

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Efficiency Three-Phase Product code : 13125974

Frame	: 143/5JM	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
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 ³	: 20.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0055 kgm ²
Design	: B		

Output [HP]	2	2	2
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	5.44/2.72	6.50/3.25	5.89/3.12
L. R. Amperes [A]	44.6/22.3	39.0/19.5	39.4/20.9
LRC [A]	8.2x(Code K)	6.0x(Code H)	6.7x(Code J)
No load current [A]	2.80/1.40	2.75/1.37	2.87/1.52
Rated speed [RPM]	1745	1415	1425
Slip [%]	3.06	5.67	5.00
Rated torque [kgfm]	0.832	1.03	1.02
Locked rotor torque [%]	270	210	240
Breakdown torque [%]	300	240	270
Service factor		1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	86.0	86.0
	50%	85.5	84.9
	75%	87.5	85.2
	100%	86.5	83.6
Power Factor	25%	0.35	0.38
	50%	0.60	0.64
	75%	0.73	0.76
	100%	0.80	0.83

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6206 ZZ	6203 ZZ	Max. traction	: 68 kgf
Sealing	: V'Ring	Without Bearing Seal	Max. compression	: 88 kgf
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

Notes

USABLE @208V 6.02A SF 1.00 SFA 6.02A

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.

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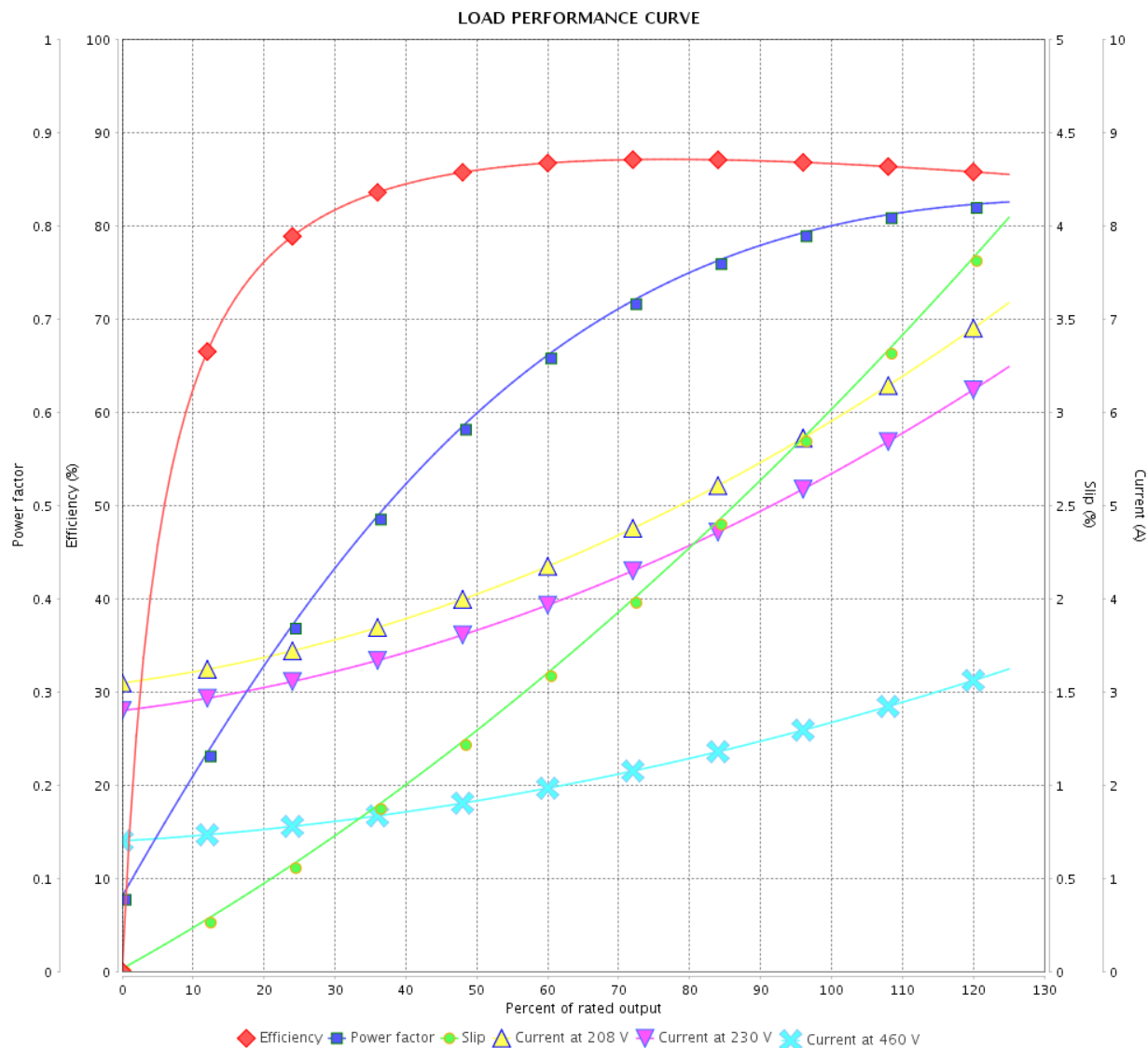
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13125974



Performance : 230/460 V 60 Hz 4P

Rated current : 5.44/2.72 A
 LRC : 8.2
 Rated torque : 0.832 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0055 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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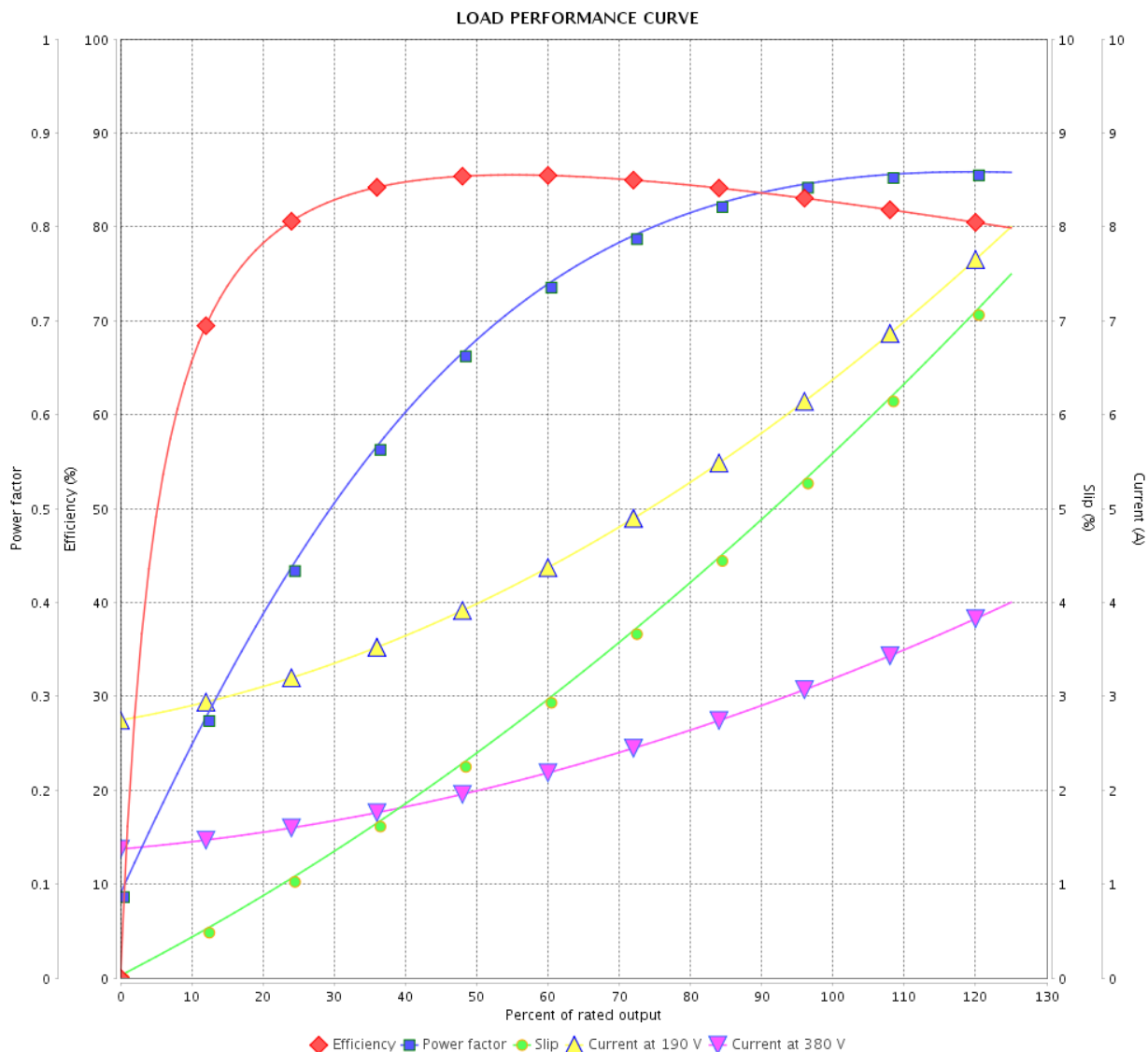
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13125974



Performance : 190/380 V 50 Hz 4P

Rated current : 6.50/3.25 A
LRC : 6.0
Rated torque : 1.03 kgfm
Locked rotor torque : 210 %
Breakdown torque : 240 %
Rated speed : 1415 rpm

Moment of inertia (J) : 0.0055 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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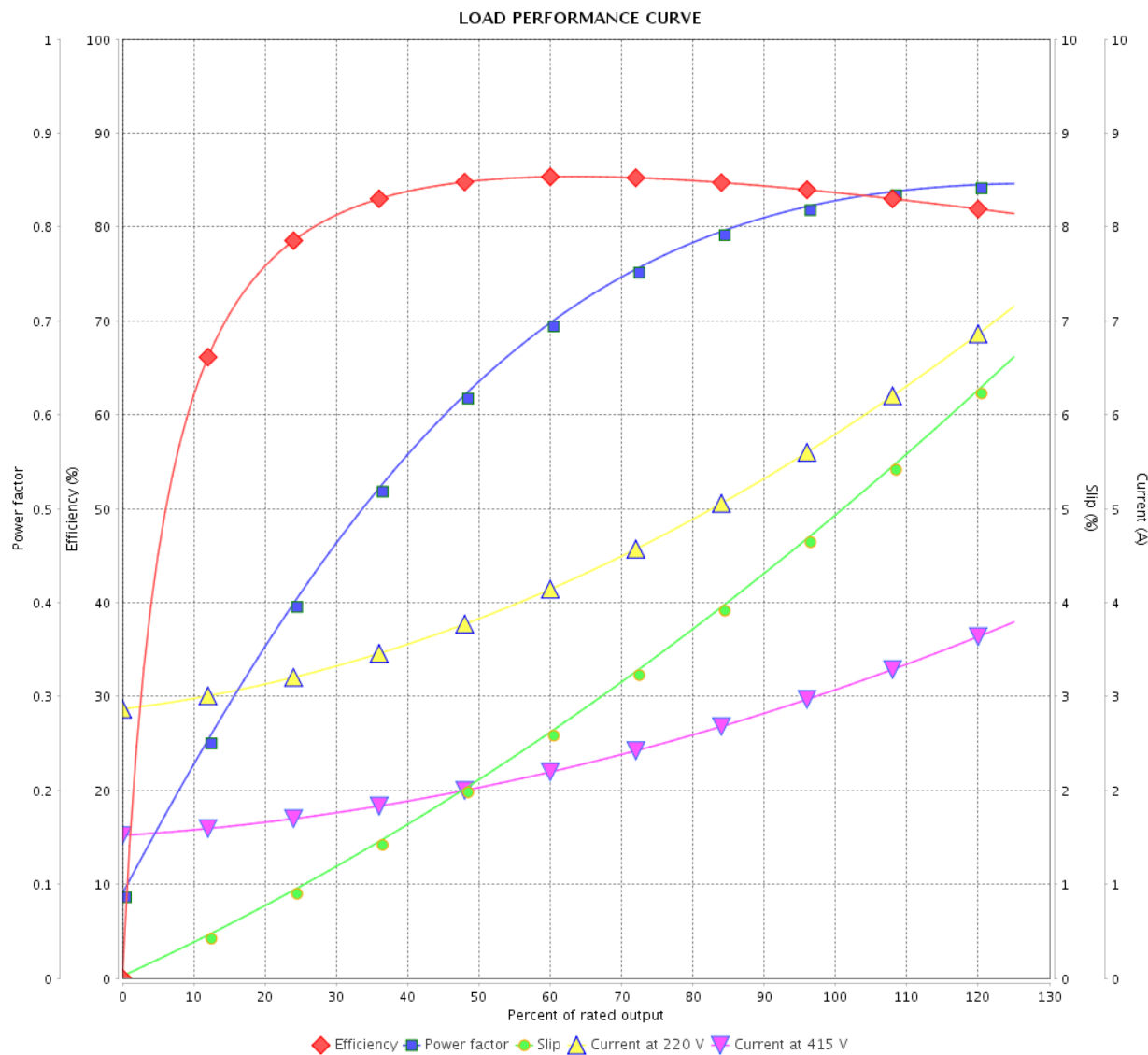
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13125974



Performance : 220/415 V 50 Hz 4P

Rated current : 5.89/3.12 A
LRC : 6.7
Rated torque : 1.02 kgfm
Locked rotor torque : 240 %
Breakdown torque : 270 %
Rated speed : 1425 rpm

Moment of inertia (J) : 0.0055 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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