

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase Product code : 13721753

Frame	: W56J	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: W-6
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>	: 8.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0009 kgm <sup>2</sup>

Output [HP]	0.75	0.75	0.75
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	2.48-2.24/1.12	2.60/1.30	2.34/1.24
L. R. Amperes [A]	20.1-18.1/9.07	15.6/7.80	16.4/8.68
LRC [A]	8.1x(Code L)	6.0x(Code H)	7.0x(Code K)
No load current [A]	1.07-1.24/0.622	1.22/0.609	1.37/0.727
Rated speed [RPM]	3440	2770	2810
Slip [%]	4.44	7.67	6.33
Rated torque [kgfm]	0.158	0.196	0.194
Locked rotor torque [%]	350	260	310
Breakdown torque [%]	360	240	290
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	28s (cold) 16s (hot)	28s (cold) 16s (hot)	21s (cold) 12s (hot)
Noise level <sup>2</sup>	65.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%		
	50%	70.0	74.9
	75%	75.5	77.0
	100%	77.0	75.9
Power Factor	25%		
	50%	0.62	0.69
	75%	0.74	0.81
	100%	0.80	0.85

Bearing type Sealing Lubrication interval Lubricant amount Lubricant type	Drive end	Non drive end	Foundation loads Max. traction : 13 kgf Max. compression : 22 kgf
	6203 2RS	6202 2RS	
	V'Ring	V'Ring	
	-	-	
	-	-	
	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

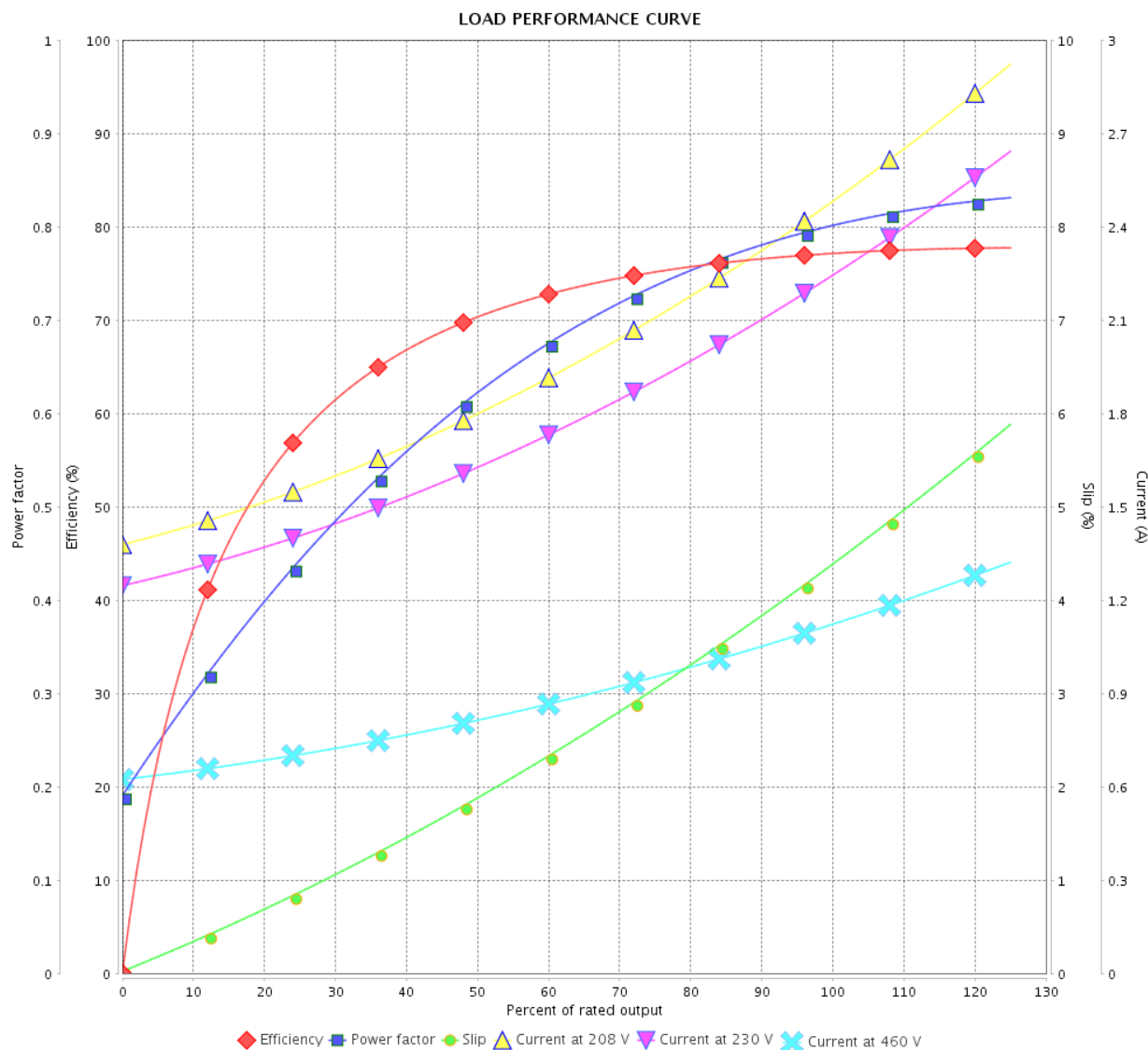
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase

Product code : 13721753



Performance : 208-230/460 V 60 Hz 2P

Rated current : 2.48-2.24/1.12 A  
 LRC : 8.1  
 Rated torque : 0.158 kgfm  
 Locked rotor torque : 350 %  
 Breakdown torque : 360 %  
 Rated speed : 3440 rpm

Moment of inertia (J) : 0.0009 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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# LOAD PERFORMANCE CURVE

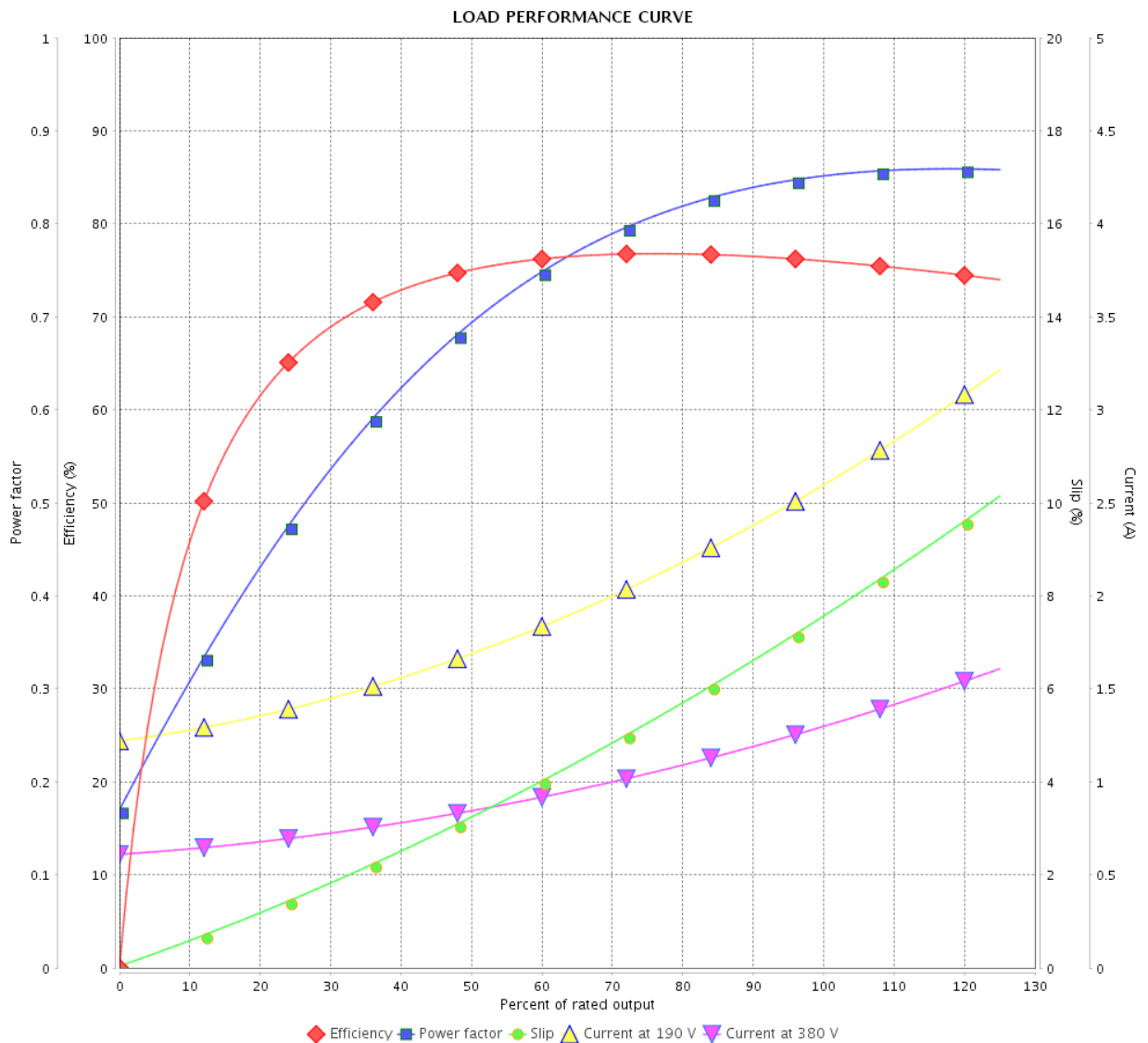
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase

Product code : 13721753



Performance : 190/380 V 50 Hz 2P

Rated current : 2.60/1.30 A  
 LRC : 6.0  
 Rated torque : 0.196 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 240 %  
 Rated speed : 2770 rpm

Moment of inertia (J) : 0.0009 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

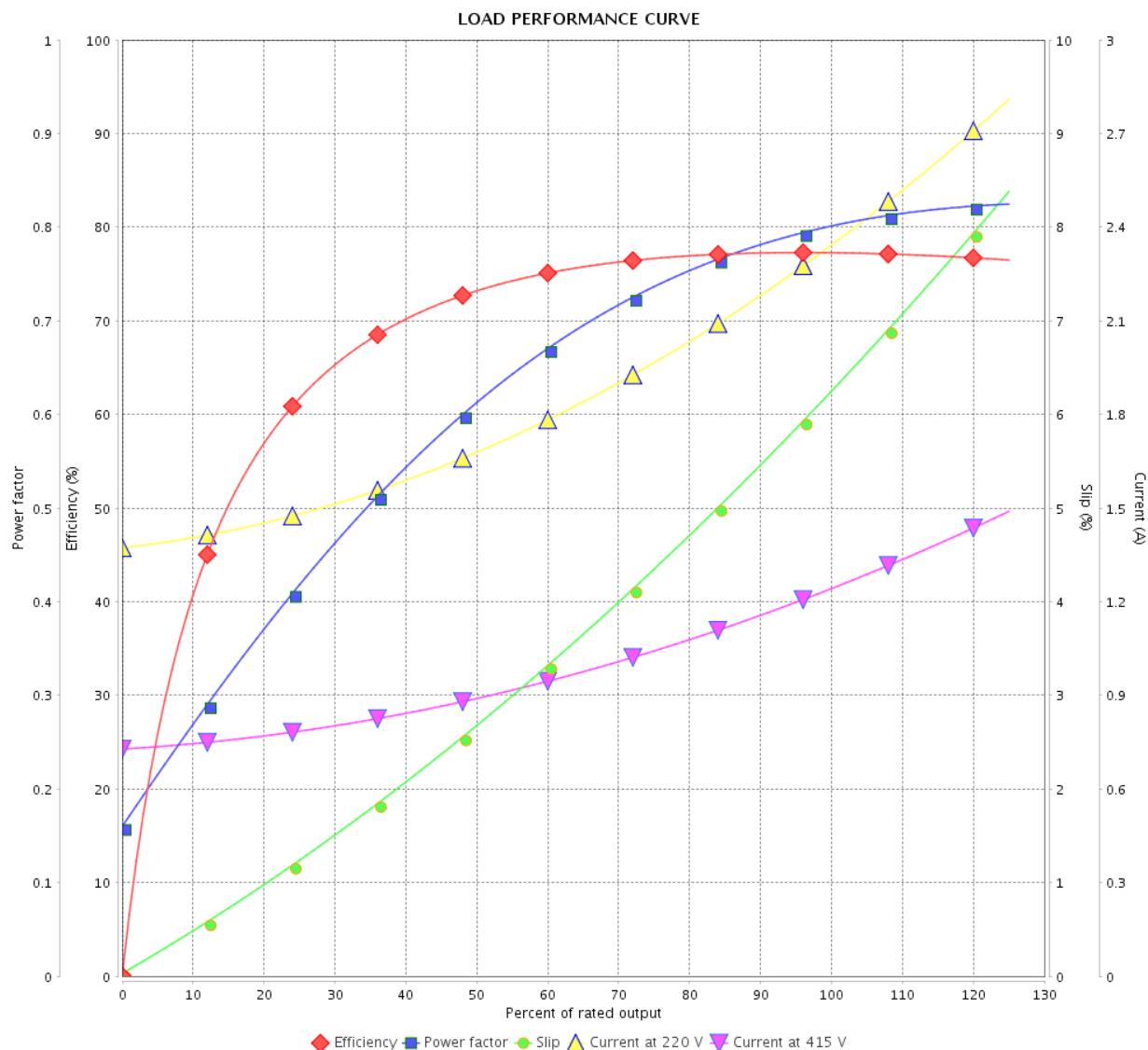
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase

Product code : 13721753



Performance : 220/415 V 50 Hz 2P

Rated current : 2.34/1.24 A  
 LRC : 7.0  
 Rated torque : 0.194 kgfm  
 Locked rotor torque : 310 %  
 Breakdown torque : 290 %  
 Rated speed : 2810 rpm

Moment of inertia (J) : 0.0009 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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