DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11941326 Efficiency Three-Phase : 254TC 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 Altitude : 1000 m.a.s.l. Approx. weight³ : 138 kg Protection degree : IP55 Moment of inertia (J) : 0.1104 kgm² Design : B Output [HP] 10 15 15 10 10 15 15 Poles 4 4 4 4 4 4 4 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 460 380 400 415 400 415 21.5 Rated current [A] 18.0 15.2 14.8 14.5 20.5 20.0 L. R. Amperes [A] 115 109 115 120 105 111 118 LRC [A] 6.4x(Code | 7.2x(Code J) | 7.8x(Code J) | 8.3x(Code K) | 4.9x(Code E) | 5.4x(Code F) | 5.9x(Code G) G) No load current [A] 7.40 7.10 7.00 6.70 7.10 7.60 7.40 Rated speed [RPM] 1768 1475 1480 1480 1455 1460 1465 Slip [%] 1.78 1.67 1.33 1.33 3.00 2.67 2.33 Rated torque [kgfm] 6.16 4.92 4.90 4.90 7.48 7.46 7.43 Locked rotor torque [%] 240 250 280 310 160 200 210 Breakdown torque [%] 260 300 340 370 200 220 240 1.00 Service factor 1.25 1.25 1.25 1.25 1.00 1.00 Temperature rise 80 K 37s (cold) Locked rotor time 55s (cold) 72s (cold) 63s (cold) 57s (cold) 41s (cold) 41s (cold) 31s (hot) 40s (hot) 35s (hot) 32s (hot) 23s (hot) 23s (hot) 21s (hot) Noise level² 64.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 88.6 50% 91.0 88.88 88.3 91.0 91.0 91.0 Efficiency (%) 75% 91.7 90.3 90.3 90.3 90.2 91.0 91.0 100% 92.4 90.4 90.6 90.8 90.2 91.0 91.0 25% 50% 0.68 0.65 0.62 0.59 0.74 0.71 0.69 Power Factor 75% 0.78 0.77 0.74 0.72 0.82 0.80 0.79 100% 0.83 0.83 0.81 0.79 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.1 8.1 8.1 8.1 8.1 8.1 8.1 P2 (0,5;1,0) 6.8 6.8 6.8 6.8 6.8 6.8 6.8 P3 (0,25;1,0) 6.3 6.3 6.3 6.3 6.3 6.3 6.3 P4 (0,9;0,5) 3.9 3.9 3.9 3.9 3.9 3.9 3.9 Losses (%) P5 (0,5;0,5) 2.7 2.7 2.7 2.7 2.7 2.7 2.7 P6 (0,5;0,25) 1.8 1.8 1.8 1.8 1.8 1.8 1.8 P7 1.2 1.2 1.2 1.2 1.2 1.2 1.2 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6309 C3 6209 C3 : 211 kgf Max. traction Taconite **Taconite** Sealing : 349 kgf Max. compression Labyrinth Labyrinth 20000 h Lubrication interval 20000 h Lubricant amount 13 a 9 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		
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Three Phase Induction Motor - Squirrel Cage

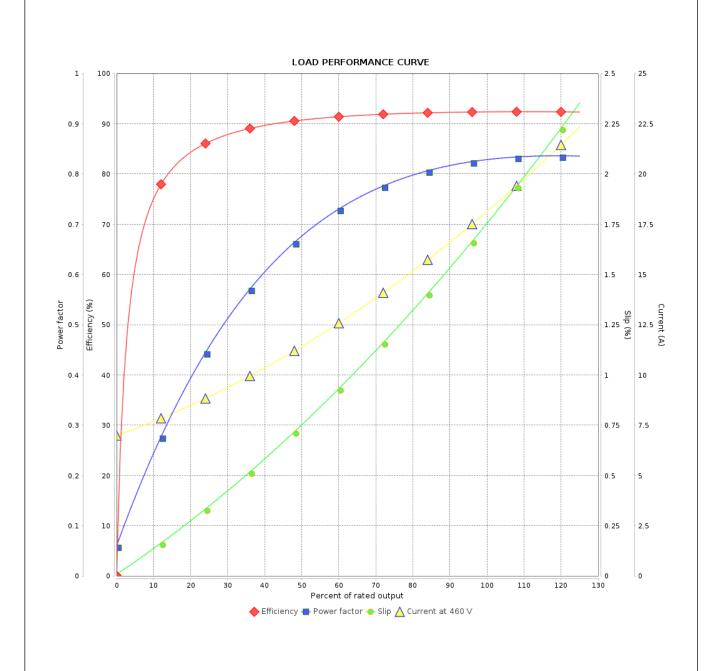


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941326



Performance : 460 V 60 Hz 4P : 18.0 A Rated current Moment of inertia (J) : 0.1104 kgm² **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 6.16 kgfm Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1768 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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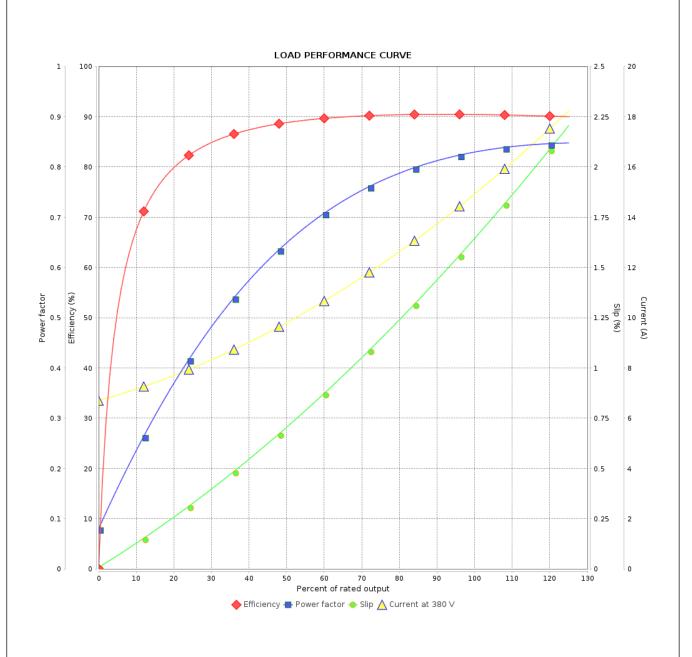


Customer :

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Efficiency Three-Phase

Product code: 11941326



Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.2 A : 7.2 : 4.92 kgfm : 250 % : 300 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1104 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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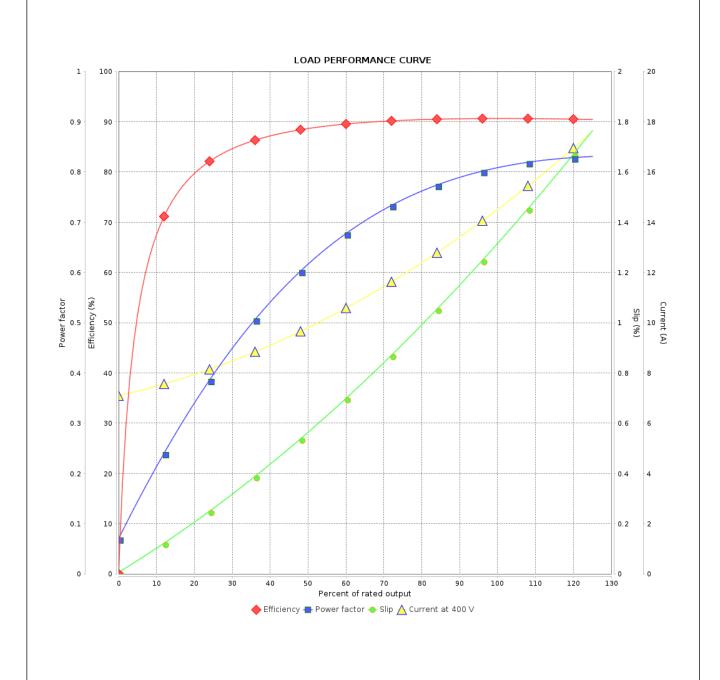


Customer :

Product line : W22 IEEE 841 NEMA Premium Produ

Efficiency Three-Phase

Product code: 11941326



Performance : 400 V 50 Hz 4P IE3						
Rated current : 14.8 A		4.8 A	Moment of	Moment of inertia (J)		2
LRC : 7.8		.8	Duty cycle)	: Cont.(S1)	
Rated torque : 4.90		.90 kgfm	Insulation	Insulation class		
•		80 %	Service fa	Service factor		
Breakdown torque		40 %	Temperat	Temperature rise		
Rated speed	: 14	480 rpm	Design	Design		
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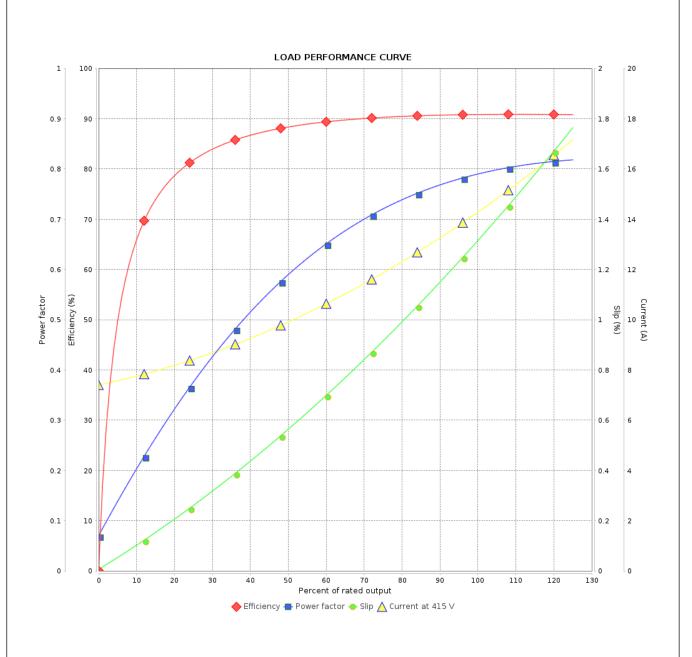


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941326



Performance	rformance : 415 V 50 Hz 4P IE3					
Rated current	: 14.5 A	Moment of inertia (J)		: 0.1104 kgm²		
LRC	: 8.3	Duty cycle		: Cont.(S1) : F		
Rated torque	: 4.90 kgfm					
Locked rotor torque	: 310 %			: 1.25		
Breakdown torque	: 370 %	Temperature rise	ıre rise	: 80 K		
Rated speed	: 1480 rpm	Design		: B		
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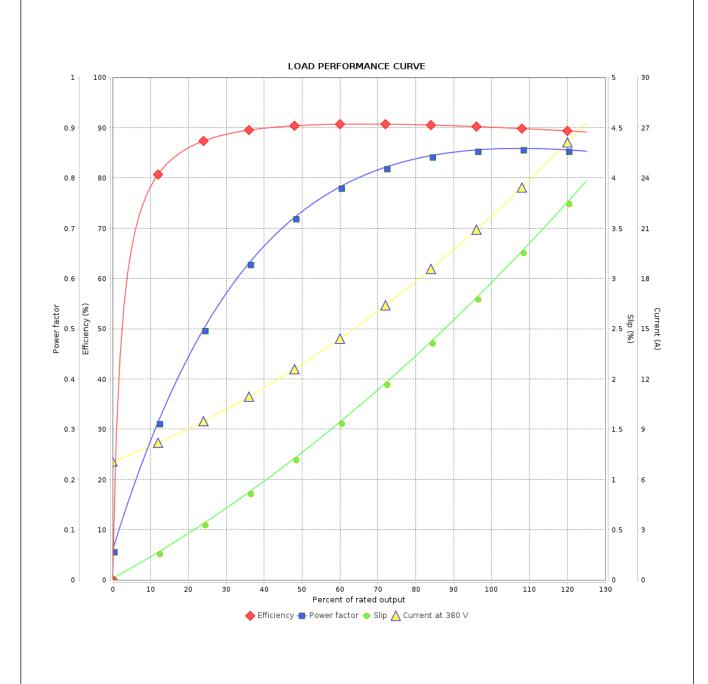


11941326

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



: 380 V 50 Hz 4P IE2				
: 21.5 A	Moment of inertia (J)		: 0.1104 kgm²	
LRC : 4.9		Duty cycle		
: 7.48 kgfm	Insulation class		: F	
: 160 %	Service factor		: 1.00	
: 200 %	Temperature rise		: 80 K	
Rated speed : 1455 rpm			: B	
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_	: 4.9 : 7.48 kgfm : 160 % : 200 % : 1455 rpm	: 4.9 Duty cycle : 7.48 kgfm Insulation : 160 % Service fa : 200 % Temperate : 1455 rpm Design	: 4.9 : 7.48 kgfm : 160 % : 200 % : 1455 rpm Duty cycle Insulation class Service factor Temperature rise Design	: 4.9 Duty cycle : Cont.(S1) : 7.48 kgfm Insulation class : F : 160 % Service factor : 1.00 : 200 % Temperature rise : 80 K : 1455 rpm Design : B

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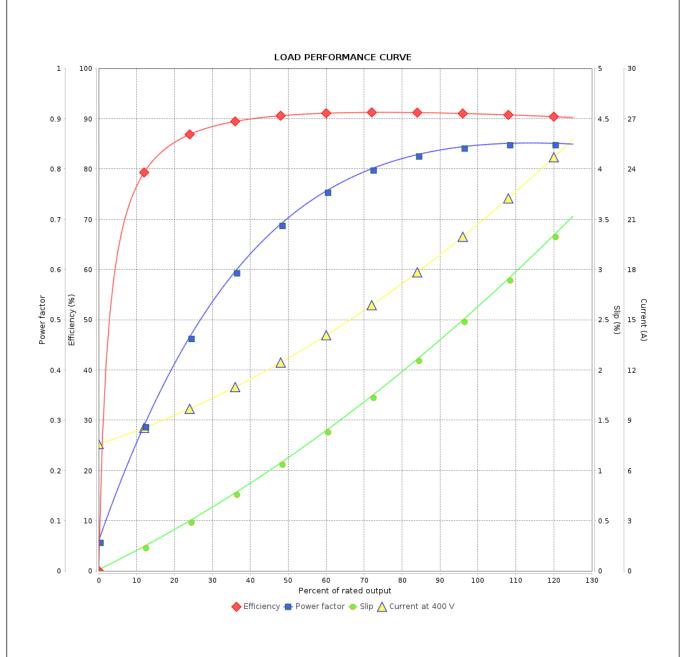
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941326



Performance : 400 V 50 Hz 4P IE2 : 0.1104 kgm² Rated current : 20.5 A Moment of inertia (J) **LRC** : 5.4 Duty cycle : Cont.(S1) : 7.46 kgfm Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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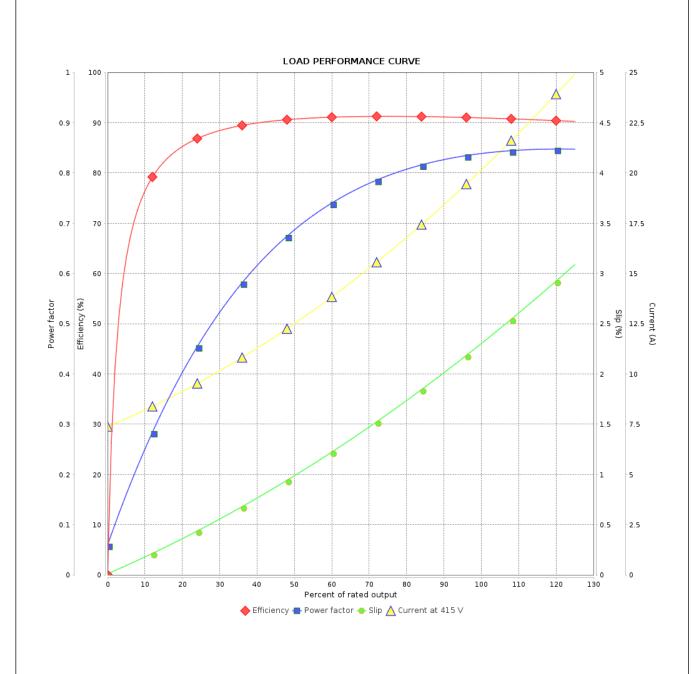
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance : 415 V 50 Hz 4P IE2			Ξ 2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 20.0 A : 5.9 : 7.43 kgfm : 210 % : 240 % : 1465 rpm	E II S T	Moment of inertia (J) : 0.1104 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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