## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Product code : 12789072

Efficiency Three-Phase

Frame : 254/6JM Cooling method : IC01 - ODP
Insulation class : F Mounting : F-1
Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Duty cycle : Cont.(S1) Rotation: : Both (CW and CCW And CCW And CCW Starting method : Direct On Line

Ambient temperature		: -20°C to +40°C	Starting method	: Direct On Line	
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 103 kg	
Design		: B	Moment of inertia (J)	: 0.0939 kgm²	
Output [HP]		20	20	20	
Poles		4	4	4	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		50.0/25.0	59.8/29.9	54.0/28.6	
L. R. Amperes [A]		315/158	311/155	313/166	
LRC [A]		6.3x(Code G)	5.2x(Code F)	5.8x(Code G)	
No load current [A	.]	22.9/11.4	22.4/11.2	23.6/12.5	
Rated speed [RPN	Л]	1770	1460	1465	
Slip [%]		1.67	2.67	2.33	
Rated torque [kgfm]		8.20	9.94	9.91	
Locked rotor torque [%]		240	180	200	
Breakdown torque [%]		290	220	250	
Service factor		1.15	1.15	1.15	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>		64.0 dB(A)	62.0 dB(A)	62.0 dB(A)	
	25%	91.7	93.0	92.2	
Efficiency (%)	50%	92.4	91.8	91.4	
Efficiency (%)	75%	92.4	91.2	91.3	
	100%	93.0	89.7	90.2	
	25%	0.38	0.46	0.41	
Dower Foots	50%	0.63	0.72	0.68	
Power Factor	75%	0.74	0.82	0.79	
	100%	0.81	0.85	0.84	

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

Bearing type : 6309 Z C3 6208 Z C3 Max. traction : 338 kgf Sealing : Without Without Max. compression : 441 kgf

Bearing Seal Bearing Seal

Lubrication interval : 20000 h 20000 h Lubricant amount : 13 g 8 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 55.3A SF 1.00 SFA 55.3A

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	17/05/2022			1 / 4	

# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

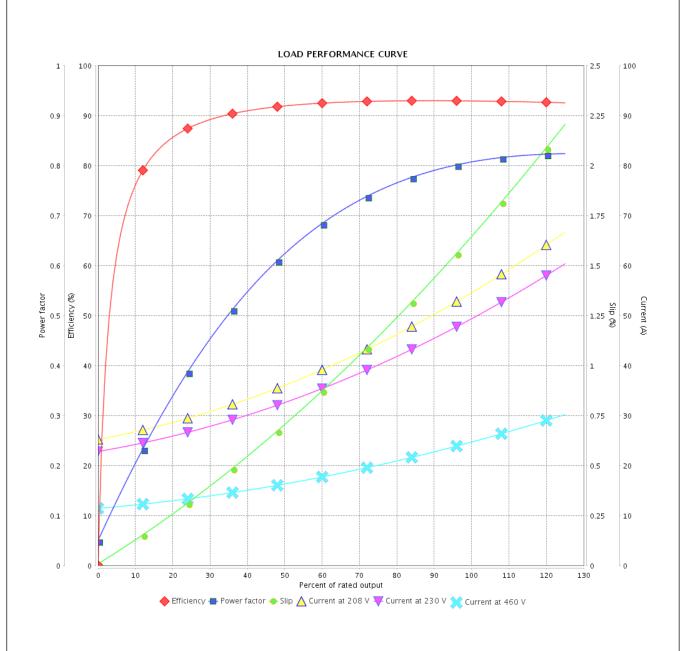


Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12789072



Performance		: 230/460 V 60 Hz 4	.P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6.3 Duty cycle d torque : 8.20 kgfm Insulation clas ed rotor torque : 240 % Service factor kdown torque : 290 % Temperature r		e class actor	: 0.0939 kgm² : Cont.(S1) : F : 1.15 : 80 K : B		
Rev.		Changes Summ	ary	Performed	Checked	Date
Performed by						
Checked by					Page	Revision

2/4

17/05/2022

Date

# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

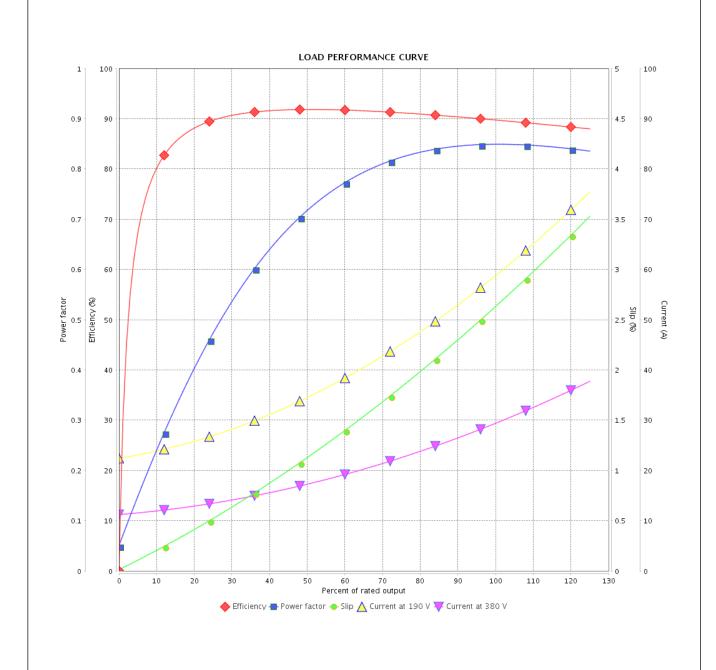


Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12789072



Performance	: 1	90/380 V 50 Hz 4P				
LRC : 5.2 Duty of Rated torque : 9.94 kgfm Insula Locked rotor torque : 180 % Servic Breakdown torque : 220 % Temporal control of the service		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		2	
Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by					Page	Revision

3/4

17/05/2022

Date

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

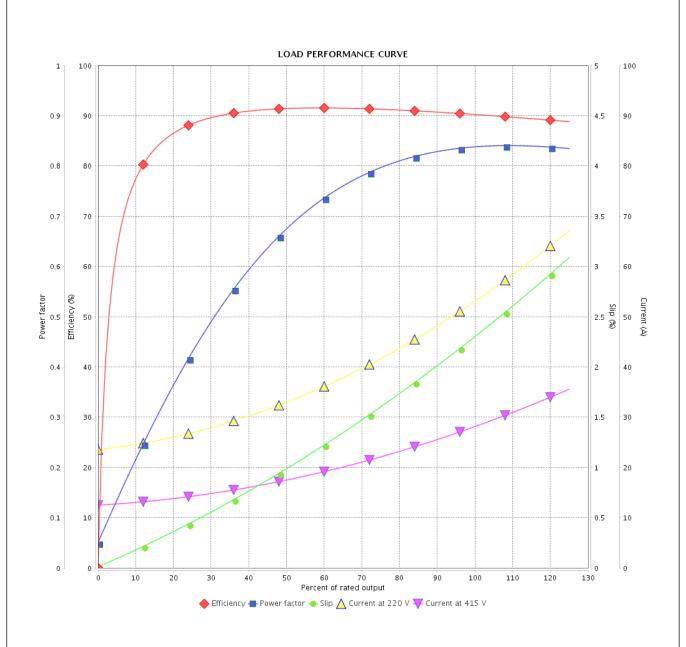


Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12789072



Performance : 220/415 V 50 Hz 4P : 0.0939 kgm<sup>2</sup> : 54.0/28.6 A Moment of inertia (J) Rated current **LRC** : Cont.(S1) : 5.8 Duty cycle Insulation class Rated torque : 9.91 kgfm : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	17/05/2022			4/4	