DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12109400 Efficiency Three-Phase Cooling method Frame : 364/5T : 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. : 401 kg Protection degree : IP56 Moment of inertia (J) : 1.22 kgm² Design : B Output [HP] 40 30 30 40 40 30 40 Poles 6 6 6 6 6 6 6 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 57.8 46.5 43.0 41.1 40.0 55.1 53.4 L. R. Amperes [A] 298 275 296 308 283 303 320 LRC [A] 6.4x(Code 6.4x(Code | 7.2x(Code H) | 7.7x(Code J) | 4.9x(Code E) | 5.5x(Code F) | 6.0x(Code G) G) G) No load current [A] 16.0 16.5 16.0 17.0 17.8 17.0 17.8 Rated speed [RPM] 1183 985 987 988 975 980 982 Slip [%] 1.42 1.50 1.30 1.20 2.50 2.00 1.80 Rated torque [kgfm] 24.5 22.1 22.1 22.0 29.8 29.6 29.6 Locked rotor torque [%] 200 210 240 270 160 180 200 Breakdown torque [%] 240 250 280 310 190 210 229 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 32s (cold) 32s (cold) 32s (cold) Locked rotor time 37s (cold) 32s (cold) 32s (cold) 32s (cold) 21s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) Noise level² 66.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 50% 93.6 92.4 92.3 91.9 93.0 93.0 93.0 Efficiency (%) 75% 93.6 92.8 93.1 93.0 92.4 93.0 93.0 100% 94.1 92.5 93.0 93.2 91.7 92.4 93.0 25% 50% 0.73 0.68 0.66 0.63 0.78 0.76 0.73 Power Factor 75% 0.82 0.80 0.79 0.76 0.84 0.83 0.82 100% 0.86 0.84 0.83 0.82 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.1 6.1 6.1 6.1 6.1 6.1 6.1 P2 (0,5;1,0) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 P3 (0,25;1,0) 4.4 4.4 4.4 4.4 4.4 4.4 4.4 P4 (0,9;0,5) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 Losses (%) P5 (0,5;0,5) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 1.1 1.1 1.1 P7 8.0 8.0 8.0 0.8 8.0 8.0 8.0 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6314 C3 6314 C3 : 563 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 964 kgf Lubrication interval 17000 h 17000 h 27 g Lubricant amount 27 g Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 22/10/2024 1/9 Date

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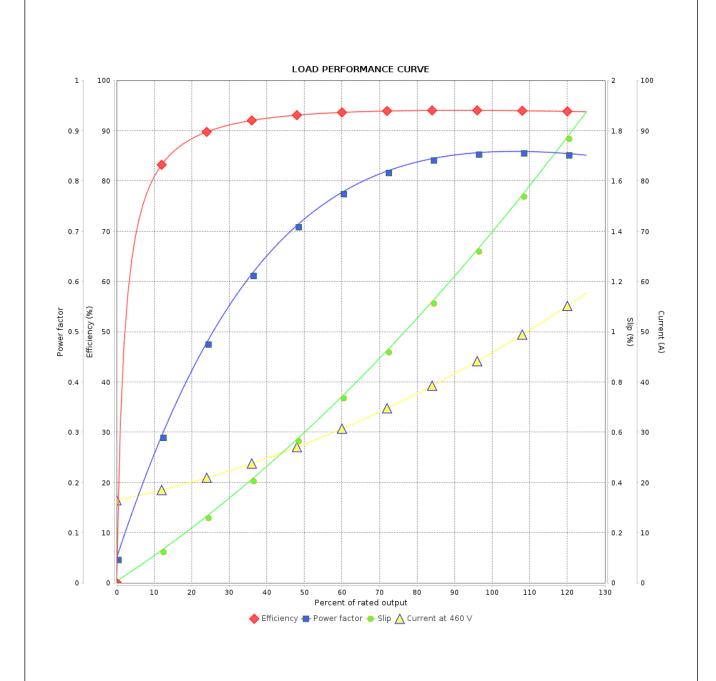
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 12109400



Performance	: 460 V 60 Hz 6P				
Rated current	: 46.5 A Moment of iner		f inertia (J)	: 1.22 kgm²	
LRC	: 6.4	Duty cycle		: Cont.(S1)	
Rated torque	: 24.5 kgfm	Insulation	Insulation class : F		
Locked rotor torque	: 200 %	Service factor : 1.25			
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1183 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

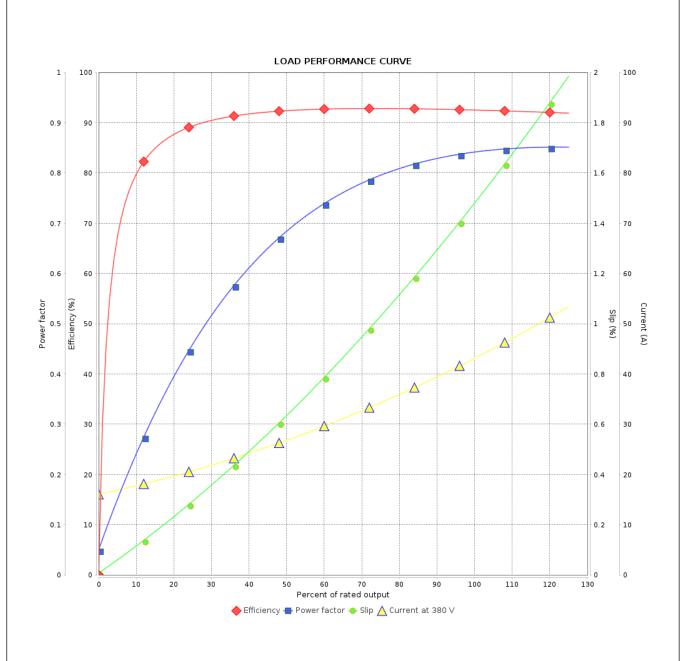


Customer

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12109400



Performance	. 3	380 V 50 Hz 6P IE3	<u> </u>		,	
			, 			
Rated current	: 4	I3.0 A	Moment of	of inertia (J)	: 1.22 kgm²	
LRC	C : 6.4 Duty cycle		9	: Cont.(S1)		
Rated torque	ed torque : 22.1 kgfm Insulation class		class	: F		
Locked rotor torque		210 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	250 %	Temperati	ure rise	: 80 K	Date Revision
Rated speed	: 9	985 rpm	Design		: B	
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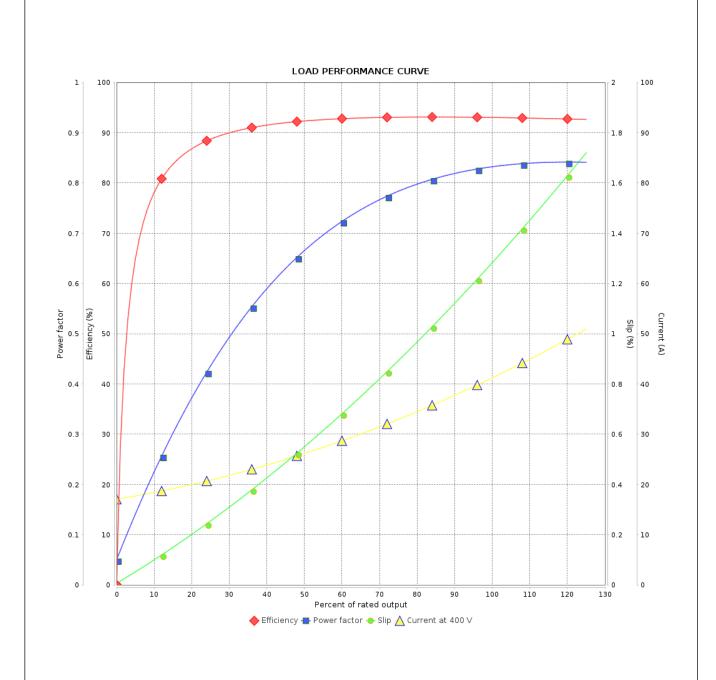
Three Phase Induction Motor - Squirrel Cage



12109400

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :



			,		·		
Performance		: 400 V 50 Hz 6P IE3	3				
Rated current		: 41.1 A	Moment of	of inertia (J)	: 1.22 kgm²		
LRC		: 7.2	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		: 22.1 kgfm	Insulation	Insulation class		: F	
Locked rotor tord	que	: 240 %	Service factor		: 1.00	: 1.00	
Breakdown torqu	ue	: 280 %	Temperat	ure rise	: 80 K		
Rated speed		: 987 rpm	Design		: B		
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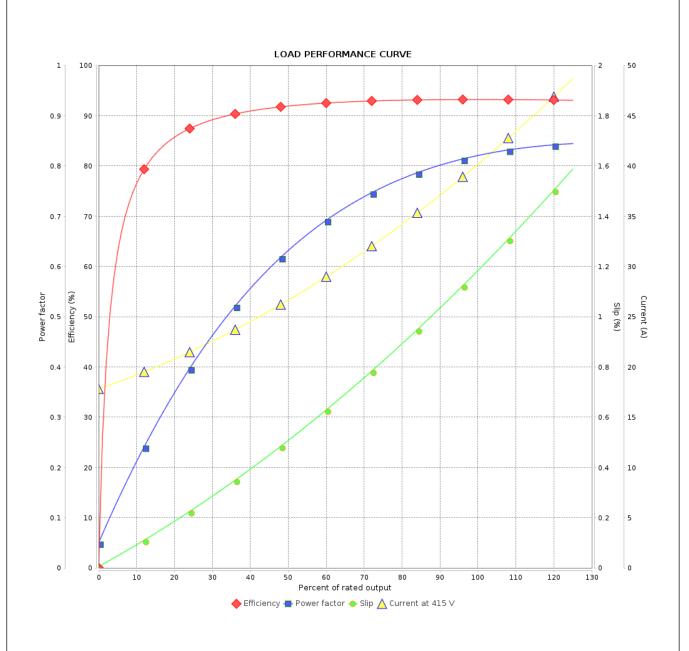


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12109400



Performance	: 415 V 50 Hz 6P IE3			,	
renormance	. 415 V 50 HZ 0F 1E3	1			
Rated current	ited current : 40.0 A Mon		(J)	: 1.22 kgm²	
LRC : 7.7		Duty cycle		: Cont.(S1)	
Rated torque : 22.0 kgfm		Insulation class		: F ` ´	
Locked rotor torque	: 270 %	Service factor : 1.00			
Breakdown torque	: 310 %	Temperature rise		: 80 K	
Rated speed	: 988 rpm	Design		: B	
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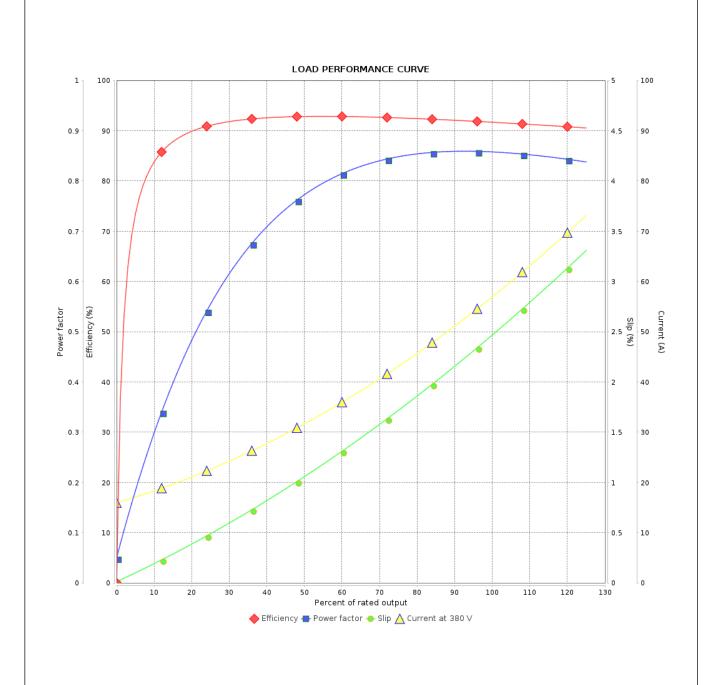
Three Phase Induction Motor - Squirrel Cage



12109400

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :



Performance		: 380 V 50 Hz 6P IE:	2				
Rated current LRC		: 57.8 A : 4.9	1	Moment of inertia (J) Duty cycle		: 1.22 kgm² : Cont.(S1)	
Rated torque		: 29.8 kgfm	Insulation class		: F		
Locked rotor tord Breakdown torgo	red rotor torque : 160 % Service factor kdown torque : 190 % Temperature			: 1.00 : 80 K			
Rated speed		: 975 rpm	Design		: B		
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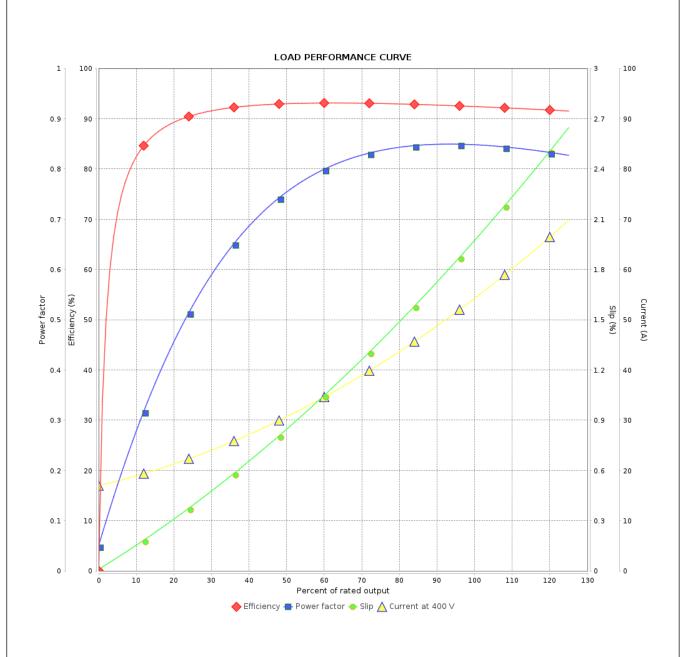


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12109400



Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 55.1 A : 5.5 : 29.6 kgfm : 180 % : 210 %	Moment of inertia (Duty cycle Insulation class Service factor Temperature rise	J)	: 1.22 kgm ² : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 980 rpm	Design		: B	
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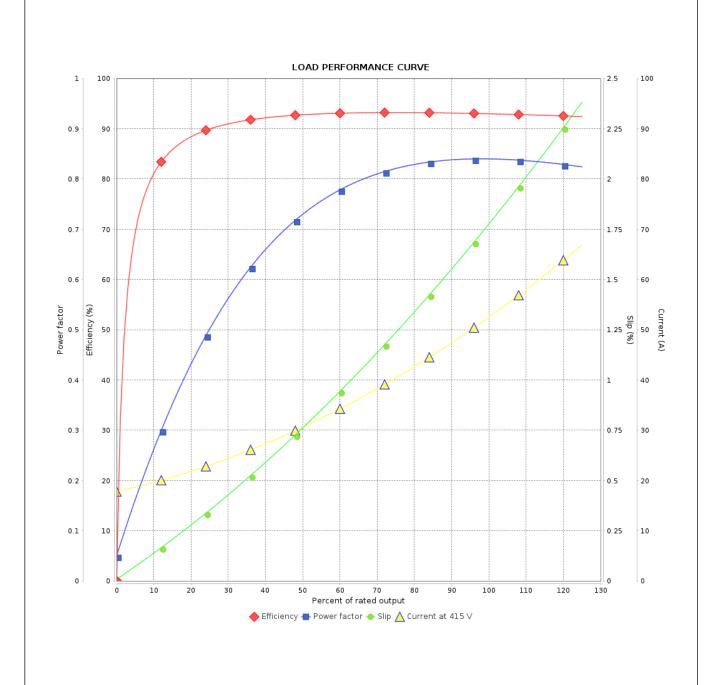
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12109400

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :



Performance		: 415 V 50 Hz 6P I	E3				
Rated current LRC		: 53.4 A : 6.0		Moment of inertia (J) Duty cycle		: 1.22 kgm² : Cont.(S1)	
Rated torque	Rated torque : 29.6 kgfm Insulati		Insulation	ion class : F			
Locked rotor tord Breakdown tord	·			: 1.00 : 80 K			
Rated speed		: 982 rpm	Design		: B		
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