

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :	
Product line	: Jet Pump - J type Three-Phase
Product code :	13721905
Frame	: 56J
Insulation class	: F
Duty cycle	: Cont.(S1)
Ambient temperature	: -20°C to +40°C
Altitude	: 1000 m.a.s.l.
Protection degree	: IP55
Design	: B
Cooling method	: IC411 - TEFC
Mounting	: W-6
Rotation <sup>1</sup>	: CCW
Starting method	: Direct On Line
Approx. weight <sup>2</sup>	: 17.4 kg
Moment of inertia (J)	: 0.0054 kgm <sup>2</sup>
Output [HP]	2
Poles	2
Frequency [Hz]	60
Rated voltage [V]	230/460
Rated current [A]	4.94/2.47
L. R. Amperes [A]	48.9/24.5
LRC [A]	9.9x(Code L)
No load current [A]	2.13/1.06
Rated speed [RPM]	3520
Slip [%]	2.22
Rated torque [kgfm]	0.412
Locked rotor torque [%]	250
Breakdown torque [%]	300
Service factor	1.15
Temperature rise	80 K
Locked rotor time	23s (cold) 13s (hot)
Noise level <sup>2</sup>	68.0 dB(A)
Efficiency (%)	25%
	50%
	75%
	100%
Power Factor	25%
	50%
	75%
	100%
Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS
Sealing	: V'Ring V'Ring
Lubrication interval	: - -
Lubricant amount	: - -
Lubricant type	: Mobil Polyrex EM
Foundation loads	Max. traction : 46 kgf
	Max. compression : 63 kgf
Notes USABLE @208V 5.46A SF 1.00 SFA 5.46A	
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

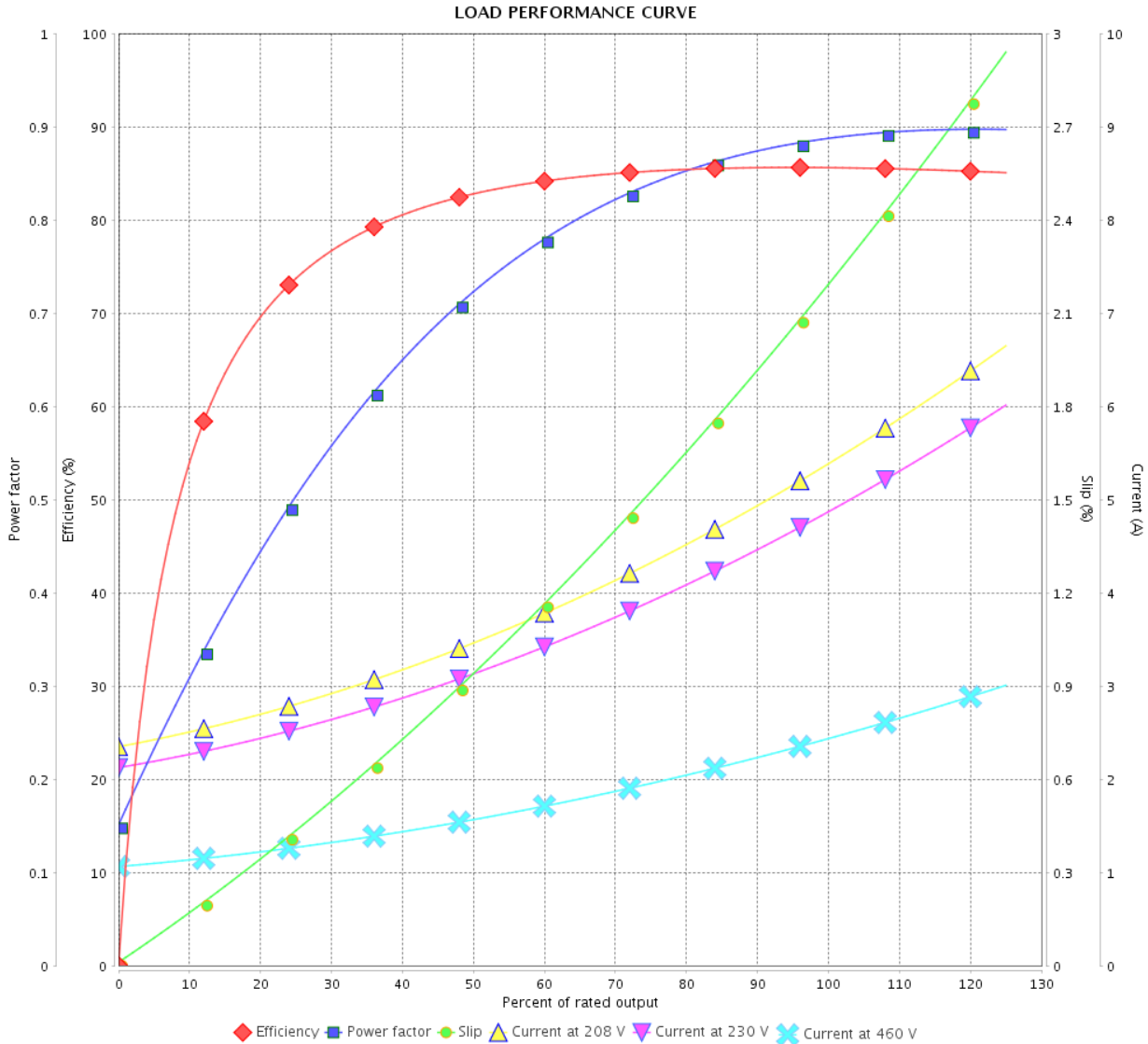
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase

Product code : 13721905



Performance : 230/460 V 60 Hz 2P

Rated current : 4.94/2.47 A  
 LRC : 9.9  
 Rated torque : 0.412 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 300 %  
 Rated speed : 3520 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 : B

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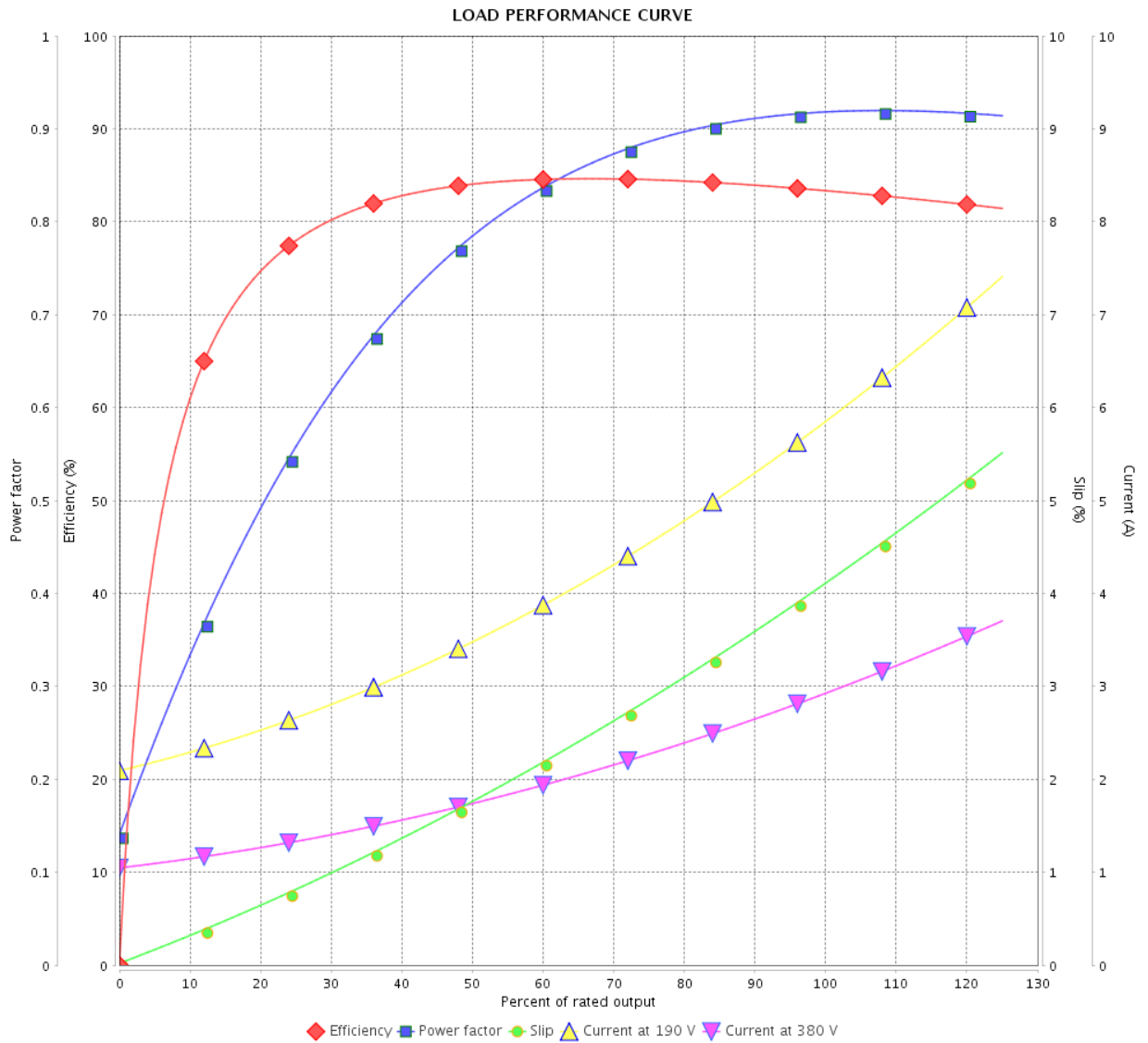
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Jet Pump - J type Three-Phase      Product code : 13721905



Performance : 190/380 V 50 Hz 2P

Rated current : 5.94/2.97 A  
 LRC : 7.4  
 Rated torque : 0.505 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 280 %  
 Rated speed : 2875 rpm

Moment of inertia (J) : 0.0054 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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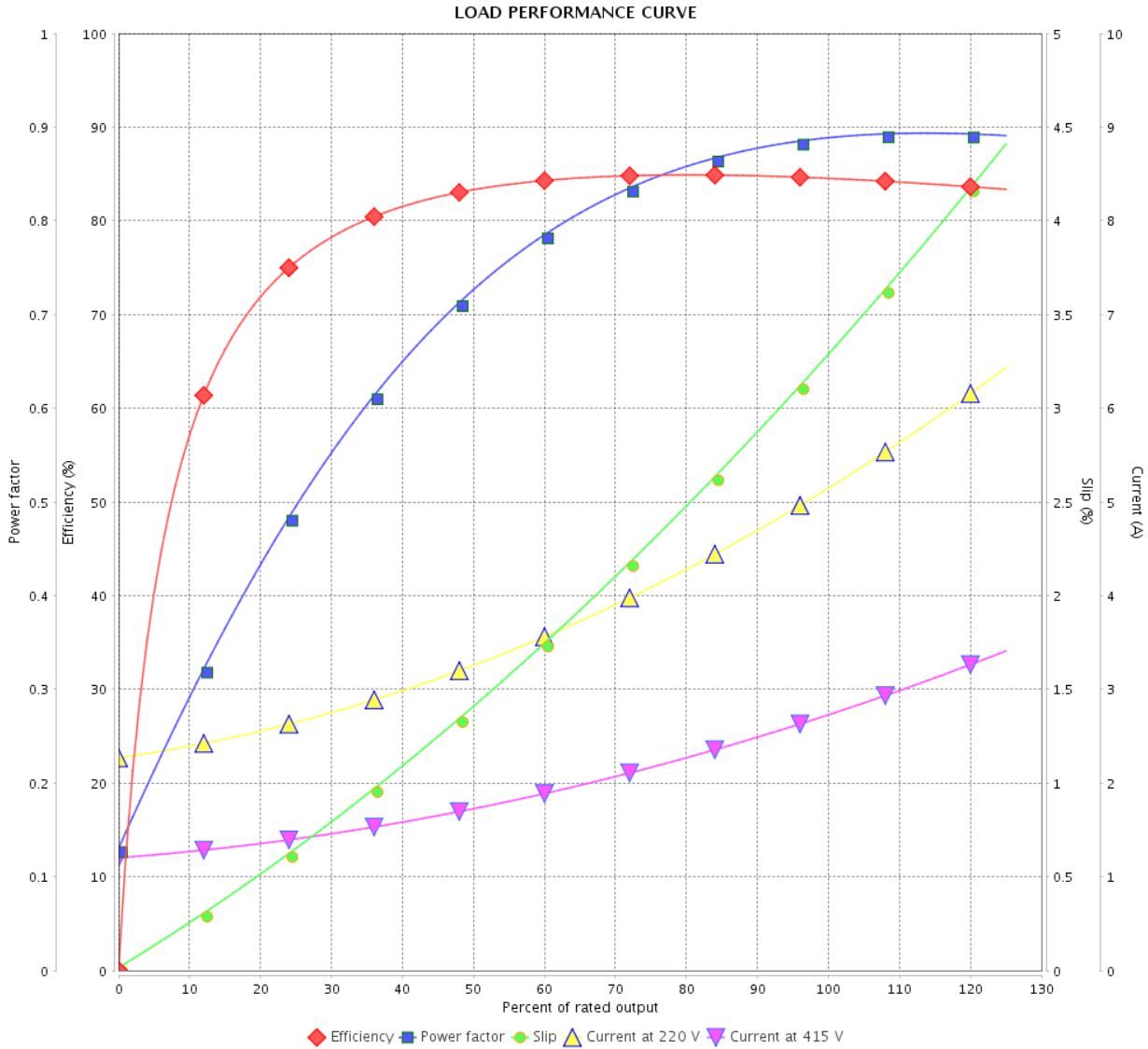
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase      Product code : 13721905



Performance : 220/415 V 50 Hz 2P

Rated current : 5.23/2.77 A  
 LRC : 8.8  
 Rated torque : 0.501 kgfm  
 Locked rotor torque : 280 %  
 Breakdown torque : 340 %  
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0054 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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