

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Premium Efficiency Three-Phase Product code : 13997360

Frame	: W56J	Cooling method	: IC01 - ODP
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>2</sup>	: 8.8 kg
		Moment of inertia (J)	: 0.0010 kgm <sup>2</sup>

Output [HP]	1	1	1
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	3.26/1.63	3.60-3.11/1.80	1.88
L. R. Amperes [A]	27.1/13.5	25.2-21.8/12.6	13.9
LRC [A]	8.3x(Code M)	7.0x(Code K)	7.4x(Code L)
No load current [A]	2.00/1.00	2.00-1.73/1.00	1.40
Rated speed [RPM]	3450	2820	2850
Slip [%]	4.17	6.00	5.00
Rated torque [kgfm]	0.210	0.257	0.255
Locked rotor torque [%]	400	340	409
Breakdown torque [%]	409	320	390
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	23s (cold) 13s (hot)	23s (cold) 13s (hot)	18s (cold) 10s (hot)
Noise level <sup>2</sup>	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	70.0	68.0
	75%	75.5	74.0
	100%	77.0	76.0
Power Factor	25%		
	50%	0.55	0.49
	75%	0.68	0.63
	100%	0.75	0.73

Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads	
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 27 kgf
Lubrication interval	: - -	Max. compression	: 36 kgf
Lubricant amount	: - -		
Lubricant type	: Mobil Polyrex EM		

Notes  
USABLE @208V 3.60A SF 1.00 SFA 3.60A

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

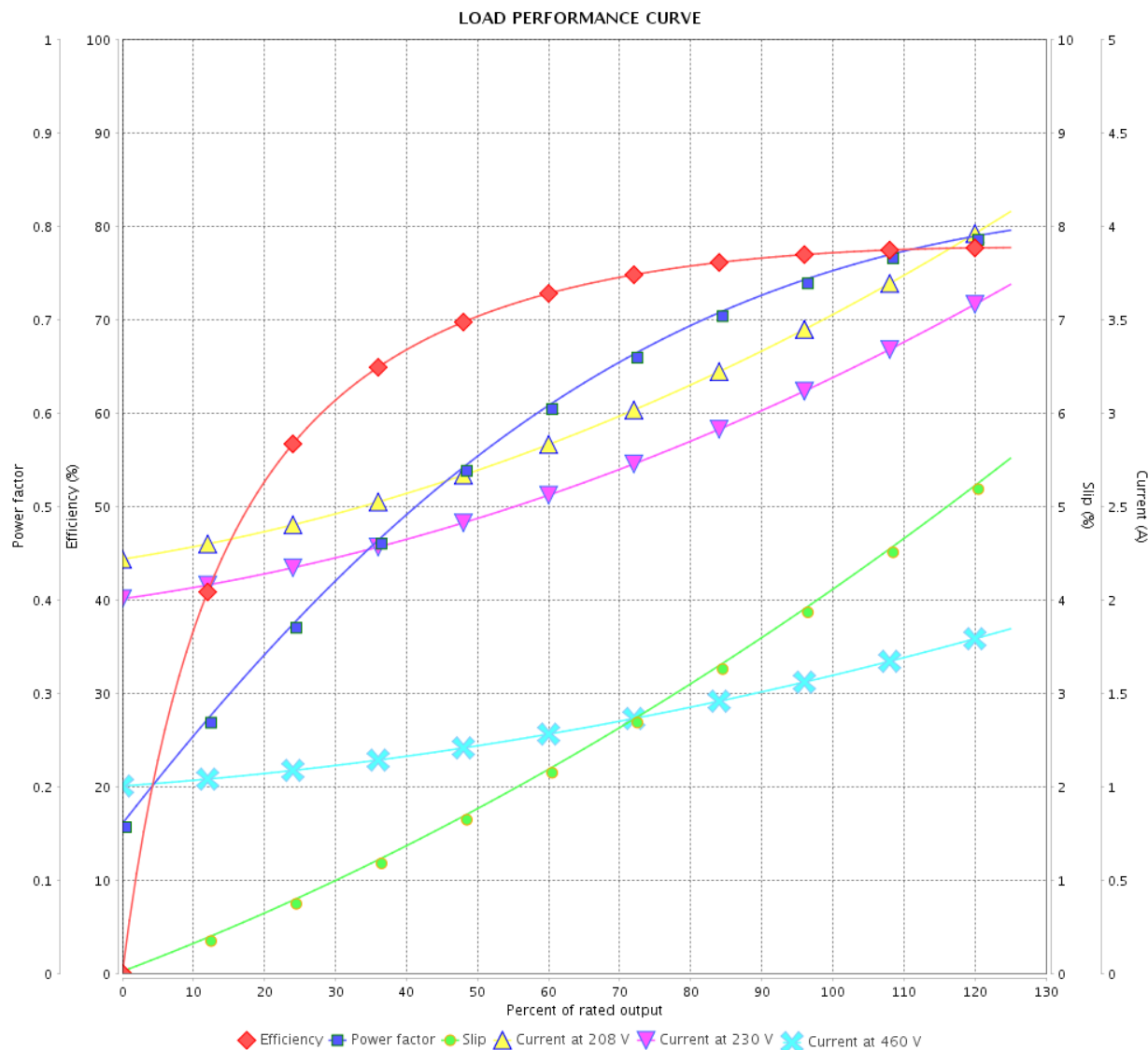
## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 13997360



Performance : 230/460 V 60 Hz 2P

Rated current : 3.26/1.63 A  
 LRC : 8.3  
 Rated torque : 0.210 kgfm  
 Locked rotor torque : 400 %  
 Breakdown torque : 409 %  
 Rated speed : 3450 rpm

Moment of inertia (J) : 0.0010 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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# LOAD PERFORMANCE CURVE

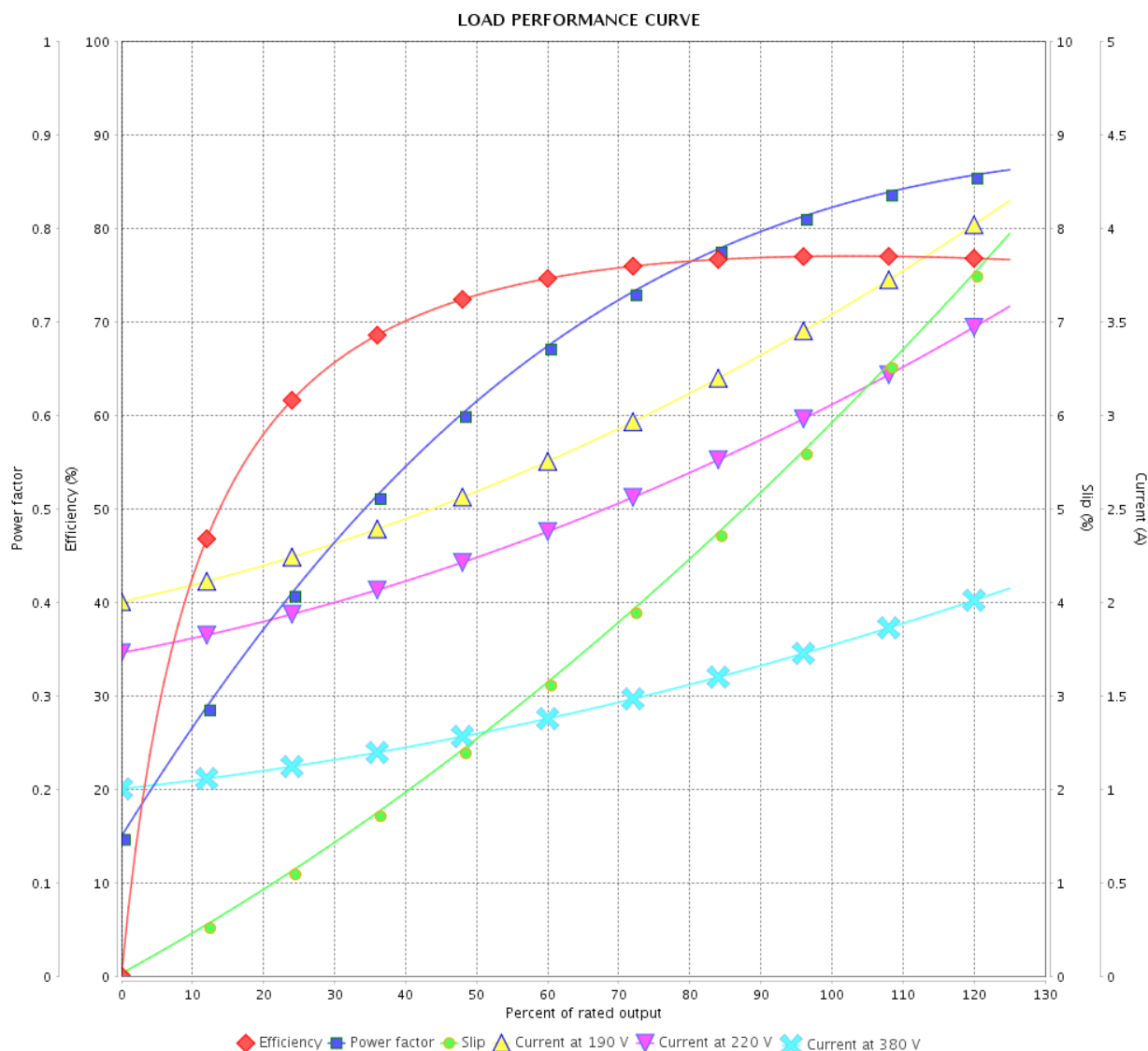
## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 13997360



Performance : 190-220/380 V 50 Hz 2P

Rated current : 3.60-3.11/1.80 A  
LRC : 7.0  
Rated torque : 0.257 kgfm  
Locked rotor torque : 340 %  
Breakdown torque : 320 %  
Rated speed : 2820 rpm

Moment of inertia (J) : 0.0010 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

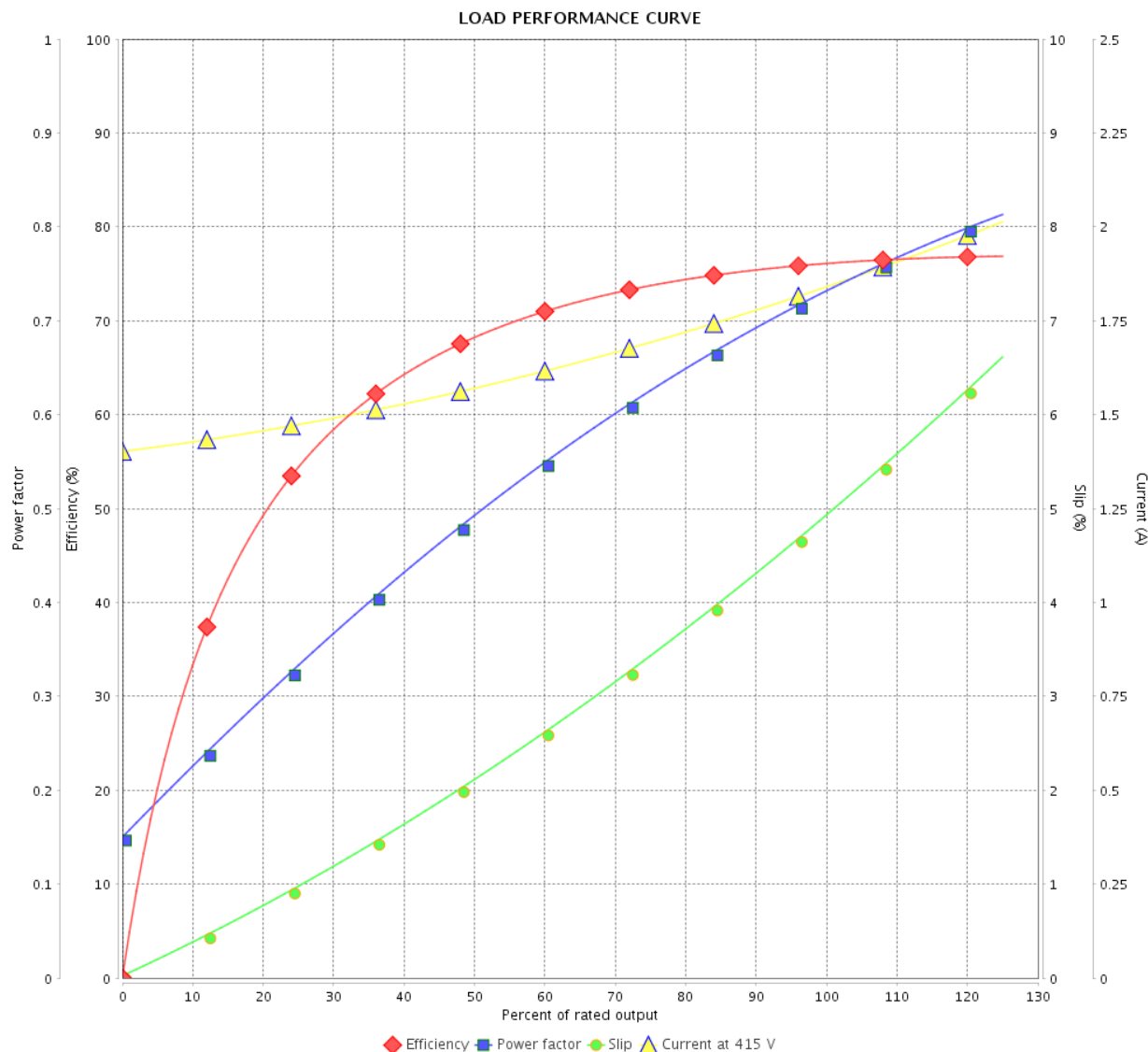
## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 13997360



Performance : 415 V 50 Hz 2P

Rated current : 1.88 A  
LRC : 7.4  
Rated torque : 0.255 kgfm  
Locked rotor torque : 409 %  
Breakdown torque : 390 %  
Rated speed : 2850 rpm

Moment of inertia (J) : 0.0010 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K

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