

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13680185

Frame	: 143/5JM	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: W-6
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 18.7 kg
Design	: B	Moment of inertia (J)	: 0.0054 kgm ²

Output [HP]	3	3	3
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.18/3.59	8.78/4.39	7.56/4.01
L. R. Amperes [A]	57.4/28.7	53.6/26.8	56.0/29.7
LRC [A]	8.0x(Code J)	6.1x(Code G)	7.4x(Code J)
No load current [A]	2.60/1.30	2.60/1.30	2.91/1.54
Rated speed [RPM]	3480	2825	2860
Slip [%]	3.33	5.83	4.67
Rated torque [kgfm]	0.626	0.771	0.761
Locked rotor torque [%]	229	190	240
Breakdown torque [%]	300	229	270
Service factor		1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	16s (cold) 9s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	84.0	86.2
	75%	85.5	85.9
	100%	85.5	83.9
Power Factor	25%		
	50%	0.76	0.76
	75%	0.86	0.86
	100%	0.90	0.91

	<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	: 6206 ZZ	6203 ZZ	Foundation loads
Sealing	: Without	Without	Max. traction : 49 kgf
	Bearing Seal	Bearing Seal	Max. compression : 68 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 7.94A SF 1.00 SFA 7.94A

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				
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Date	16/05/2022			

Page 1 / 4
Revision

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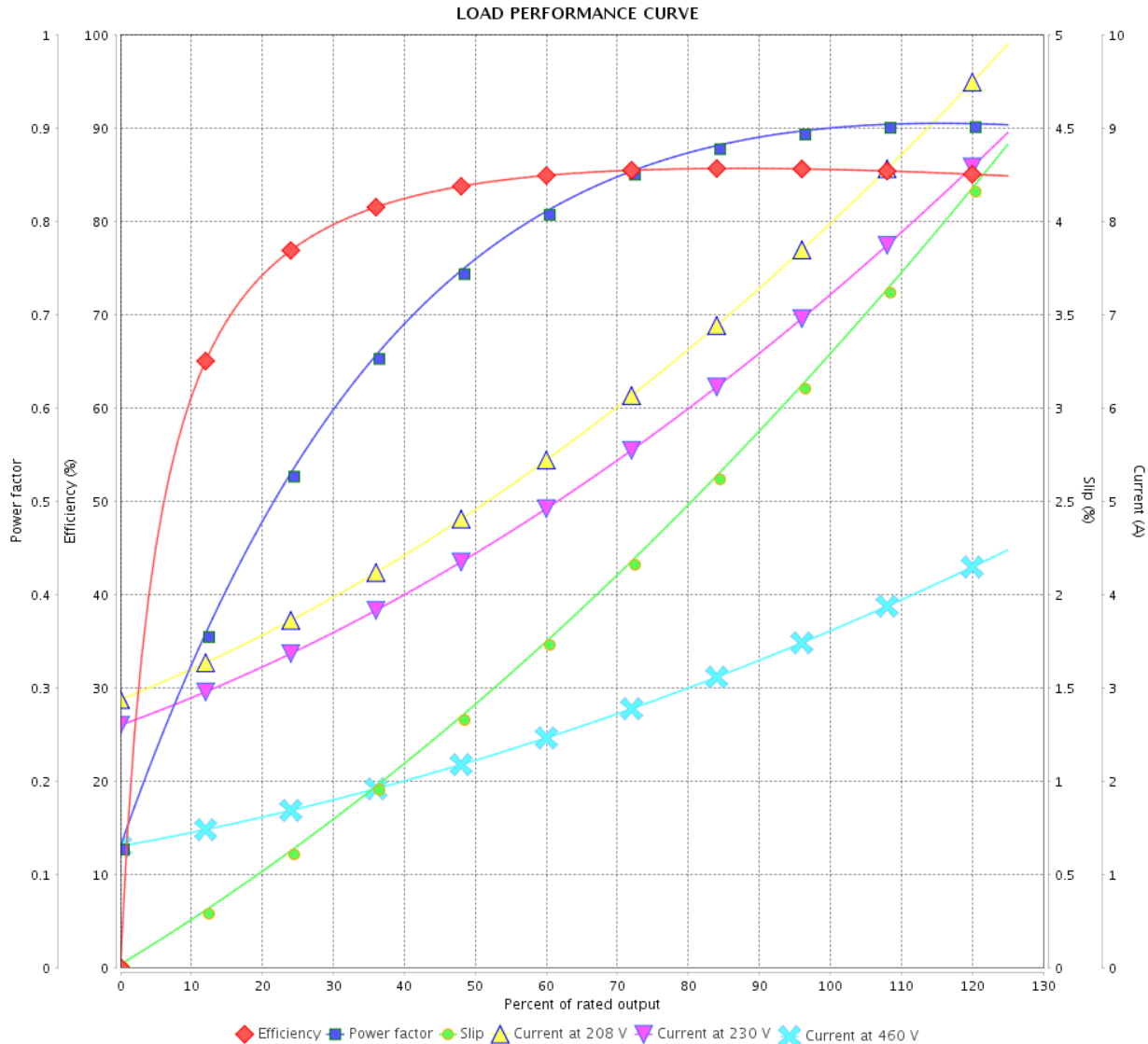
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
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Performance : 230/460 V 60 Hz 2P

Rated current : 7.18/3.59 A
 LRC : 8.0
 Rated torque : 0.626 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 3480 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 4	
Date					

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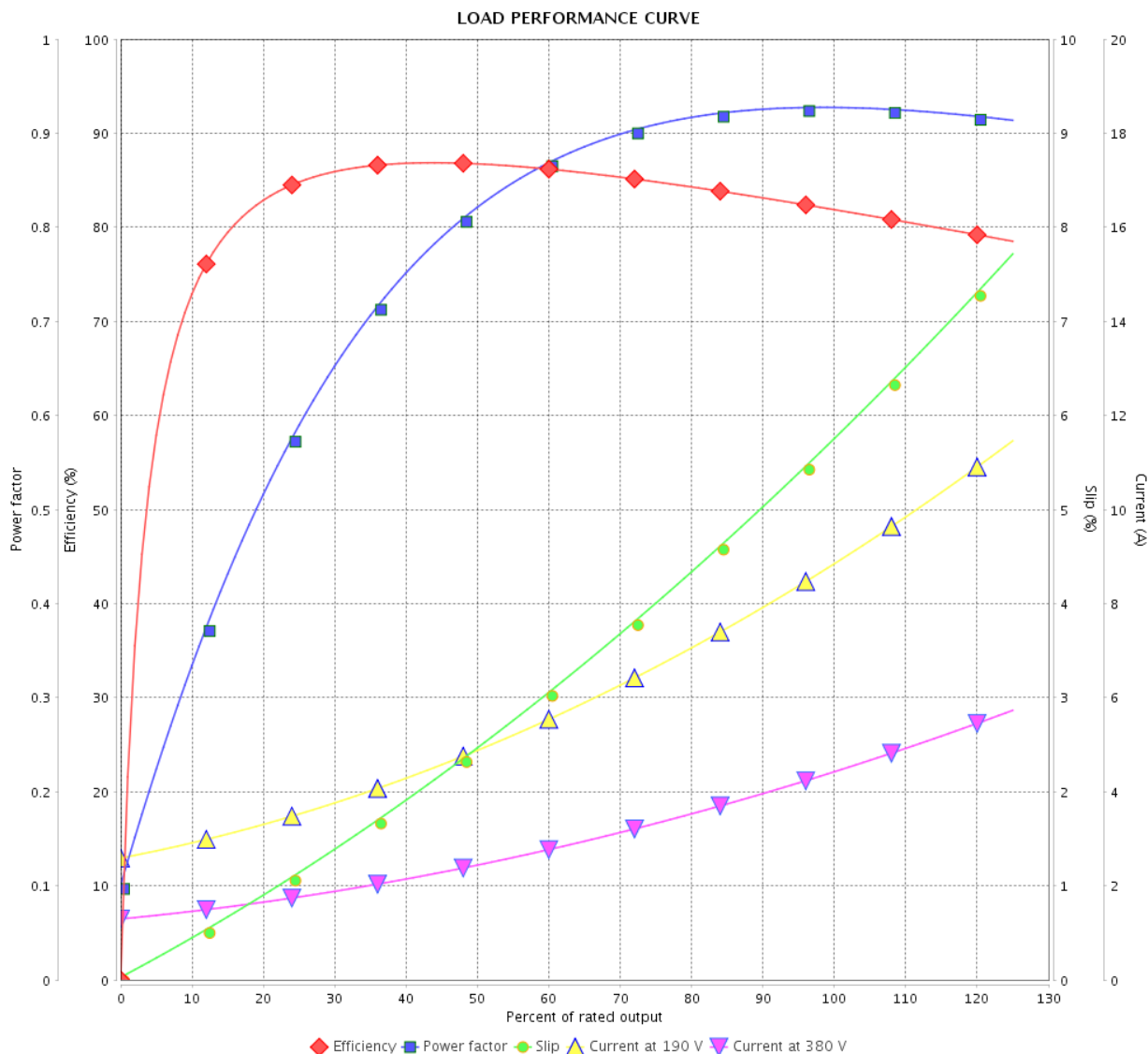
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
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Product code : 13680185



Performance : 190/380 V 50 Hz 2P

Rated current : 8.78/4.39 A
LRC : 6.1
Rated torque : 0.771 kgfm
Locked rotor torque : 190 %
Breakdown torque : 229 %
Rated speed : 2825 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 4Revision		
Checked by				
Date	16/05/2022			

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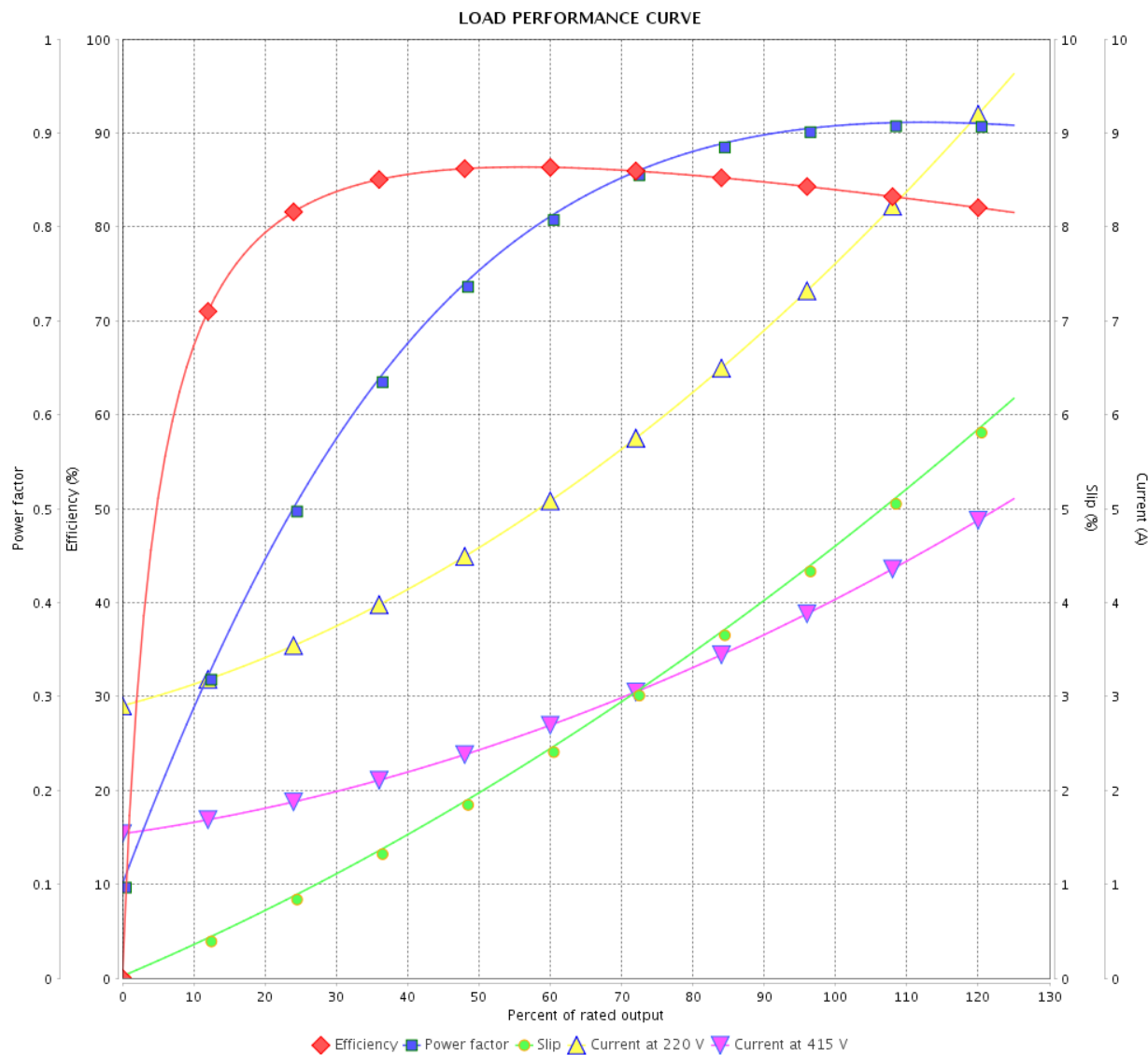
Three Phase Induction Motor - Squirrel Cage



Customer :

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Efficiency Three-Phase

Product code : 13680185



Performance : 220/415 V 50 Hz 2P

Rated current : 7.56/4.01 A
LRC : 7.4
Rated torque : 0.761 kgfm
Locked rotor torque : 240 %
Breakdown torque : 270 %
Rated speed : 2860 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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

