#### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 Close Coupled Pump JM NEMA Product code: 12598733 Premium Efficiency Three-Phase : 213/5JM 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 : 77.7 kg Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> Protection degree : IP55 Moment of inertia (J) : 0.0566 kgm<sup>2</sup> Design : B Output [HP] 7.5 7.5 7.5 7.5 Poles 4 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 18.4/9.18 11.0 10.6 10.3 L. R. Amperes [A] 130/65.2 61.6 65.7 69.0 LRC [A] 7.1x(Code H) 5.6x(Code F) 6.2x(Code G) 6.7x(Code H) No load current [A] 8.40/4.20 4.10 4.40 4.70 Rated speed [RPM] 1765 1455 1460 1465 Slip [%] 1.94 3.00 2.67 2.33 Rated torque [kgfm] 3.08 3.74 3.73 3.72 Locked rotor torque [%] 220 170 190 210 Breakdown torque [%] 310 240 270 290 1.25 1.25 1.25 Service factor 1.25 80 K 80 K 80 K 80 K Temperature rise 36s (cold) 20s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) Locked rotor time Noise level<sup>2</sup> 58.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 89.2 89.2 89.3 88.6 50% 89.5 89.5 89.5 89.5 Efficiency (%) 75% 91.0 89.5 90.2 90.2 100% 91.7 89.6 90.2 90.2 25% 0.40 0.47 0.43 0.40 50% 0.72 0.66 0.69 0.66 Power Factor 75% 0.76 0.78 0.76 0.81 0.83 0.82 100% 0.82 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power 8.8 8.8 P1 (0,9;1,0) 8.8 8.8 P2 (0,5;1,0) 7.0 7.0 7.0 7.0 P3 (0,25;1,0) 6.5 6.5 6.5 6.5 P4 (0,9;0,5) Losses (%) 4.9 4.9 4.9 4.9 3.3 P5 (0,5;0,5) 3.3 3.3 3.3 P6 (0,5;0,25) 2.4 2.4 2.4 2.4 P7 (0,25;0,25) 1.6 1.6 1.6 1.6 Foundation loads Drive end Non drive end 6309 Z C3 Bearing type 6207 ZZ : 160 kgf Max. traction Sealing V'Ring V'Ring : 238 kgf Max. compression 40000 h Lubrication interval 20000 h Lubricant amount 13 g 0 g Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after

manufacturing p	rocess.				
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# DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			<u> </u>
Customer	:			
Notes USABLE @208\	/ 19.9A SF 1.15 SFA 22.9A			
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#### Three Phase Induction Motor - Squirrel Cage

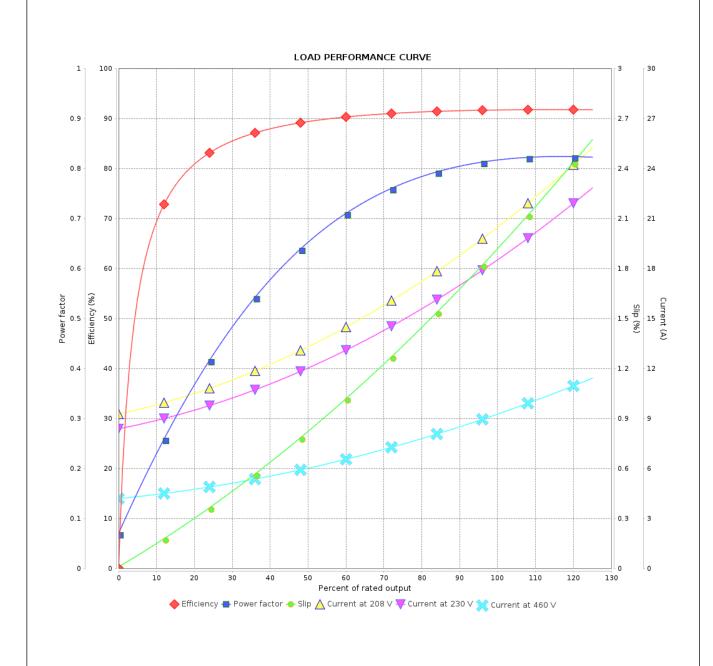


Customer :

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12598733



Performance : 23		230/460 V 60 Hz 4P					
Rated current : 1		8.4/9.18 A Moment of inertia (J)		: 0.0566 kgm²			
LRC : 7.		'.1	Duty cycle		: Cont.(S1)		
Rated torque	: 3	3.08 kgfm	Insulation class		: F		
Locked rotor torque : 2:		20 %	Service fa	Service factor		: 1.25	
Breakdown torque		310 %	Temperati	Temperature rise		: 80 K	
Rated speed		765 rpm	Design	Design			
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#### Three Phase Induction Motor - Squirrel Cage

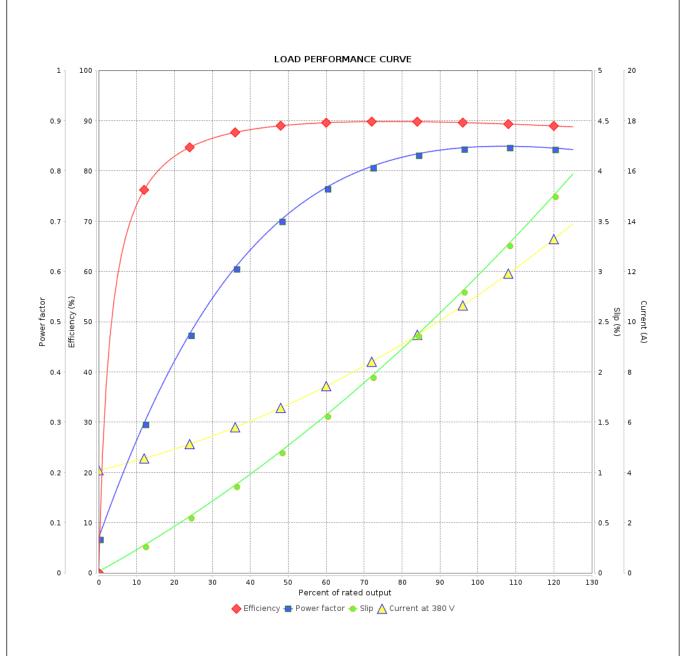


Customer :

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12598733



Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.0 A : 5.6 : 3.74 kgfm : 170 % : 240 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0566 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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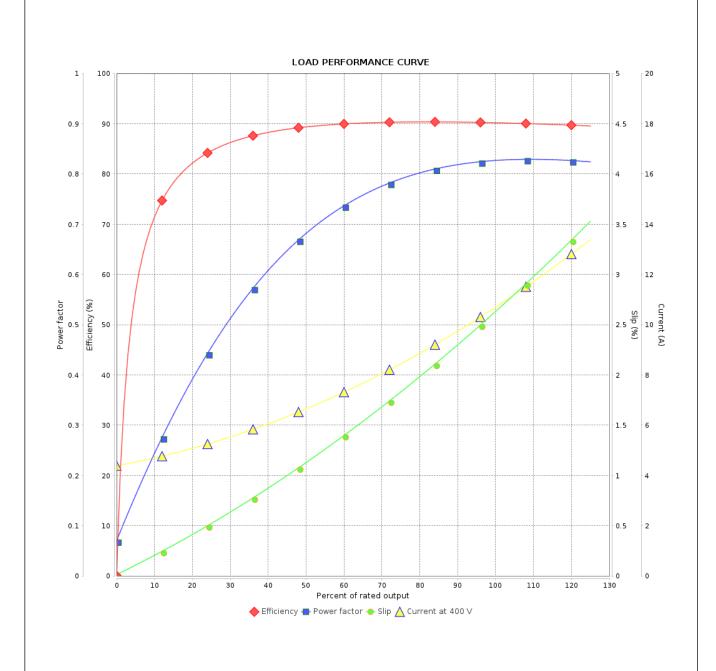
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Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12598733



Performance : 400 V 50 Hz 4P IE3 : 10.6 A Rated current Moment of inertia (J) : 0.0566 kgm<sup>2</sup> **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.73 kgfm Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Date Rev. Performed Checked **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

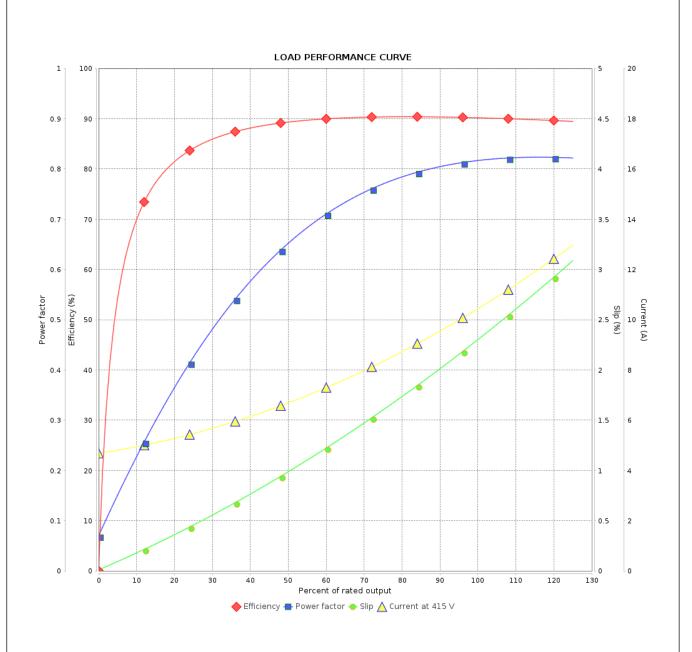


Customer :

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12598733



Performance		: 415 V 50 Hz 4P IE3					
Rated current :		0.3 A	Moment o	Moment of inertia (J)		2	
LRC : 6.		.7	Duty cycle	Duty cycle			
Rated torque : 3		.72 kgfm	Insulation	Insulation class			
•		10 %	Service fa	Service factor			
Breakdown torque		90 %	Temperat	Temperature rise			
Rated speed	: 1	465 rpm	Design	Design			
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