

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :	
Product line	: Jet Pump - J type Three-Phase
Product code :	13968085
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
Cooling method	: IC411 - TEFC
Mounting	: F-1
Rotation <sup>1</sup>	: CCW
Starting method	: Direct On Line
Approx. weight <sup>3</sup>	: 12.2 kg
Moment of inertia (J)	: 0.0036 kgm <sup>2</sup>
Output [HP]	0.75
Poles	4
Frequency [Hz]	60
Rated voltage [V]	208-230/460
Rated current [A]	2.63-2.38/1.19
L. R. Amperes [A]	20.3-18.3/9.16
LRC [A]	7.7x(Code L)
No load current [A]	1.42-1.64/0.822
Rated speed [RPM]	1760
Slip [%]	2.22
Rated torque [kgfm]	0.309
Locked rotor torque [%]	240
Breakdown torque [%]	360
Service factor	
Temperature rise	80 K
Locked rotor time	28s (cold) 16s (hot)
Noise level <sup>2</sup>	52.0 dB(A)
Efficiency (%)	25%
	50%
	75%
	100%
Power Factor	25%
	50%
	75%
	100%
Bearing type	: <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS
Sealing	: V'Ring V'Ring
Lubrication interval	: - -
Lubricant amount	: - -
Lubricant type	: Mobil Polyrex EM
Foundation loads	
Max. traction	: 31 kgf
Max. compression	: 43 kgf
Notes	
USABLE @208V SF 1.00	
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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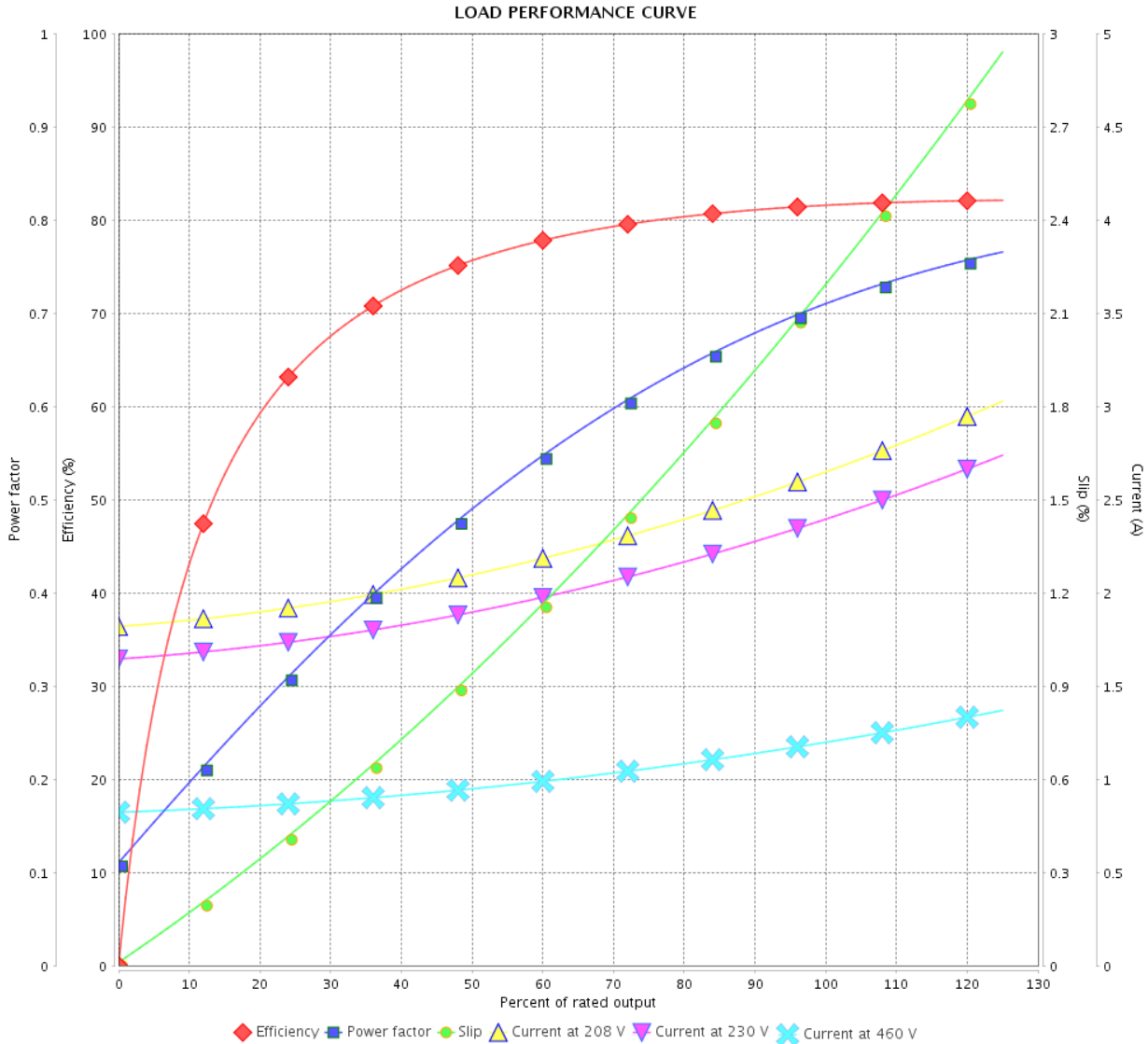
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase      Product code : 13968085



Performance : 208-230/460 V 60 Hz 4P

Rated current : 2.63-2.38/1.19 A  
 LRC : 7.7  
 Rated torque : 0.309 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 360 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0036 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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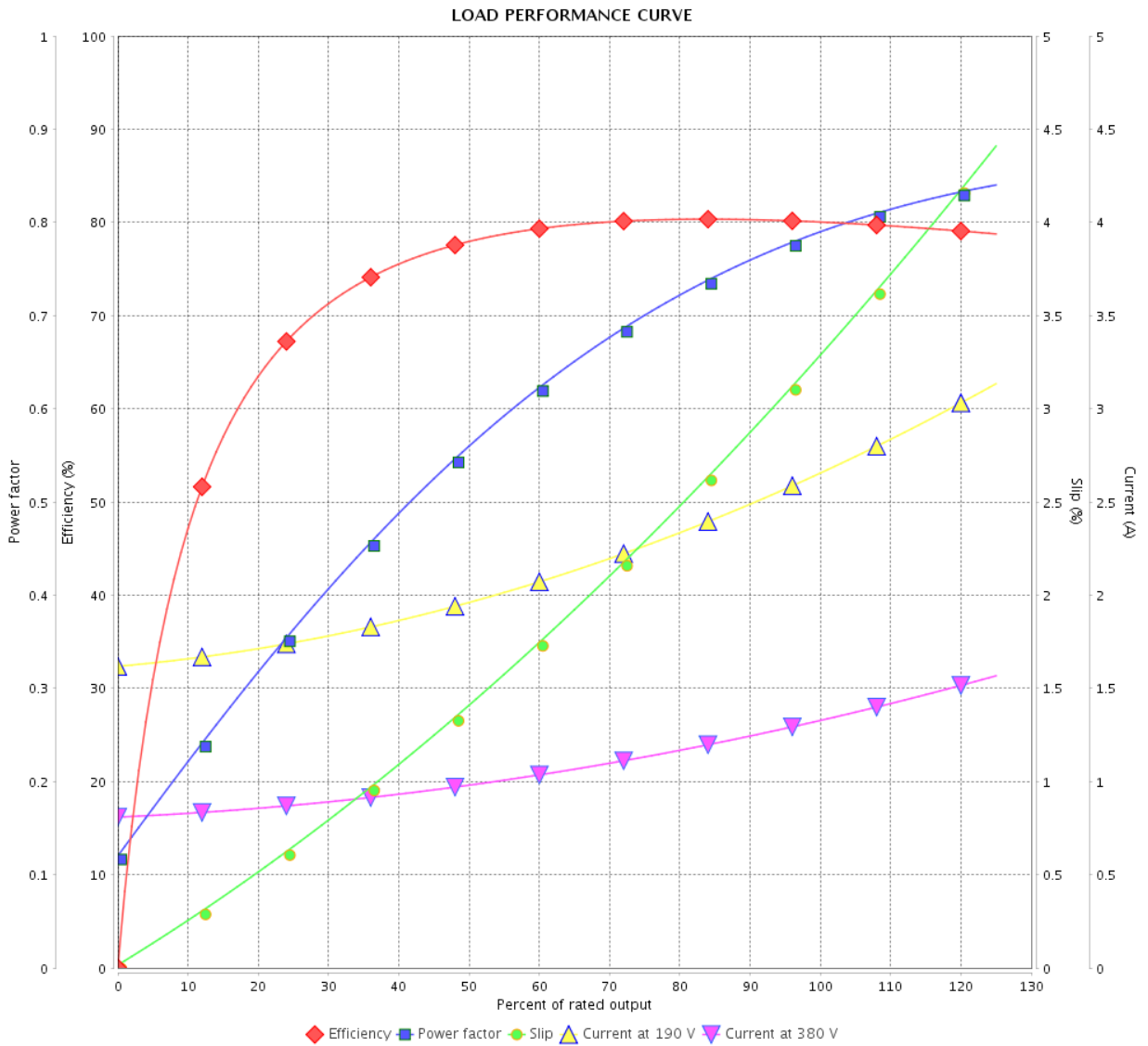
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase Product code : 13968085



Performance : 190/380 V 50 Hz 4P

Rated current : 2.64/1.32 A  
 LRC : 6.1  
 Rated torque : 0.375 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 250 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0036 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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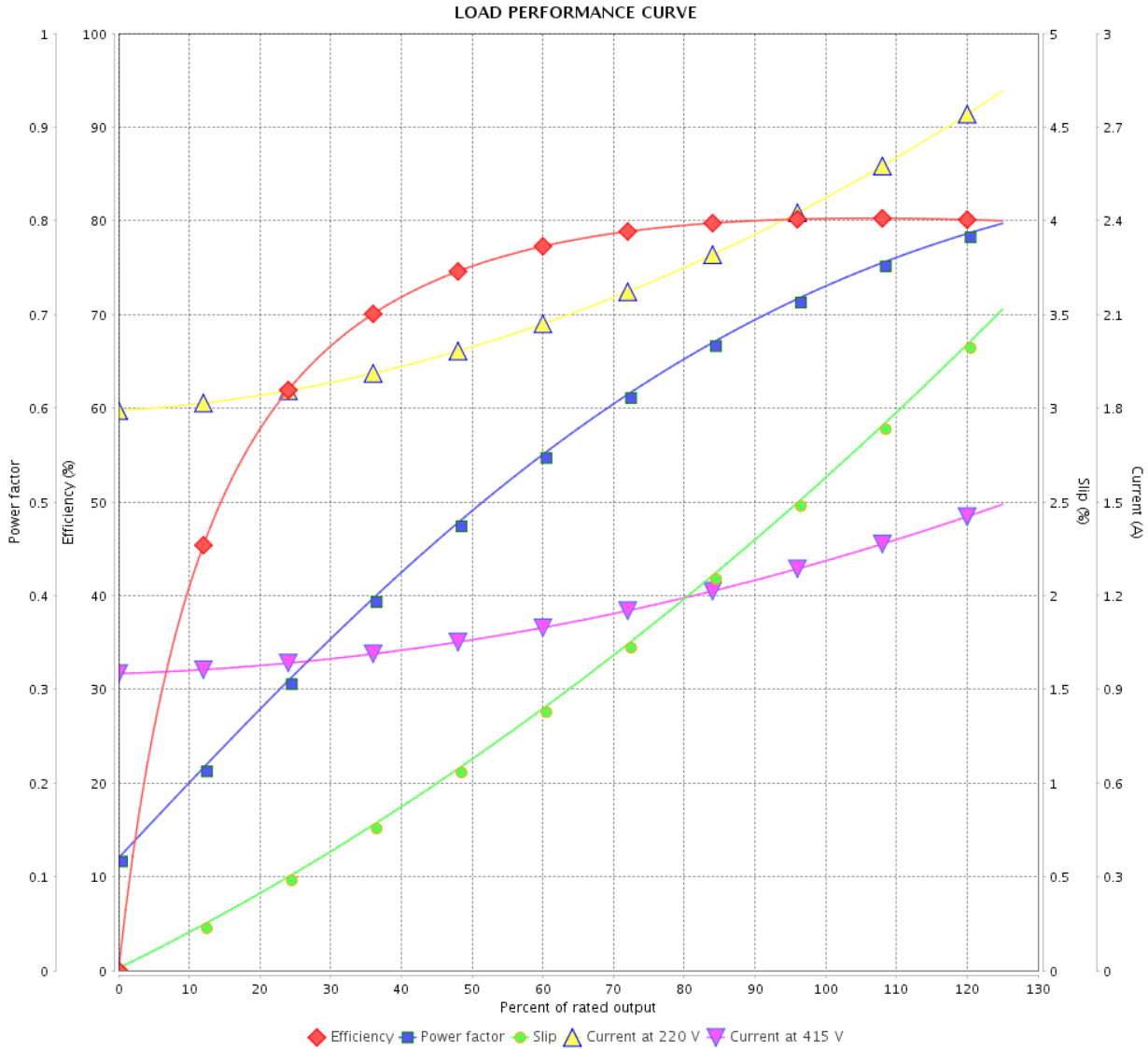
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase      Product code : 13968085



Performance : 220/415 V 50 Hz 4P

Rated current : 2.47/1.31 A  
 LRC : 6.8  
 Rated torque : 0.373 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 310 %  
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0036 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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