DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 Close Coupled Pump JM NEMA Product code: 12598383 Premium Efficiency Three-Phase : 143/5JM Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ : 22.1 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0049 kgm² Design : B Output [HP] 1 1 1 1 Poles 4 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 2.94/1.47 1.71 1.65 1.63 L. R. Amperes [A] 25.3/12.6 10.9 11.5 12.1 LRC [A] 8.6x(Code M) 6.4x(Code J) 7.0x(Code K) 7.4x(Code K) No load current [A] 1.88/0.940 0.930 1.00 1.08 Rated speed [RPM] 1760 1450 1455 1455 Slip [%] 2.22 3.33 3.00 3.00 Rated torque [kgfm] 0.412 0.501 0.499 0.499 Locked rotor torque [%] 290 220 240 260 Breakdown torque [%] 350 250 290 310 1.25 1.25 1.25 1.25 Service factor 80 K 80 K 80 K 80 K Temperature rise Locked rotor time 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) Noise level² 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 78.4 79.6 78.4 78.4 50% 80.0 80.0 80.0 80.0 Efficiency (%) 75% 84.0 82.5 82.5 82.5 100% 85.5 82.5 84.0 84.0 25% 0.36 0.33 0.31 0.31 50% 0.55 0.58 0.55 0.62 Power Factor 75% 0.68 0.74 0.71 0.69 0.75 0.78 0.76 100% 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power 15.9 15.9 P1 (0,9;1,0) 15.9 15.9 P2 (0,5;1,0) 12.8 12.8 12.8 12.8 P3 (0,25;1,0) 12.5 12.5 12.5 12.5 P4 (0,9;0,5) 10.1 Losses (%) 10.1 10.1 10.1 P5 (0,5;0,5) 7.0 7.0 7.0 7.0 P6 (0,5;0,25) 5.8 5.8 5.8 5.8 P7 (0,25;0,25) 4.3 4.3 4.3 4.3 Foundation loads Drive end Non drive end Bearing type 6206 ZZ 6204 ZZ : 33 kaf Max. traction Sealing V'Ring V'Ring : 55 kgf Max. compression Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM 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.				
Rev.		Changes Summary	Performed	Checked	Date
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Three Pha	se Induction Motor - Squirrel Cage			шец
Customer	:			
Notes	/ 3.07A SF 1.15 SFA 3.54A			
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Three Phase Induction Motor - Squirrel Cage

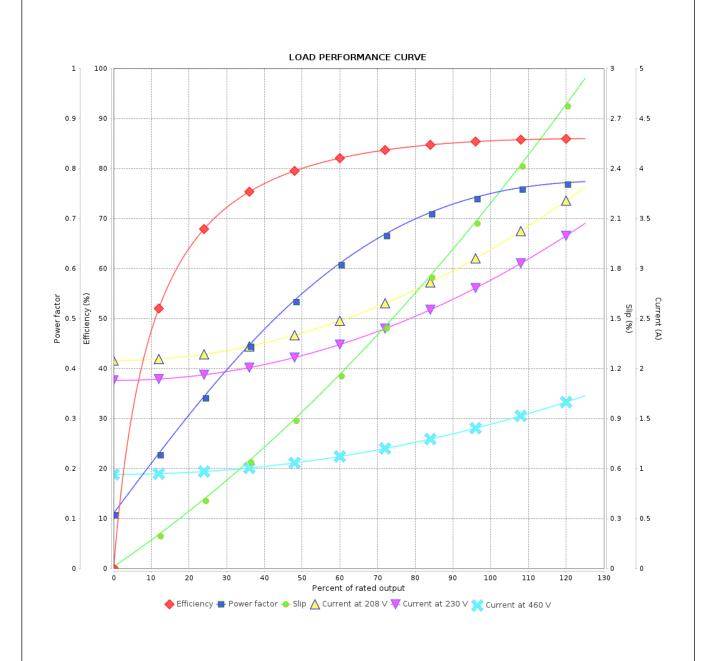


Customer

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12598383



Performance	: 2	230/460 V 60 Hz 4P					
Rated current		94/1.47 A Moment of inertia (J)		: 0.0049 kgm²			
LRC :		3.6	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque).412 kgfm	Insulation	Insulation class			
Locked rotor torque		290 %	Service fa	Service factor		: 1.25	
Breakdown torque	: 3	350 %	Temperatu	Temperature rise			
Rated speed	: 1	760 rpm Design		: B			
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Three Phase Induction Motor - Squirrel Cage



Customer :

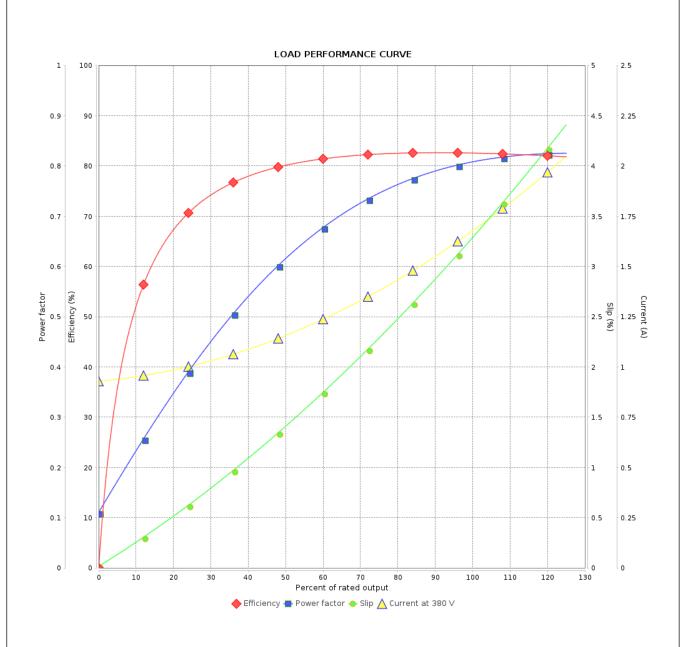
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Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12598383



Performance : 380 V 50 Hz 4P IE3 : 1.71 A : 0.0049 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.4 : 0.501 kgfm Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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Three Phase Induction Motor - Squirrel Cage

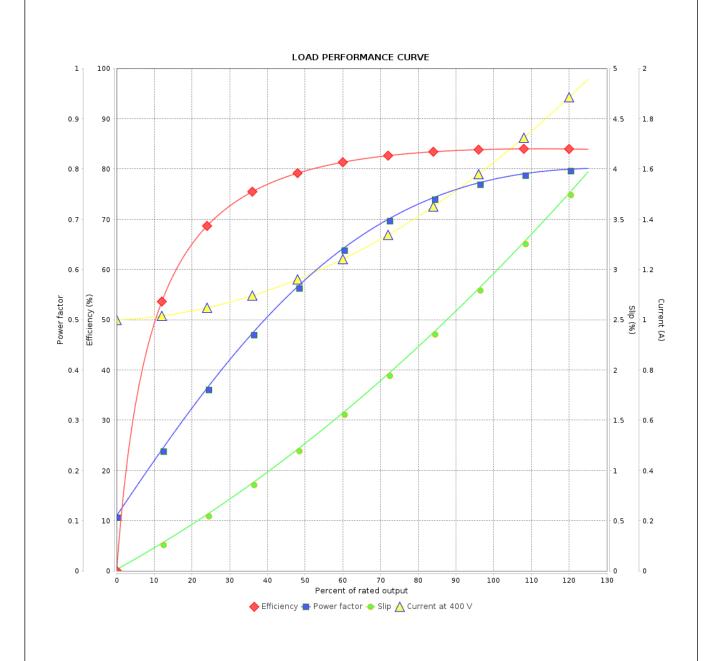


Customer :

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12598383



Performance : 400 V 50 Hz 4P IE3 : 1.65 A Rated current Moment of inertia (J) : 0.0049 kgm² **LRC** : 7.0 Duty cycle : Cont.(S1) : 0.499 kgfm Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page 5/6 Date 13/01/2024

Three Phase Induction Motor - Squirrel Cage



Customer

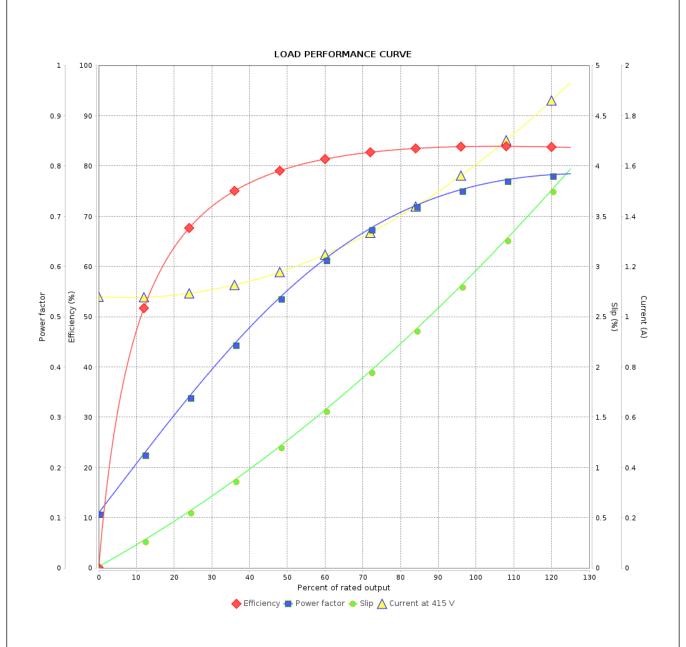
Date

13/01/2024

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12598383



Performance : 415 V 50 Hz 4P IE3 : 1.63 A : 0.0049 kgm² Rated current Moment of inertia (J) **LRC** : 7.4 Duty cycle : Cont.(S1) : 0.499 kgfm Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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