DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Close Coupled Pump JM Product code: 12775267 NEMA Premium Efficiency Three-Phase Frame : 182/4JM Cooling method : IC411 - TEFC Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 42.5 kg Altitude : IP55 Moment of inertia (J) Protection degree : 0.0206 kgm² Design : B Output [HP] 1.5 1.5 1.5 1.5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 5.08/2.54 2.64 2.68 2.62 L. R. Amperes [A] 39.6/19.8 16.9 18.1 19.5 LRC [A] 6.3x(Code J) 6.9x(Code K) 7.4x(Code L) 7.8x(Code M) No load current [A] 3.25/1.63 1.60 1.71 1.80 Rated speed [RPM] 1170 955 960 965 Slip [%] 2.50 4.50 4.00 3.50 Rated torque [kgfm] 0.930 1.14 1.13 1.13 Locked rotor torque [%] 320 250 300 330 Breakdown torque [%] 400 290 330 370 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 28s (cold) 16s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) 49.0 dB(A) Noise level² 52.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 84.0 85.5 84.5 84.0 Efficiency (%) 75% 86.5 86.5 86.5 85.5 87.5 85.5 86.5 100% 86.5 25% 50% 0.45 0.52 0.48 0.45 Power Factor 75% 0.54 0.63 0.60 0.57 0.70 0.67 100% 0.62 0.73 Losses at normative operating points (speed;torque), in percentage of rated output power 13.4 P1 (0,9;1,0) 13.4 13.4 13.4 P2 (0,5;1,0) 10.3 10.3 10.3 10.3 P3 (0,25;1,0) 9.3 9.3 9.3 9.3 P4 (0,9;0,5) 8.8 8.8 8.8 8.8 Losses (%) P5 (0,5;0,5) 5.8 5.8 5.8 5.8 P6 (0,5;0,25) 4.8 4.8 4.8 4.8 P7 (0,25;0,25) 3.5 3.5 3.5 3.5 Drive end Non drive end Foundation loads 6206 ZZ Bearing type 6307 ZZ Max. traction : 66 kgf V'Ring V'Rina Sealing Max. compression : 108 kgf 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). **Changes Summary** Performed Checked Rev. Date Performed by Checked by Page Revision

1/6

23/10/2024

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Date	23/10/2024			2/6	

Three Phase Induction Motor - Squirrel Cage



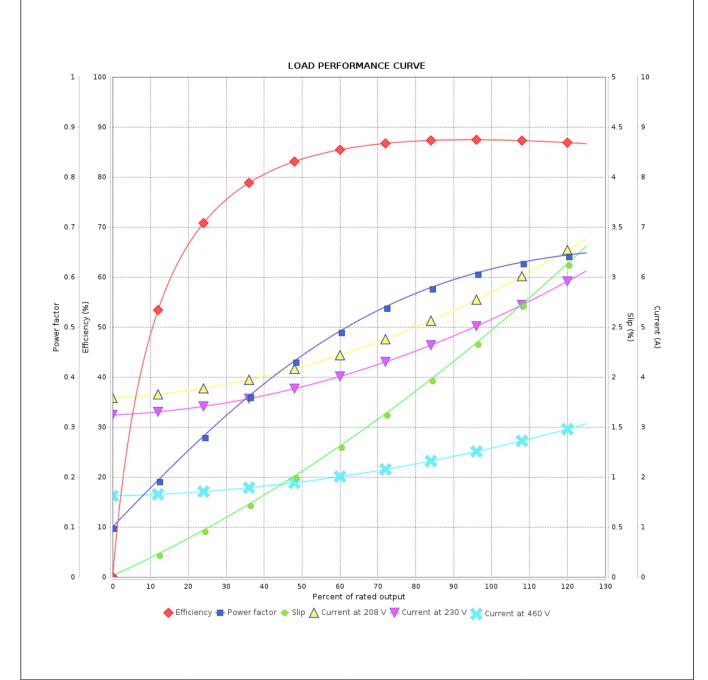
Customer :

Product line : W22 Close Coupled Pump JM

NEMA Premium Efficiency Three-

Phase

Product code: 12775267



Performance		230/460 V 60 Hz 6P	·			
Rated current		5.08/2.54 A	Moment of	Moment of inertia (J)		2
		7.8	Duty cycle	Duty cycle Insulation class		
		0.930 kgfm	Insulation			
Locked rotor torque		320 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie :	400 %	Temperat	Temperature rise		
Rated speed	:	1170 rpm	Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	23/10/2024				3/6	

Three Phase Induction Motor - Squirrel Cage



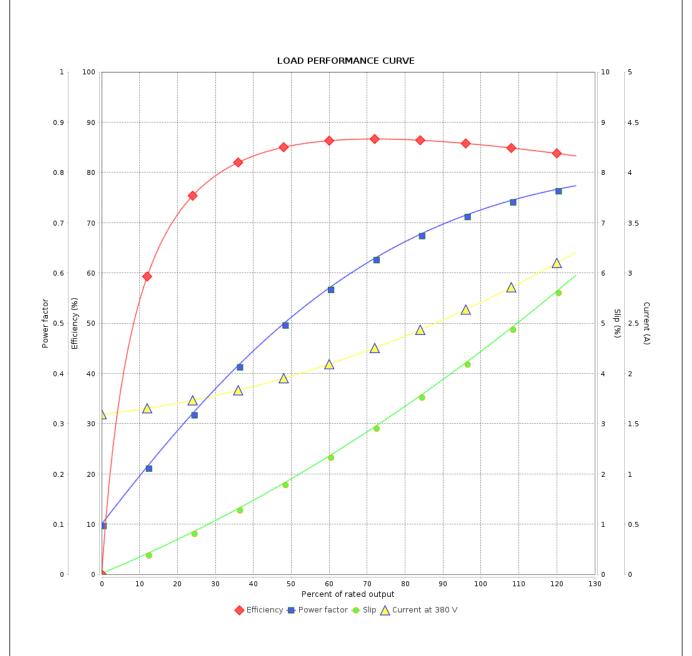
Customer :

Product line : W22 Close Coupled Pump JM

NEMA Premium Efficiency Three-

Phase

Product code: 12775267



Performance		: 380 V 50 Hz 6P IE	4				
Rated current LRC		: 2.68 A : 6.3		Moment of inertia (J) Duty cycle		: 0.0206 kgm² : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque Rated speed		: 1.14 kgfm : 250 % : 290 % : 955 rpm	Service fa	Insulation class Service factor Temperature rise Design			
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Three Phase Induction Motor - Squirrel Cage



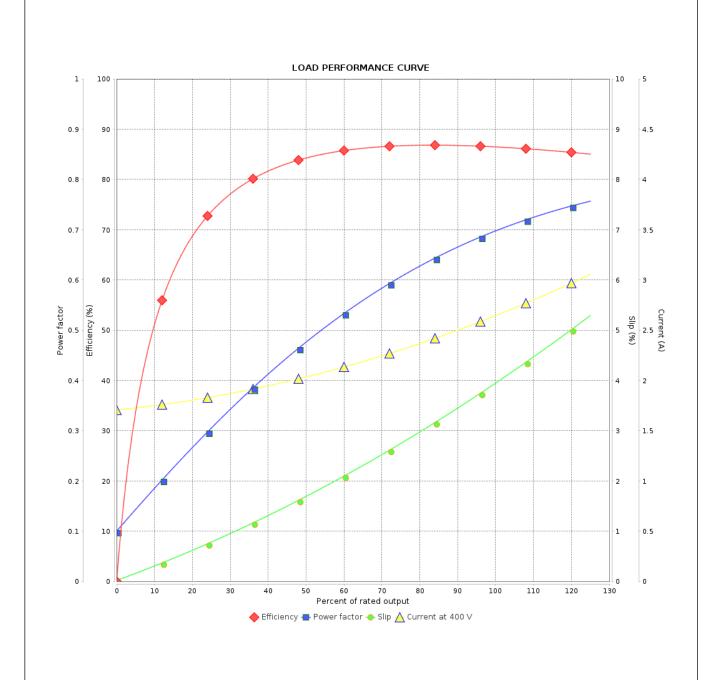
Customer :

Product line : W22 Close Coupled Pump JM

NEMA Premium Efficiency Three-

Phase

Product code: 12775267



Performance	:·	400 V 50 Hz 6P IE4				
Rated current		2.62 A	Moment of	Moment of inertia (J)		2
LRC		6.9	Duty cycle	Duty cycle		
Rated torque		1.13 kgfm	Insulation	Duty cycle : Cor Insulation class : F		
Locked rotor torque		300 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie :	330 %	Temperati	Temperature rise : 80 K		
Rated speed	:	960 rpm	Design		: B	
Rev.		Changes Summary	l	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	23/10/2024				5/6	

Three Phase Induction Motor - Squirrel Cage



Customer :

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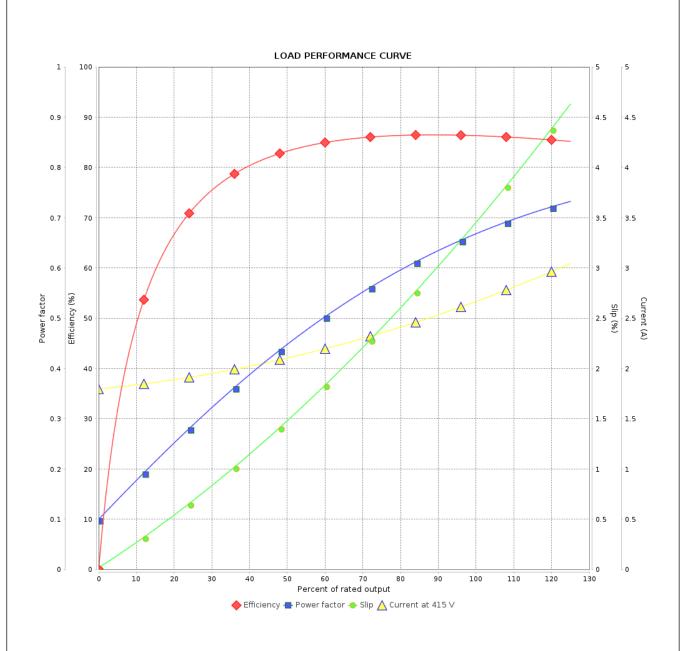
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Product line : W22 Close Coupled Pump JM

NEMA Premium Efficiency Three-

Phase

Product code: 12775267



Performance	: 4	15 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 7 : 1 jue : 3	2.64 A 7.4 .13 kgfm 130 % 170 % 165 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0206 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary	I	Performed	Checked	Date
Performed by						

Page

6/6

Revision

