#### DATA SHEET

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11938794 Efficiency Three-Phase : 143/5TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 26.0 kg Protection degree : IP55 Moment of inertia (J) : 0.0066 kgm<sup>2</sup> Design : B Output [HP] 2 1.5 1.5 1.5 2 2 2 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 3.33 Rated current [A] 2.79 2.57 2.57 2.56 3.22 3.14 L. R. Amperes [A] 23.2 21.1 22.4 21.5 20.0 21.3 22.9 LRC [A] 8.3x(Code L) 8.2x(Code L) 8.7x(Code 8.4x(Code | 6.0x(Code H) | 6.6x(Code J) | 7.3x(Code K) M) M) No load current [A] 1.63 1.61 1.80 1.97 1.61 1.80 1.97 Rated speed [RPM] 1750 1460 1465 1465 1435 1440 1450 Slip [%] 2.78 2.67 2.33 2.33 4.33 4.00 3.33 Rated torque [kgfm] 0.829 0.746 0.743 0.743 1.01 1.01 1.00 Locked rotor torque [%] 270 290 320 350 220 229 250 240 Breakdown torque [%] 320 330 380 409 260 290 1.25 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 21s (cold) Locked rotor time 18s (cold) 32s (cold) 28s (cold) 27s (cold) 23s (cold) 21s (cold) 12s (hot) 10s (hot) 18s (hot) 16s (hot) 15s (hot) 13s (hot) 12s (hot) Noise level<sup>2</sup> 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 85.5 84.0 82.0 81.4 85.5 84.0 84.0 Efficiency (%) 75% 86.5 84.2 83.5 83.1 84.0 84.0 84.0 100% 86.5 84.5 84.5 84.1 82.5 84.0 84.0 25% 50% 0.57 0.55 0.50 0.47 0.66 0.62 0.60 Power Factor 75% 0.70 0.69 0.64 0.61 0.78 0.74 0.72 100% 0.78 0.77 0.73 0.71 0.83 0.80 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 15.0 15.0 15.0 15.0 15.0 15.0 15.0 P2 (0,5;1,0) 12.8 12.8 12.8 12.8 12.8 12.8 12.8 P3 (0,25;1,0) 12.1 12.1 12.1 12.1 12.1 12.1 12.1 P4 (0,9;0,5) 8.4 8.4 8.4 8.4 8.4 8.4 8.4 Losses (%) P5 (0,5;0,5) 6.0 6.0 6.0 6.0 6.0 6.0 6.0 P6 (0,5;0,25) 4.7 4.7 4.7 4.7 4.7 4.7 4.7 P7 3.5 3.5 3.5 3.5 3.5 3.5 3.5 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6205 C3 6204 C3 : 70 kgf Max. traction Taconite **Taconite** Sealing : 96 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

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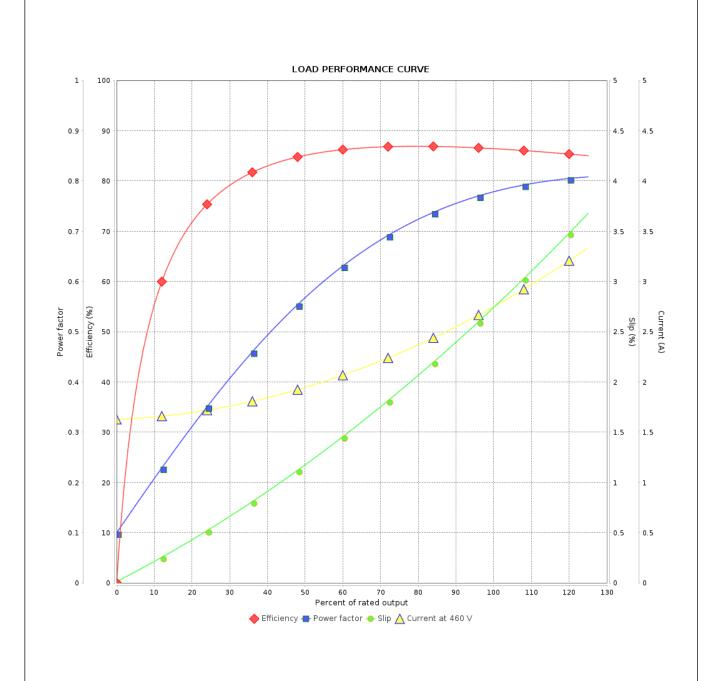


11938794

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 460 V 60 Hz 4P				
Rated current	: 2.79 A	Moment of inertia (J)		: 0.0066 kgm²	
LRC	: 8.3	Duty cycle		: Cont.(S1)	
Rated torque	: 0.829 kgfm	Insulation class		:F	
Locked rotor torque	: 270 %	Service factor		: 1.25	
Breakdown torque	: 320 %	Temperature rise		: 80 K	
Rated speed	: 1750 rpm	Design		: B	
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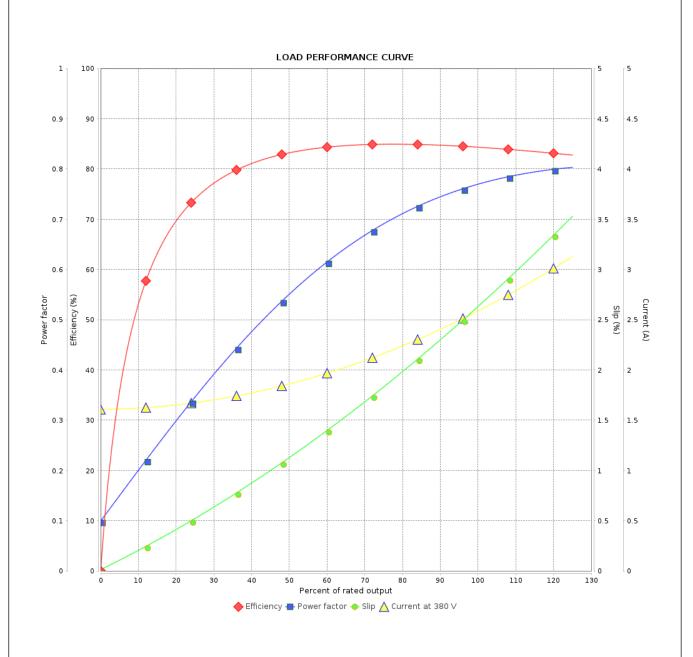


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11938794



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.57 A : 8.2 : 0.746 kgfm : 290 % : 330 % : 1460 rpm	Duty cycle Insulation class Service factor Temperature rise		: 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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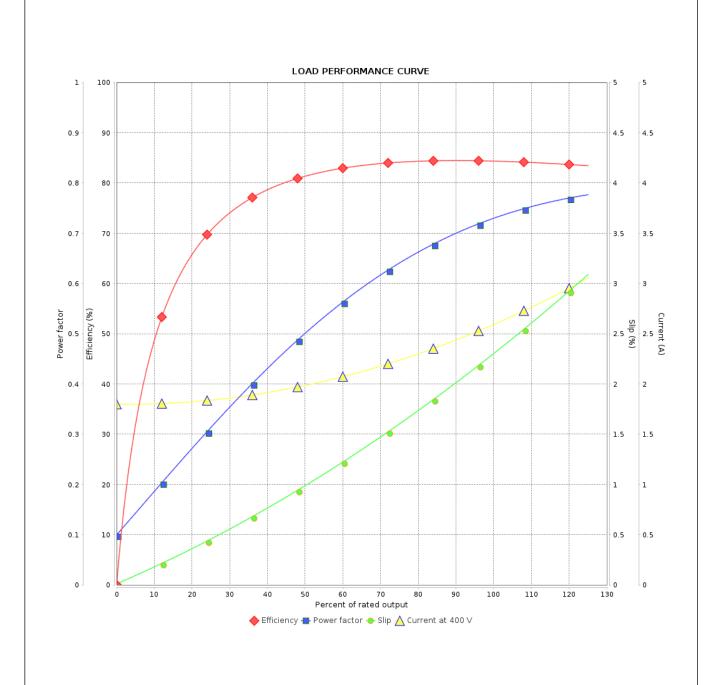
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 4P IE3					
Rated current			f inertia (J)	: 0.0066 kgm²		
LRC	: 8.7	Duty cycle		: Cont.(S1)		
Rated torque : 0.743 kgfm Ins		Insulation class		:F		
Locked rotor torque	: 320 %	Service factor		: 1.25		
Breakdown torque	: 380 %	Temperature rise		: 80 K		
Rated speed	: 1465 rpm	Design		: B		
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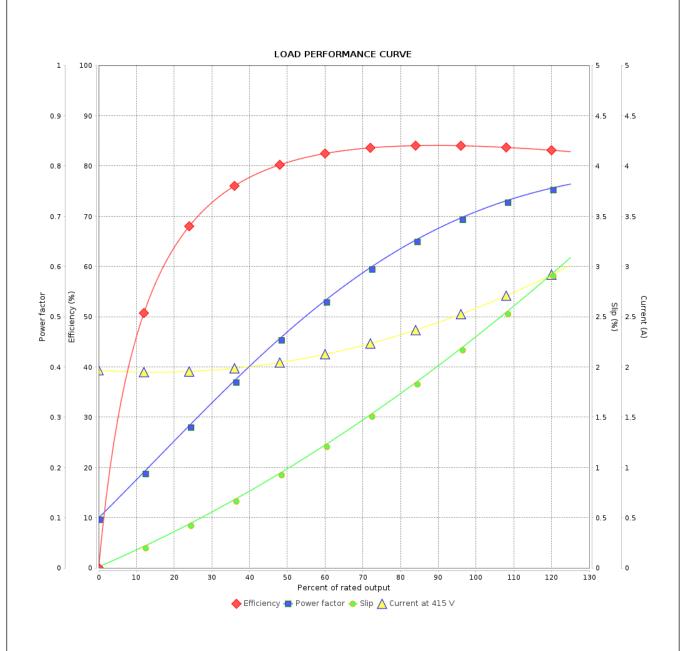


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11938794



Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.56 A : 8.4 : 0.743 kgfm : 350 % : 409 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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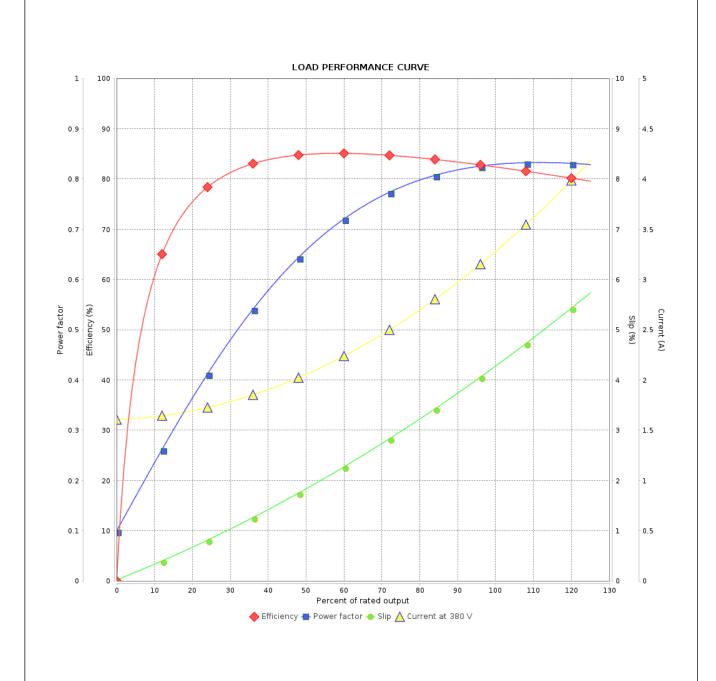
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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11938794

Efficiency Three-Phase



Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperation	class ictor	: 0.0066 kgm : Cont.(S1) : F : 1.25 : 80 K : B	2
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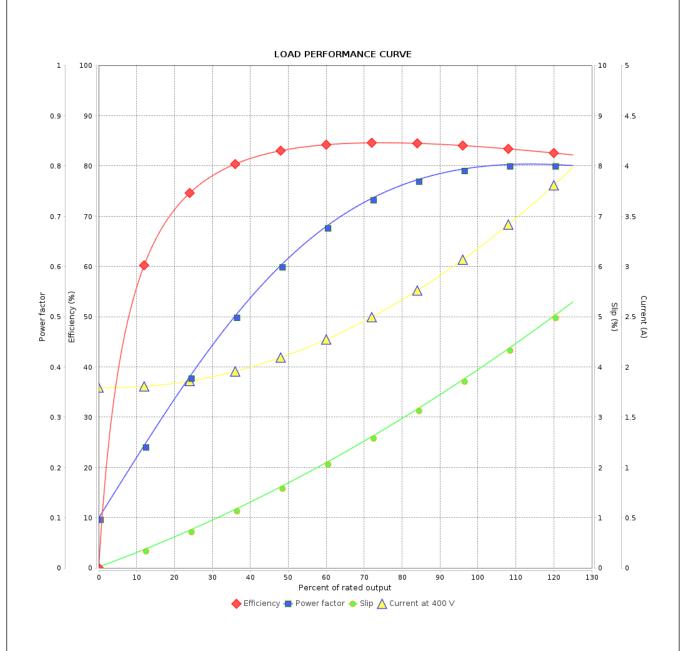


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11938794



	· ·					
Performance	: 400 \	/ 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	kgfm % %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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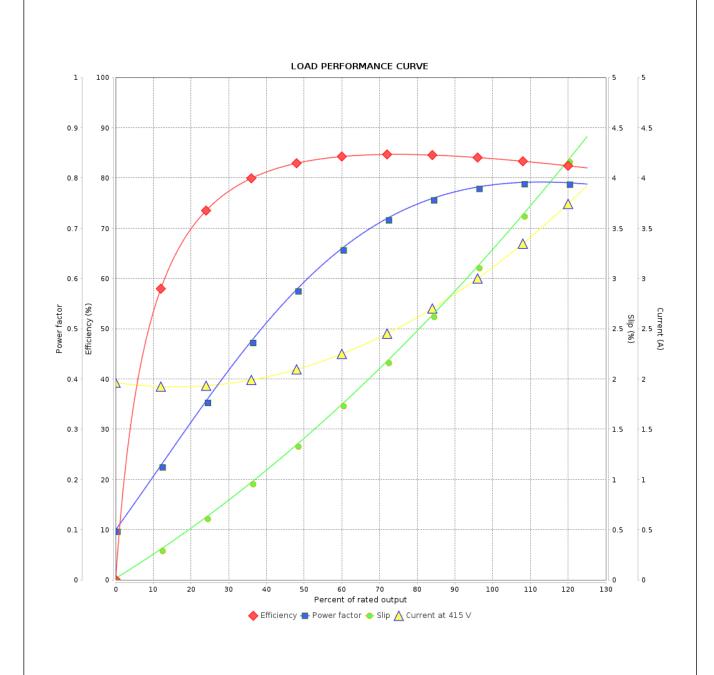
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Product line : W22 IEEE 841 NEMA Premium Product code : 11938794

Efficiency Three-Phase



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.14 A : 7.3 : 1.00 kgfm : 250 % : 290 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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