### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11448468 Efficiency Three-Phase Cooling method Frame : 254/6T : IC411 - TEFC Insulation class Mounting : F-1 : F 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. : 138 kg Protection degree : IP56 Moment of inertia (J) : 0.1867 kgm<sup>2</sup> Design : B Output [HP] 7.5 7.5 5.5 5.5 5.5 7.5 7.5 Poles 8 8 8 8 8 8 8 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 13.1 11.1 10.4 10.5 10.4 12.5 12.4 L. R. Amperes [A] 58.8 56.1 58.7 62.5 56.3 58.7 62.0 LRC [A] 5.3x(Code H)5.4x(Code H) 5.6x(Code J) 6.0x(Code K) 4.3x(Code F) 4.7x(Code F) 5.0x(Code G) No load current [A] 7.30 6.40 6.50 6.40 6.90 6.90 7.30 Rated speed [RPM] 880 730 730 735 720 725 730 4.00 Slip [%] 2.22 2.67 2.67 2.00 3.33 2.67 Rated torque [kgfm] 6.19 5.45 5.43 5.42 7.56 7.51 7.48 Locked rotor torque [%] 200 210 229 260 150 170 190 Breakdown torque [%] 250 260 290 320 190 210 229 Service factor 1.25 1.00 1.15 1.15 1.00 1.15 1.15 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 45s (cold) Locked rotor time 59s (cold) 45s (cold) 45s (cold) 45s (cold) 45s (cold) 45s (cold) 25s (hot) 33s (hot) 25s (hot) 25s (hot) 25s (hot) 25s (hot) 25s (hot) Noise level<sup>2</sup> 54.0 dB(A) 51.0 dB(A) 51.0 dB(A) 51.0 dB(A) 51.0 dB(A) 51.0 dB(A) 51.0 dB(A) 25% 50% 85.5 84.1 81.6 81.4 85.5 84.0 84.0 Efficiency (%) 75% 87.5 85.7 84.5 84.5 85.5 85.5 85.5 100% 87.5 85.5 85.5 85.5 84.0 85.5 85.5 25% 50% 0.50 0.47 0.44 0.42 0.57 0.53 0.51 Power Factor 75% 0.63 0.60 0.56 0.54 0.69 0.66 0.64 100% 0.71 0.69 0.65 0.63 0.76 0.74 0.72 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.8 13.8 13.8 13.8 13.8 13.8 13.8 P2 (0,5;1,0) 11.7 11.7 11.7 11.7 11.7 11.7 11.7 P3 (0,25;1,0) 11.4 11.4 11.4 11.4 11.4 11.4 11.4 P4 (0,9;0,5) 7.8 7.8 7.8 7.8 7.8 7.8 7.8 Losses (%) P5 (0,5;0,5) 5.7 5.7 5.7 5.7 5.7 5.7 5.7 P6 (0,5;0,25) 4.4 4.4 4.4 4.4 4.4 4.4 4.4 P7 3.4 3.4 3.4 3.4 3.4 3.4 3.4 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6309 C3 6209 C3 : 201 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 338 kgf Lubrication interval 20000 h 20000 h 9 g Lubricant amount 13 q 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 29/10/2024 1/9 Date

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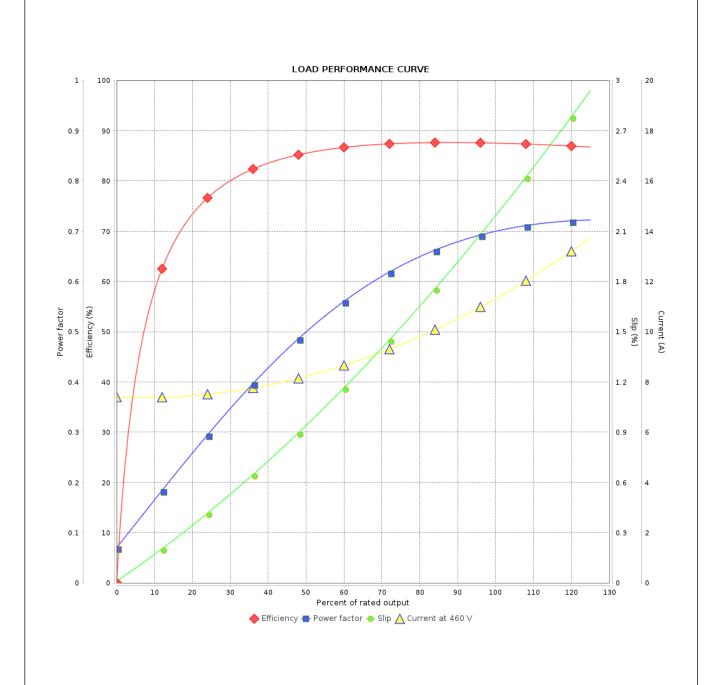
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11448468

Efficiency Three-Phase



Performance : 460 V 60 Hz 8P : 11.1 A Rated current Moment of inertia (J) : 0.1867 kgm<sup>2</sup> **LRC** : 5.3 Duty cycle : Cont.(S1) : F Rated torque : 6.19 kgfm Insulation class Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 880 rpm Design : B

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### Three Phase Induction Motor - Squirrel Cage

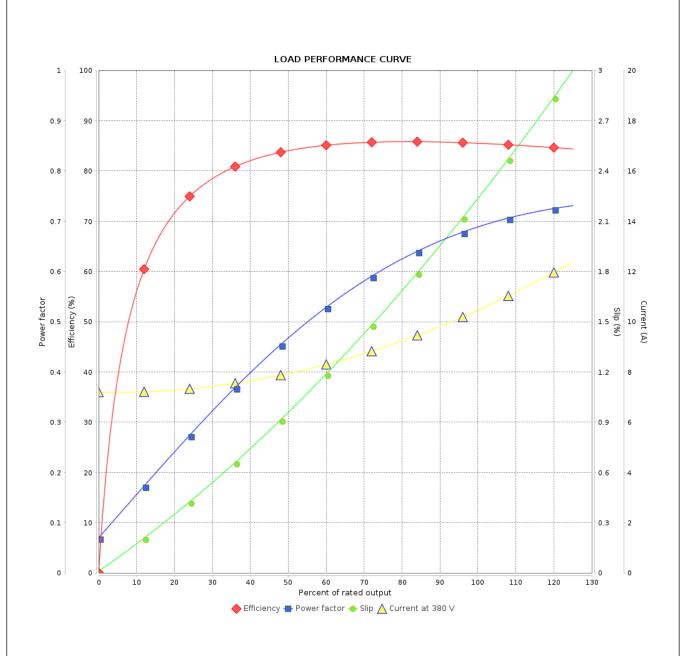


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11448468



Performance	: 38	80 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torq	: 5. : 5. que : 2	.45 kgfm 10 %	Duty cycle Insulation Service fa	class ctor	: 0.1867 kgm <sup>2</sup> : Cont.(S1) : F : 1.00	
Breakdown torqu	ıe : 26	60 %	Temperati	ıre rise	: 80 K	
Rated speed	: 73	30 rpm	Design		: B	
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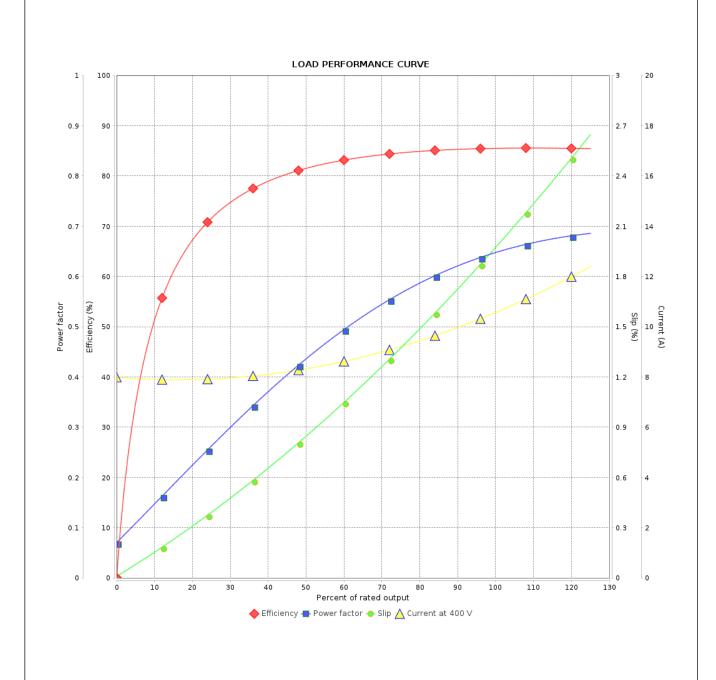


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



				·	
Performance	: 400 V 50 Hz 8P I	E3			
Rated current	: 10.5 A	Moment o	of inertia (J)	: 0.1867 kgm²	
LRC	: 5.6	Duty cycle	Duty cycle		
Rated torque	: 5.43 kgfm	Insulation	class	: F	
Locked rotor torqu	ocked rotor torque : 229 %		Service factor		
Breakdown torque : 290 %		Temperati	Temperature rise		
Rated speed	: 730 rpm	Design		: B	
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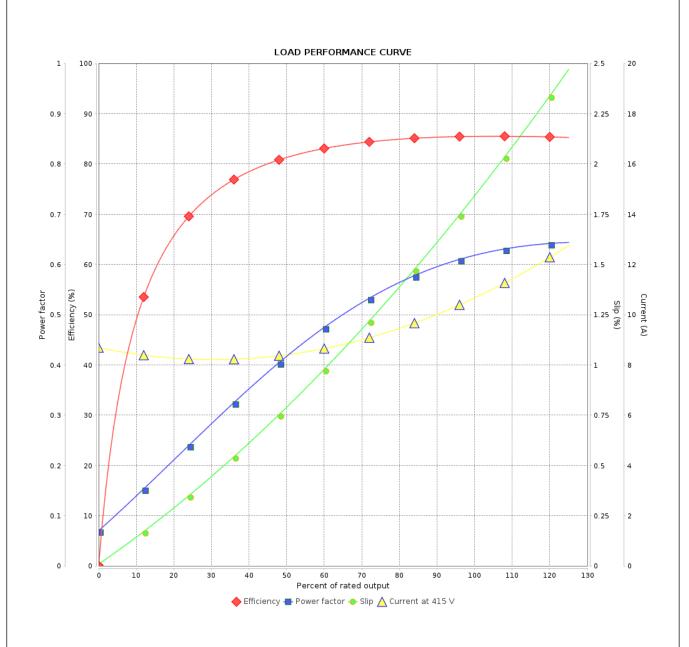


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11448468



				,	
Performance	: 415 V 50 H	z 8P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.1867 kgm <sup>2</sup> : Cont.(S1) : F : 1.15 : 80 K : B	2
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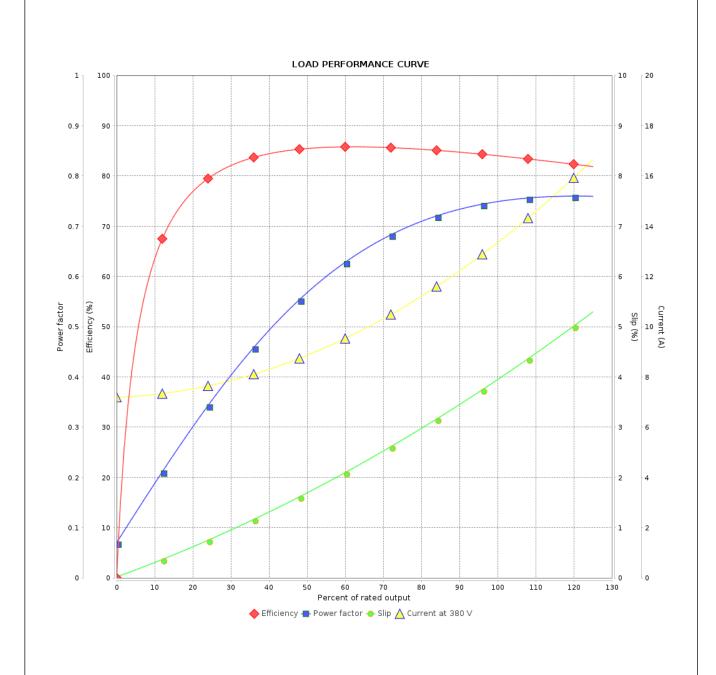


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Rated current : 13.1 A	Performance	: 380 V 50 Hz 8P IE2				
Ray Changes Summary Performed Checked Date	LRC Rated torque Locked rotor torque Breakdown torque	: 4.3 : 7.56 kgfm : 150 % : 190 %	Duty cycl Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.00 : 105 K	2
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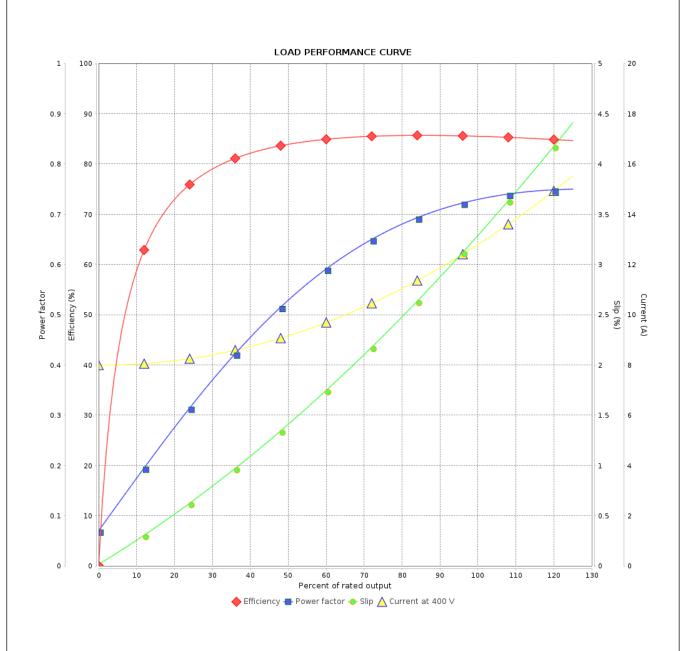


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11448468



Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 12.5 A : 4.7 : 7.51 kgfm : 170 % : 210 % : 725 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 0.1867 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	2
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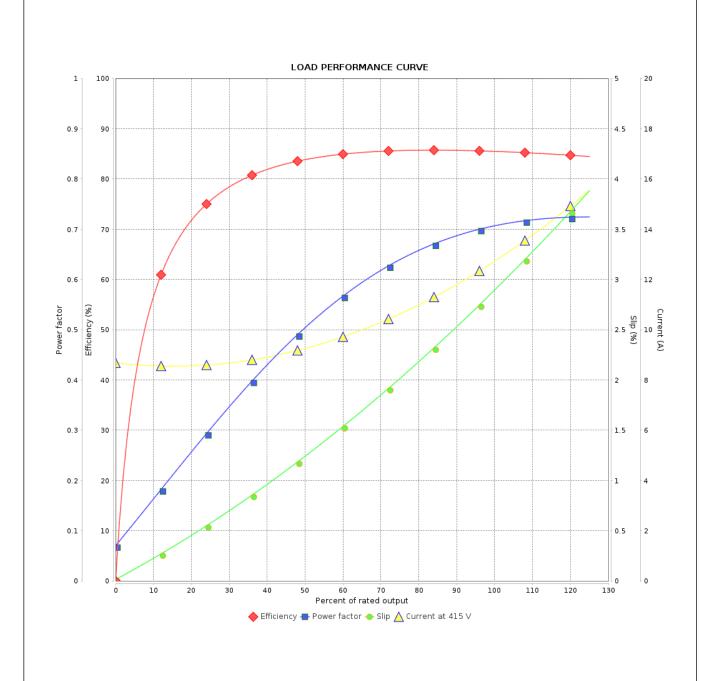
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 12.4 A : 5.0 : 7.48 kgfm : 190 % : 229 % : 730 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.1867 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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