DATA SHEET

Three Phase Induction Motor - Squirrel Cage



4

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Customer

Product line : JM Pump NEMA Premium Product code: 13180570

Efficiency Three-Phase

4

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: 213/5JM 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

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Approx. weight³ Altitude : 1000 m.a.s.l. : 64.0 kg : IP55 Moment of inertia (J) : 0.0451 kgm²

Protection degree Design : B Output [HP] 10 7.5 7.5

requeries [riz]			00	50	J 30	
	Rated voltage [V]		230/460	190/380	220/415	
	Rated current [A]		24.4/12.2	22.4/11.2	20.8/11.0	
L. R. Amperes [A]			171/85.4	170/85.1	172/91.3	
	LRC [A]		7.0x(Code H)	7.6x(Code J)	8.3x(Code K)	
	No load current [A]		11.1/5.54	10.9/5.46	11.3/5.97	
	Rated speed [RPM]		1760	1465	1470	
	Slip [%]		2.22	2.33	2.00	
	Rated torque [kgfr		4.12	3.72	3.70	
	Locked rotor torque [%]		250	250	290	
Breakdown torque [%]		[%]	300	320	360	
	Service factor Temperature rise		1.15	1.15	1.15	
			80 K	80 K	80 K	
	Locked rotor time		27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²			60.0 dB(A)	57.0 dB(A)	57.0 dB(A)	
	Efficiency (%)	25%	90.2	90.4	89.3	
		50%	91.0	90.1	89.4	
		75%	91.0	90.7	90.5	
		100%	91.7	90.1	90.3	
	Power Factor	25%	0.41	0.38	0.34	
		50%	0.67	0.64	0.59	
		75%	0.78	0.76	0.73	
		100%	0.84	0.83	0.80	

Non drive end Foundation loads Drive end

Bearing type 6209 ZZ 6206 ZZ Max. traction : 214 kgf Sealing V'Ring Without Max. compression : 278 kgf

Bearing Seal

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Poles

Frequency [Hz]

USABLE @208V 27.0A SF 1.00 SFA 27.0A

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

(1) / 11 / 100 / 10 / 10					
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

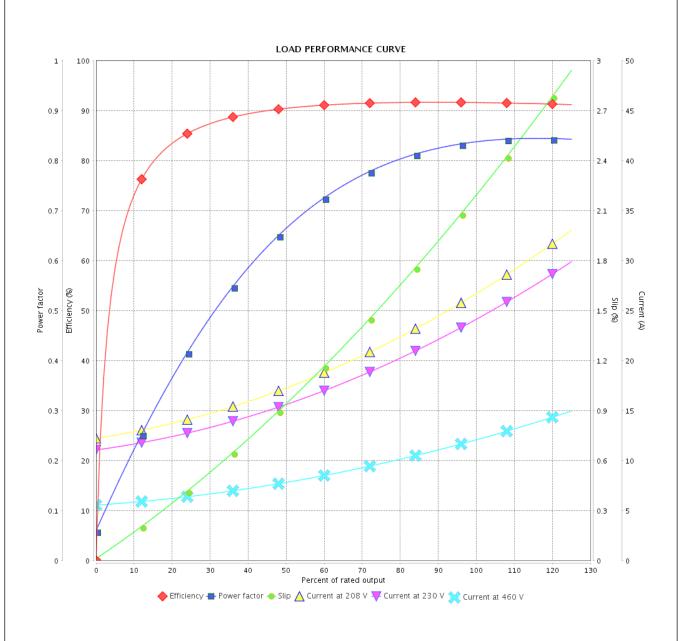
Date

16/05/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13180570



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0451 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



13180570

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Revision

Customer

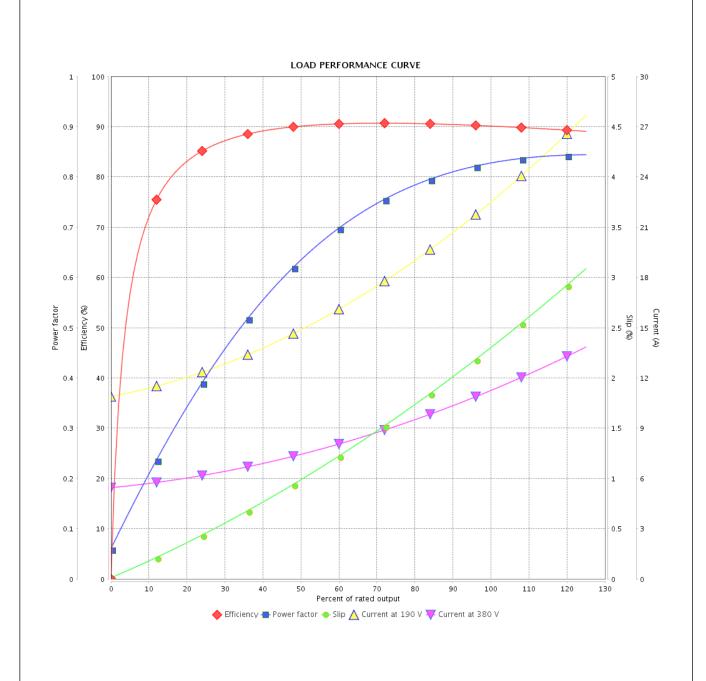
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Date

16/05/2022

Product line : JM Pump NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 190/380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.4/11.2 A Moment : 7.6 Duty cy : 3.72 kgfm Insulation : 250 % Service : 320 % Tempers : 1465 rpm Design		class ctor	: 0.0451 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	: Cont.(S1) : F : 1.15 : 80 K	
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Three Phase Induction Motor - Squirrel Cage

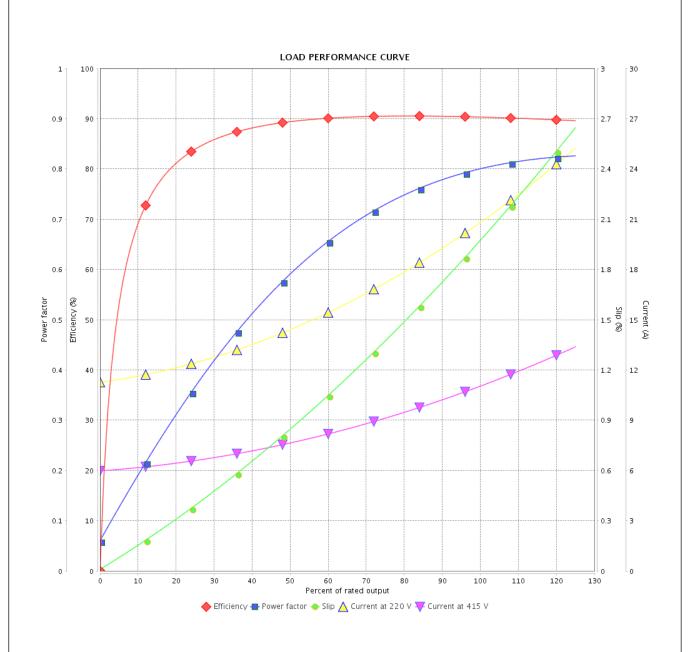


Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13180570



Performance	: 220/415 V 50 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.8/11.0 A : 8.3 : 3.70 kgfm : 290 % : 360 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0451 kgm² : Cont.(S1) : F : 1.15 : 80 K : B			
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