

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Efficiency Three-Phase

Product code : 13374122

Frame : 182/4JM
Insulation class : F
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Design : B

Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Starting method : Direct On Line
Approx. weight³ : 34.8 kg
Moment of inertia (J) : 0.0118 kgm²

Output [HP]	1.5	1.5	1.5
Poles	6	6	6
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	4.44/2.22	5.18/2.59	4.73/2.51
L. R. Amperes [A]	30.6/15.3	29.5/14.8	29.8/15.8
LRC [A]	6.9x(Code K)	5.7x(Code H)	6.3x(Code J)
No load current [A]	2.73/1.36	2.69/1.34	2.74/1.46
Rated speed [RPM]	1170	955	960
Slip [%]	2.50	4.50	4.00
Rated torque [kgfm]	0.930	1.14	1.13
Locked rotor torque [%]	240	190	220
Breakdown torque [%]	340	260	290
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	99s (cold) 55s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	52.0 dB(A)	50.0 dB(A)	50.0 dB(A)
Efficiency (%)	25%	82.8	83.2
	50%	84.0	83.5
	75%	86.5	85.5
	100%	87.5	85.4
Power Factor	25%	0.29	0.31
	50%	0.50	0.54
	75%	0.63	0.66
	100%	0.71	0.74

Bearing type : Drive end 6207 ZZ Non drive end 6205 ZZ
Sealing : V'Ring Without Bearing Seal
Lubrication interval : - -
Lubricant amount : - -
Lubricant type : Mobil Polyrex EM

Foundation loads
Max. traction : 51 kgf
Max. compression : 86 kgf

Notes

USABLE @208V 4.91A SF 1.00 SFA 4.91A

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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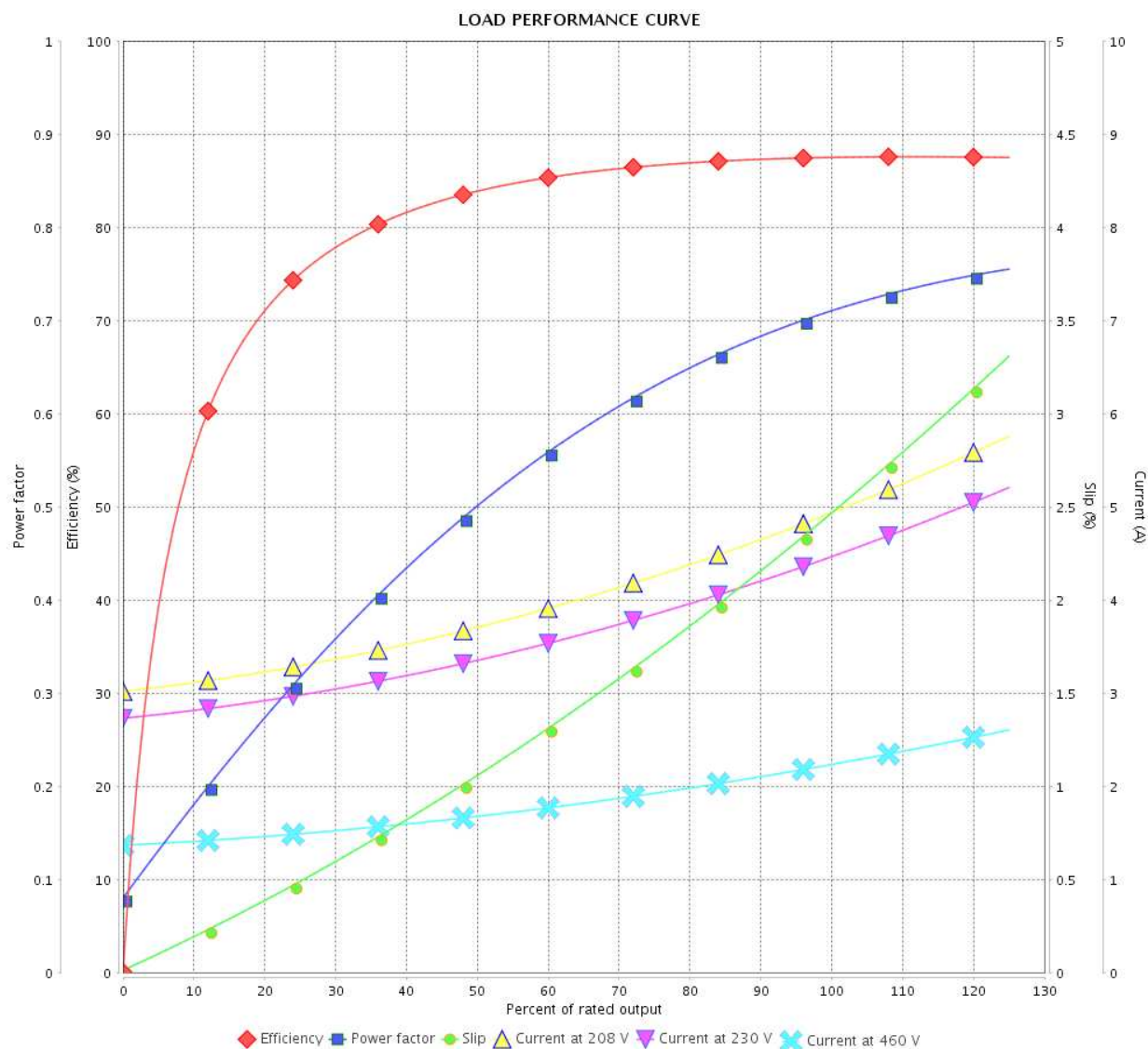
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Customer :

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Performance : 230/460 V 60 Hz 6P

Rated current : 4.44/2.22 A
LRC : 6.9
Rated torque : 0.930 kgfm
Locked rotor torque : 240 %
Breakdown torque : 340 %
Rated speed : 1170 rpm

Moment of inertia (J) : 0.0118 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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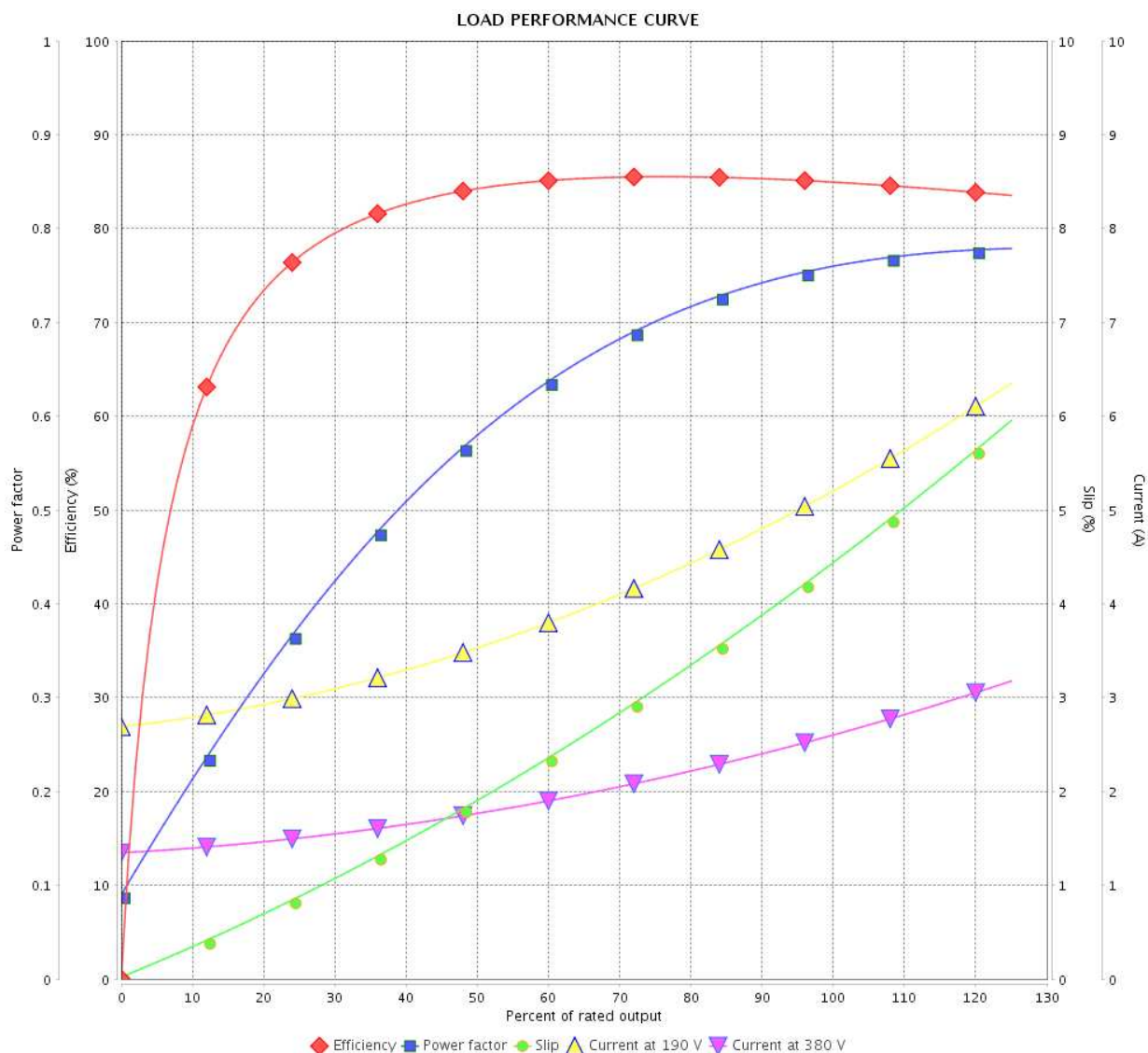
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Performance : 190/380 V 50 Hz 6P

Rated current : 5.18/2.59 A
LRC : 5.7
Rated torque : 1.14 kgfm
Locked rotor torque : 190 %
Breakdown torque : 260 %
Rated speed : 955 rpm

Moment of inertia (J) : 0.0118 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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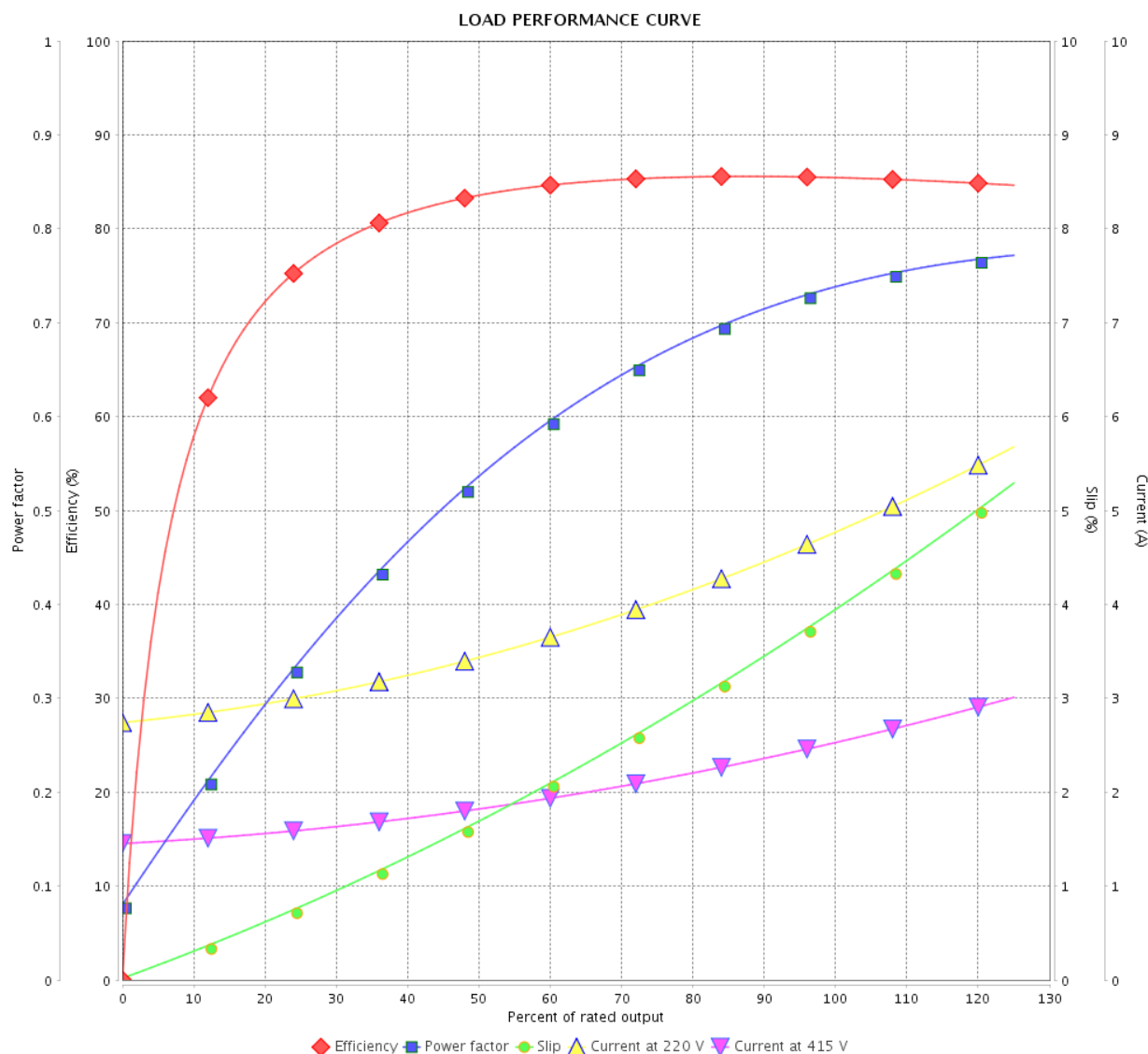
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 220/415 V 50 Hz 6P

Rated current : 4.73/2.51 A
LRC : 6.3
Rated torque : 1.13 kgfm
Locked rotor torque : 220 %
Breakdown torque : 290 %
Rated speed : 960 rpm

Moment of inertia (J) : 0.0118 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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