DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11940579 Efficiency Three-Phase Cooling method Frame : 213/5T : 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. : 82.3 kg Protection degree : IP55 Moment of inertia (J) : 0.0268 kgm² Design : B Output [HP] 10 7.5 10 7.5 7.5 10 10 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 460 380 400 415 400 415 14.3 Rated current [A] 11.7 10.6 10.4 10.0 13.7 13.4 L. R. Amperes [A] 84.5 83.8 90.8 91.2 80.1 87.9 92.5 LRC [A] 7.2x(Code H) 7.9x(Code J) 8.7x(Code K) 9.1x(Code K) 5.6x(Code F) 6.4x(Code 6.9x(Code H) G) No load current [A] 3.60 3.50 3.70 3.90 3.50 3.70 3.90 Rated speed [RPM] 3520 2930 2940 2945 2885 2900 2910 Slip [%] 2.22 2.33 2.00 1.83 3.83 3.33 3.00 Rated torque [kgfm] 2.06 1.86 1.85 1.85 2.52 2.50 2.49 Locked rotor torque [%] 220 220 240 260 170 190 200 Breakdown torque [%] 290 300 340 360 220 250 270 1.00 Service factor 1.25 1.25 1.25 1.25 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 32s (cold) 32s (cold) 32s (cold) 32s (cold) 21s (cold) 21s (cold) 12s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 12s (hot) 12s (hot) Noise level² 68.0 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% 89.5 88.6 88.4 87.7 89.5 89.5 89.5 Efficiency (%) 75% 90.2 89.6 89.6 89.5 89.5 89.5 89.5 100% 90.2 89.5 89.5 89.8 88.5 88.5 88.5 25% 50% 0.79 0.75 0.72 0.70 0.83 0.81 0.79 Power Factor 75% 0.86 0.85 0.83 0.81 0.89 0.87 0.86 100% 0.89 0.88 0.85 0.85 0.90 0.89 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.5 11.4 11.0 12.6 12.6 11.4 12.6 P2 (0,5;1,0) 8.5 9.2 9.2 8.9 10.1 10.1 10.1 P3 (0,25;1,0) 7.4 8.0 8.0 7.8 8.9 8.9 8.9 P4 (0,9;0,5) 5.1 5.6 5.6 5.4 6.2 6.2 6.2 Losses (%) P5 (0,5;0,5) 3.2 3.4 3.4 3.3 3.8 3.8 3.8 P6 (0,5;0,25) 2.0 2.2 2.2 2.1 2.4 2.4 2.4 P7 1.2 1.3 1.3 1.3 1.5 1.5 1.5 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6308 C3 6207 C3 : 83 kgf Max. traction Taconite **Taconite** Sealing : 165 kgf Max. compression Labyrinth Labyrinth 20000 h Lubrication interval 20000 h Lubricant amount 11 a 7 g Lubricant type Mobil Polyrex EM Rev. **Changes Summary** Performed Checked Date Performed by Checked by Page Revision

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Customer	:					
Customer Notes This revision rep	i:		These ar	re average values		
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.			e average values ipply, subject to th			
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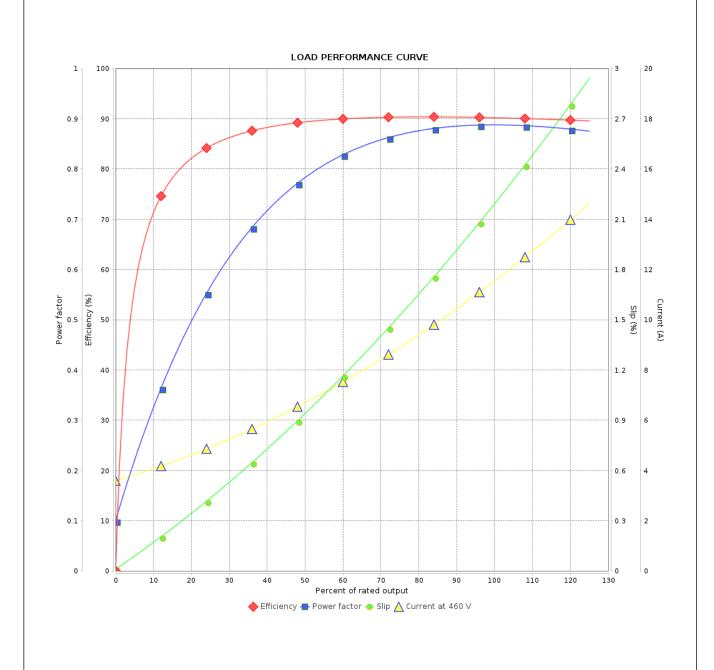


Customer

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11940579



Performance		460 V 60 Hz 2P				
Rated current		11.7 A	Moment o	Moment of inertia (J)		2
LRC	:	7.2	Duty cycle	;	: Cont.(S1)	
Rated torque : 2		2.06 kgfm	Insulation	class	: F	
		220 %	Service fa	Service factor		
Breakdown torque	::	290 %	Temperati	Temperature rise		
Rated speed	::	: 3520 rpm Design			: B	
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Three Phase Induction Motor - Squirrel Cage



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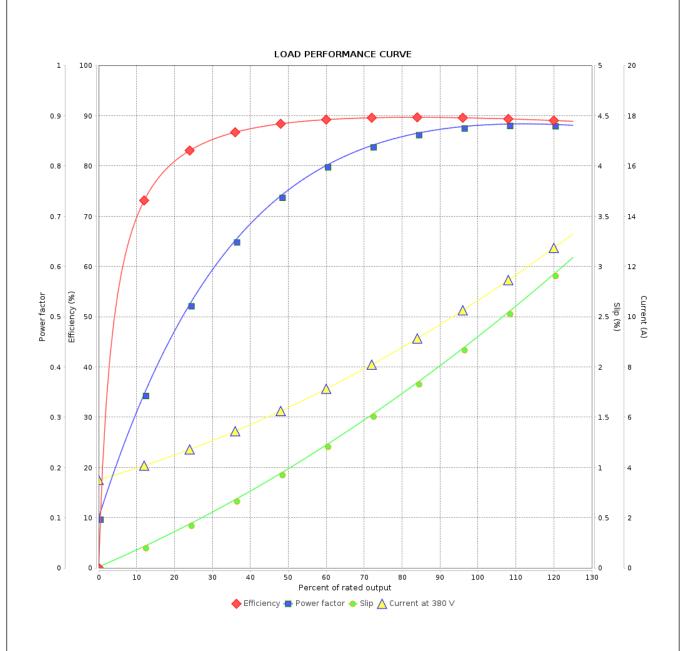
Date

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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11940579



Performance : 380 V 50 Hz 2P IE3 : 10.6 A : 0.0268 kgm² Rated current Moment of inertia (J) **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.86 kgfm : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2930 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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Three Phase Induction Motor - Squirrel Cage



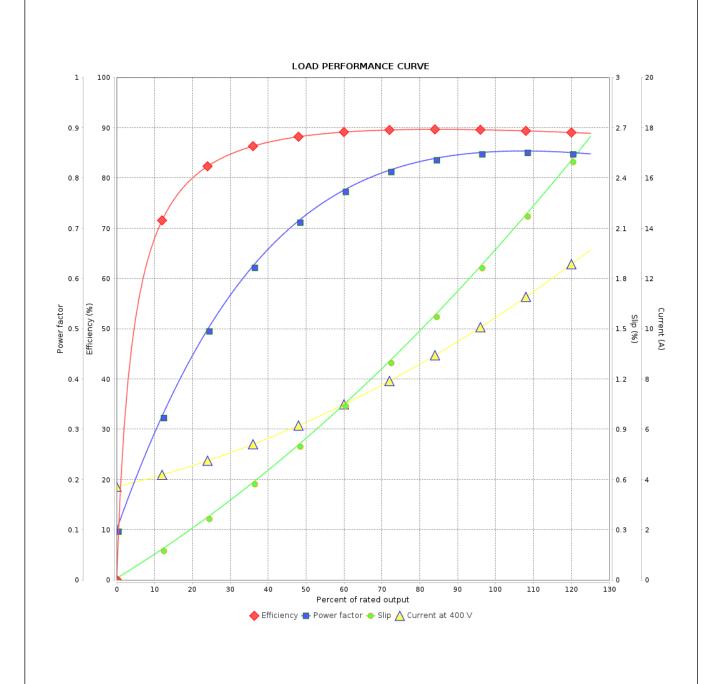
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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.4 A Moment of inertia (J) : 0.0268 kgr : 8.7 Duty cycle : Cont.(S1) : 1.85 kgfm Insulation class : F : 240 % Service factor : 1.25 : 340 % Temperature rise : 80 K : 2940 rpm Design : B		Insulation class Service factor Temperature rise		
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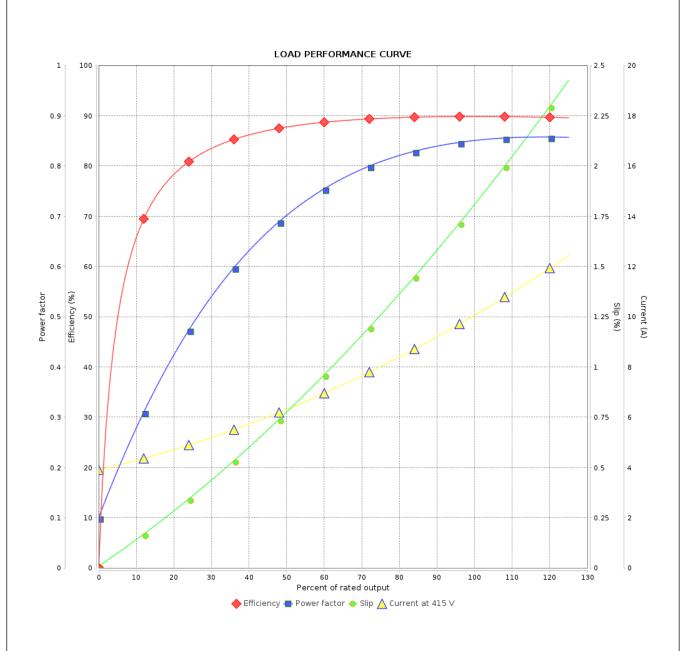


Customer

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Performance	: 4	15 V 50 Hz 2P IE3				
Rated current :		0.0 A	Moment of	Moment of inertia (J)		2
LRC	: 9).1	Duty cycle	е	: Cont.(S1)	
Rated torque	: 1	.85 kgfm	Insulation	class	: F	
Locked rotor tord	que : 2	260 %	Service fa	actor	: 1.25	
Breakdown torque :		860 %	Temperat	Temperature rise		
Rated speed		945 rpm	Design	Design		
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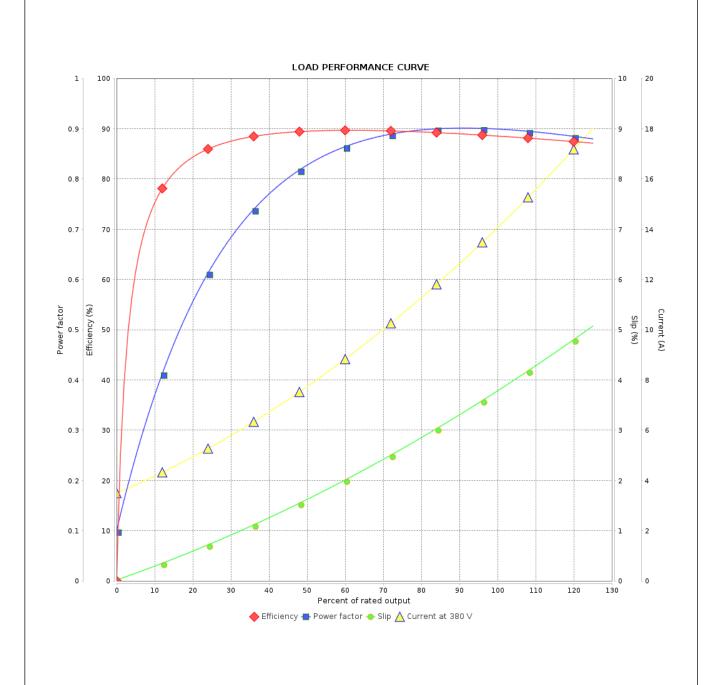
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11940579

Efficiency Three-Phase



Performance	: 380 V 50 Hz 2P IE2	V 50 Hz 2P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.3 A : 5.6 : 2.52 kgfm : 170 % : 220 % : 2885 rpm	Moment of Duty cycl Insulation Service for Temperations	ı class actor	: 0.0268 kgm : Cont.(S1) : F : 1.00 : 105 K : B	2		
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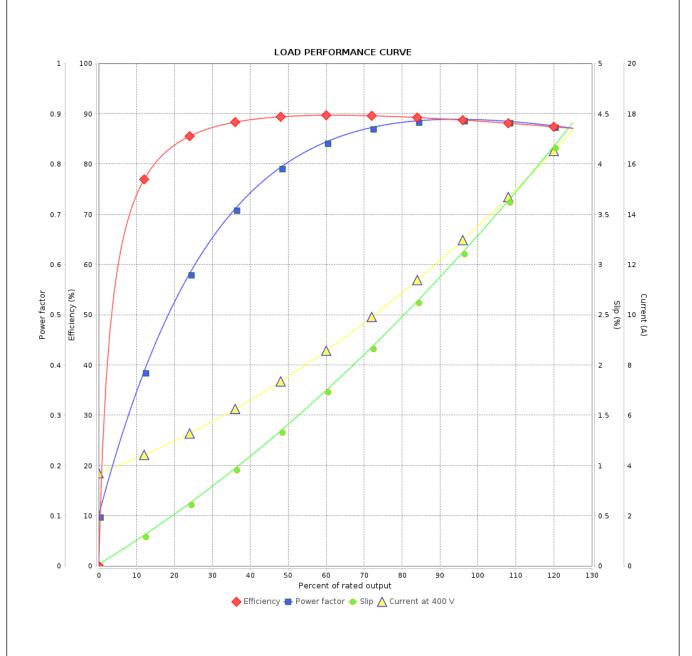


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11940579



Performance	: 400 V 50 Hz 2P IE2	: 400 V 50 Hz 2P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.7 A : 6.4 : 2.50 kgfm : 190 % : 250 % : 2900 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0268 kgm² : Cont.(S1) : F : 1.00 : 105 K : B				
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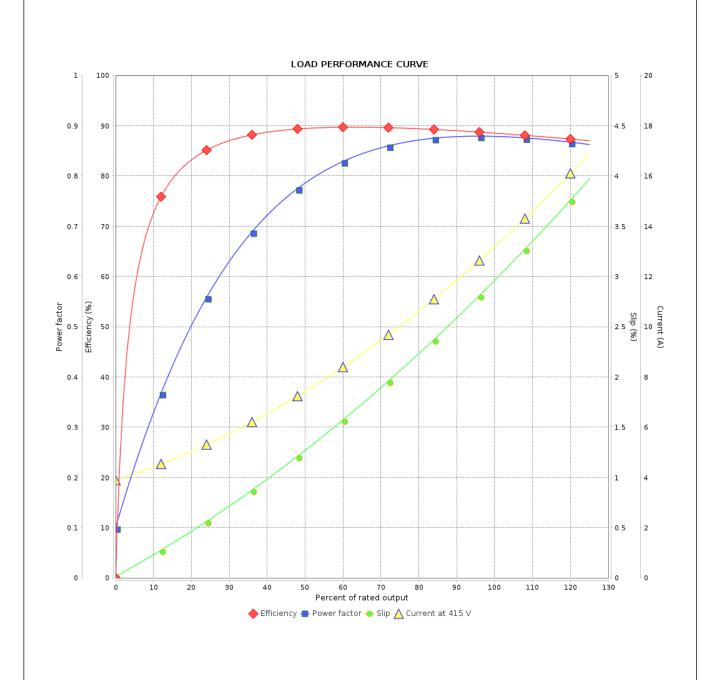
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Customer :

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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 415 V 50 Hz 2P IE2	P IE2					
Rated current	: 13.4 A	Moment of inertia (J)		Moment of inertia (J) : 0.0268 kgm²			
LRC	: 6.9	Duty cycle				: Cont.(S1)	
Rated torque	: 2.49 kgfm	Insulation class		:F			
Locked rotor torque	: 200 %	Service factor		: 1.00			
Breakdown torque : 270 %		Temperature rise		: 105 K			
Rated speed : 2910 rpm		Design		: B			
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