DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943354 Efficiency Three-Phase : 364/5TS Cooling method Frame : 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 Approx. weight³ Altitude : 1000 m.a.s.l. : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 0.4485 kgm² Design : B Output [HP] 60 60 50 50 50 60 60 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 460 380 400 415 415 81.3 Rated current [A] 67.0 66.6 63.7 62.1 77.6 74.8 L. R. Amperes [A] 429 406 433 447 407 435 449 LRC [A] 6.4x(Code | 6.1x(Code F) | 6.8x(Code | 7.2x(Code H) | 5.0x(Code D) | 5.6x(Code F) | 6.0x(Code F) G) G) No load current [A] 15.0 15.0 16.2 17.4 15.0 16.2 17.4 Rated speed [RPM] 3550 2945 2950 2955 2935 2940 2945 Slip [%] 1.39 1.83 1.67 1.50 2.17 2.00 1.83 Rated torque [kgfm] 12.3 12.3 12.3 12.3 14.8 14.8 14.8 Locked rotor torque [%] 190 180 210 220 150 170 180 Breakdown torque [%] 250 240 270 290 200 220 240 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 21s (cold) Locked rotor time 25s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 14s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) Noise level² 79.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 25% 50% 91.7 92.1 91.7 91.6 92.4 92.4 92.4 Efficiency (%) 75% 93.0 92.8 92.8 92.9 93.0 93.0 93.0 100% 93.6 92.8 93.1 93.1 92.4 93.0 93.0 25% 50% 0.81 0.81 0.79 0.76 0.85 0.83 0.81 Power Factor 75% 0.88 0.88 0.87 0.85 0.90 0.89 0.88 100% 0.90 0.91 0.90 0.89 0.91 0.90 0.90 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.4 8.4 8.0 8.0 8.2 8.9 8.2 P2 (0,5;1,0) 5.8 6.8 6.4 6.4 7.3 6.5 6.5 P3 (0,25;1,0) 5.1 6.1 5.7 5.7 6.5 5.8 5.8 P4 (0,9;0,5) 3.7 4.1 4.0 4.0 4.4 4.0 4.0 Losses (%) P5 (0,5;0,5) 2.6 2.3 2.5 2.5 2.8 2.5 2.5 P6 (0,5;0,25) 1.4 1.7 1.6 1.6 1.6 1.8 1.6 P7 0.9 1.1 1.2 1.0 1.0 1.0 1.0 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6314 C3 6314 C3 : 398 kgf Max. traction Taconite **Taconite** Sealing : 398 kgf Max. compression Labyrinth Labyrinth Lubrication interval 4000 h 4000 h Lubricant amount 27 a 27 g Lubricant type Mobil Polyrex EM Rev. **Changes Summary** Performed Checked Date Performed by Checked by Page Revision

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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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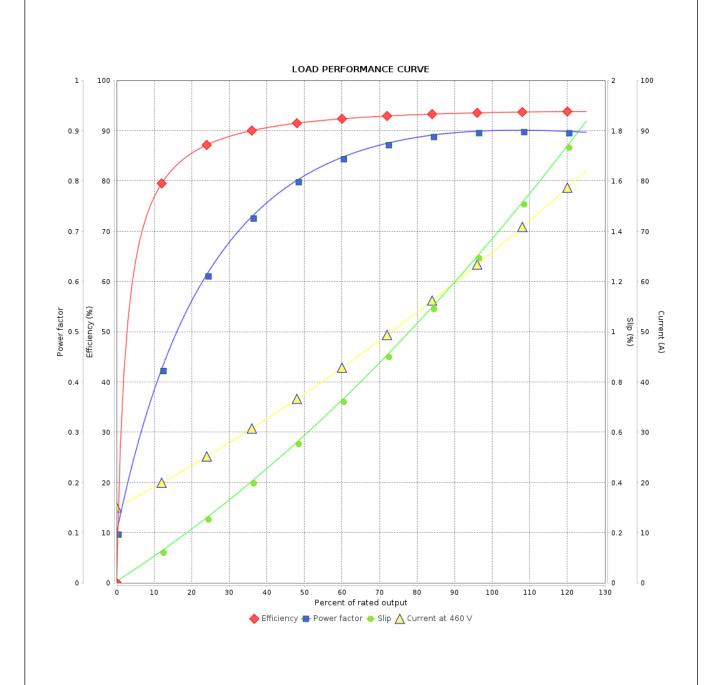
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943354

Efficiency Three-Phase



Performance	: 460 V 60 Hz	2P			
Rated current LRC	: 67.0 A : 6.4	Moment of Duty cycle	of inertia (J)	: 0.4485 kgm : Cont.(S1)	2
Rated torque Locked rotor torq	: 12.3 kgfm ue : 190 %	Insulation Service fa	class	: F : 1.25	
Breakdown torqu	e : 250 %	Temperat	ure rise	: 80 K	
Rated speed	: 3550 rpm	Design		: B	
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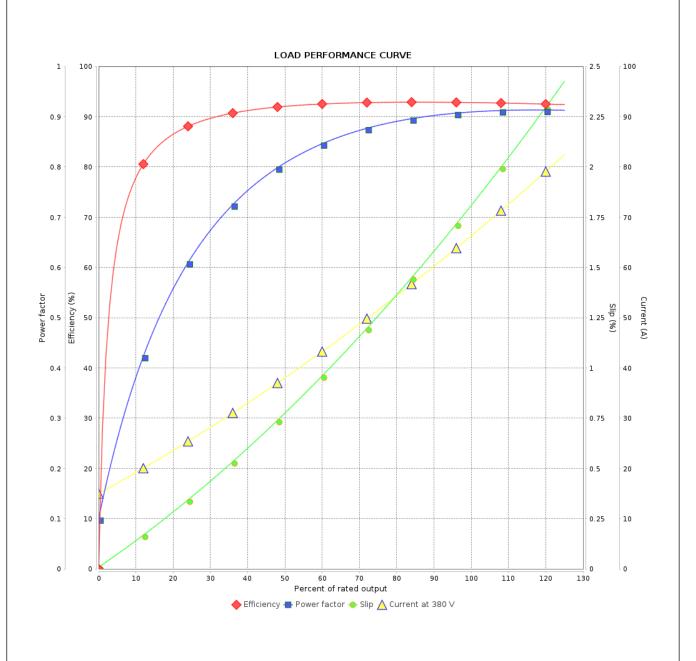
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase



Performance	: 3	80 V 50 Hz 2P IE2				
Rated current : 66.6 A		6.6 A	Moment o	of inertia (J)	: 0.4485 kgm²	
LRC : 6.1		.1	Duty cycle	Э	: Cont.(S1)	
Rated torque	:1	2.3 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 1	80 %	Service factor		: 1.00	
Breakdown torque : 240 % Temperatu		ure rise	: 80 K			
Rated speed	: 2	945 rpm	Design		: B	
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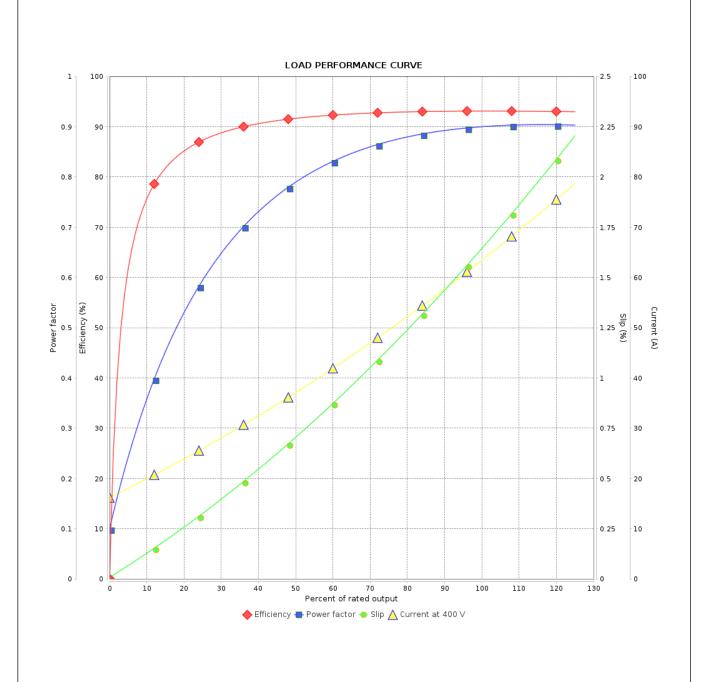
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 63.7 A : 6.8 : 12.3 kgfm : 210 % : 270 % : 2950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4485 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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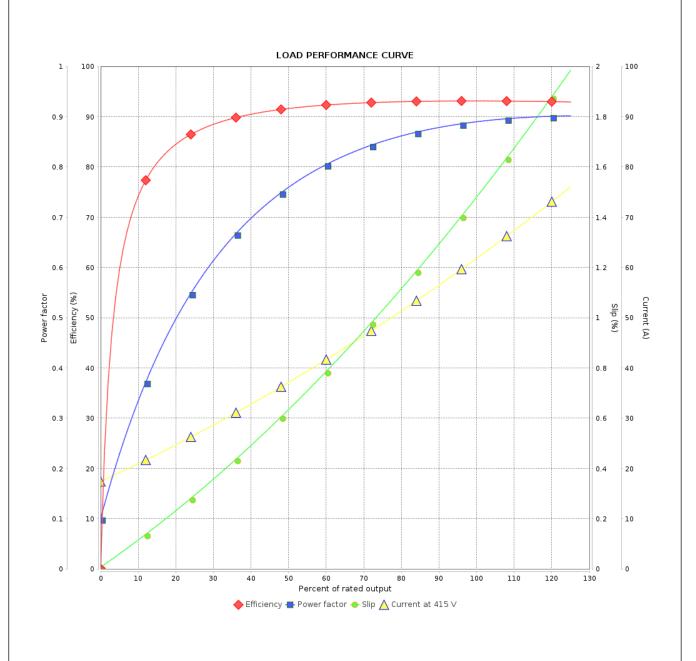
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase



Performance	: 4	15 V 50 Hz 2P IE2				
Rated current	Rated current : 62.1 A		Moment of	Moment of inertia (J)		2
LRC	: 7.	: 7.2 Duty cycle		е	: Cont.(S1)	
Rated torque	: 12	2.3 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 22	20 %	Service fa	actor	: 1.00	
Breakdown torqu	e : 29	: 290 % Temperature rise		ure rise	: 80 K	
Rated speed	: 29	955 rpm	Design		: B	
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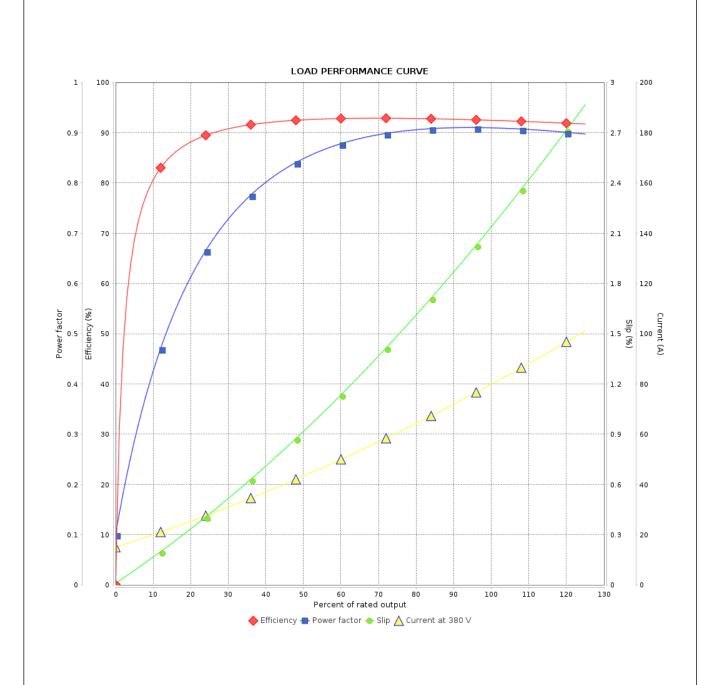
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 81.3 A : 5.0 : 14.8 kgfm : 150 % : 200 % : 2935 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.4485 kgm : Cont.(S1) : F : 1.00 : 105 K : B	2
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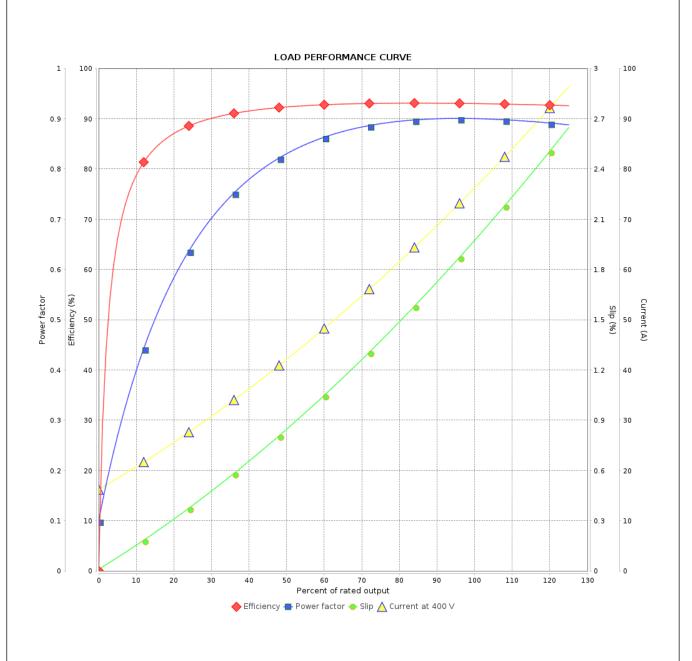
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase



Performance	: 4	400 V 50 Hz 2P IE2				
Rated current : 77.6 A		77.6 A	Moment o	of inertia (J)	: 0.4485 kgm²	
LRC			e ` ´	: Cont.(S1)		
Rated torque	: 1	14.8 kgfm	Insulation class		: F	
Locked rotor torqu	ле : '	170 %	Service factor		: 1.00	
Breakdown torque	e : 2	: 220 % Temperature rise		ure rise	: 105 K	
Rated speed	: 2	2940 rpm	Design		: B	
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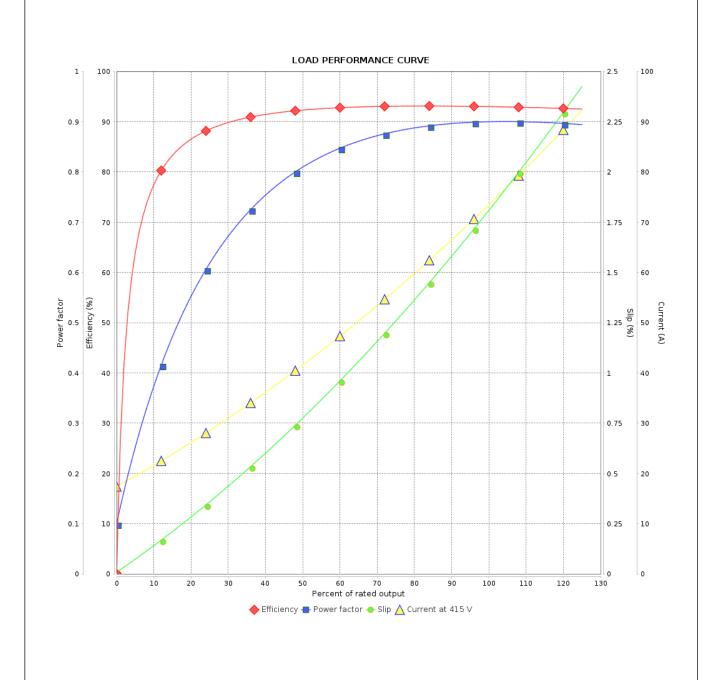
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase



Performance	:	415 V 50 Hz 2P IE2				
Rated current : 7		74.8 A	Moment o	Moment of inertia (J)		2
LRC : 6.		6.0	Duty cycle	;	: Cont.(S1)	
Rated torque : 14		14.8 kgfm	Insulation	class	: F	
Locked rotor torqu	ue :	180 %	Service fa	ctor	: 1.00	
· · · · · · · · · · · · · · · · · · ·		Temperati	Temperature rise : 1		: 105 K	
Rated speed	:	2945 rpm	Design		: B	
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