

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Standard Efficiency Three-Phase Product code : 13952937

Frame	: 56J	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: CCW
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 11.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0027 kgm <sup>2</sup>

Output [HP]	0.75	0.75	0.75
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190-220/380	415
Rated current [A]	2.70-2.44/1.22	2.74-2.37/1.37	1.38
L. R. Amperes [A]	18.6-16.8/8.42	15.3-13.3/7.67	8.56
LRC [A]	6.9x(Code K)	5.6x(Code H)	6.2x(Code K)
No load current [A]	1.55-1.80/0.900	1.71-1.48/0.856	1.09
Rated speed [RPM]	1755	1440	1450
Slip [%]	2.50	4.00	3.33
Rated torque [kgfm]	0.310	0.378	0.375
Locked rotor torque [%]	240	170	220
Breakdown torque [%]	300	229	290
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	72.0	68.6
	75%	77.0	74.2
	100%	78.5	76.1
Power Factor	25%		
	50%	0.48	0.49
	75%	0.61	0.62
	100%	0.72	0.73

Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads	
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 29 kgf
Lubrication interval	: - -	Max. compression	: 40 kgf
Lubricant amount	: - -		
Lubricant type	: Mobil Polyrex EM		

Notes  
USABLE @208V SF 1.00

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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# LOAD PERFORMANCE CURVE

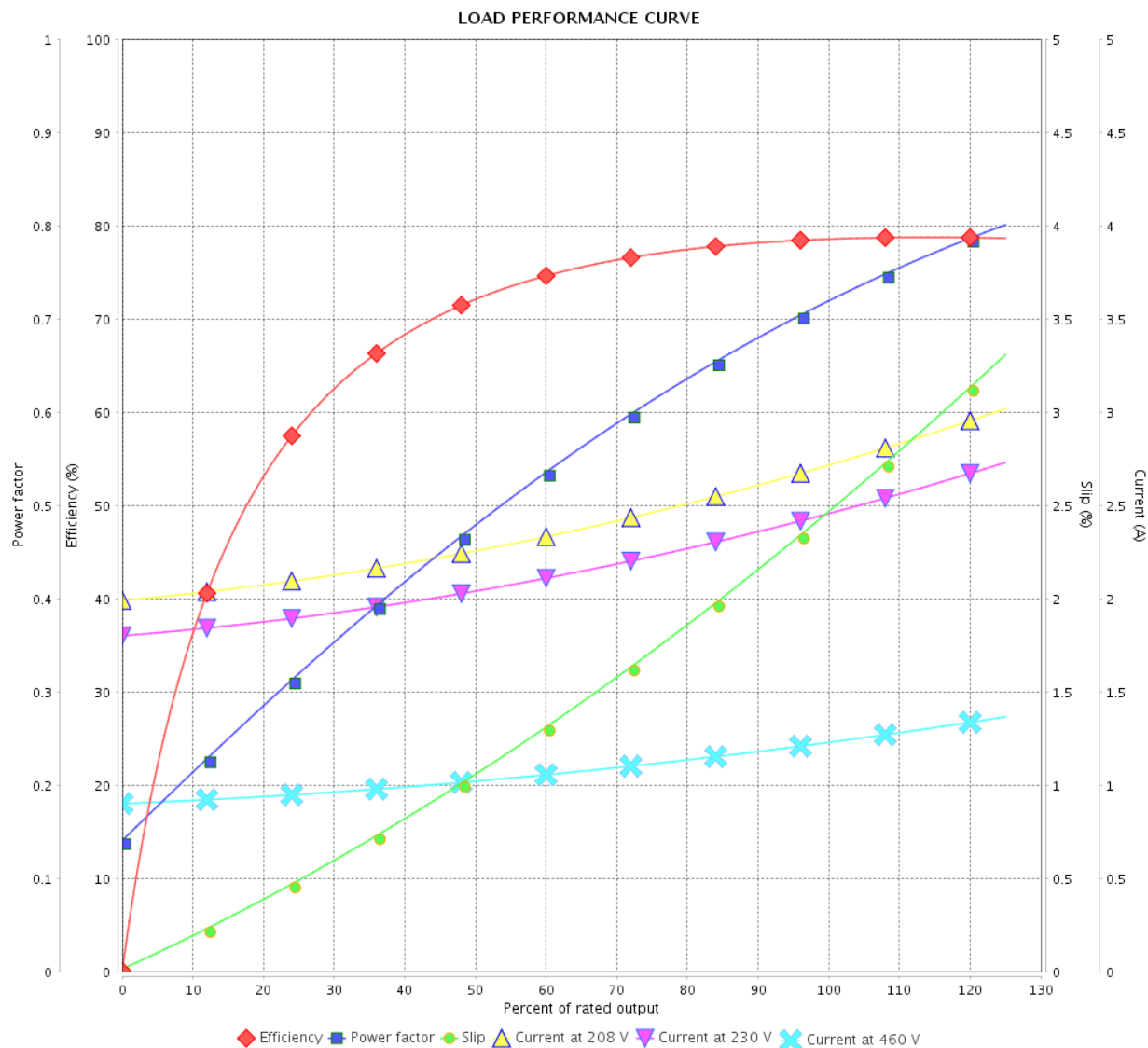
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Standard  
Efficiency Three-Phase

Product code : 13952937



Performance : 208-230/460 V 60 Hz 4P

Rated current : 2.70-2.44/1.22 A  
LRC : 6.9  
Rated torque : 0.310 kgfm  
Locked rotor torque : 240 %  
Breakdown torque : 300 %  
Rated speed : 1755 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor :  
Temperature rise : 80 K

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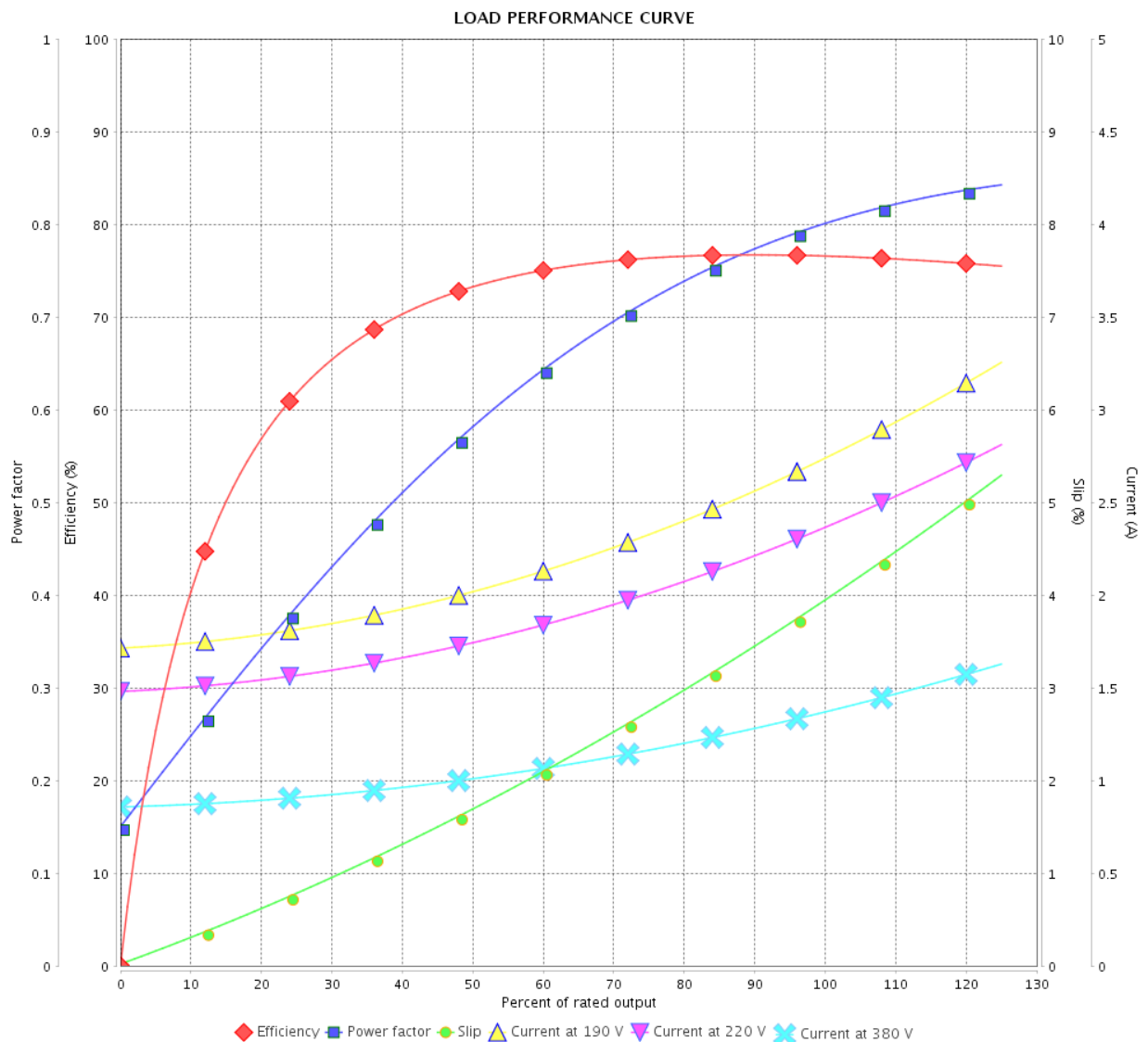
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Standard  
Efficiency Three-Phase

Product code : 13952937



Performance : 190-220/380 V 50 Hz 4P

Rated current : 2.74-2.37/1.37 A  
LRC : 5.6  
Rated torque : 0.378 kgfm  
Locked rotor torque : 170 %  
Breakdown torque : 229 %  
Rated speed : 1440 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K

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# LOAD PERFORMANCE CURVE

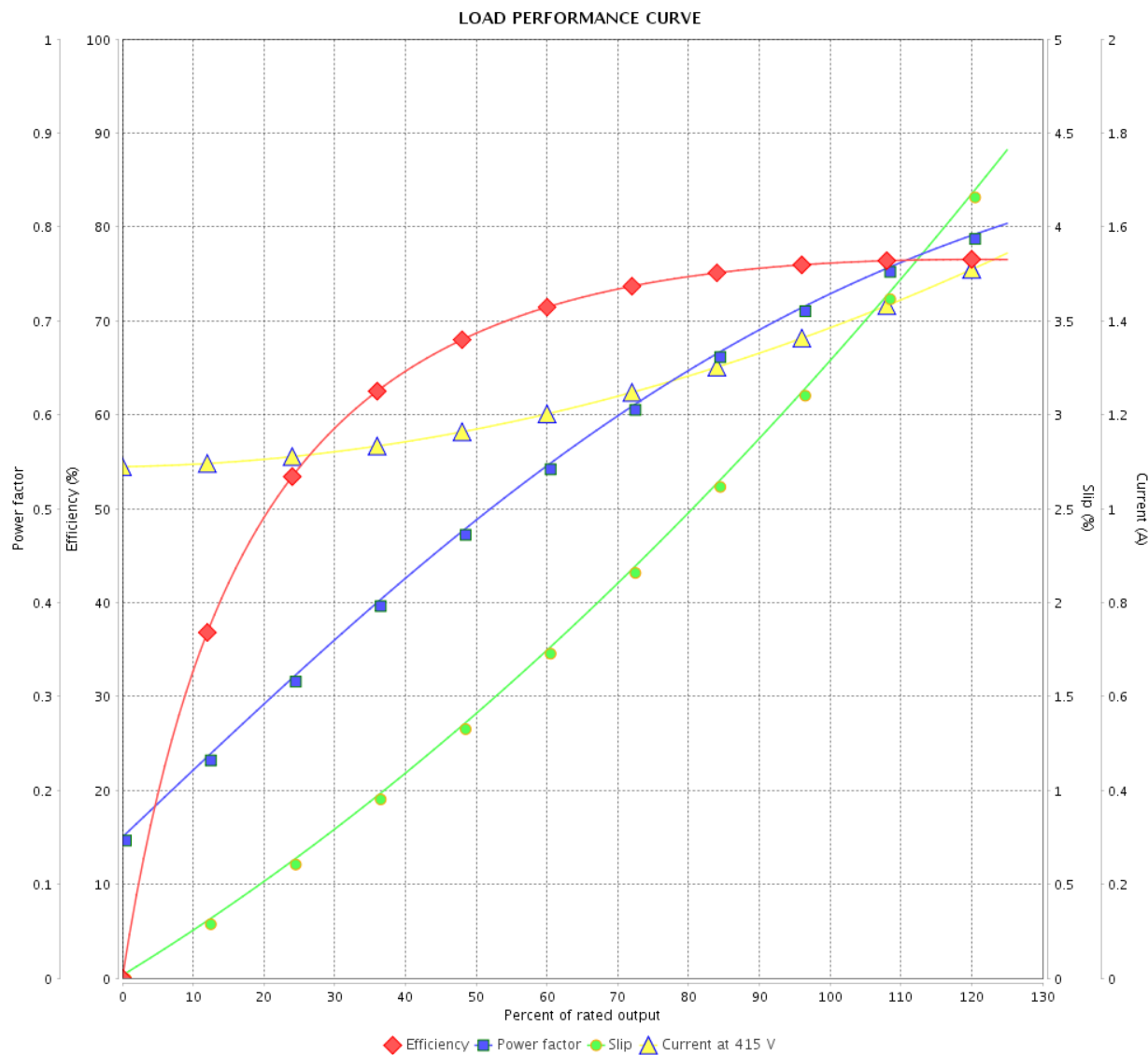
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Standard  
Efficiency Three-Phase

Product code : 13952937



Performance : 415 V 50 Hz 4P

Rated current : 1.38 A  
LRC : 6.2  
Rated torque : 0.375 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 290 %  
Rated speed : 1450 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K

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