DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11942005 Efficiency Three-Phase : 324/6T Frame 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 Altitude : 1000 m.a.s.l. Approx. weight³ : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 0.5561 kgm² Design : B 30 25 30 Output [HP] 25 25 30 30 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 380 Rated voltage [V] 460 380 400 415 400 415 43.7 Rated current [A] 36.2 36.9 36.2 35.4 41.7 40.7 L. R. Amperes [A] 224 214 228 237 214 225 236 LRC [A] 6.2x(Code 5.8x(Code | 6.3x(Code H)|6.7x(Code H)|4.9x(Code E)|5.4x(Code F)| 5.8x(Code G) G) G) No load current [A] 14.5 14.0 15.0 16.0 14.0 15.0 16.0 Rated speed [RPM] 1180 975 980 980 970 975 980 Slip [%] 1.67 2.50 2.00 2.00 3.00 2.50 2.00 Rated torque [kgfm] 18.5 18.6 18.5 18.5 22.4 22.3 22.2 Locked rotor torque [%] 220 190 220 240 160 180 200 Breakdown torque [%] 240 229 260 280 200 220 240 Service factor 1.25 1.00 1.15 1.15 1.00 1.15 1.15 Temperature rise 80 K 27s (cold) Locked rotor time 37s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 15s (hot) 21s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level² 62.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 25% 50% 91.7 91.3 91.3 90.7 91.7 91.7 91.0 Efficiency (%) 75% 93.0 91.8 92.2 91.9 91.7 92.4 92.4 100% 93.0 91.7 92.1 92.0 91.0 91.7 91.7 25% 50% 0.65 0.64 0.61 0.58 0.71 0.68 0.65 Power Factor 75% 0.77 0.76 0.74 0.71 0.81 0.78 0.76 100% 0.82 0.83 0.80 0.79 0.84 0.83 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.3 7.3 7.3 7.3 7.3 7.3 7.3 P2 (0,5;1,0) 6.2 6.2 6.2 6.2 6.2 6.2 6.2 P3 (0,25;1,0) 6.0 6.0 6.0 6.0 6.0 6.0 6.0 P4 (0,9;0,5) 3.5 3.5 3.5 3.5 3.5 3.5 3.5 Losses (%) P5 (0,5;0,5) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 P6 (0,5;0,25) 1.6 1.6 1.6 1.6 1.6 1.6 1.6 P7 1.1 1.1 1.1 1.1 1.1 1.1 1.1 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6312 C3 6212 C3 : 671 kgf Max. traction Taconite Taconite Sealing : 671 kgf Max. compression Labyrinth Labyrinth Lubrication interval 20000 h 20000 h Lubricant amount 21 a 13 g Lubricant type Mobil Polyrex EM

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Customer Notes This revision rep	i:	the previous one, which	These ar	re average values		
must be eliminate (1) Looking the n (2) Measured at	ed. notor from the sha 1m and with tolera weight subject to rocess.	aft end. ance of +3dB(A).		e average values ipply, subject to th		
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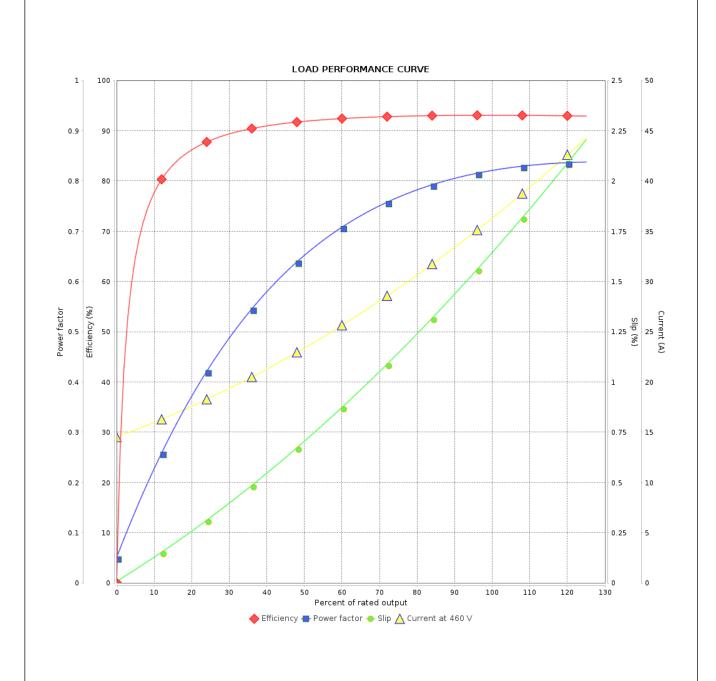


11942005

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 460 V 60 Hz 6P					
Rated current	: 36.2 A	Moment o	f inertia (J)	: 0.5561 kgm ²	2	
LRC	: 6.2	Duty cycle		: Cont.(S1)		
Rated torque	: 18.5 kgfm	Insulation class		Insulation class : F		
Locked rotor torque	: 220 %	Service factor		: 1.25		
Breakdown torque	: 240 %	Temperature rise		: 80 K		
Rated speed	: 1180 rpm	Design		: B		
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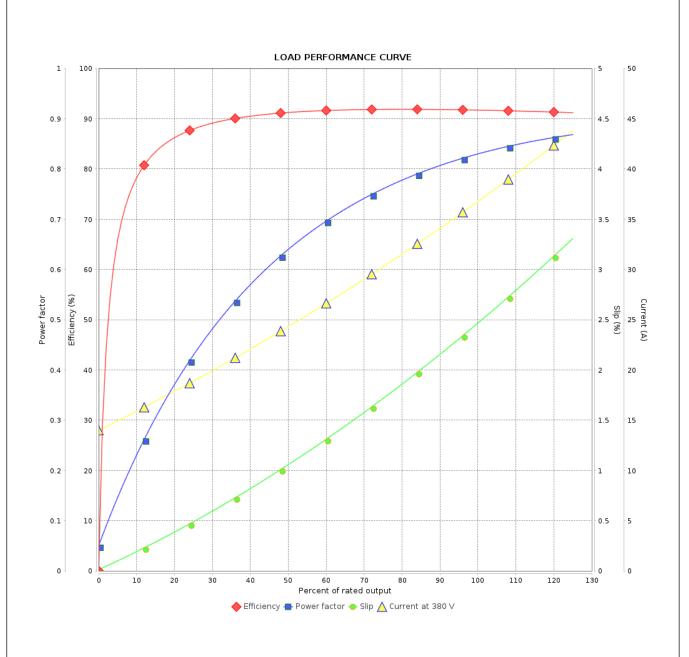


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11942005



Performance	formance : 380 V 50 Hz 6P IE3				
Rated current	: 36.9 A	Moment of inertia (J)		: 0.5561 kgm²	
LRC : 5.8		Duty cycle		: Cont.(S1)	
Rated torque	: 18.6 kgfm	Insulation	class	: F	
Locked rotor torque	: 190 %	Service factor Temperature rise		: 1.00	
Breakdown torque	: 229 %			: 80 K	
Rated speed	: 975 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

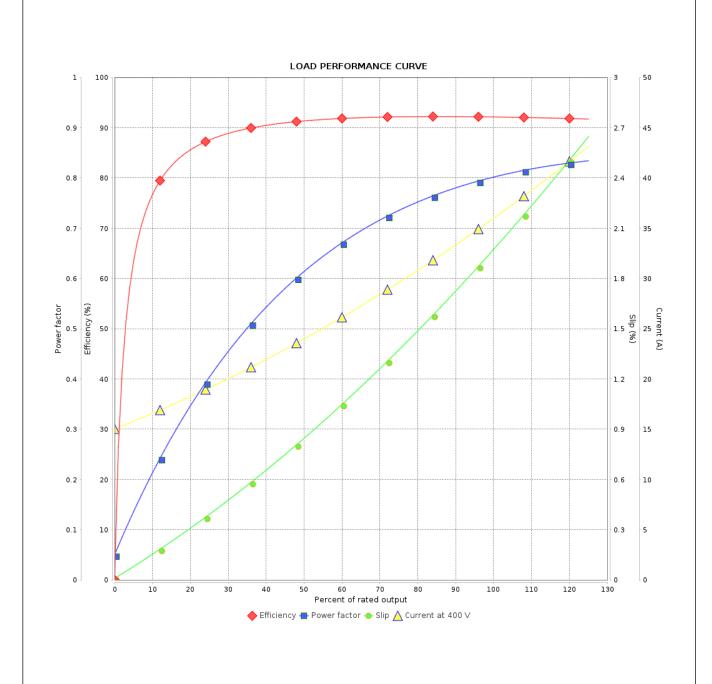


11942005

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



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Rated speed		: 980 rpm	Design		: B	
Breakdown torqu	ıe	: 260 %	Temperati	ure rise	: 80 K	
Locked rotor tord	que	: 220 %	Service fa	ctor	: 1.15	
Rated torque		: 18.5 kgfm	Insulation class		: F	
LRC		: 6.3	Duty cycle		: Cont.(S1)	
Rated current		: 36.2 A	Moment of	f inertia (J)	: 0.5561 kgm	l ²
Performance		: 400 V 50 Hz 6P IE3				

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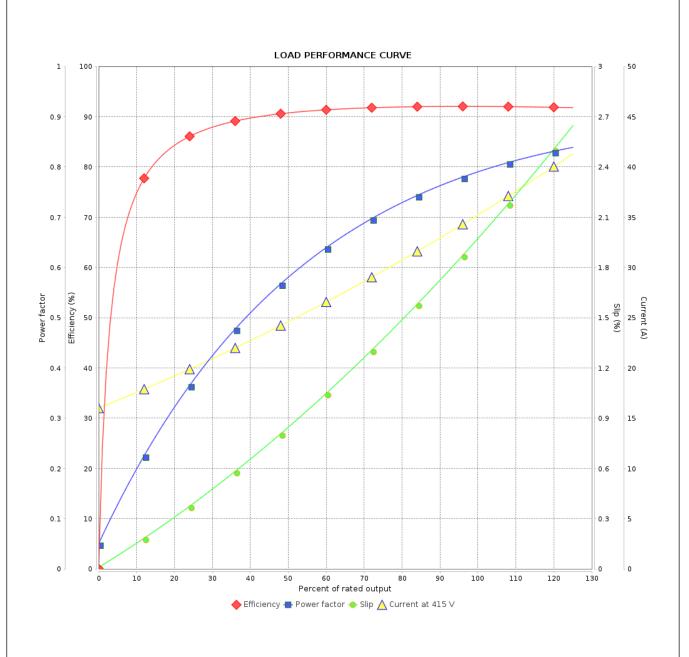


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11942005



				
Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.4 A : 6.7 : 18.5 kgfm : 240 % : 280 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.5561 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	•
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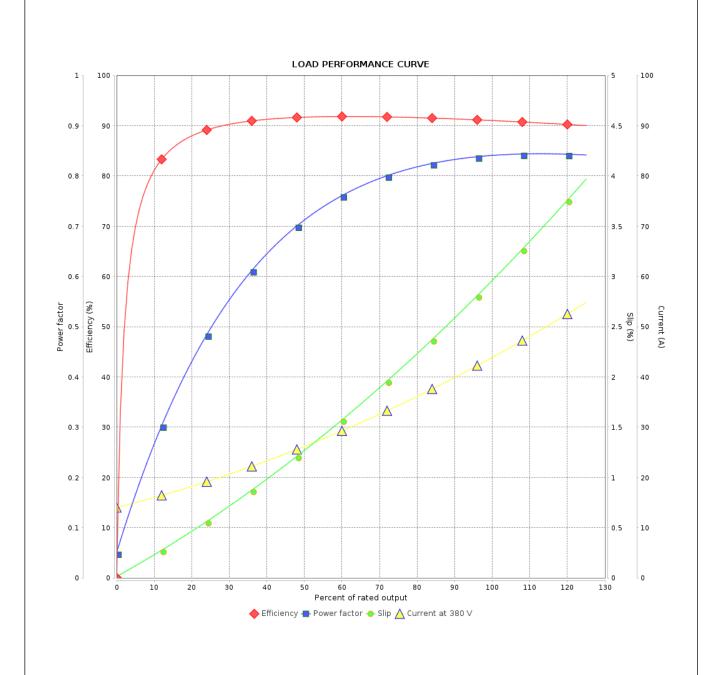
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11942005



Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.7 A : 4.9 : 22.4 kgfm : 160 % : 200 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5561 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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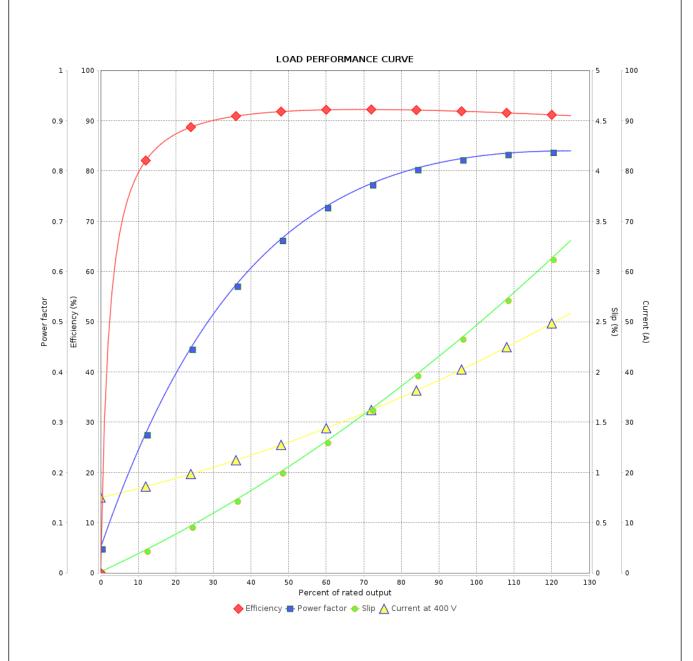


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11942005



Performance	: 400 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.7 A : 5.4 : 22.3 kgfm : 180 % : 220 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.5561 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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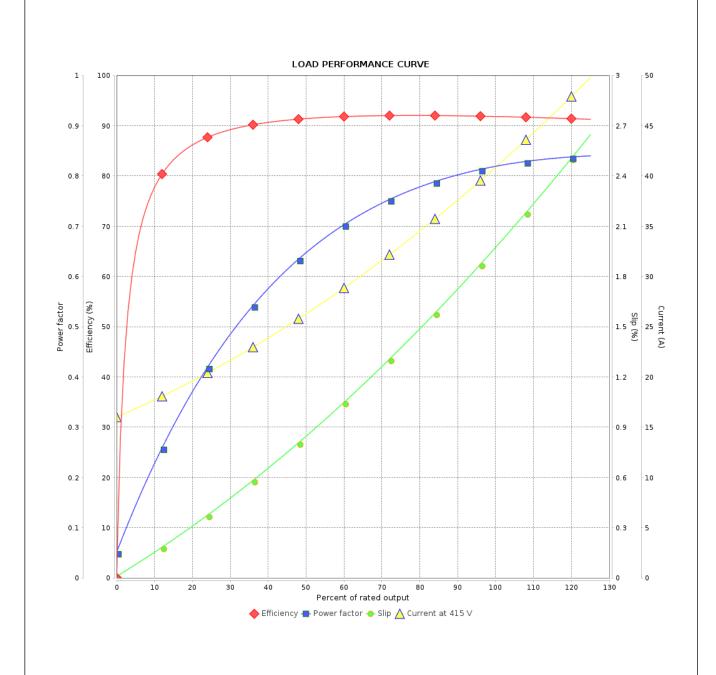
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11942005

Efficiency Three-Phase



Performance	: 415 V 50 Hz	6P IE2			
Rated current	ed current : 40.7 A Moment of inertia (J)		of inertia (J)	: 0.5561 kgm	2
LRC	: 5.8	Duty cycle	Duty cycle		
Rated torque : 22.2 kgfm		Insulation	Insulation class		
Locked rotor torqu	Locked rotor torque : 200 %		Service factor		
Breakdown torque	e : 240 %	Temperati	Temperature rise		
Rated speed	ed speed : 980 rpm			: B	
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