### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Close Coupled Pump JM Product code: 12941830 NEMA Premium Efficiency Three-Phase Frame : 254/6JM Cooling method : IC411 - TEFC Insulation class Mounting : 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 : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 139 kg Altitude : IP55 Moment of inertia (J) Protection degree : 0.1867 kgm<sup>2</sup> Design : B Output [HP] 10 10 10 10 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 26.6/13.3 15.4 14.8 14.4 L. R. Amperes [A] 173/86.5 84.4 87.8 78.5 LRC [A] 6.5x(Code H) 5.1x(Code F) 5.7x(Code G) 6.1x(Code H) No load current [A] 12.0/6.00 6.40 6.80 7.20 Rated speed [RPM] 1175 965 970 975 Slip [%] 2.08 3.50 3.00 2.50 Rated torque [kgfm] 6.17 7.50 7.48 7.44 Locked rotor torque [%] 229 170 200 220 Breakdown torque [%] 280 220 240 260 Service factor 1.25 1.00 1.15 1.15 Temperature rise 80 K 105 K 105 K 80 K Locked rotor time 46s (cold) 26s (hot) 39s (cold) 22s (hot) 39s (cold) 22s (hot) 39s (cold) 22s (hot) Noise level<sup>2</sup> 59.0 dB(A) 57.0 dB(A) 57.0 dB(A) 57.0 dB(A) 25% 50% 90.2 90.2 90.2 89.5 Efficiency (%) 75% 91.0 89.5 90.2 90.2 100% 89.1 89.5 89.5 91.0 25% 50% 0.63 0.66 0.63 0.60 Power Factor 75% 0.74 0.79 0.77 0.75 0.78 0.82 100% 0.83 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power 9.8 P1 (0,9;1,0) 9.8 9.8 9.8 P2 (0,5;1,0) 8.4 8.4 8.4 8.4 P3 (0,25;1,0) 7.8 7.8 7.8 7.8 P4 (0,9;0,5) 5.0 5.0 5.0 5.0 Losses (%) P5 (0,5;0,5) 3.6 3.6 3.6 3.6 2.5 2.5 2.5 2.5 P6 (0,5;0,25) P7 (0,25;0,25) 1.8 1.8 1.8 1.8 Drive end Non drive end Foundation loads Bearing type 6309 C3 6209 C3 Max. traction : 235 kgf V'Ring V'Rina Sealing Max. compression : 374 kaf 20000 h Lubrication interval 20000 h Lubricant amount 13 g 9 g Lubricant type Mobil Polyrex EM These are average values based on tests with sinusoidal This revision replaces and cancel the previous one, which 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). **Changes Summary** Performed Checked Rev. Date Performed by Checked by Page Revision

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Three Phase Induction Motor - Squirrel Cage	<u> </u>
Customer :	
Notes	
USABLE @208V 28.5A SF 1.15 SFA 32.8A	

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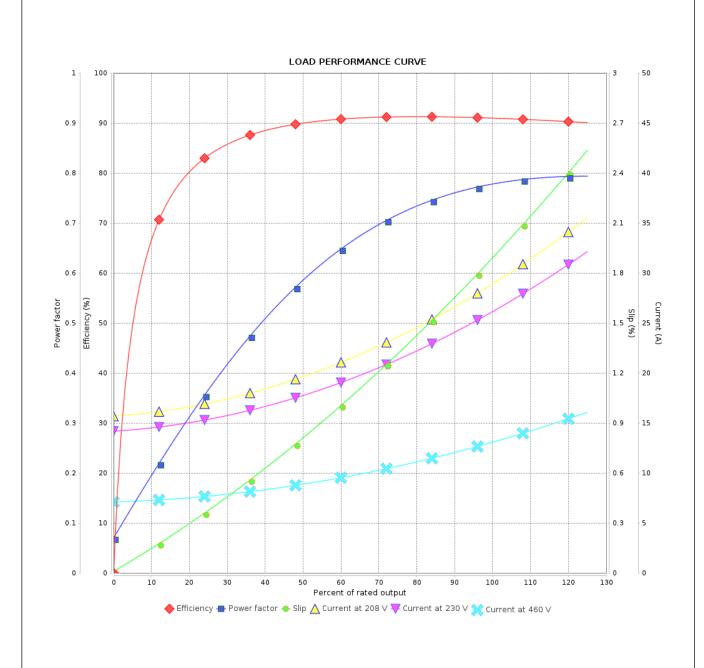
23/10/2024

Product line : W22 Close Coupled Pump JM

NEMA Premium Efficiency Three-

Phase

Product code: 12941830



Performance : 230/460 V 60 Hz 6P Rated current : 26.6/13.3 A Moment of inertia (J) : 0.1867 kgm<sup>2</sup> **LRC** Duty cycle : 6.5 : Cont.(S1) Insulation class : F Rated torque : 6.17 kgfm Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B Date Rev. Performed Checked **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage



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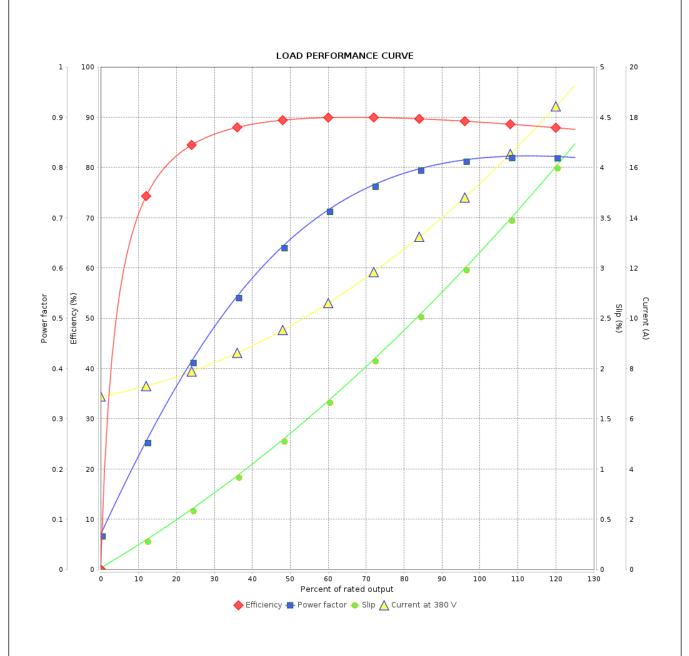
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Product line : W22 Close Coupled Pump JM

NEMA Premium Efficiency Three-

Phase

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D (	000 \ / 50 \				
Performance	: 380 V 50 I	HZ 6P IE3			
Rated current	: 15.4 A		f inertia (J)	: 0.1867 kgm² : Cont.(S1)	2
LRC	: 5.1	Duty cycle	Duty cycle		
Rated torque	: 7.50 kgfm	Insulation	Insulation class		
Locked rotor torque : 170 %		Service fa	Service factor		
Breakdown torqu	e : 220 %	Temperatu	ıre rise	: 105 K	
Rated speed	: 965 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



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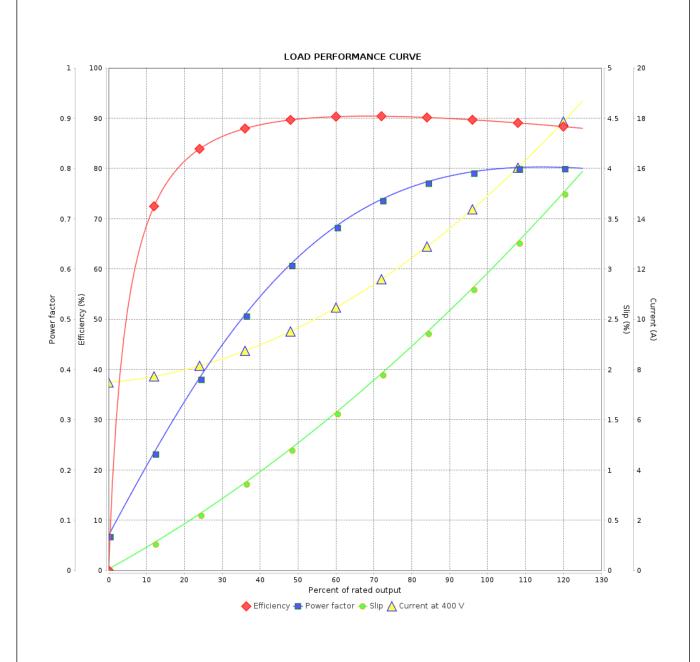
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Product line : W22 Close Coupled Pump JM

NEMA Premium Efficiency Three-

Phase

Product code: 12941830



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.8 A : 5.7 : 7.48 kgfm : 200 % : 240 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1867 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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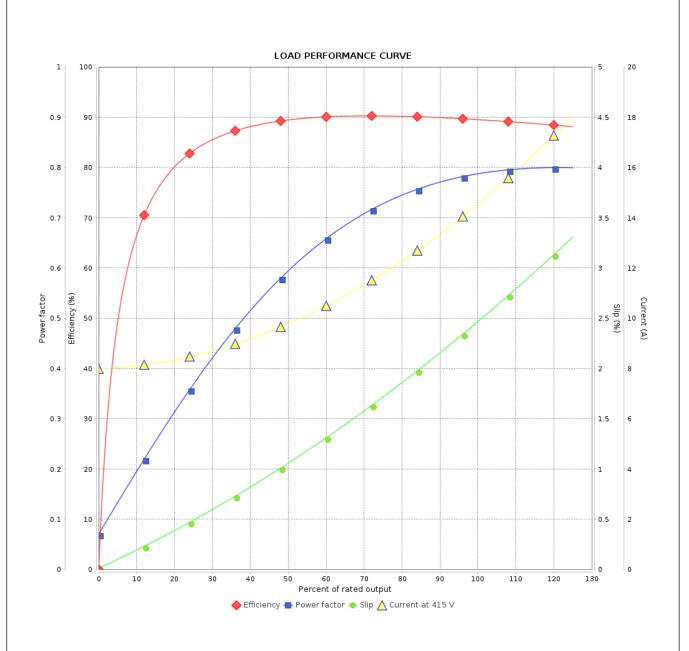
Customer :

Product line : W22 Close Coupled Pump JM

NEMA Premium Efficiency Three-

Phase

Product code: 12941830



Performance	: 415 V 50 Hz 6P IE3	<u>,</u>			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.4 A : 6.1 : 7.44 kgfm : 220 % : 260 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1867 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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