

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Jet Pump - J type Three-Phase	Product code :	13721961	
Frame	: 56J	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>2</sup>	: 21.7 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0070 kgm <sup>2</sup>		
Design	: B				
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]	7.02/3.51	8.50/4.25	7.38/3.91		
L. R. Amperes [A]	66.7/33.3	62.9/31.5	65.6/34.8		
LRC [A]	9.5x(Code L)	7.4x(Code J)	8.9x(Code K)		
No load current [A]	2.56/1.28	2.52/1.26	2.72/1.44		
Rated speed [RPM]	3500	2870	2895		
Slip [%]	2.78	4.33	3.50		
Rated torque [kgfm]	0.621	0.759	0.752		
Locked rotor torque [%]	300	229	290		
Breakdown torque [%]	380	280	340		
Service factor		1.15	1.15		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	18s (cold) 10s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)		
Noise level <sup>2</sup>	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)		
Efficiency (%)	25%				
	50%	84.0	86.6	86.2	
	75%	86.5	86.4	87.0	
	100%	86.5	84.6	86.0	
Power Factor	25%				
	50%	0.78	0.83	0.78	
	75%	0.87	0.90	0.87	
	100%	0.91	0.93	0.91	
Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads			
Sealing	: V'Ring V'Ring	Max. traction	: 71 kgf		
Lubrication interval	: - -	Max. compression	: 93 kgf		
Lubricant amount	: - -				
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 7.76A SF 1.00 SFA 7.76A					
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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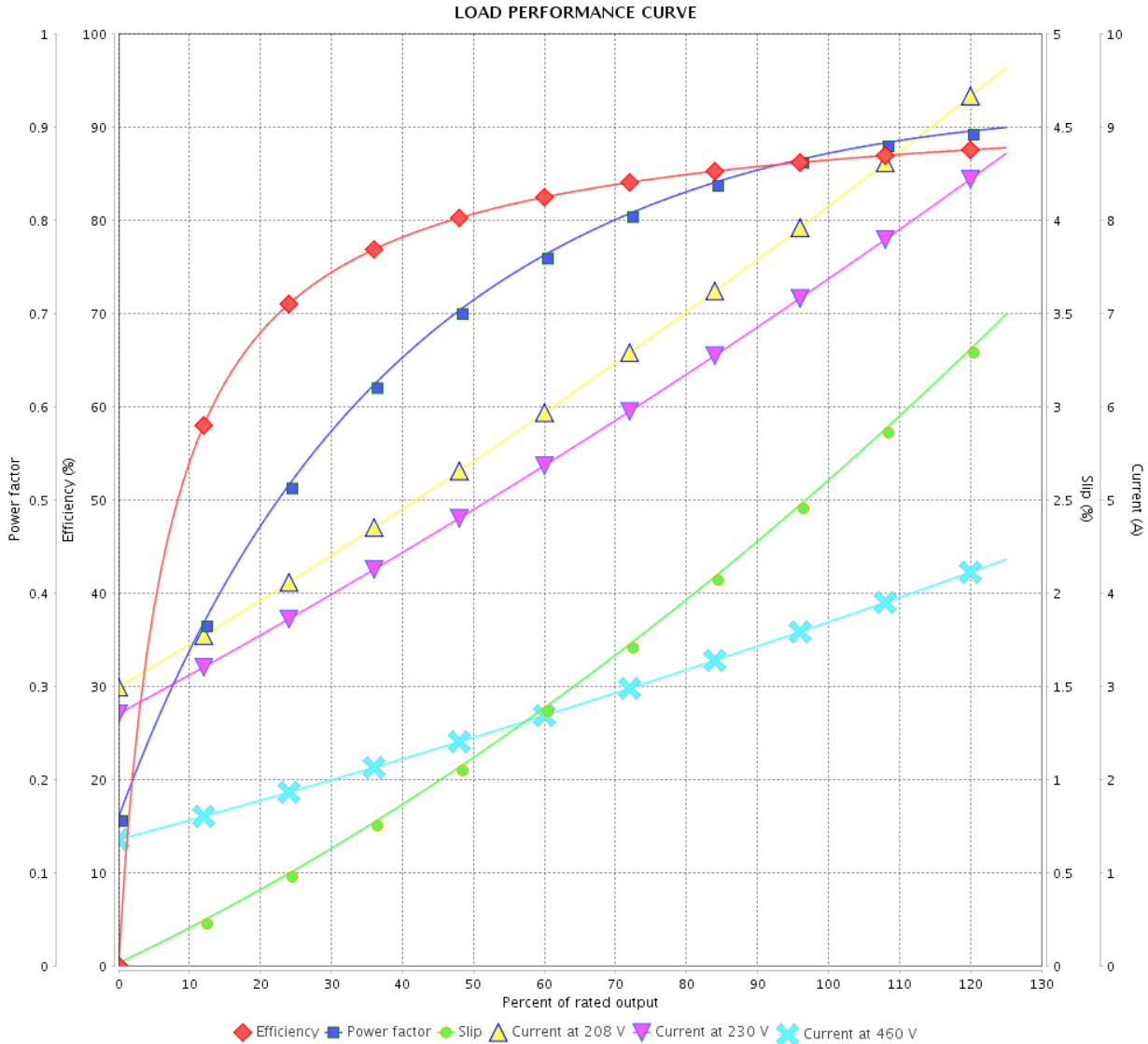
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase      Product code : 13721961



Performance : 230/460 V 60 Hz 2P

Rated current : 7.02/3.51 A  
 LRC : 9.5  
 Rated torque : 0.621 kgfm  
 Locked rotor torque : 300 %  
 Breakdown torque : 380 %  
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0070 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

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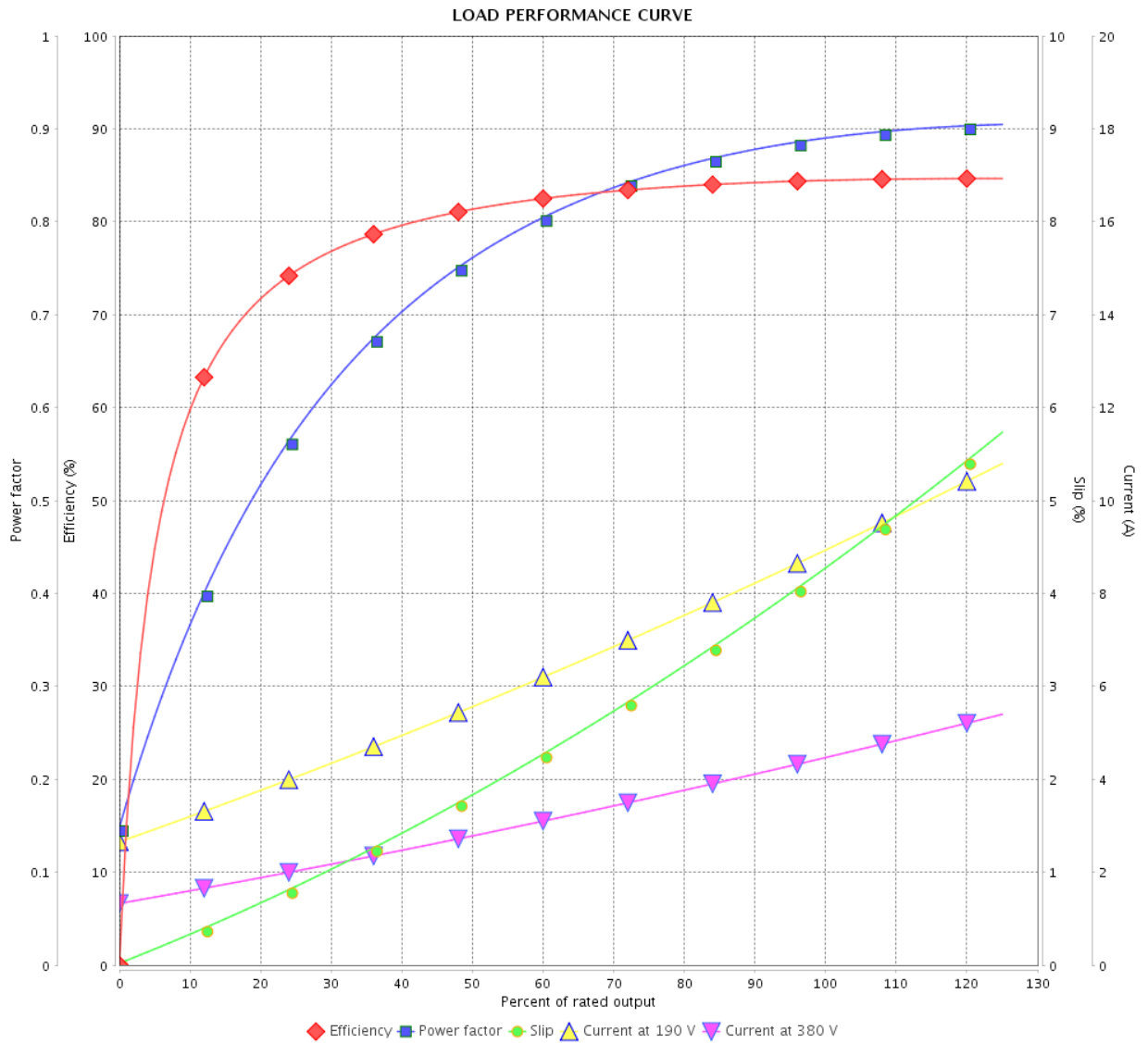
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase Product code : 13721961



Performance : 190/380 V 50 Hz 2P

Rated current : 8.50/4.25 A  
 LRC : 7.4  
 Rated torque : 0.759 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 280 %  
 Rated speed : 2870 rpm

Moment of inertia (J) : 0.0070 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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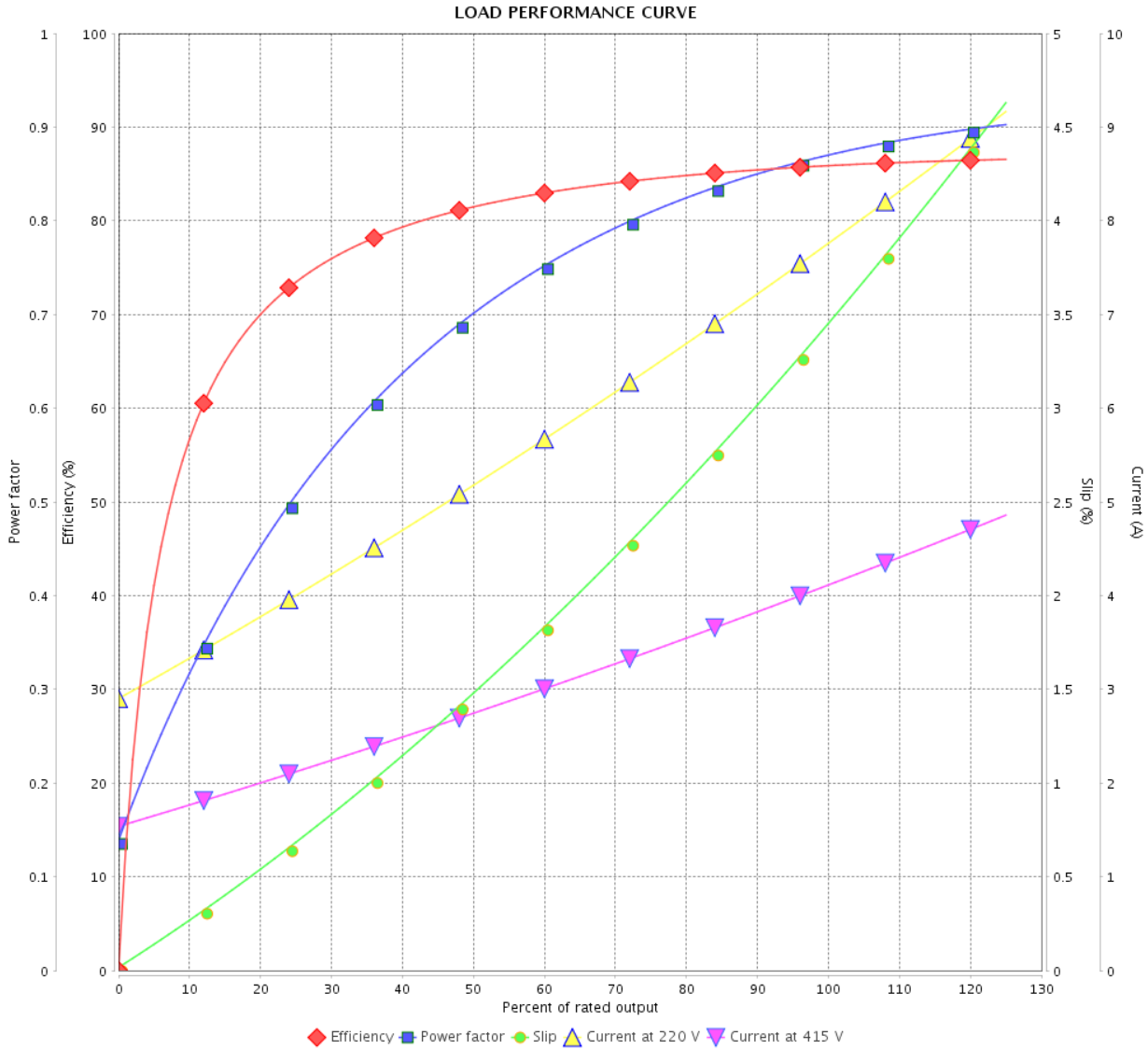
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase      Product code : 13721961



Performance : 220/415 V 50 Hz 2P

Rated current : 7.38/3.91 A  
 LRC : 8.9  
 Rated torque : 0.752 kgfm  
 Locked rotor torque : 290 %  
 Breakdown torque : 340 %  
 Rated speed : 2895 rpm

Moment of inertia (J) : 0.0070 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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