DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943461 Efficiency Three-Phase Frame : 364/5TC Cooling method : IC411 - TEFC 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 : 447 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.9798 kgm² Design : B Output [HP] 75 75 75 75 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 87.2 106 102 98.7 L. R. Amperes [A] 558 541 571 602 LRC [A] 6.4x(Code G) 5.1x(Code E) 5.6x(Code F) 6.1x(Code G) No load current [A] 33.0 33.0 35.0 38.0 Rated speed [RPM] 1780 1475 1475 1480 Slip [%] 1.11 1.67 1.67 1.33 Rated torque [kgfm] 30.5 36.9 36.8 36.8 Locked rotor torque [%] 240 170 200 210 Breakdown torque [%] 260 200 220 240 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 105 K 105 K 105 K 18s (cold) 10s (hot) Locked rotor time 25s (cold) 14s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) Noise level² 67.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 50% 94.5 94.5 94.5 94.1 Efficiency (%) 75% 95.0 94.1 94.5 94.5 100% 95.4 93.6 94.1 94.5 25% 50% 0.68 0.75 0.70 0.67 Power Factor 75% 0.78 0.82 0.80 0.78 0.84 0.83 0.82 100% 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power 4.7 P1 (0,9;1,0) 4.7 4.7 P2 (0,5;1,0) 3.7 3.7 3.7 3.7 P3 (0,25;1,0) 3.4 3.4 3.4 3.4 P4 (0,9;0,5) 2.4 2.4 2.4 Losses (%) 2.4 P5 (0,5;0,5) 1.6 1.6 1.6 1.6 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 P7 (0,25;0,25) 0.7 0.7 0.7 0.7 Drive end Non drive end Foundation loads 6314 C3 6314 C3 Bearing type Max. traction : 768 kgf Sealing **Taconite** Taconite : 1215 kgf Max. compression Labyrinth Labyrinth 12000 h 12000 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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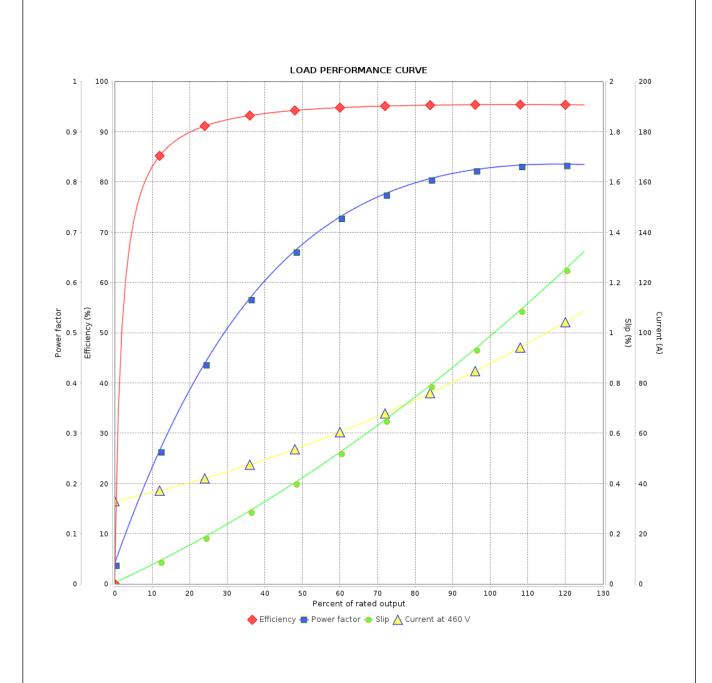
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943461

Efficiency Three-Phase



Performance		: 460 V 60 Hz 4P				
Rated current		: 87.2 A	Moment of inertia (J)		: 0.9798 kgm²	
LRC		: 6.4	Duty cycle)	: Cont.(S1)	
Rated torque		: 30.5 kgfm	Insulation	class	: F	
Locked rotor tord	que	: 240 %	Service factor		: 1.25	
Breakdown torqu	ıe	: 260 %	Temperati	ıre rise	: 80 K	
Rated speed		: 1780 rpm	Design		: B	
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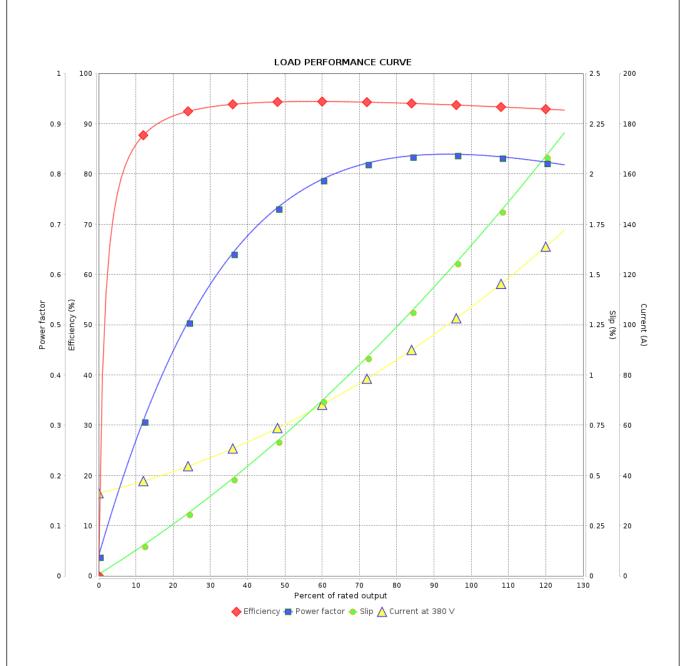


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943461



Performance : 380 V 50 Hz 4P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 106 A : 5.1 : 36.9 kgfm : 170 % : 200 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9798 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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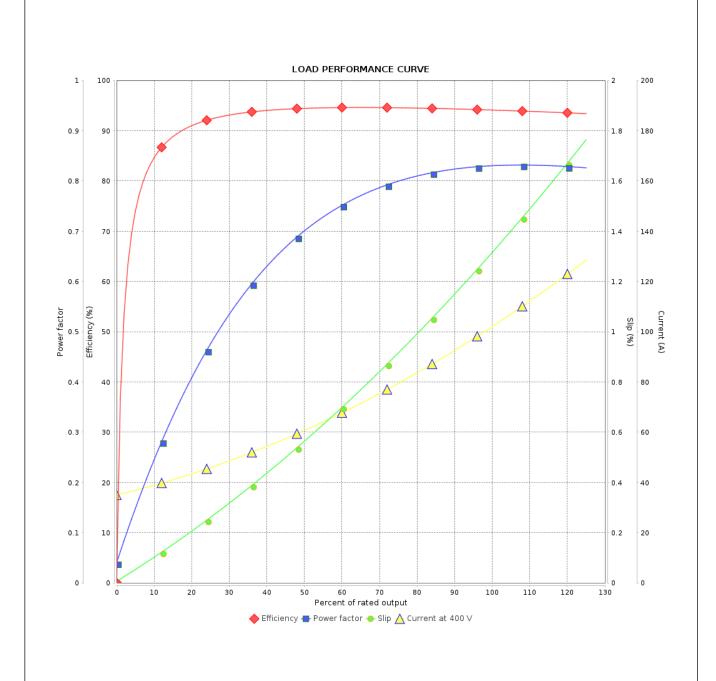
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 102 A : 5.6 : 36.8 kgfm : 200 % : 220 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9798 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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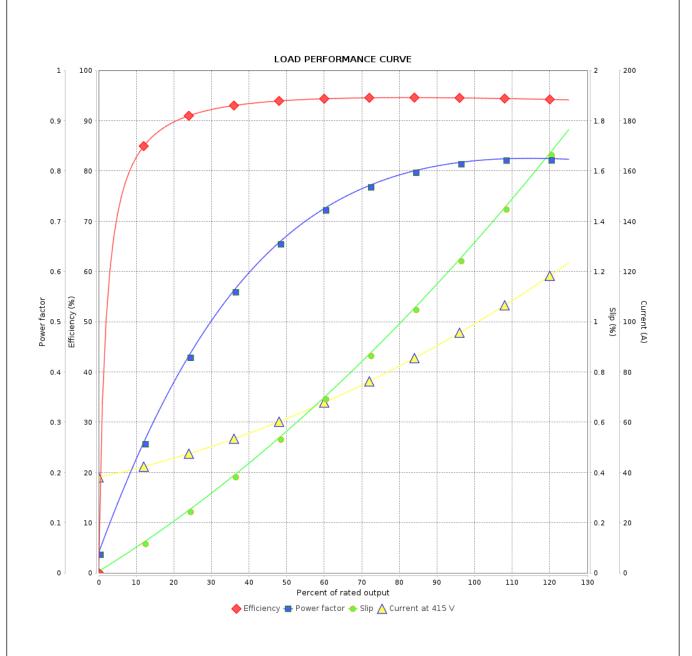


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943461



Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 98.7 A : 6.1 : 36.8 kgfm : 210 % : 240 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.9798 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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