

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13374122
Frame	: 182/4JM	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	: 34.8 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0118 kgm ²
Design	: B		
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	: <u>Drive end</u> 6207 ZZ <u>Non drive end</u> 6205 ZZ	Foundation loads	
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 51 kgf
		Max. compression	: 86 kgf
Lubrication interval	: -		
Lubricant amount	: -		
Lubricant type	: Mobil Polyrex EM		
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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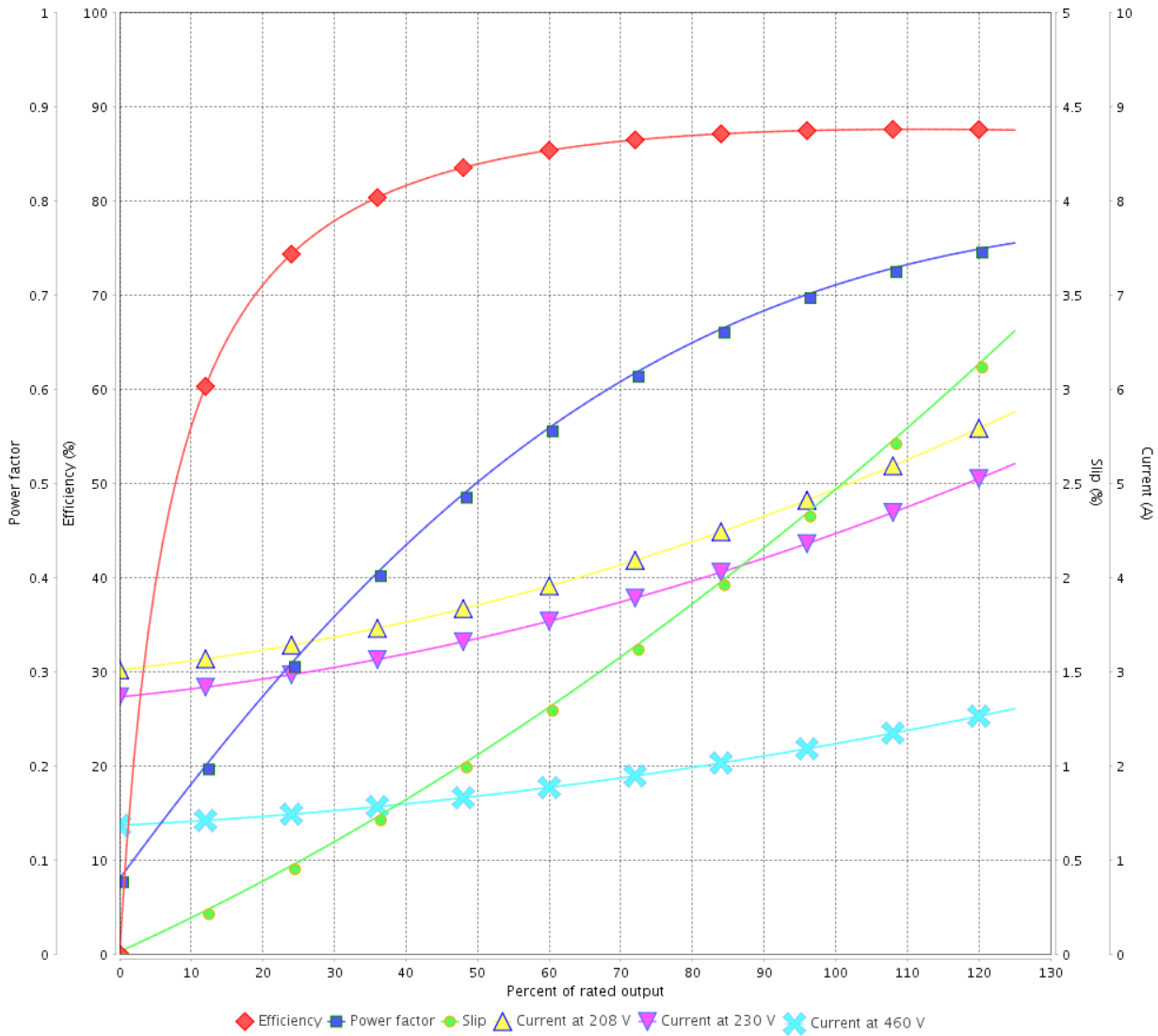


Customer :

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Efficiency Three-Phase

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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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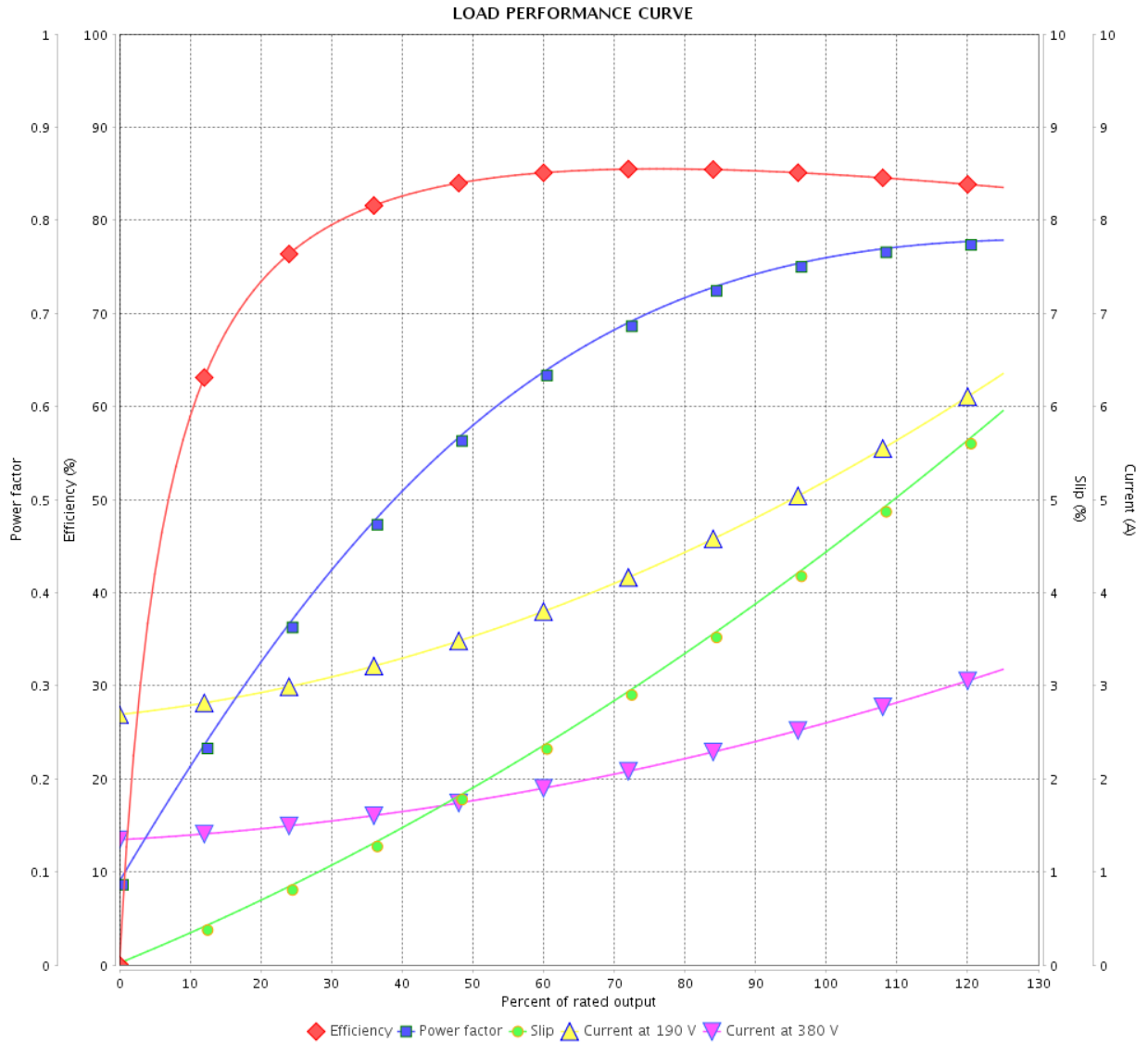
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Performance : 190/380 V 50 Hz 6P

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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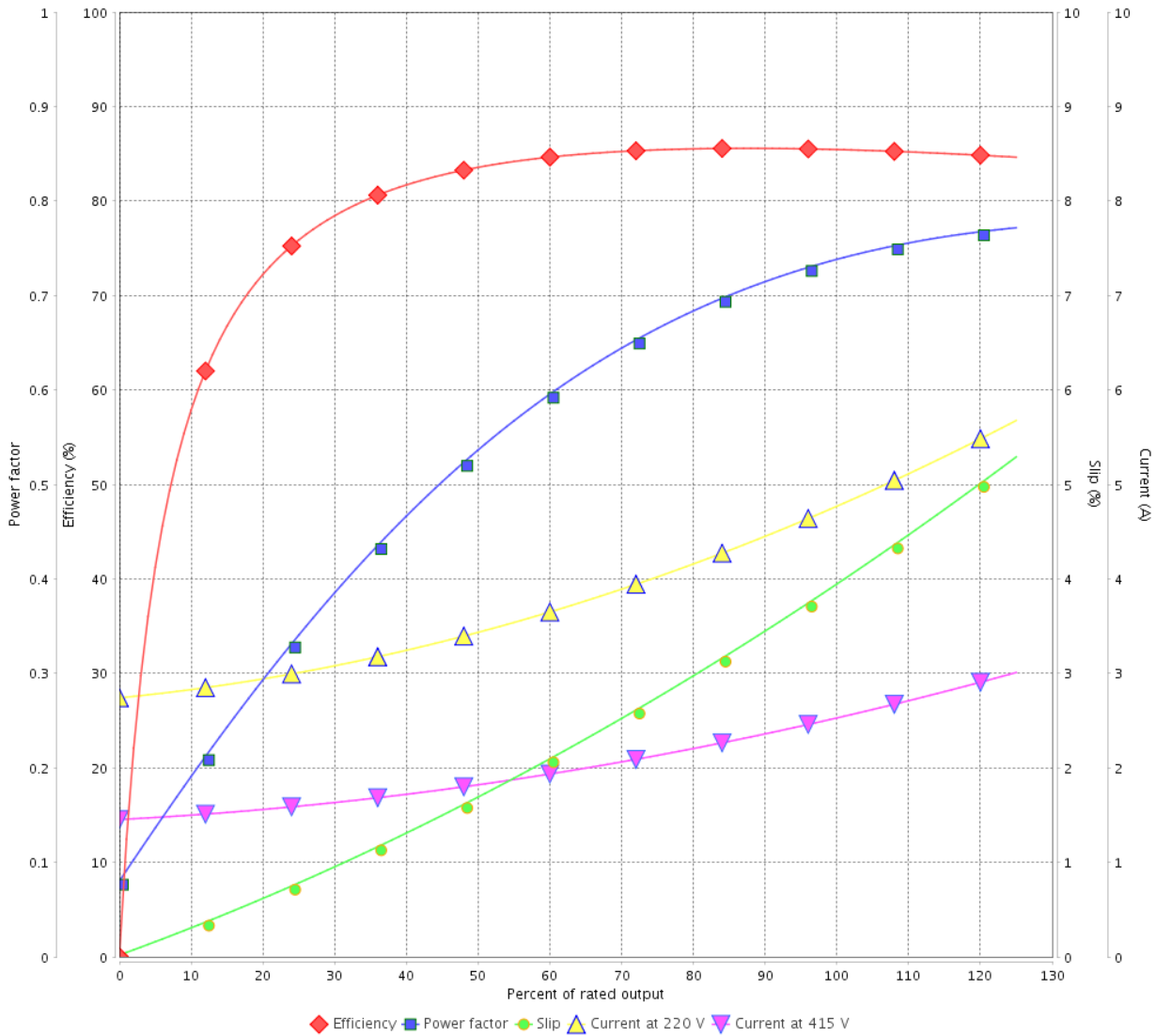


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Performance : 220/415 V 50 Hz 6P

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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