## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11942971 Efficiency Three-Phase Frame : 364/5T 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) : 0.9884 kgm<sup>2</sup> Design : B Output [HP] 30 30 30 30 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 38.1 45.5 43.3 42.2 L. R. Amperes [A] 236 223 238 249 LRC [A] 6.2x(Code G) 4.9x(Code E) 5.5x(Code F) 5.9x(Code G) No load current [A] 16.0 16.0 17.0 18.0 Rated speed [RPM] 882 725 725 730 Slip [%] 2.00 3.33 3.33 2.67 Rated torque [kgfm] 24.7 30.0 30.0 29.8 Locked rotor torque [%] 160 120 140 150 Breakdown torque [%] 229 160 190 200 Service factor 1.25 1.00 1.00 1.00 105 K Temperature rise 80 K 105 K 105 K Locked rotor time 45s (cold) 25s (hot) 30s (cold) 17s (hot) 34s (cold) 19s (hot) 32s (cold) 18s (hot) Noise level<sup>2</sup> 60.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 91.5 89.0 90.5 90.5 Efficiency (%) 75% 91.7 89.5 90.6 90.6 100% 91.7 89.5 90.6 90.6 25% 50% 0.62 0.71 0.67 0.65 Power Factor 75% 0.73 0.79 0.77 0.75 0.79 0.82 0.81 0.80 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.9 8.9 8.9 8.9 P2 (0,5;1,0) 7.7 7.7 7.7 7.7 P3 (0,25;1,0) 7.2 7.2 7.2 7.2 P4 (0,9;0,5) 3.9 Losses (%) 3.9 3.9 3.9 P5 (0,5;0,5) 2.8 2.8 2.8 2.8 P6 (0,5;0,25) 1.7 1.7 1.7 1.7 P7 (0,25;0,25) 1.3 1.3 1.3 1.3 Non drive end Foundation loads Drive end 6314 C3 6314 C3 Bearing type Max. traction : 670 kgf Sealing **Taconite** Taconite Max. compression : 670 kgf Labyrinth Labyrinth 20000 h 20000 h Lubrication interval Lubricant amount 27 g 27 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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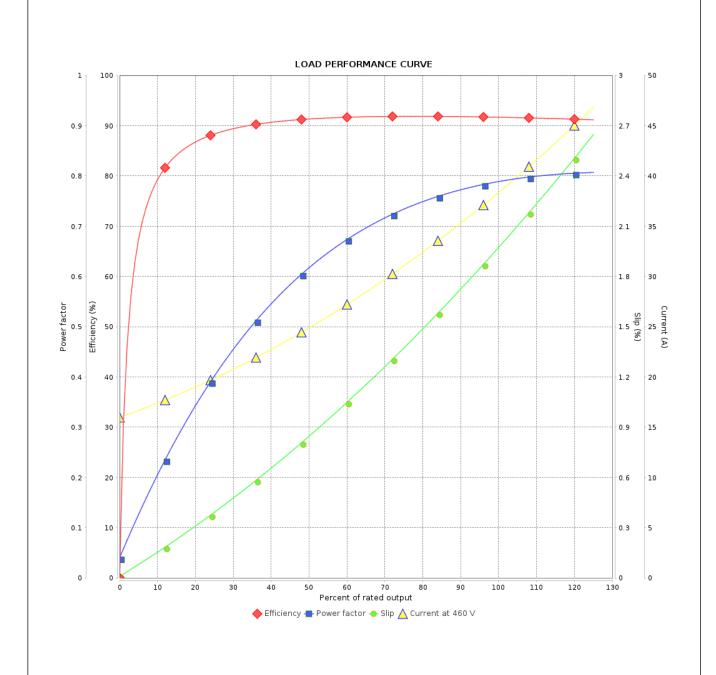
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11942971

Efficiency Three-Phase



						,	
Performance		: 460 V 60 Hz 8P					
Rated current		: 38.1 A	Mo	ment of	inertia (J)	: 0.9884 kgm	2
LRC		: 6.2		Duty cycle		: Cont.(S1)	
Rated torque		: 24.7 kgfm	Ins	ulation (	class	: F	
Locked rotor tord	que	: 160 %	Ser	vice fac	ctor	: 1.25	
Breakdown torqu	ue	: 229 %	Ten	nperatu	re rise	: 80 K	
Rated speed		: 882 rpm	Des	sign		: B	
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## Three Phase Induction Motor - Squirrel Cage

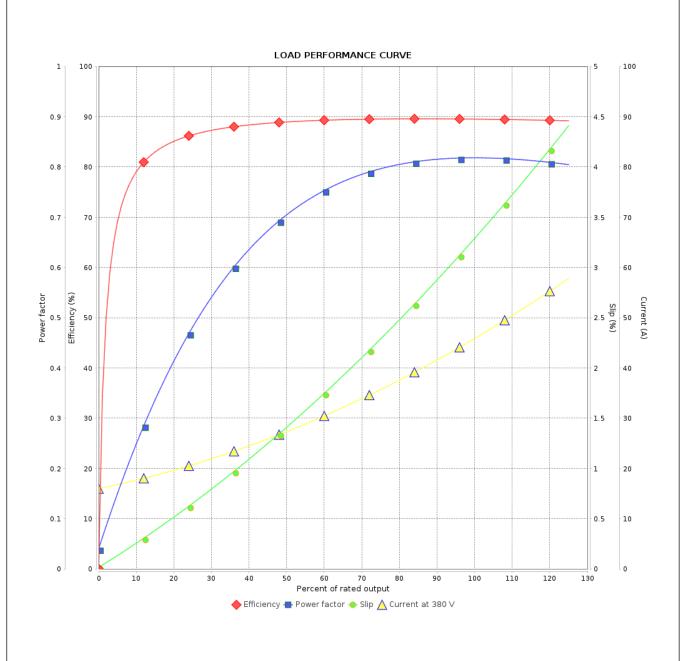


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11942971



Performance	: 380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 45.5 A : 4.9 : 30.0 kgfm : 120 % : 160 % : 725 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 0.9884 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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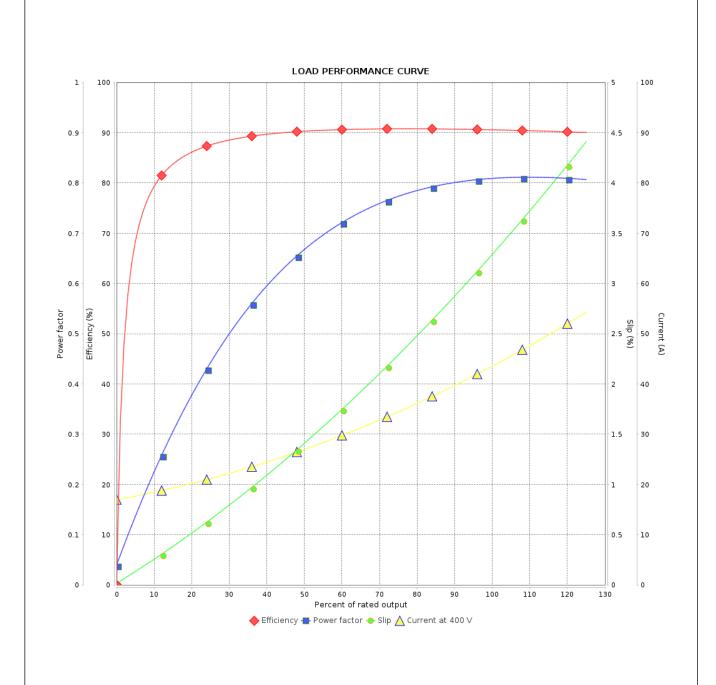
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11942971

Efficiency Three-Phase



Performance	: 400 V 50 Hz 8P IE3				
Rated current	: 43.3 A	Moment of inertia (J)		: 0.9884 kgm²	
LRC	: 5.5	Duty cycle		: Cont.(S1)	
Rated torque	: 30.0 kgfm	Insulation class		:F	
Locked rotor torque	: 140 %	Service factor		: 1.00	
Breakdown torque	: 190 %	Temperature rise		: 105 K	
Rated speed	: 725 rpm	Design		: B	
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## Three Phase Induction Motor - Squirrel Cage

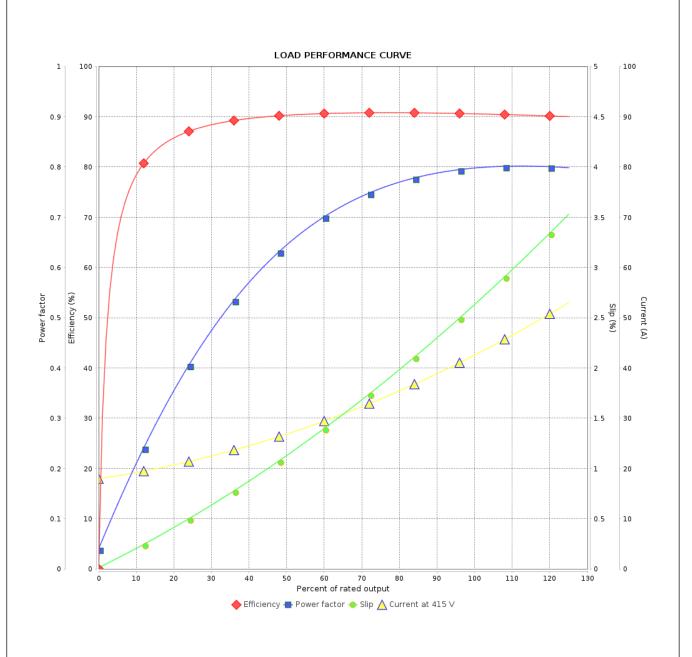


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11942971



Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 42.2 A : 5.9 : 29.8 kgfm : 150 % : 200 % : 730 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 0.9884 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	2
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