DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11921930 Efficiency Three-Phase : 143/5TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ Altitude : 1000 m.a.s.l. : 24.9 kg Protection degree : IP55 Moment of inertia (J) : 0.0067 kgm² Design : B Output [HP] 0.75 0.75 1 0.75 1 1 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 1.73 1.60 1.62 1.66 1.96 1.94 1.95 9.41 L. R. Amperes [A] 10.7 9.28 9.88 10.5 10.1 10.7 LRC [A] 6.2x(Code K) 5.8x(Code K) 6.1x(Code L) 6.3x(Code 4.8x(Code | 5.2x(Code H) | 5.5x(Code J) M) G) No load current [A] 1.10 1.05 1.15 1.25 1.05 1.15 1.25 Rated speed [RPM] 1160 960 970 970 940 950 950 Slip [%] 3.33 4.00 3.00 3.00 6.00 5.00 5.00 Rated torque [kgfm] 0.626 0.567 0.561 0.561 0.772 0.764 0.764 Locked rotor torque [%] 260 280 300 320 200 229 250 220 Breakdown torque [%] 300 310 330 340 260 280 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 36s (cold) Locked rotor time 50s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 28s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) Noise level² 50.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 25% 50% 77.0 74.8 73.2 70.7 77.0 75.5 74.0 Efficiency (%) 75% 82.0 78.4 77.5 75.8 80.0 80.0 78.5 100% 82.5 79.3 78.9 77.9 78.5 78.5 78.5 25% 50% 0.45 0.44 0.41 0.38 0.53 0.49 0.46 Power Factor 75% 0.57 0.57 0.53 0.50 0.66 0.62 0.59 100% 0.66 0.66 0.62 0.59 0.74 0.71 0.68 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 20.0 20.0 20.0 20.0 20.0 20.0 20.0 P2 (0,5;1,0) 16.7 16.7 16.7 16.7 16.7 16.7 16.7 P3 (0,25;1,0) 16.9 16.9 16.9 16.9 16.9 16.9 16.9 P4 (0,9;0,5) 12.6 12.6 12.6 12.6 12.6 12.6 12.6 Losses (%) P5 (0,5;0,5) 9.2 9.2 9.2 9.2 9.2 9.2 9.2 P6 (0,5;0,25) 7.6 7.6 7.6 7.6 7.6 7.6 7.6 P7 5.8 5.8 5.8 5.8 5.8 5.8 5.8 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6205 C3 6204 C3 : 48 kgf Max. traction Taconite **Taconite** Sealing : 73 kgf Max. compression Labyrinth Labyrinth 20000 h Lubrication interval 20000 h Lubricant amount 4 a 4 g Lubricant type Mobil Polyrex EM Rev. **Changes Summary** Performed Checked Date Performed by Checked by Page Revision

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must be eliminat (1) Looking the n (2) Measured at	ed. notor from the sha 1m and with tolera weight subject to rocess.	ance of +3dB(A).		re average values upply, subject to th		
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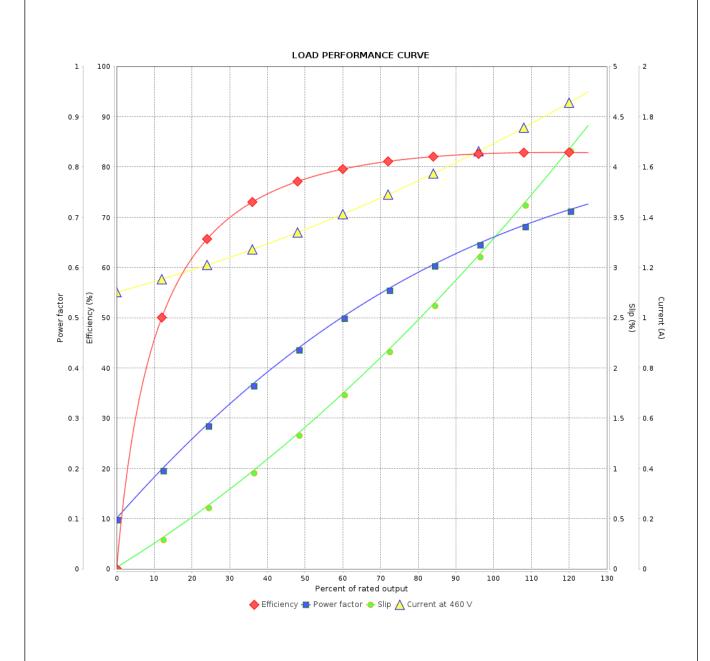


Customer :

Product line : W22 IEEE 841 NEMA Premium Produ

Efficiency Three-Phase

Product code: 11921930



Performance		460 V 60 Hz 6P					
Rated current		1.73 A	Moment o	f inertia (J)	: 0.0067 kgm²		
LRC	:	6.2	Duty cycle	` '	: Cont.(S1)		
Rated torque	:	0.626 kgfm	Insulation		: F ` ´		
Locked rotor torque		260 %	Service fa	Service factor		: 1.25	
Breakdown torque		300 %	Temperature rise		: 80 K		
Rated speed	:	1160 rpm	Design		: B		
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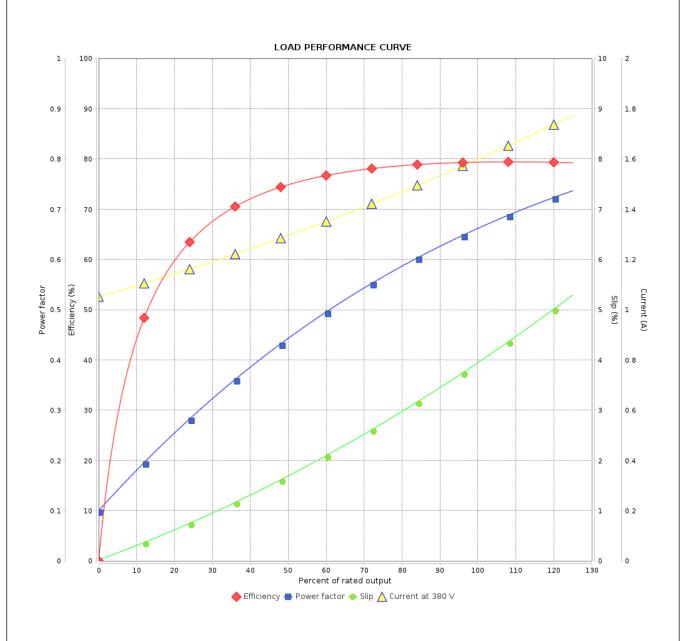


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11921930



Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 1.60 A	Moment of inertia (J)		: 0.0067 kgm²	
LRC	: 5.8	Duty cycle		: Cont.(S1)	
Rated torque	: 0.567 kgfm	Insulation class		: F ` ´	
Locked rotor torque	: 280 %	Service factor		: 1.00	
Breakdown torque	: 310 % Temp		e rise	: 80 K	
Rated speed	: 960 rpm	Design		: B	
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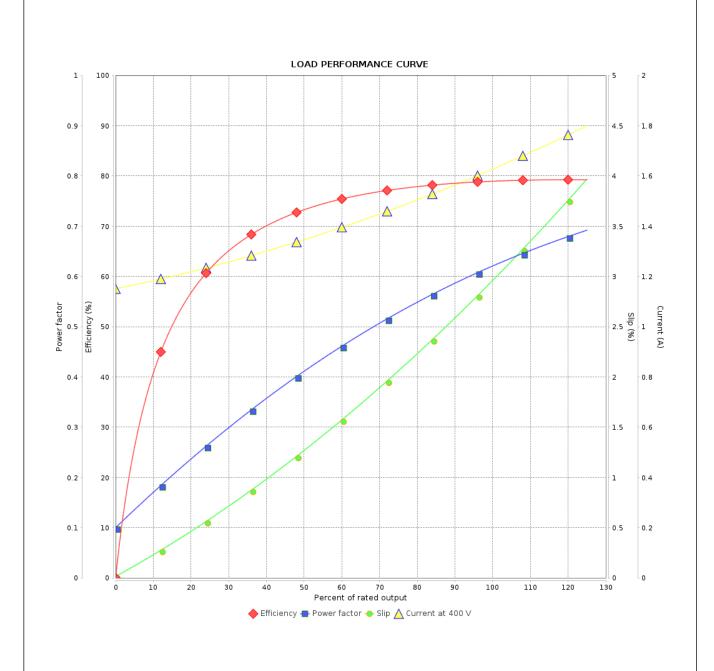


11921930

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 400 V 50 Hz 6P IE	E 3				
Rated current		: 1.62 A	Moment of	Moment of inertia (J)		l ²	
LRC		: 6.1	Duty cycl	Duty cycle			
Rated torque		: 0.561 kgfm	Insulation	Insulation class		: F	
Locked rotor torque		: 300 %	Service fa	Service factor			
Breakdown torque		: 330 %	Temperat	Temperature rise			
Rated speed		: 970 rpm	Design	Design			
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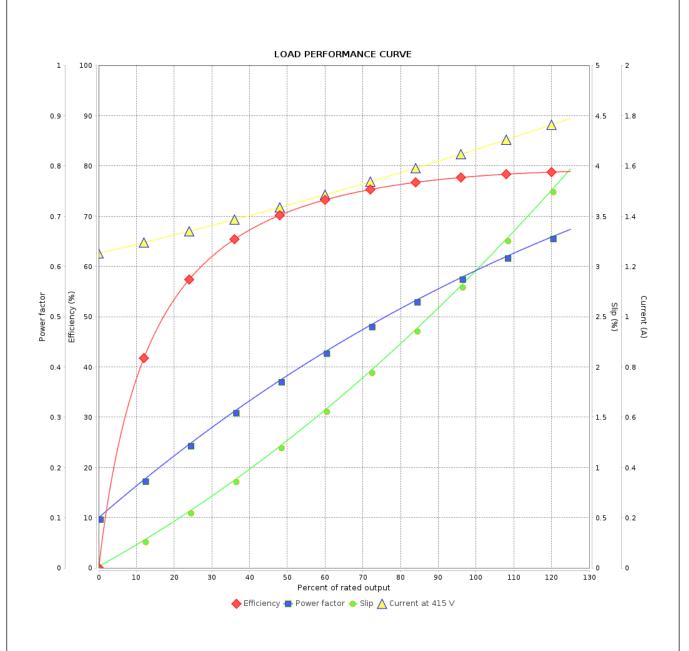


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Efficiency Three-Phase

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Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 1.66 A : 6.3 : 0.561 kgfm : 320 % : 340 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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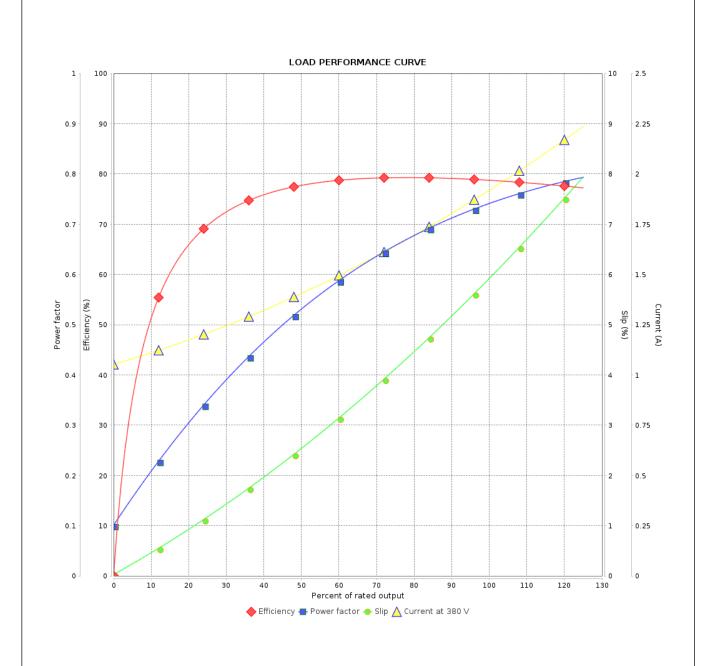
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Product line : W22 IEEE 841 NEMA Premium Product code : 11921930

Efficiency Three-Phase



Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 0.0067 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	
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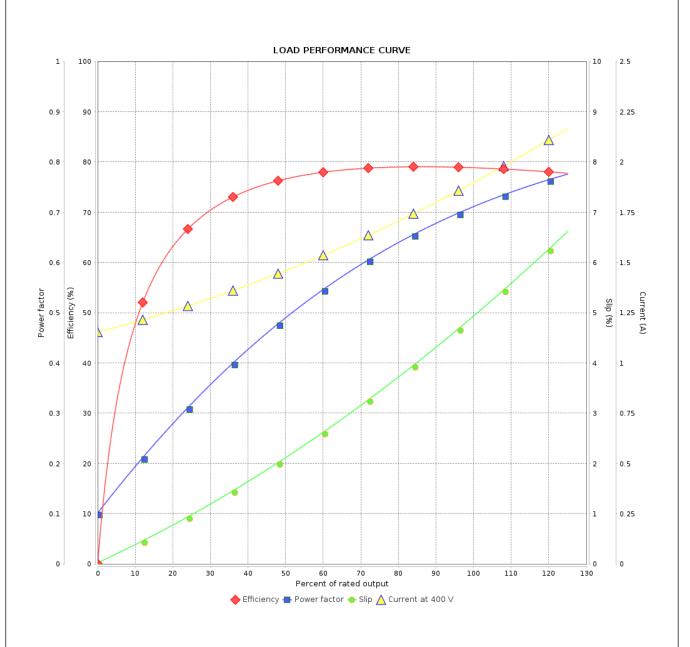
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11921930



Performance : 400 V 50 Hz 6P IE2 : 1.94 A : 0.0067 kgm² Rated current Moment of inertia (J) **LRC** : 5.2 Duty cycle : Cont.(S1) : 0.764 kgfm Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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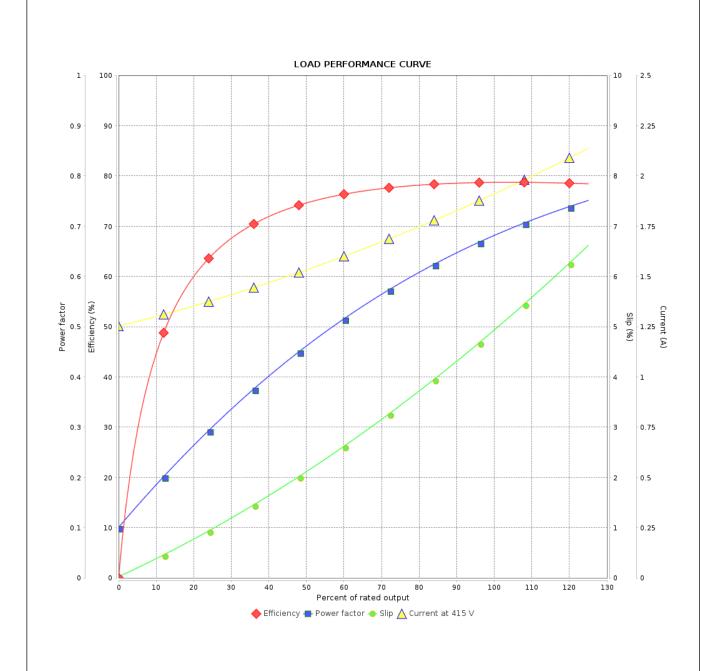
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	:	415 V 50 Hz 6P IE2	<u>.</u>			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que :	1.95 A 5.5 0.764 kgfm 250 % 280 % 950 rpm	Duty of Insula Servio	tion class e factor erature rise	: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	2
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