## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11943558 : 404/5TS Cooling method Frame : 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 Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 0.5561 kgm<sup>2</sup> Design : B Output [HP] 100 75 75 75 Poles 2 2 2 2 50 Frequency [Hz] 60 50 50 Rated voltage [V] 400/400 415/415 460 380/380 Rated current [A] 112 99.6/99.6 94.6/94.6 92.2/92.2 L. R. Amperes [A] 728 677/677 719/719 756/756 LRC [A] 6.5x(Code G) 6.8x(Code G) 7.6x(Code H) 8.2x(Code J) No load current [A] 26.0 25.7/25.7 27.5/27.5 29.1/29.1 Rated speed [RPM] 3545 2955 2960 2965 Slip [%] 1.53 1.50 1.33 1.17 Rated torque [kgfm] 20.5 18.4 18.4 18.4 Locked rotor torque [%] 240 250 280 300 Breakdown torque [%] 260 280 310 330 Service factor 1.25 1.00 1.00 1.00 80 K 80 K 80 K 80 K Temperature rise Locked rotor time 25s (cold) 14s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) Noise level<sup>2</sup> 79.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 25% 0.000 50% 93.0 93.0 93.1 93.5 Efficiency (%) 75% 94.1 93.8 93.8 94.0 100% 94.1 94.3 94.3 94.3 25% 0.00 50% 0.83 0.82 0.80 0.78 Power Factor 75% 0.88 0.88 0.86 0.85 0.89 0.88 100% 0.89 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.9 5.9 5.9 P2 (0,5;1,0) 4.6 4.6 4.6 4.6 P3 (0,25;1,0) 4.4 4.4 4.4 4.4 P4 (0,9;0,5) 2.8 2.8 2.8 2.8 Losses (%) P5 (0,5;0,5) 1.6 1.6 1.6 1.6 P6 (0,5;0,25) 0.9 0.9 0.9 0.9 P7 (0,25;0,25) 0.5 0.5 0.5 0.5 Non drive end Foundation loads Drive end 6314 C3 6314 C3 Bearing type : 596 kgf Max. traction Sealing Taconite Taconite : 596 kgf Max. compression Labyrinth Labyrinth 4000 h 4000 h Lubrication interval 27 g Lubricant amount 27 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 (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). **Changes Summary** Rev. Performed Checked Date

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# LOAD PERFORMANCE CURVE

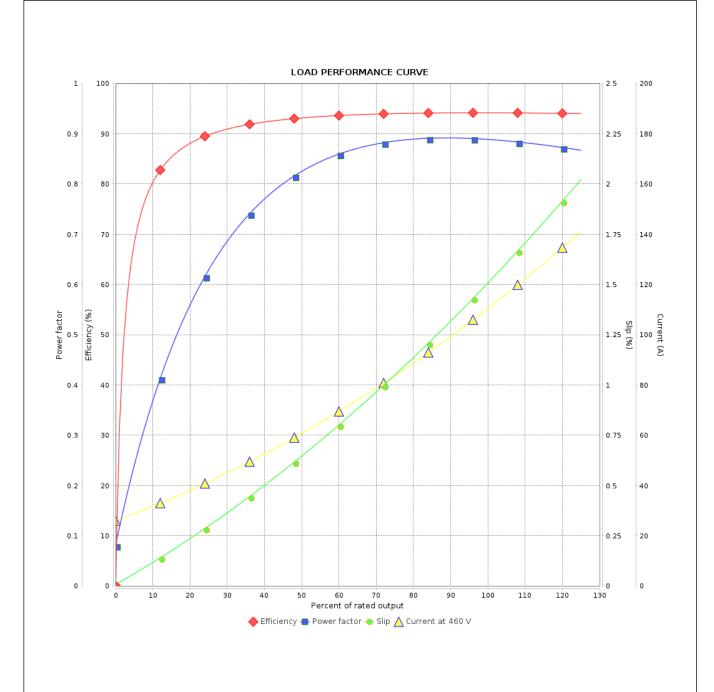
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943558

Three-Phase



Performance	: 40	60 V 60 Hz 2P					
		12 A	1	Moment of inertia (J)		2	
LRC : 6		.5 0.5 kgfm		Duty cycle Insulation class		: Cont.(S1) : F	
		40 %		Service factor		. г : 1.25	
Breakdown torque		60 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 3	545 rpm	Design		: B		
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