

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase Product code : 13961579

Frame	: 56J	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>3</sup>	: 18.3 kg
Design	: A	Moment of inertia (J)	: 0.0054 kgm <sup>2</sup>

Output [HP]	3	3	3
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.18/3.59	8.78/4.39	7.83/4.15
L. R. Amperes [A]	57.4/28.7	53.6/26.8	53.2/28.2
LRC [A]	8.0x(Code J)	6.1x(Code G)	6.8x(Code H)
No load current [A]	2.60/1.30	2.60/1.30	2.71/1.44
Rated speed [RPM]	3480	2825	2840
Slip [%]	3.33	5.83	5.33
Rated torque [kgfm]	0.626	0.771	0.767
Locked rotor torque [%]	229	190	220
Breakdown torque [%]	300	229	250
Service factor		1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	16s (cold) 9s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)
Noise level <sup>2</sup>	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	84.0	86.6
	75%	85.5	85.0
	100%	85.5	81.8
Power Factor	25%		
	50%	0.76	0.83
	75%	0.86	0.90
	100%	0.90	0.93

Bearing type	: Drive end	Non drive end	Foundation loads
	: 6203 2RS	6202 2RS	
Sealing	: Without	Without	Max. traction : 52 kgf
	: Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	Max. compression : 71 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

### Notes

USABLE @208V 7.94A SF 1.00 SFA 7.94A

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

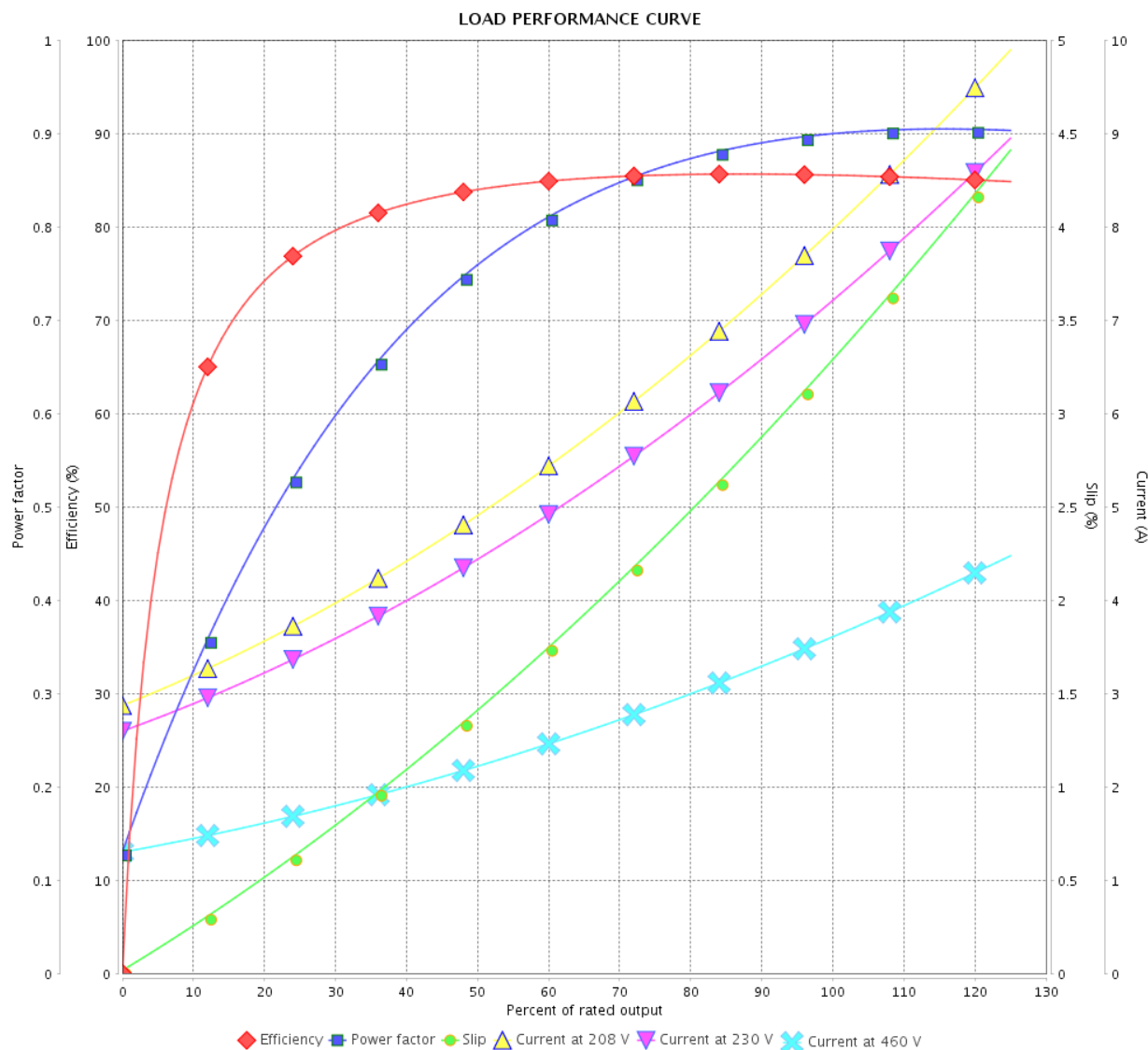
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase

Product code : 13961579



Performance : 230/460 V 60 Hz 2P

Rated current : 7.18/3.59 A  
 LRC : 8.0  
 Rated torque : 0.626 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 300 %  
 Rated speed : 3480 rpm

Moment of inertia (J) : 0.0054 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : A

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# LOAD PERFORMANCE CURVE

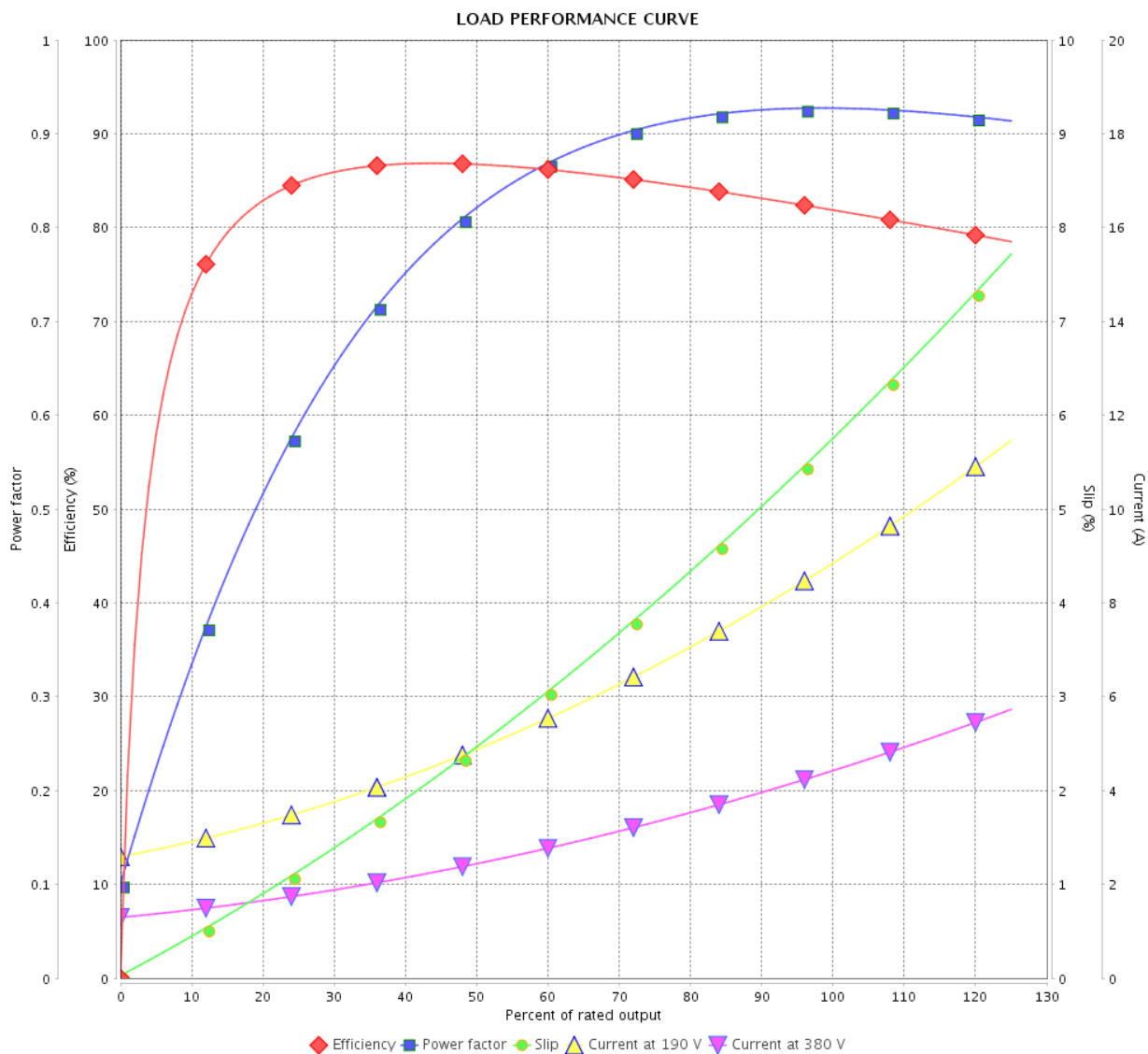
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase

Product code : 13961579



Performance : 190/380 V 50 Hz 2P

Rated current : 8.78/4.39 A  
 LRC : 6.1  
 Rated torque : 0.771 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 229 %  
 Rated speed : 2825 rpm

Moment of inertia (J) : 0.0054 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : A

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# LOAD PERFORMANCE CURVE

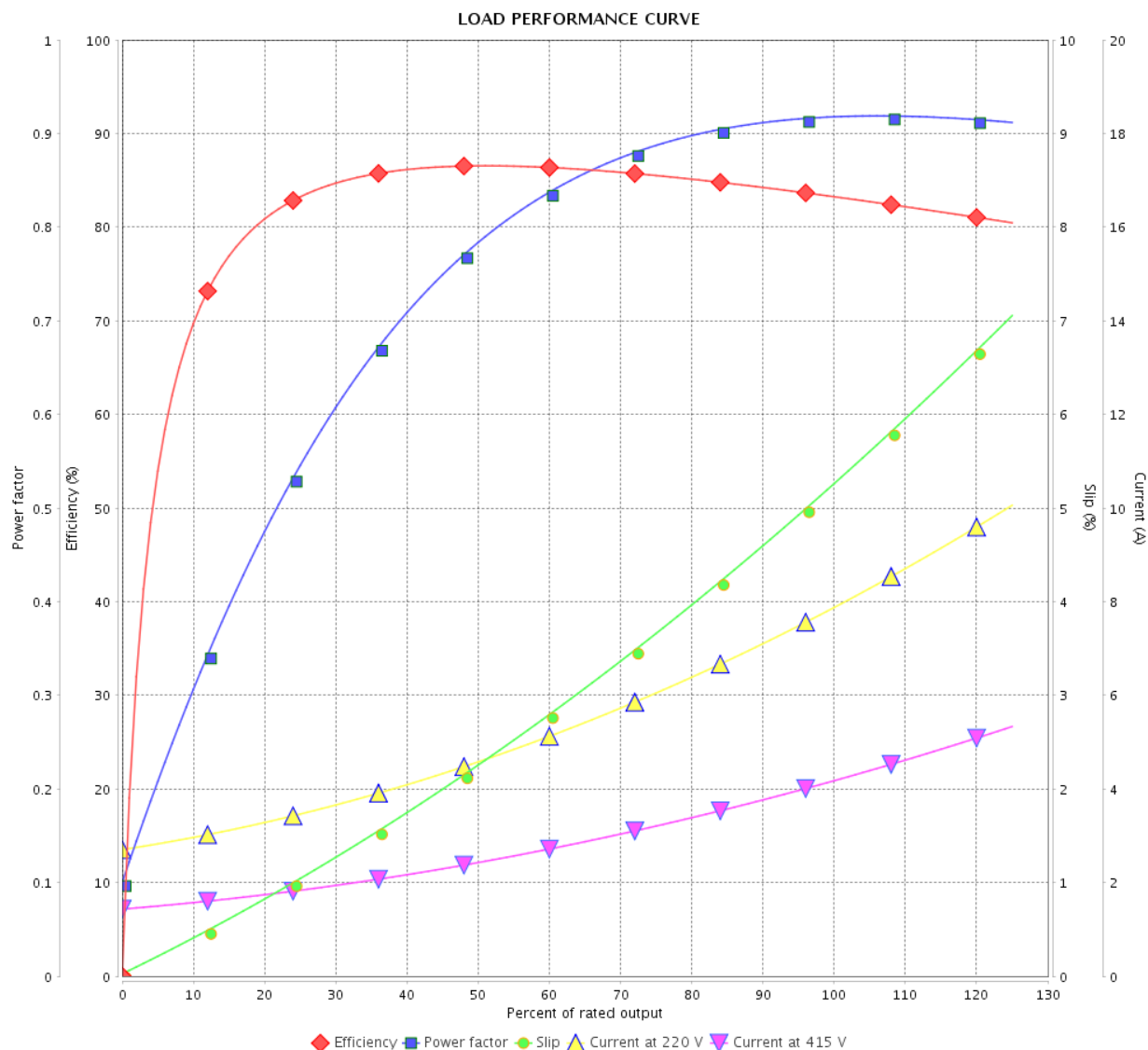
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase

Product code : 13961579



Performance : 220/415 V 50 Hz 2P

Rated current : 7.83/4.15 A  
 LRC : 6.8  
 Rated torque : 0.767 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 250 %  
 Rated speed : 2840 rpm

Moment of inertia (J) : 0.0054 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : A

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