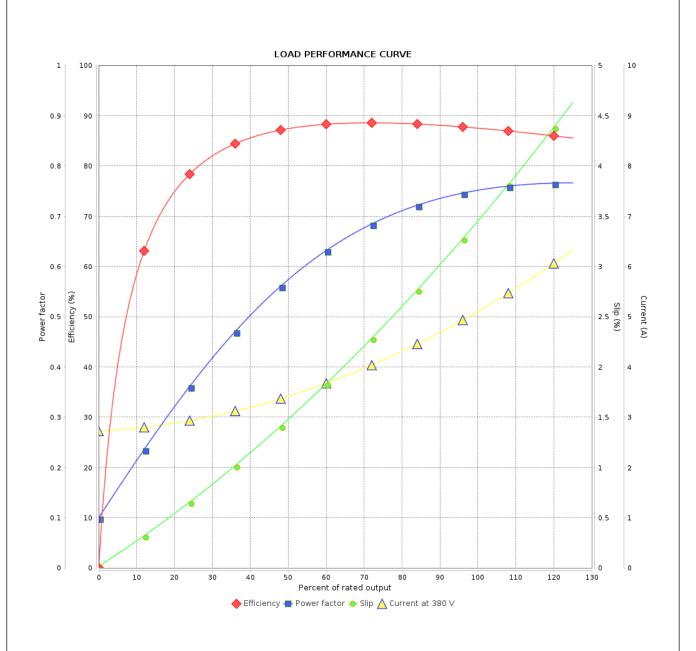


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12376409



Performance	: 3	80 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		.09 A .8 .26 kgfm 70 % 10 % 65 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0504 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	
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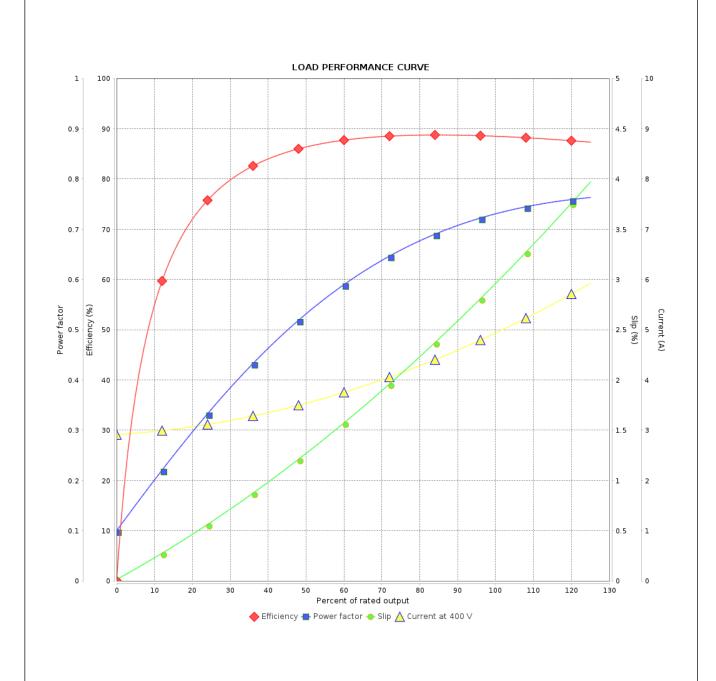


12376409

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 6P IE4						
Rated current	: 4.92 A	Moment of inertia (J)		Moment of inertia (J) : 0.0504		: 0.0504 kgm ²	2
LRC	: 6.4	Duty cycle		: Cont.(S1)			
Rated torque	: 2.24 kgfm	Insulation class		: F			
Locked rotor torque	: 200 %	Service factor		: 1.00			
Breakdown torque			Temperature rise		: 80 K		
Rated speed	: 970 rpm	Design		: B			
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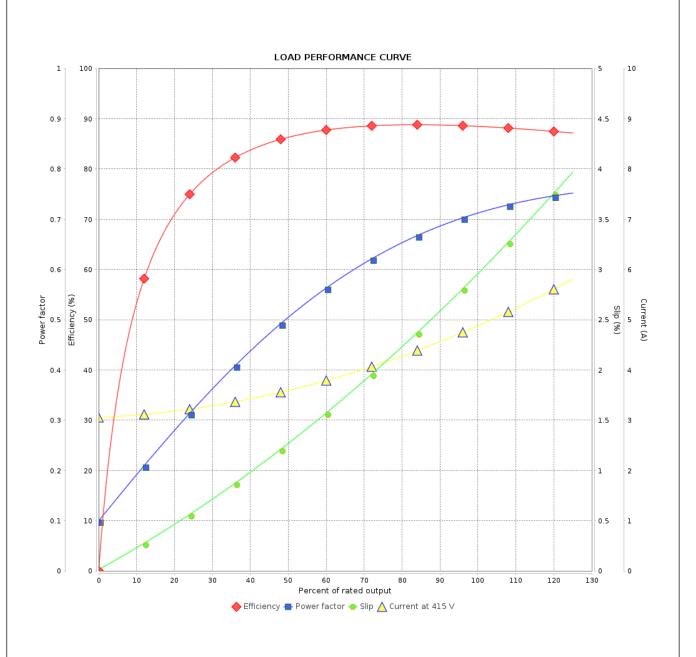


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12376409



Performance	: 4	15 V 50 Hz 6P IE4				
Rated current	nt : 4.87 A		Moment of inertia (J)		: 0.0504 kgm	2
LRC	: 6.	5.8 Duty cycle		e	: Cont.(S1)	
Rated torque	: 2.	2.24 kgfm Insulation o		class	` ,	
Locked rotor tord	que : 22	20 % Service factor		ctor	: 1.00	
Breakdown torqu	ue : 27	: 270 % Temperature		ure rise	: 80 K	
Rated speed : 970 rpm		70 rpm	Design		: B	
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