

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase Product code : 14103892

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>	: 18.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0055 kgm <sup>2</sup>
Design	: B		

Output [HP]	2	2	2
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	5.44/2.72	6.50/3.25	5.79/3.07
L. R. Amperes [A]	44.6/22.3	39.0/19.5	41.1/21.8
LRC [A]	8.2x(Code K)	6.0x(Code H)	7.1x(Code J)
No load current [A]	2.80/1.40	2.75/1.37	3.09/1.64
Rated speed [RPM]	1745	1415	1435
Slip [%]	3.06	5.67	4.33
Rated torque [kgfm]	0.832	1.03	1.01
Locked rotor torque [%]	270	210	270
Breakdown torque [%]	300	240	300
Service factor		1.15	1.00
Temperature rise	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	85.5	84.2
	75%	87.5	85.1
	100%	86.5	84.0
Power Factor	25%		
	50%	0.60	0.60
	75%	0.73	0.73
	100%	0.80	0.81

	Drive end	Non drive end	Foundation loads
Bearing type	: 6203 ZZ	6202 ZZ	Max. traction : 88 kgf
Sealing	: V'Ring	V'Ring	Max. compression : 107 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

### Notes

USABLE @208V 6.02A SF 1.00 SFA 6.02A

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

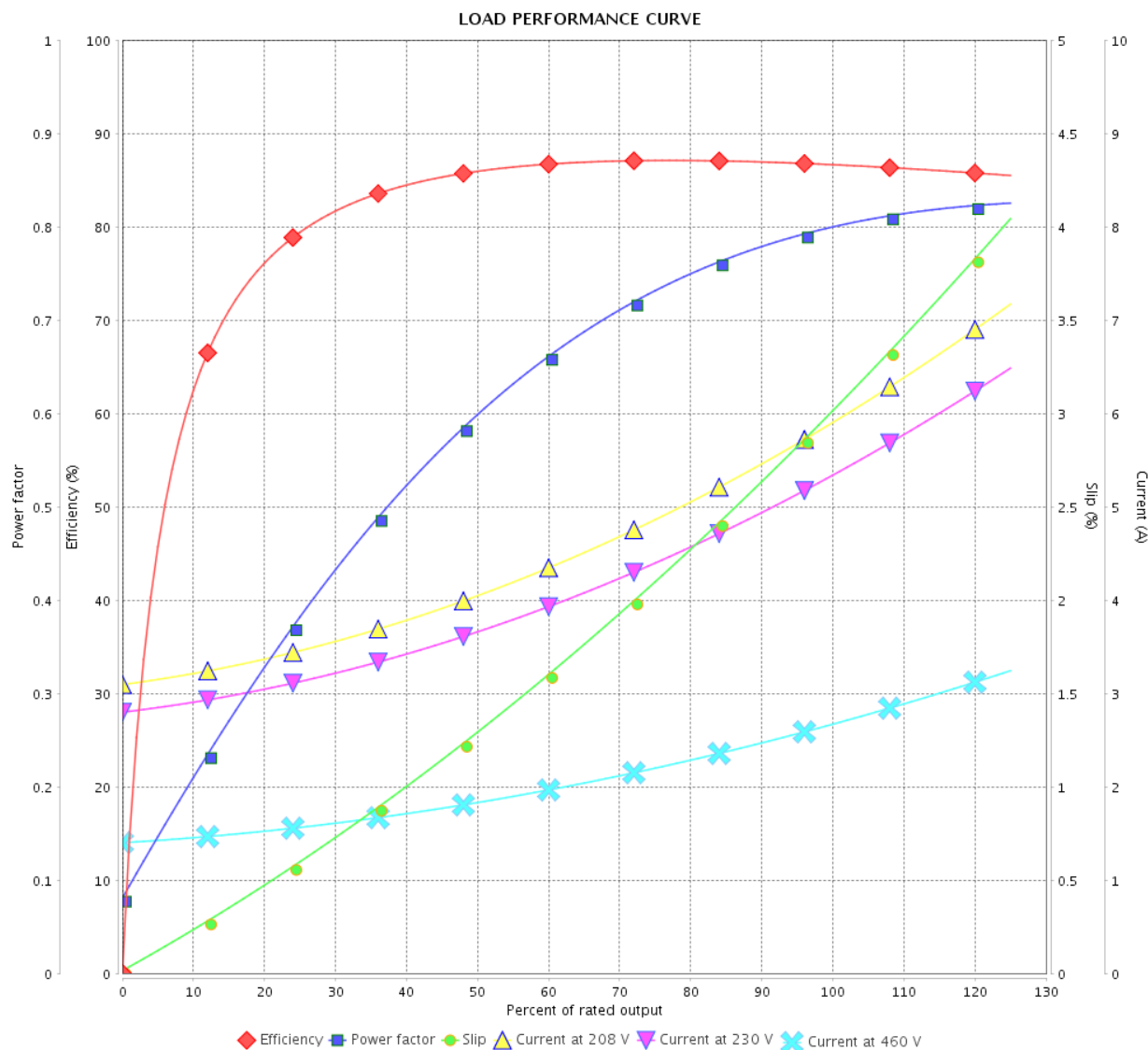
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase

Product code : 14103892



Performance : 230/460 V 60 Hz 4P

Rated current : 5.44/2.72 A  
 LRC : 8.2  
 Rated torque : 0.832 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 300 %  
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0055 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

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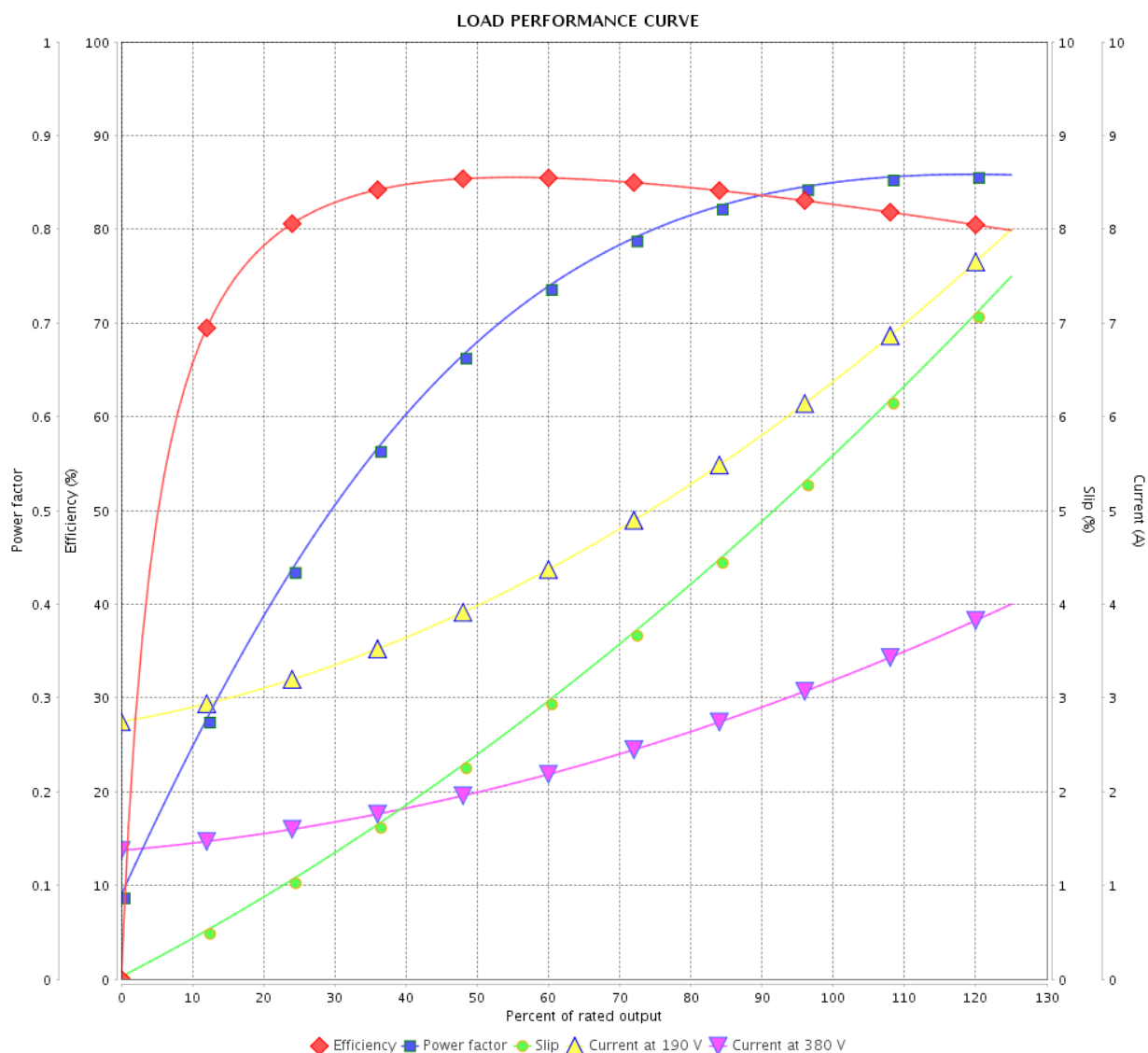
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase

Product code : 14103892



Performance : 190/380 V 50 Hz 4P

Rated current : 6.50/3.25 A  
 LRC : 6.0  
 Rated torque : 1.03 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 240 %  
 Rated speed : 1415 rpm

Moment of inertia (J) : 0.0055 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

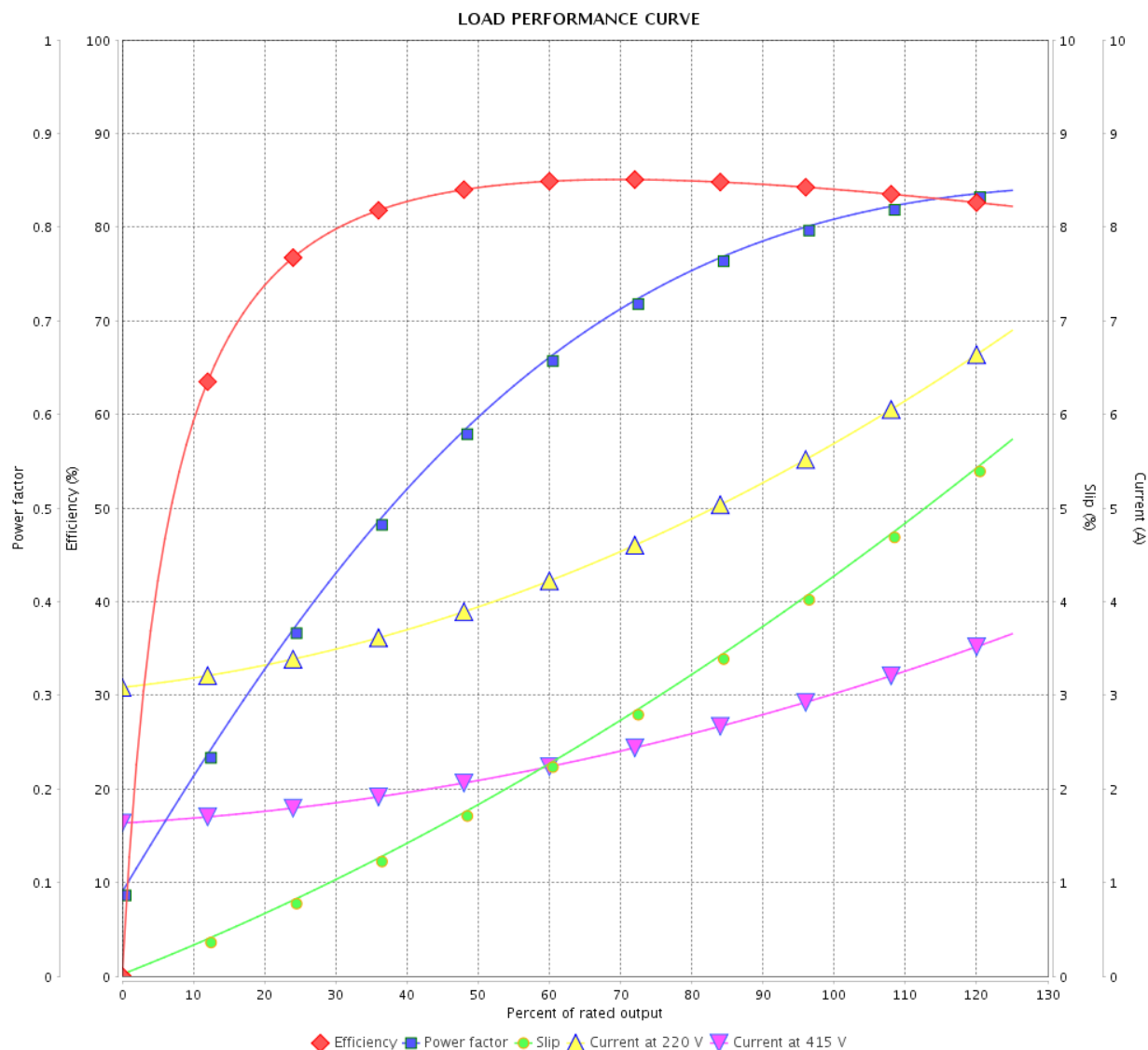
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase

Product code : 14103892



Performance : 220/415 V 50 Hz 4P

Rated current : 5.79/3.07 A  
 LRC : 7.1  
 Rated torque : 1.01 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 300 %  
 Rated speed : 1435 rpm

Moment of inertia (J) : 0.0055 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

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