## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11937251 Efficiency Three-Phase Frame : 182/4T Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> Altitude : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 0.0243 kgm<sup>2</sup> Design : B Output [HP] 1.5 1.5 1.5 1.5 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 2.84 3.10 3.13 3.11 L. R. Amperes [A] 16.8 15.5 17.2 18.7 LRC [A] 5.9x(Code K) 5.0x(Code H) 5.5x(Code J) 6.0x(Code K) No load current [A] 2.10 2.00 2.30 2.50 Rated speed [RPM] 860 700 705 710 Slip [%] 4.44 6.67 6.00 5.33 Rated torque [kgfm] 1.27 1.56 1.54 1.53 Locked rotor torque [%] 229 210 240 260 Breakdown torque [%] 290 220 240 270 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K Locked rotor time 30s (cold) 17s (hot) 30s (cold) 17s (hot) 30s (cold) 17s (hot) 30s (cold) 17s (hot) Noise level<sup>2</sup> 50.0 dB(A) 46.0 dB(A) 46.0 dB(A) 46.0 dB(A) 25% 50% 76.0 74.0 74.5 73.5 Efficiency (%) 75% 78.0 76.0 76.0 76.0 100% 78.5 77.0 76.9 76.9 25% 50% 0.43 0.51 0.47 0.44 Power Factor 75% 0.54 0.62 0.58 0.55 0.62 0.70 0.66 0.64 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 25.9 28.4 28.4 28.3 P2 (0,5;1,0) 20.5 22.5 22.4 22.5 P3 (0,25;1,0) 20.3 18.6 20.4 20.4 P4 (0,9;0,5) 18.4 20.1 20.2 20.2 Losses (%) P5 (0,5;0,5) 13.2 14.4 14.4 14.4 P6 (0,5;0,25) 11.6 12.7 12.8 12.8 P7 (0,25;0,25) 8.8 9.6 9.7 9.7 Non drive end Foundation loads Drive end 6207 C3 6206 C3 Bearing type Max. traction : 86 kaf Sealing **Taconite** Taconite : 86 kgf Max. compression Labyrinth Labyrinth 20000 h 20000 h Lubrication interval Lubricant amount 5 g Lubricant type Mobil Polyrex EM 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 (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). **Changes Summary** Performed Checked Rev. Date Performed by Checked by Page Revision

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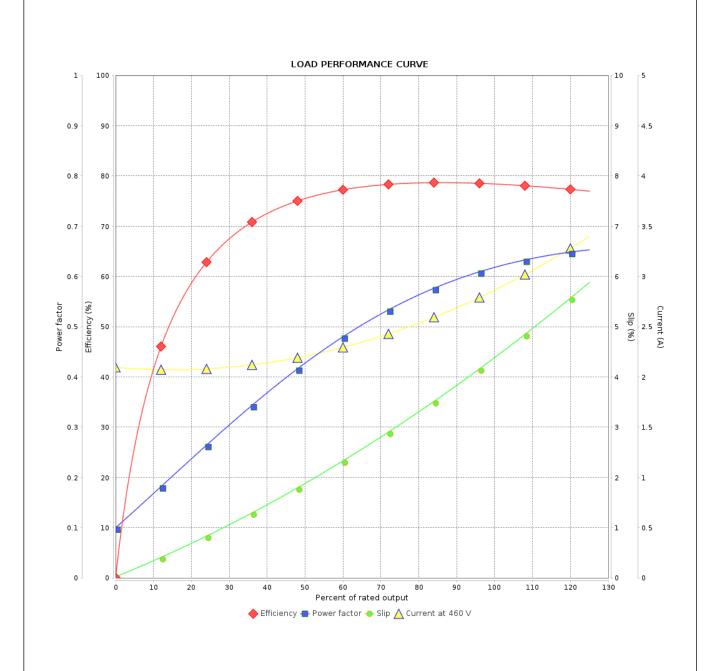
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11937251

Efficiency Three-Phase



Performance	: 46	60 V 60 Hz 8P					
Rated current	: 2.8	84 A	Mome	Moment of inertia (J)		l <sup>2</sup>	
LRC	: 5.9	9	Duty cycle		: Cont.(S1)	: Cont.(S1)	
Rated torque	: 1.2	27 kgfm	Insulat	ion class	: F		
Locked rotor tord	que : 22	9 %	Service	e factor	: 1.25		
Breakdown torqu	ie : 29	00 %	Tempe	Temperature rise		: 80 K	
Rated speed	: 86	0 rpm	Design		: B		
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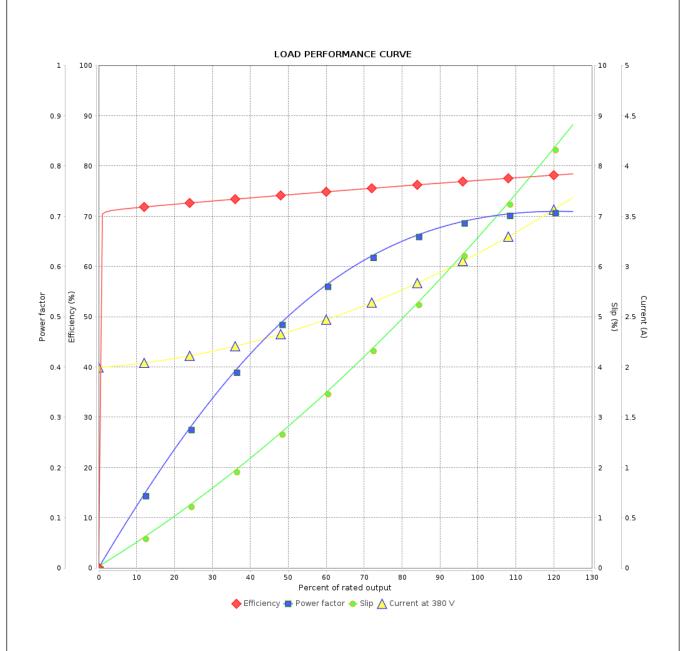


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11937251



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Performance	: 3	80 V 50 Hz 8P IE2	2			
Rated current		.10 A		Moment of inertia (J)		2
LRC	: 5	• •	Duty cycle		: Cont.(S1)	
Rated torque		.56 kgfm	Insulation class		: F	
Locked rotor torq	ue : 2	10 %	Service factor		: 1.00	
Breakdown torqu	e : 2	20 %	Temperature rise		: 80 K	
Rated speed	: 7	00 rpm	Design		: B	
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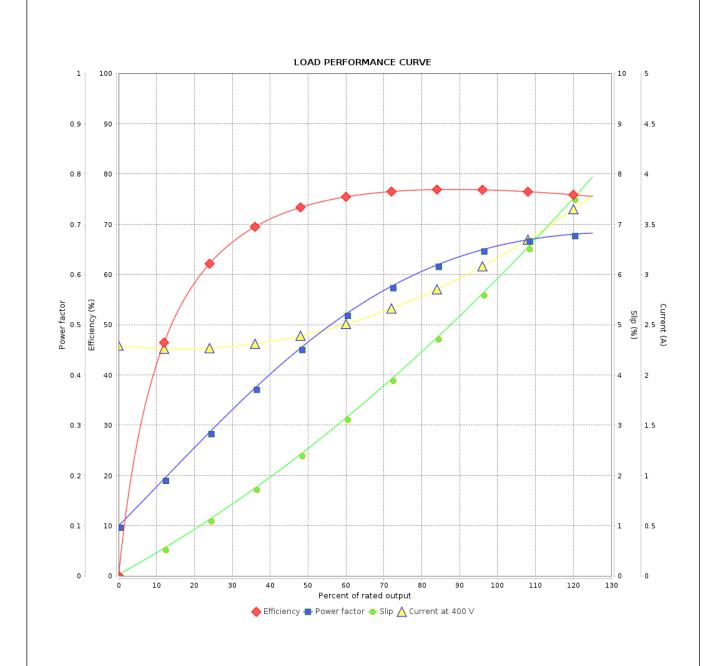
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Product line : W22 IEEE 841 NEMA Premium Product code : 11937251

Efficiency Three-Phase



Performance	: 4	400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	que ::	3.13 A 5.5 1.54 kgfm 240 % 240 % 705 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0243 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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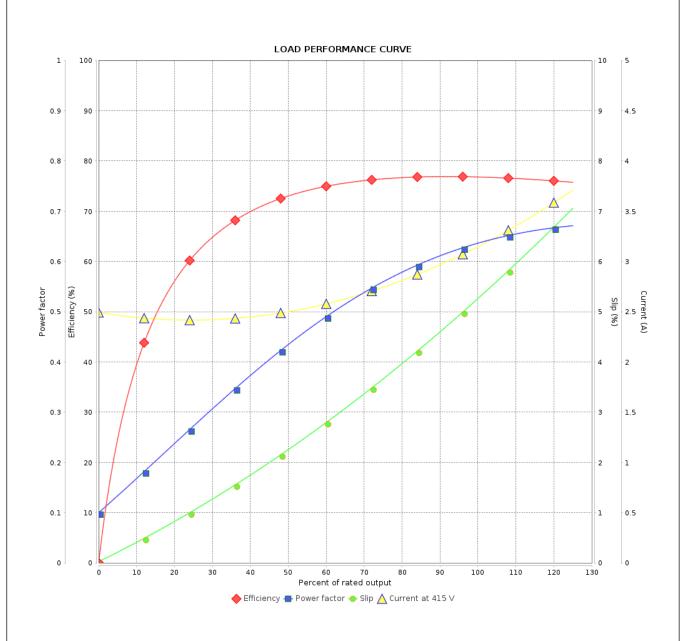


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11937251



Performance	: 415 V 50 Hz 8P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.11 A : 6.0 : 1.53 kgfm : 260 % : 270 % : 710 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0243 kgm² : Cont.(S1) : F : 1.00 : 80 K : B			
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