#### DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Close Coupled Pump JM Product code: 11642183 NEMA Premium Efficiency Three-Phase Frame : 143/5JM Cooling method : IC411 - TEFC Insulation class : F Mounting : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight3 : 24.3 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0026 kgm<sup>2</sup> Design : B Output [HP] 2 1.5 1.5 2 2 1.5 Poles 2 2 2 2 2 2 2 60 50 50 50 50 50 50 Frequency [Hz] Rated voltage [V] 230/460 380 400 415 380 400 415 Rated current [A] 5.38/2.69 2.47 2.42 3.03 2.99 2.43 3.18 L. R. Amperes [A] 22.5 47.9/23.9 21.2 22.6 21.0 21.8 23.3 LRC [A] 8.9x(Code L) 8.6x(Code L) 9.3x(Code 9.3x(Code | 6.6x(Code H) | 7.2x(Code J) | 7.8x(Code K) M) M) No load current [A] 2.40/1.20 1.20 1.30 1.40 1.20 1.30 1.50 Rated speed [RPM] 3500 2915 2920 2930 2855 2880 2890 4.00 Slip [%] 2.78 2.83 2.67 2.33 4.83 3.67 0.415 0.372 Rated torque [kgfm] 0.373 0.373 0.508 0.504 0.502 Locked rotor torque [%] 270 280 310 340 200 229 250 440 250 Breakdown torque [%] 380 370 420 300 300 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 1.25 80 K 80 K 80 K 80 K 80 K Temperature rise 80 K 80 K Locked rotor time 21s (cold) 25s (cold) 25s (cold) 23s (cold) 19s (cold) 21s (cold) 18s (cold) 12s (hot) 14s (hot) 14s (hot) 13s (hot) 11s (hot) 12s (hot) 10s (hot) Noise level<sup>2</sup> 68.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 25% 50% 82.5 81.4 80.3 80.1 82.5 82.5 82.5 Efficiency (%) 75% 85.5 83.3 83.1 83.1 84.0 84.0 84.0 100% 85.5 83.5 84.0 84.0 82.5 84.0 84.0 25% 0.61 0.60 0.71 0.65 50% 0.64 0.52 0.68 Power Factor 75% 0.76 0.73 0.69 0.65 0.82 0.79 0.77 0.87 100% 0.82 0.81 0.78 0.75 0.85 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 15.7 18.3 17.6 19.6 17.6 17.6 17.6 P2 (0,5;1,0) 12.3 14.3 13.8 13.8 15.4 13.8 13.8 P3 (0,25;1,0) 11.6 13.5 13.0 13.0 14.5 13.0 13.0 P4 (0,9;0,5) Losses (%) 8.8 10.3 9.9 9.9 11.0 9.9 9.9 P5 (0,5;0,5) 5.4 6.3 6.1 6.1 6.8 6.1 6.1 P6 (0,5;0,25) 3.9 4.6 4.4 4.4 4.9 4.4 4.4 P7 2.7 3.1 3.0 3.0 3.4 3.0 3.0 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6206 ZZ 6204 ZZ Max. traction : 31 kgf : 55 kgf Sealing V'Rina V'Rina Max. compression Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM Rev. **Changes Summary** Performed Checked Date Performed by Checked by Page Revision

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# DATA SHEET



Three Pha	se Inductio	n Motor - Squirrel	Cage			
Customer	:					
Notes USABLE @208\	√ 5.60A SF 1.15 \$	SFA 6.43A				
must be eliminat (1) Looking the r (2) Measured at	ed. motor from the sh 1m and with toler weight subject to rocess.	ance of +3dB(A).		re average values upply, subject to the		
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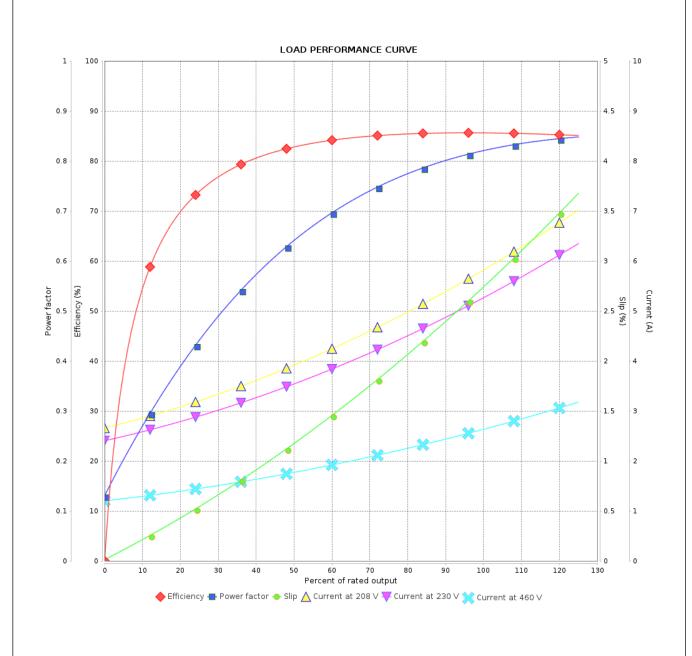
Customer :

Product line : W22 Close Coupled Pump JM

NEMA Premium Efficiency Three-

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Performance		: 230/460 V 60 Hz 2P						
Rated current		5.38/2.69 A	Moment o	Moment of inertia (J)		2		
LRC	: 8	3.9	Duty cycle	<b>;</b>	: Cont.(S1)			
Rated torque	: (	0.415 kgfm	Insulation	class	:F			
Locked rotor torque		270 %	Service fa	Service factor		: 1.25		
Breakdown torque	e :3	380 %	Temperati	Temperature rise		: 80 K		
Rated speed	: 3	3500 rpm	00 rpm Design		: B			
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### Three Phase Induction Motor - Squirrel Cage



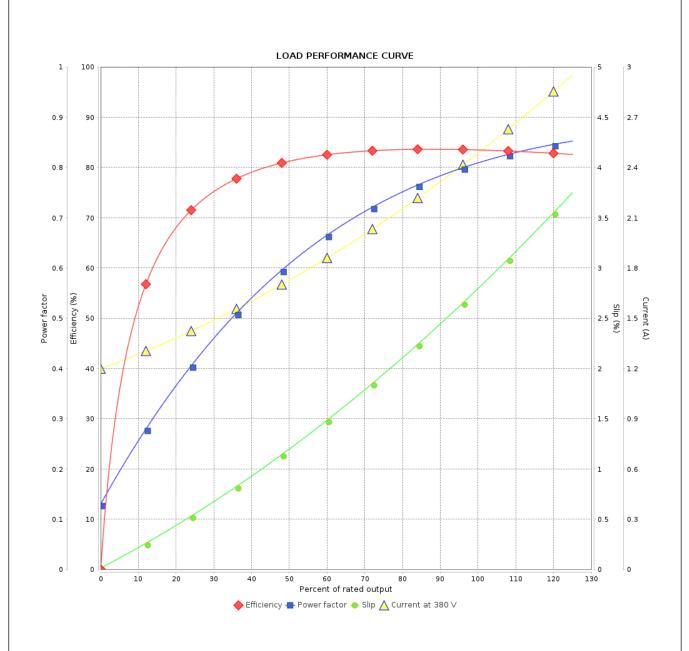
Customer :

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.47 A : 8.6 : 0.373 kgfm : 280 % : 370 % : 2915 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0026 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



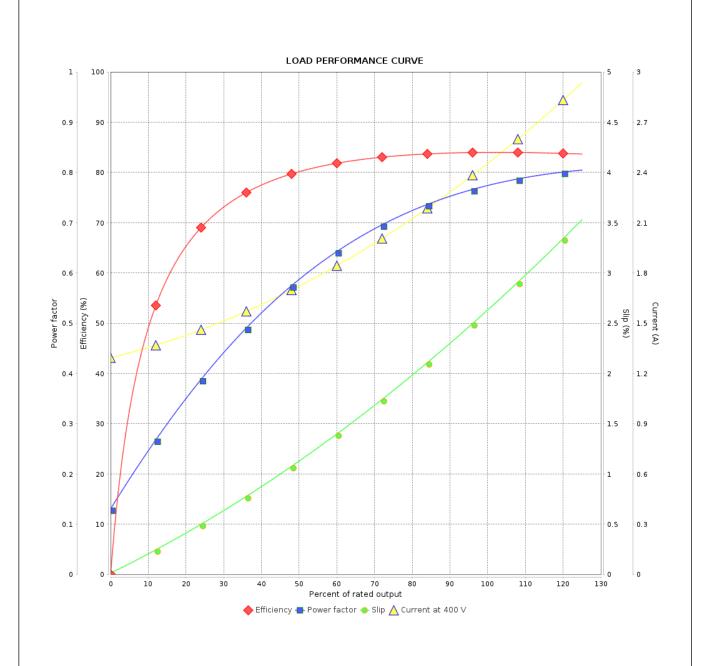
Customer :

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			,				
Performance		: 400 V 50 Hz 2P	IE3				
Rated current LRC		: 2.42 A : 9.3		Moment of inertia (J) Duty cycle		: 0.0026 kgm² : Cont.(S1)	
Rated torque Locked rotor torque		: 0.373 kgfm : 310 %	Insul	Insulation class Service factor		: F : 1.25	
Breakdown torque		: 420 %		Temperature rise		: 80 K	
Rated speed		: 2920 rpm	Desi	ıgn		: B	
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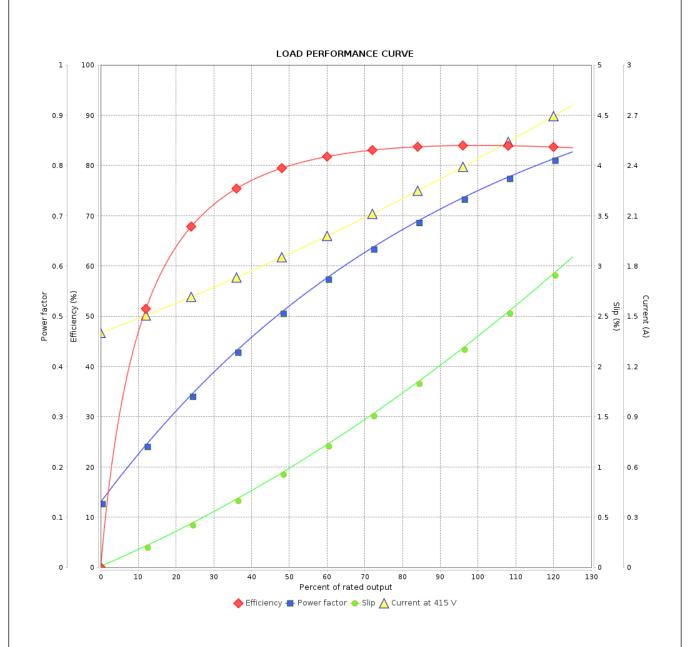
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Performance : 415 V 50 Hz 2P IE3 : 2.43 A : 0.0026 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 9.3 Duty cycle : Cont.(S1) : 0.372 kgfm Insulation class Rated torque : F Locked rotor torque : 340 % Service factor : 1.25 Breakdown torque : 440 % Temperature rise : 80 K Rated speed : 2930 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage



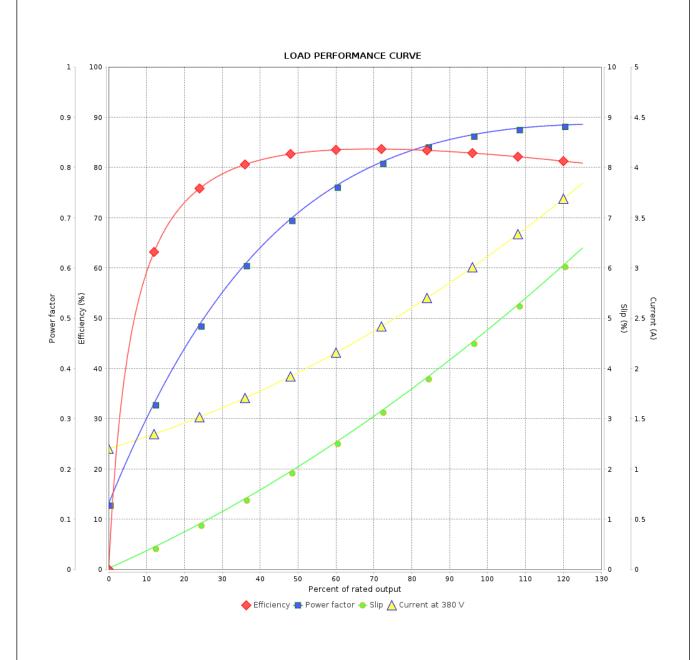
Customer :

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NEMA Premium Efficiency Three-

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: 380 V 50 Hz 2P IE2 Performance : 3.18 A Rated current Moment of inertia (J) : 0.0026 kgm<sup>2</sup> **LRC** : 6.6 Duty cycle : Cont.(S1) : 0.508 kgfm Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2855 rpm ·R Design

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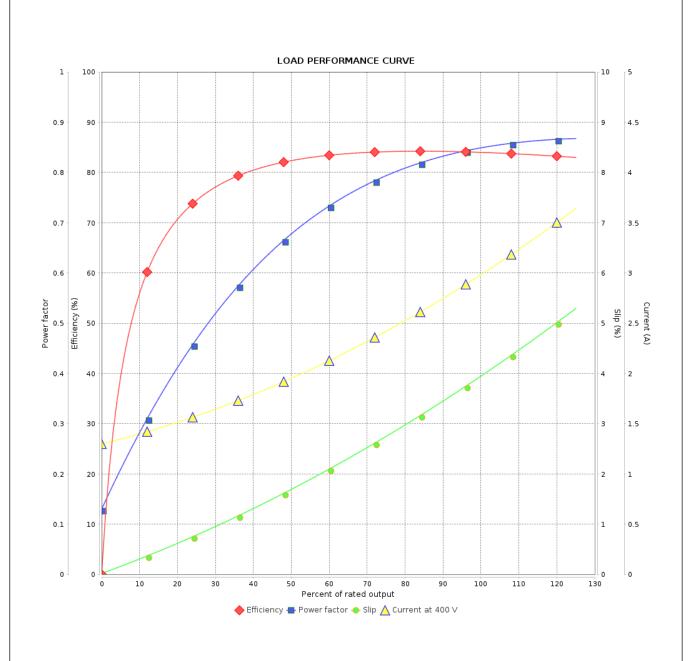
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Performance : 400 V 50 Hz 2P IE2 : 3.03 A : 0.0026 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 7.2 Duty cycle : Cont.(S1) : 0.504 kgfm Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2880 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page 8/9

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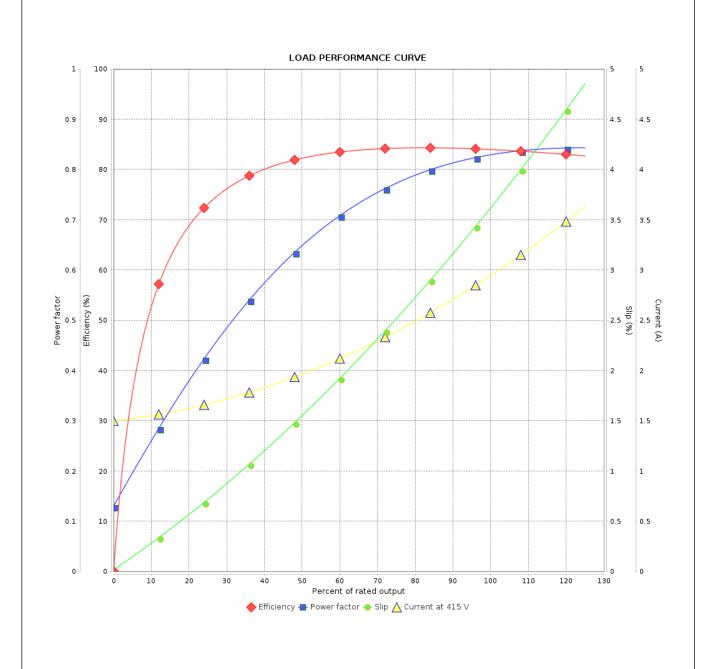
Customer :

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Performance	: 4	15 V 50 Hz 2P IE2				
Rated current : 2.		2.99 A	Moment o	f inertia (J)	: 0.0026 kgm²	
LRC : 7.8		<b>.</b> .8	Duty cycle	Duty cycle		
Rated torque : 0.		).502 kgfm	Insulation class		: Cont.(S1) : F	
•		250 %	Service factor		: 1.25	
Breakdown torque		800 %	Temperature rise		: 80 K	
Rated speed	: 2	2890 rpm	Design		: B	
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