### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11770612 Efficiency Three-Phase Frame Cooling method : IC411 - TEFC : 284/6T 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 : 206 kg Protection degree : IP55 Moment of inertia (J) : 0.2467 kgm<sup>2</sup> Design : B Output [HP] 30 30 30 30 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 35.1 43.1 41.1 39.7 L. R. Amperes [A] 214 228 247 238 LRC [A] 6.1x(Code G) 5.3x(Code F) 6.0x(Code G) 6.0x(Code G) No load current [A] 12.3 12.2 13.1 13.8 Rated speed [RPM] 1770 1455 1460 1465 Slip [%] 1.67 3.00 2.67 2.33 Rated torque [kgfm] 12.3 15.0 14.9 14.9 Locked rotor torque [%] 240 170 190 220 Breakdown torque [%] 240 200 220 250 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 105 K 105 K 105 K Locked rotor time 36s (cold) 20s (hot) 23s (cold) 13s (hot) 23s (cold) 13s (hot) 21s (cold) 12s (hot) Noise level<sup>2</sup> 63.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 50% 93.0 90.0 90.5 91.2 Efficiency (%) 75% 93.0 90.2 91.0 91.7 100% 93.6 90.2 91.0 91.7 25% 50% 0.70 0.76 0.73 0.70 Power Factor 75% 0.80 0.83 0.82 0.80 0.84 0.85 0.84 100% 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.8 6.8 6.8 6.8 P2 (0,5;1,0) 5.8 5.8 5.8 5.8 P3 (0,25;1,0) 5.2 5.2 5.2 5.2 P4 (0,9;0,5) 3.1 Losses (%) 3.1 3.1 3.1 P5 (0,5;0,5) 2.2 2.2 2.2 2.2 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 P7 (0,25;0,25) 0.9 0.9 0.9 0.9 Non drive end Foundation loads Drive end 6311 C3 6211 C3 Bearing type : 428 kgf Max. traction Sealing **Taconite** Taconite : 634 kgf Max. compression Labyrinth Labyrinth 20000 h 20000 h Lubrication interval Lubricant amount 18 g 11 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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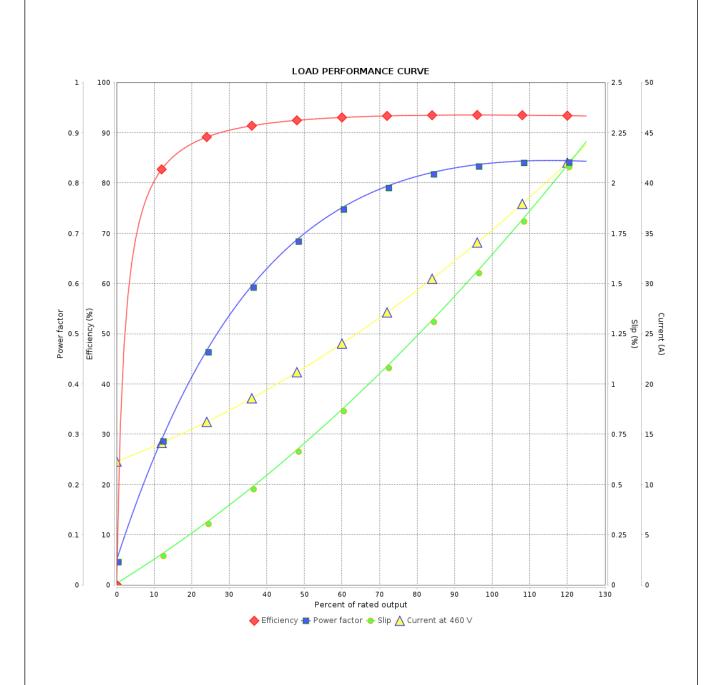
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11770612

Efficiency Three-Phase



Performance		: 460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 35.1 A : 6.1 : 12.3 kgfm : 240 % : 240 % : 1770 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2467 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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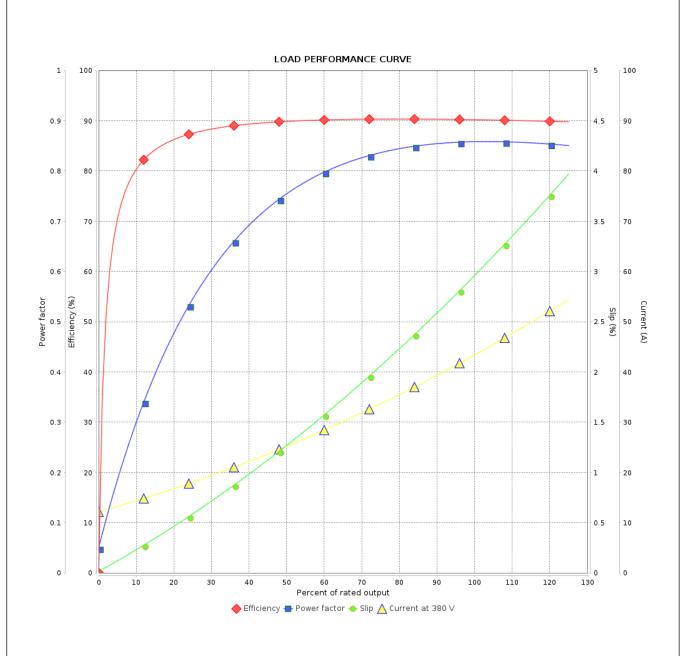


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11770612



Performance	: 380 V 50 Hz 4P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.1 A : 5.3 : 15.0 kgfm : 170 % : 200 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.2467 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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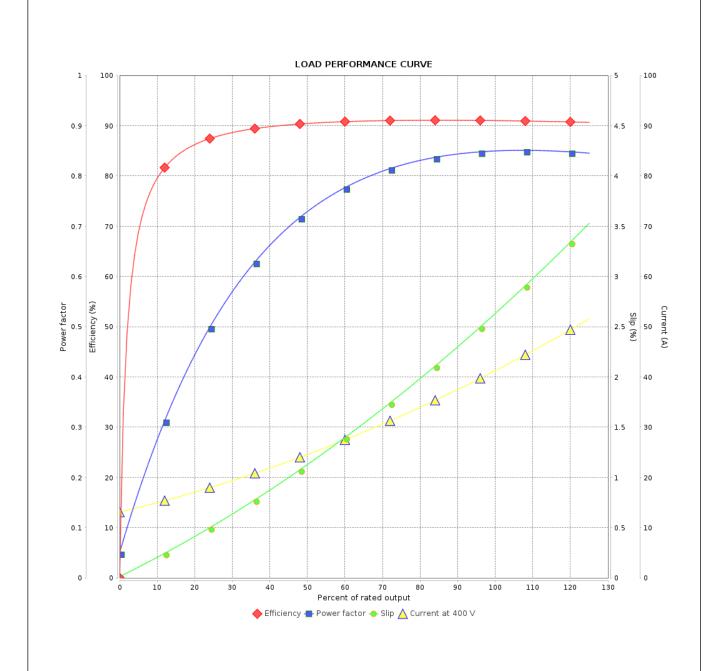


Customer :

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Efficiency Three-Phase

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Performance : 400 V 50 Hz 4P IE1 Rated current : 41.1 A Moment of inertia (J) : 0.2467 kgm<sup>2</sup> **LRC** : 6.0 Duty cycle : Cont.(S1) : 14.9 kgfm : F Rated torque Insulation class Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B

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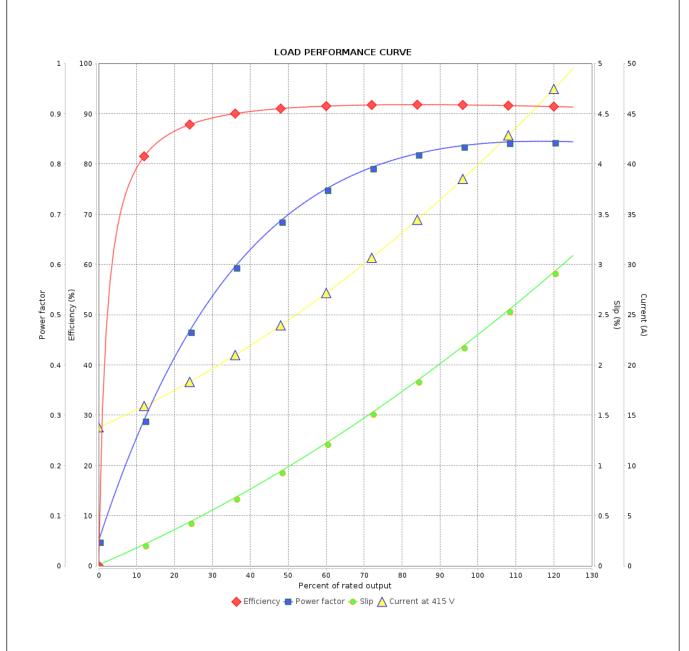


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Efficiency Three-Phase

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Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC	: 39.7 A : 6.0	Moment of inertia (J) Duty cycle		: 0.2467 kgm² : Cont.(S1)	
Rated torque Locked rotor torque	: 14.9 kgfm : 220 %	Insulation class Service factor		: F : 1.00	
Breakdown torque Rated speed	: 250 % : 1465 rpm	Temperature rise Design		: 105 K : B	
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