#### DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11919904 Efficiency Three-Phase : 213T 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. : 71.3 kg Protection degree : IP55 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 10.7 Rated current [A] 8.97 7.59 7.38 7.27 10.3 10.1 62.2 L. R. Amperes [A] 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) 30s (hot) 29s (hot) 26s (hot) 20s (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 : 61 kgf Max. traction Taconite **Taconite** Sealing : 132 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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22/10/2024

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## DATA SHEET

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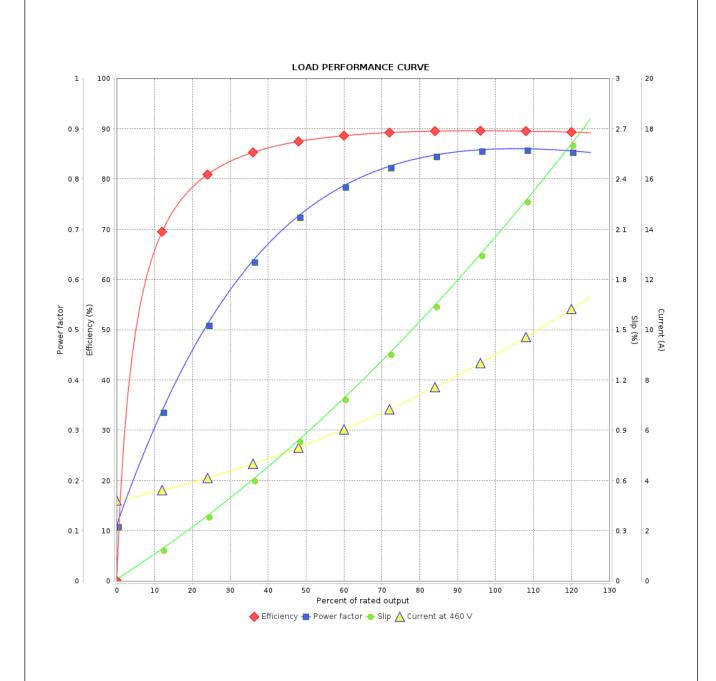


11919904

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 460 V 60 Hz 2P				
Rated current	nt : 8.97 A		Moment of inertia (J)		2
LRC	: 7.2 Duty cycle		` '	: 0.0197 kgm² : Cont.(S1)	
Rated torque	: 1.54 kgfm	Insulation class		: F ` ´	
Locked rotor torque	: 210 %	Service factor		: 1.25	
Breakdown torque	: 290 %	Temperature rise		: 80 K	
Rated speed : 3525 rpm		Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

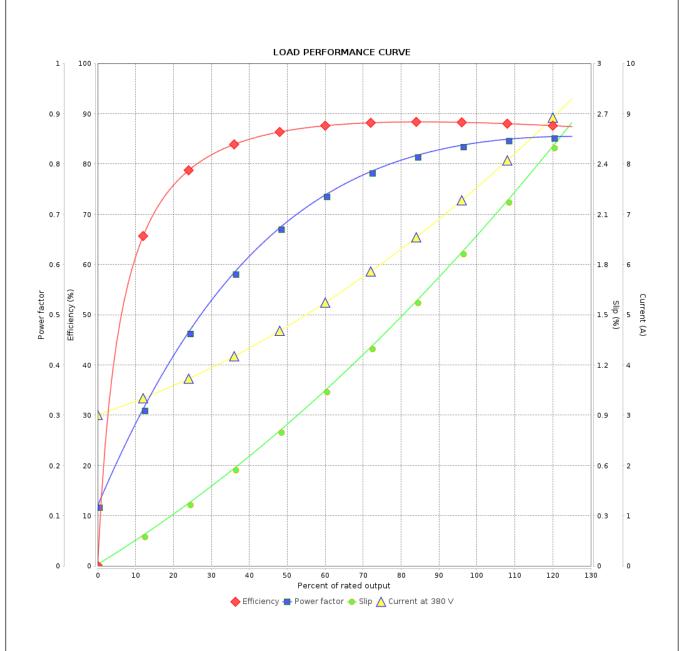
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11919904



Performance : 380 V 50 Hz 2P IE3 : 7.59 A : 0.0197 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.23 kgfm : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B Changes Summary Rev. Performed Checked Date Performed by Page Checked by Revision

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#### Three Phase Induction Motor - Squirrel Cage



Customer :

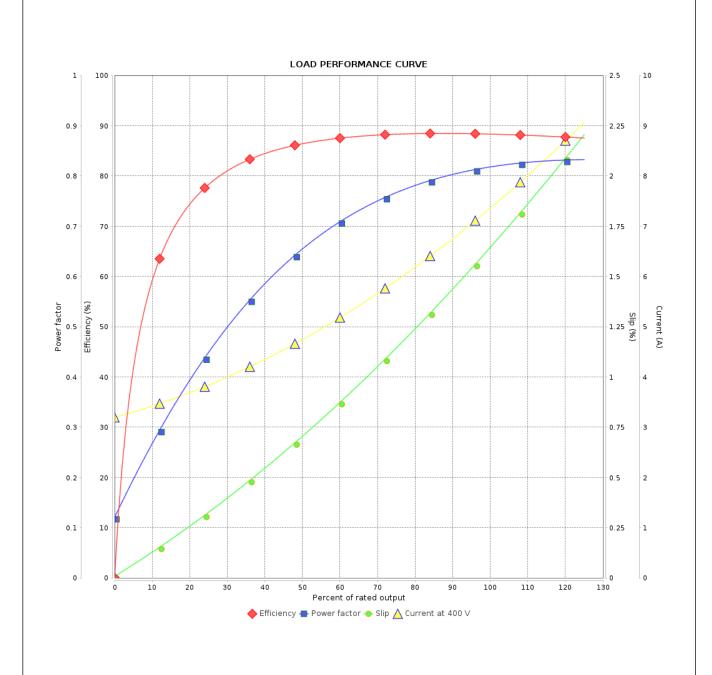
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Date

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Product line : W22 IEEE 841 NEMA Premium Product code : 11919904

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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#### Three Phase Induction Motor - Squirrel Cage

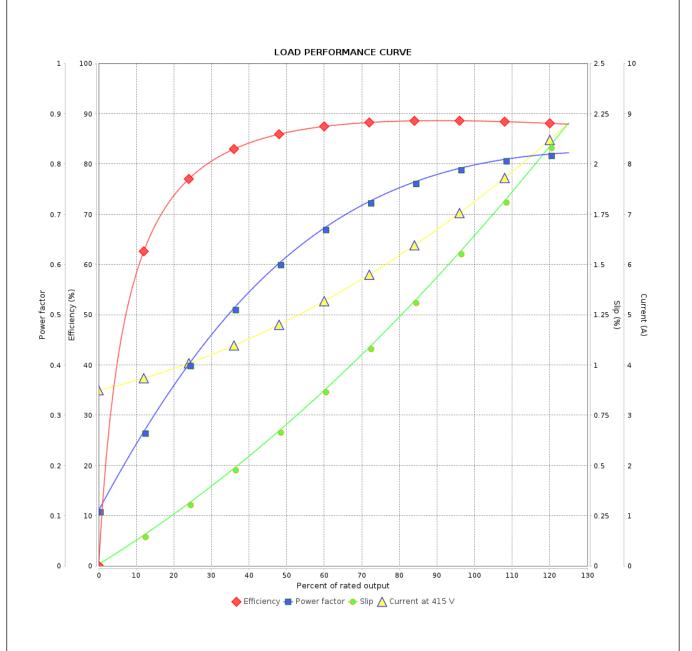


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11919904



D (	445.77.50.11. 00.150				
Performance	: 415 V 50 Hz 2P IE3	<u> </u>			
Rated current LRC Rated torque	: 7.27 A : 9.7 : 1.23 kgfm	Moment of inertia (J) Duty cycle Insulation class		: 0.0197 kgm² : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 300 % : 430 % : 2950 rpm	Service factor : 1.25 Temperature rise : 80 K Design : B			
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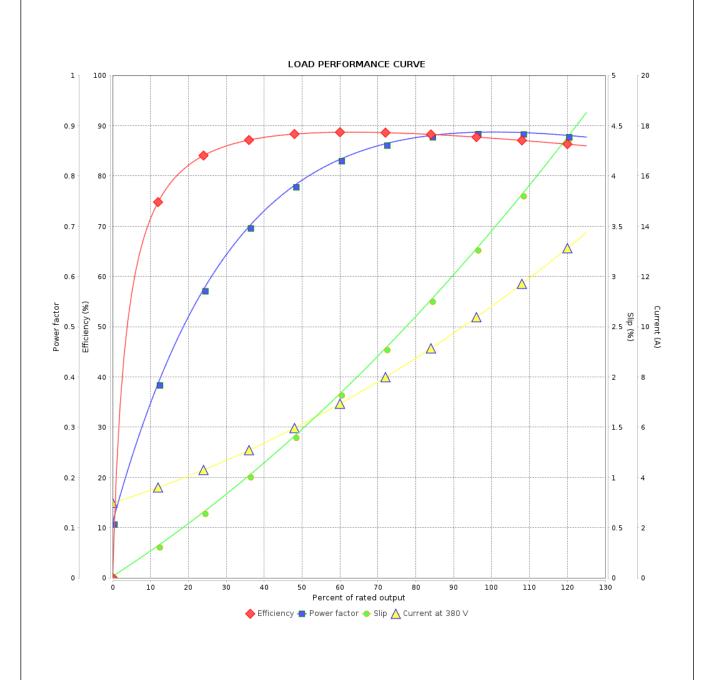
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 380 V 50 Hz 2P IE2				
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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#### Three Phase Induction Motor - Squirrel Cage



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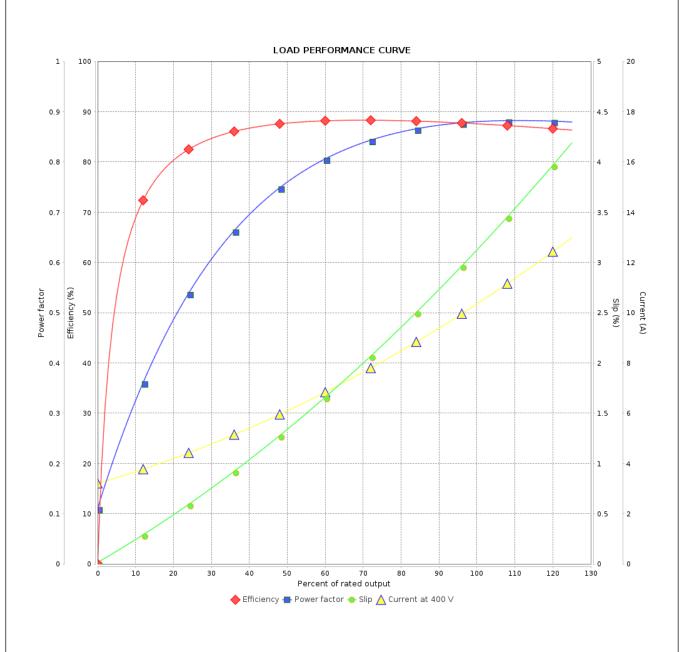
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11919904



Performance : 400 V 50 Hz 2P IE2 : 10.3 A : 0.0197 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.87 kgfm : F Locked rotor torque : 180 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 2905 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

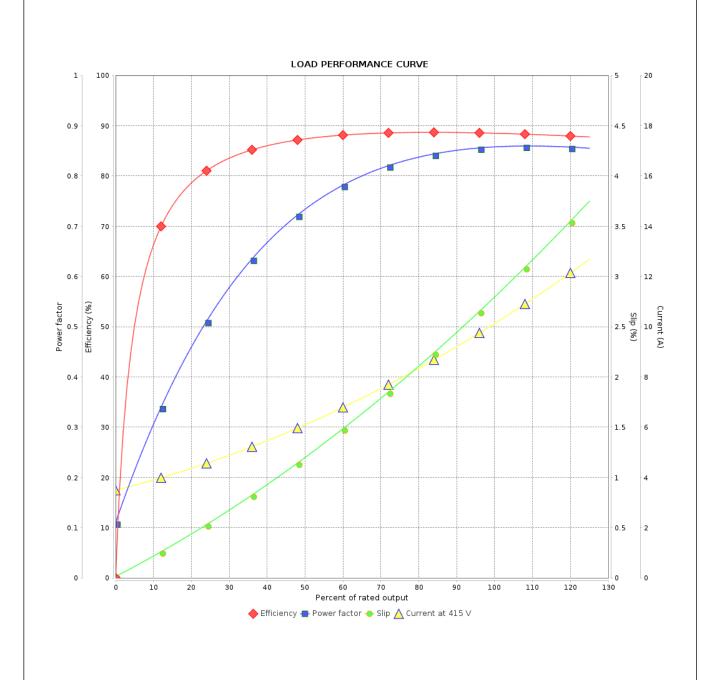


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 415 V 50 Hz 2P IE2					
Rated current			Moment of inertia (J)		2	
LRC	: 6.9	Duty cycle		: 0.0197 kgm² : Cont.(S1)		
Rated torque	: 1.87 kgfm	Insulation	Insulation class		:F	
Locked rotor torque	: 200 %	Service fa	Service factor			
Breakdown torque	: 280 %	Temperati	Temperature rise			
Rated speed : 2915 rpm		Design		: B		
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