DATA SHEET

Customer

Three Phase Induction Motor - Squirrel Cage



Product line : JM Pump NEMA Premium Product code : 13180600

Efficiency Three-Phase

Frame : 143/5JM Cooling method : IC411 - TEFC Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 18.3 kg

Protection degree : IP55 Moment of inertia (J) : 0.0046 kgm²

Design : B

Output [HP]		1.5	1.5	1.5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.04/2.02	4.82/2.41	4.38/2.32
L. R. Amperes [A]		33.1/16.6	29.4/14.7	29.3/15.5
LRC [A]		8.2x(Code K)	6.1x(Code H)	6.7x(Code J)
No load current [A	.]	2.17/1.08	2.13/1.07	2.20/1.17
Rated speed [RPI	Л]	1750	1420	1430
Slip [%]		2.78	5.33	4.67
Rated torque [kgfr	n]	0.622	0.767	0.761
Locked rotor torqu	ie [%]	270	210	240
Breakdown torque	: [%]	300	250	280
Service factor			1.15	1.15
Temperature rise		80 K	105 K	80 K
Locked rotor time		37s (cold) 21s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	85.2	86.1	85.0
Efficiency (%)	50%	85.5	84.7	84.2
Linciency (70)	75%	86.5	84.7	84.9
	100%	86.5	82.7	83.6
Power Factor	25%	0.35	0.41	0.37
	50%	0.59	0.67	0.62
i Owei i acioi	75%	0.72	0.78	0.75
	100%	0.79	0.84	0.82

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6206 ZZ 6203 ZZ Max. traction : 51 kgf Sealing : V'Ring Without Max. compression : 70 kgf

Bearing Seal

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 4.47A SF 1.00 SFA 4.47A

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 11 10					
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	16/05/2022			1/4	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

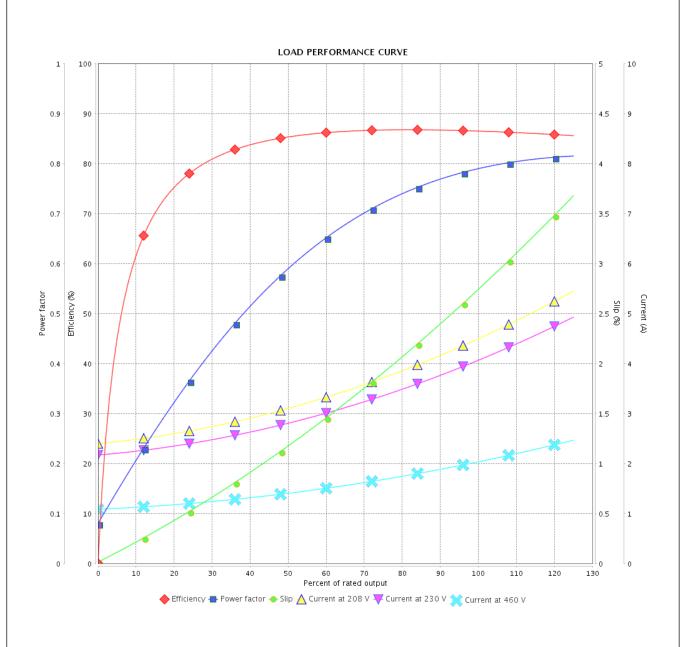
Date

16/05/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13180600



Performance	: 2	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 0 que : 2 ue : 3	.04/2.02 A .2 .622 kgfm 70 % 00 % 750 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0046 kgm² : Cont.(S1) : F : : 80 K : B	
Rev.		Changes Summary	,	Performed	Checked	Date
Performed by						

Page

2/4

Revision

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

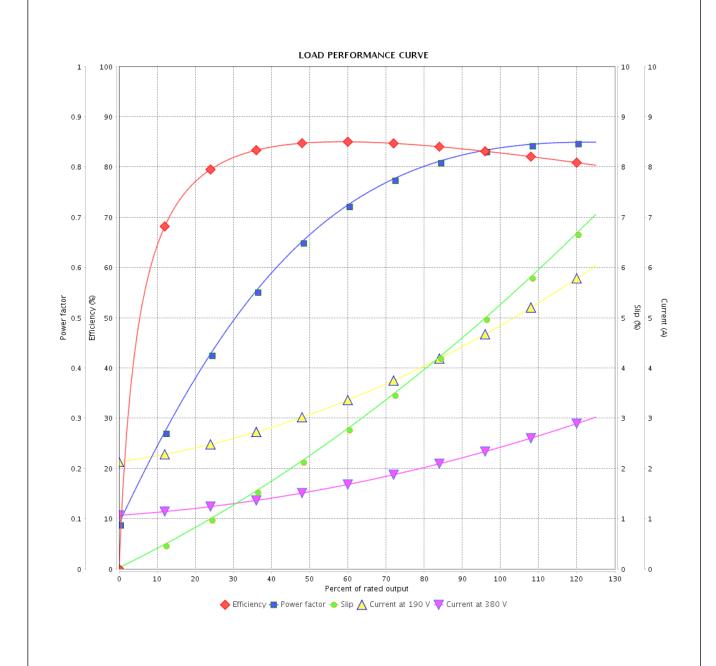


Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13180600



Performance	:	190/380 V 50 Hz 4P				
Rated current	:	4.82/2.41 A	Moment o	f inertia (J)	: 0.0046 kgm²	
LRC	:	6.1	Duty cycle		: Cont.(S1)	
Rated torque	:	0.767 kgfm	Insulation class		: F	
Locked rotor torque		210 %	Service factor		: 1.15	
Breakdown torqu	ie :	250 % Temperature rise		ıre rise	: 105 K	
Rated speed	:	1420 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Data	16/05/2022				3 / 4	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

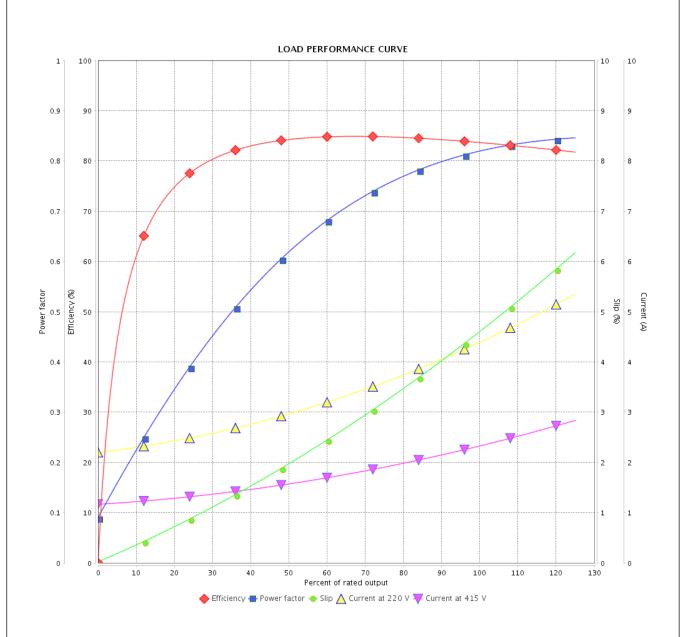
Date

16/05/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13180600



Performance : 220/415 V 50 Hz 4P : 0.0046 kgm² Rated current : 4.38/2.32 A Moment of inertia (J) **LRC** : 6.7 Duty cycle : Cont.(S1) : 0.761 kgfm Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1430 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Page

4/4

Revision