#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12378984 Efficiency Three-Phase : 213/5T Cooling method Frame : 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. : 68.1 kg Protection degree : IP56 Moment of inertia (J) : 0.0197 kgm<sup>2</sup> Design : B Output [HP] 7.5 7.5 5 5 5 7.5 7.5 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 10.7 8.97 7.59 7.38 7.27 10.3 10.1 L. R. Amperes [A] 62.2 64.6 67.2 70.5 61.2 66.0 69.3 LRC [A] 7.2x(Code H) 8.2x(Code K) 9.1x(Code L) 9.7x(Code | 5.7x(Code F) | 6.4x(Code | 6.9x(Code H) M) G) No load current [A] 3.20 3.00 3.20 3.50 3.00 3.20 3.50 Rated speed [RPM] 3525 2940 2950 2950 2895 2905 2915 Slip [%] 2.08 2.00 1.67 1.67 3.50 3.17 2.83 Rated torque [kgfm] 1.54 1.23 1.23 1.23 1.88 1.87 1.87 Locked rotor torque [%] 210 250 270 300 160 180 200 Breakdown torque [%] 290 360 400 430 229 260 280 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 80 K 34s (cold) Locked rotor time 39s (cold) 54s (cold) 52s (cold) 46s (cold) 36s (cold) 34s (cold) 22s (hot) 20s (hot) 30s (hot) 29s (hot) 26s (hot) 19s (hot) 19s (hot) Noise level<sup>2</sup> 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% 87.5 86.7 86.4 86.1 88.5 87.5 87.5 Efficiency (%) 75% 89.5 88.2 88.3 88.5 88.5 88.5 88.5 100% 89.5 88.2 88.3 88.5 87.5 87.5 88.5 25% 50% 0.74 0.68 0.66 0.62 0.80 0.76 0.74 Power Factor 75% 0.83 0.80 0.76 0.73 0.86 0.85 0.82 100% 0.86 0.84 0.82 0.80 0.89 0.88 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.2 12.8 12.7 12.4 13.6 12.4 13.6 P2 (0,5;1,0) 9.9 8.7 9.8 9.6 10.6 10.6 9.6 P3 (0,25;1,0) 7.6 8.7 8.6 8.4 9.2 9.2 8.4 P4 (0,9;0,5) 6.0 6.9 6.8 6.7 7.3 7.3 6.7 Losses (%) P5 (0,5;0,5) 3.6 4.1 4.0 4.0 4.3 4.3 4.0 P6 (0,5;0,25) 2.4 2.8 2.7 2.7 2.9 2.9 2.7 P7 1.5 1.7 1.7 1.6 1.8 1.8 1.6 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6308 C3 6207 C3 : 62 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 130 kgf 20000 h Lubrication interval 20000 h Lubricant amount 11 q 7 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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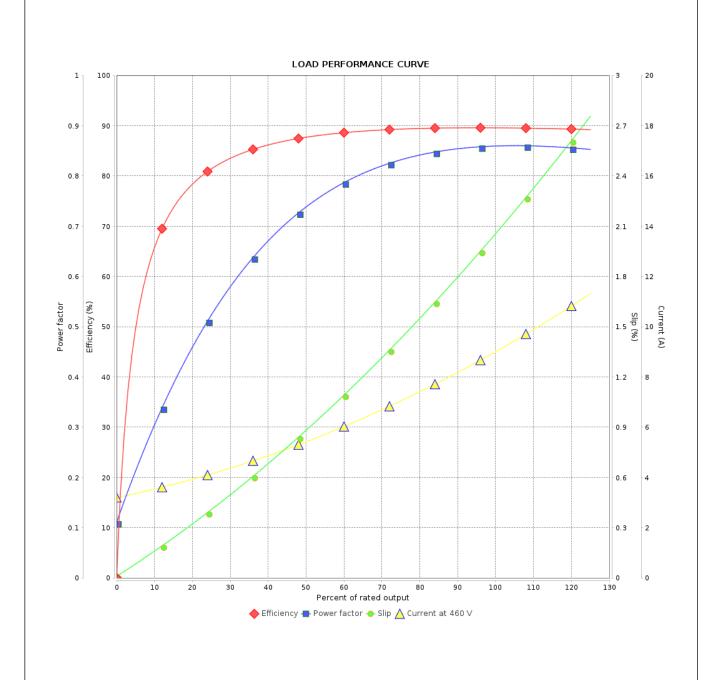
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 12378984

Efficiency Three-Phase



Performance	: 46	60 V 60 Hz 2P					
Rated current	: 8.9	97 A	Mo	Moment of inertia (J)		: 0.0197 kgm²	
LRC	: 7.:	2	Du	Duty cycle		: Cont.(S1)	
Rated torque	: 1.	1.54 kgfm Insulation class		: F			
Locked rotor torque : 210 %		0 %	Se	Service factor		: 1.25	
Breakdown torqu	ie : 29	00 %	Te	Temperature rise		: 80 K	
Rated speed	: 35	525 rpm	De	esign		: B	
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#### Three Phase Induction Motor - Squirrel Cage

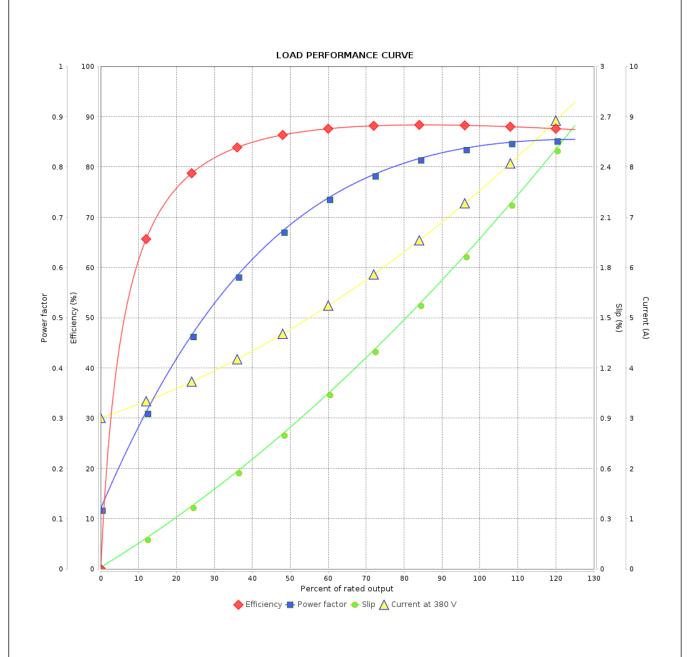


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12378984



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque	: 8.2 Duty : 1.23 kgfm Insu		class	: 0.0197 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor torque Breakdown torque Rated speed	: 250 % : 360 % : 2940 rpm	Service factor Temperature rise Design			
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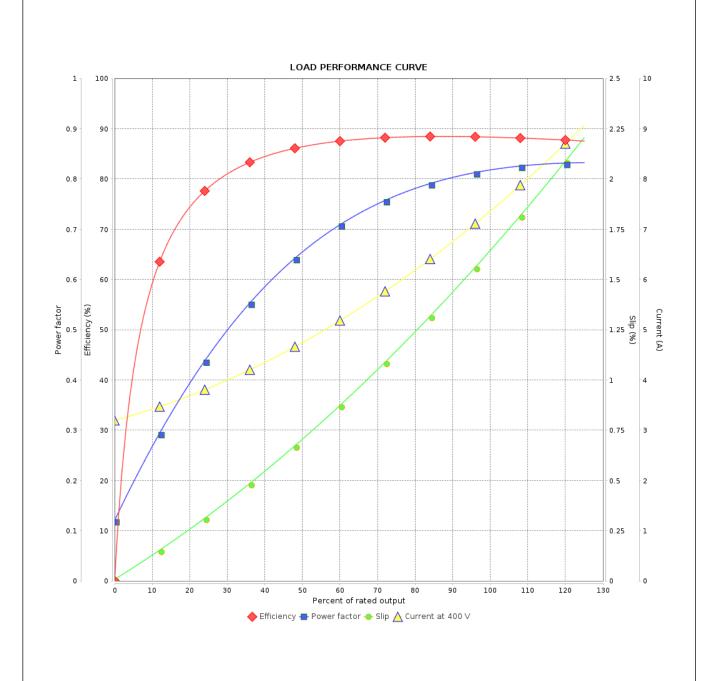
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 12378984

Efficiency Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.38 A : 9.1 : 1.23 kgfm : 270 % : 400 % : 2950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0197 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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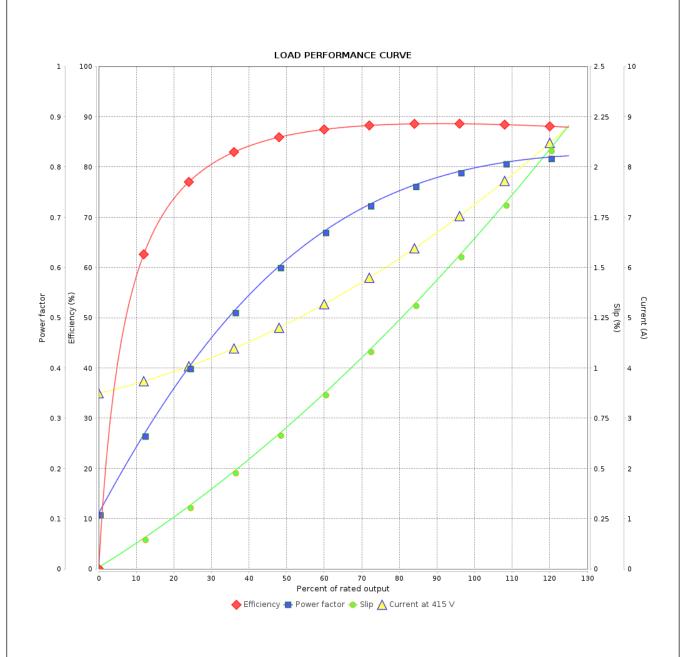


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12378984



			1 N		1 20	
Performance	: 4	15 V 50 Hz 2P IE3	3			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 9 : 1 jue : 3 ie : 4	7.27 A 9.7 1.23 kgfm 800 % 130 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		2
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#### Three Phase Induction Motor - Squirrel Cage

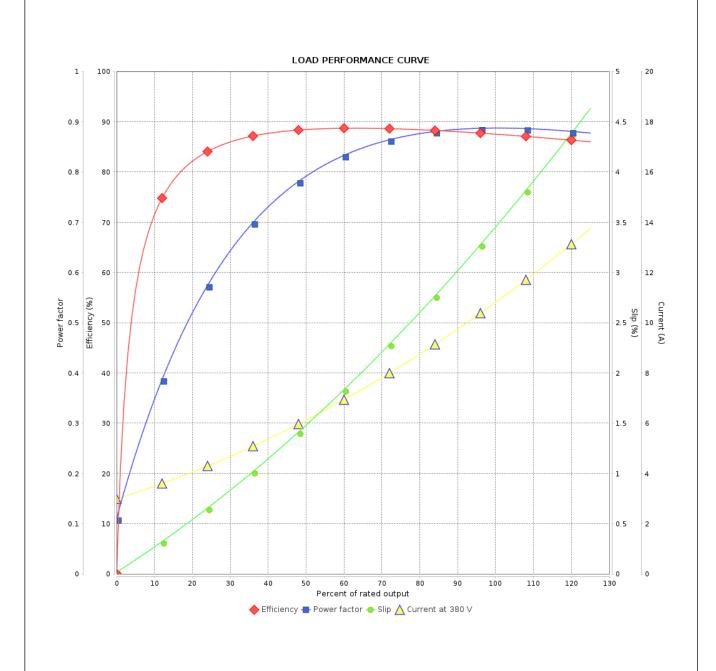


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Product line : W22 IEEE 841 NEMA Premium P

Efficiency Three-Phase

Product code: 12378984



Rated current	: 10.7 A	Moment of inertia (J)		: 0.0197 kgm²			
LRC	: 5.7	Duty cycle				: Cont.(S1)	
Rated torque	: 1.88 kgfm	Insulation class		: F			
Locked rotor torque	: 160 %	Service factor		: 1.25			
Breakdown torque	: 229 %	Temperature rise		: 105 K			
Rated speed	: 2895 rpm	Design		: B			
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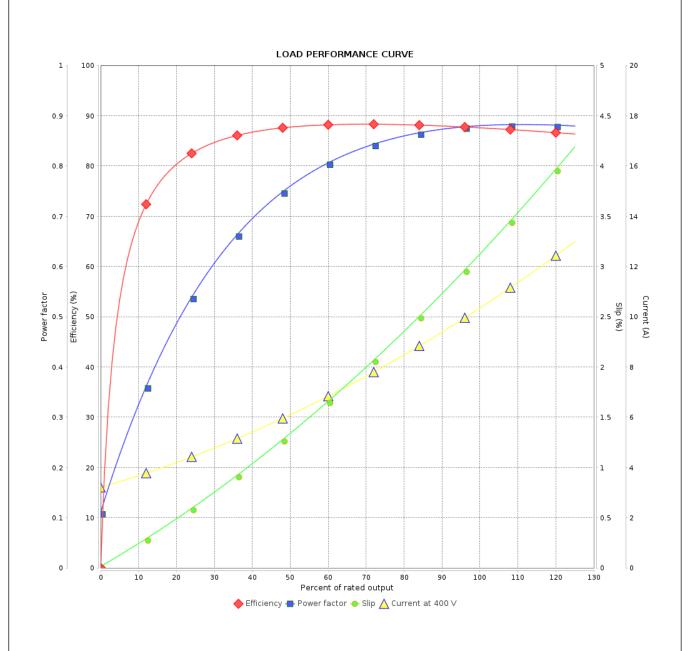


Customer

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12378984



Performance	: 4	00 V 50 Hz 2P IE2				
Rated current : 10		0.3 A	Moment o	Moment of inertia (J)		2
LRC	: 6	5.4	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 1	.87 kgfm	Insulation class		: F	
Locked rotor tord	Locked rotor torque : 18		Service fa	Service factor		
Breakdown torque		60 %	Temperati	Temperature rise		
Rated speed	: 2	905 rpm	Design		: B	
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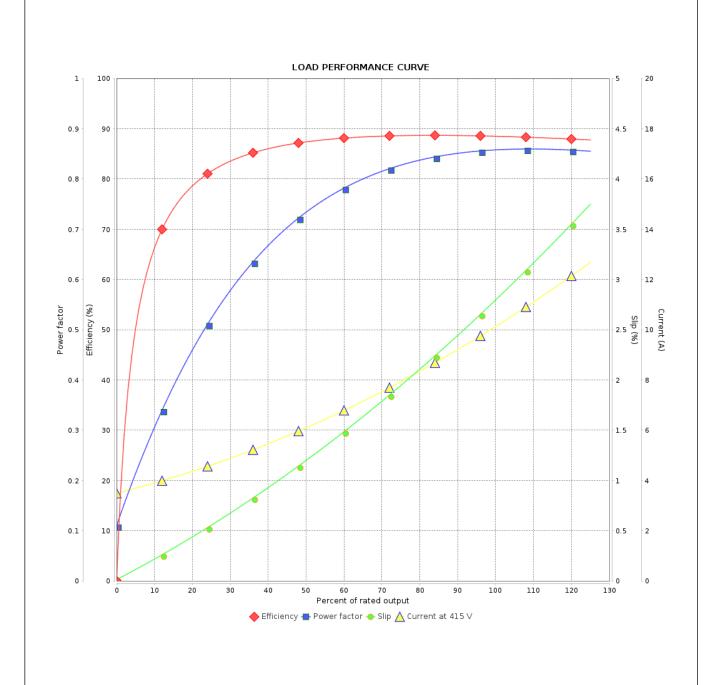
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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 10.1 A : 6.9 : 1.87 kgfm : 200 % : 280 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
Rated speed	: 2915 rpm	Design		: B	
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