

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :	
Product line	: Jet Pump - J type Three-Phase
Product code :	13721750
Frame	: W56J
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	: W-6
Rotation <sup>1</sup>	: CCW
Starting method	: Direct On Line
Approx. weight <sup>2</sup>	: 7.9 kg
Moment of inertia (J)	: 0.0008 kgm <sup>2</sup>
Output [HP]	0.5
Poles	2
Frequency [Hz]	60
Rated voltage [V]	208-230/460
Rated current [A]	1.73-1.57/0.784
L. R. Amperes [A]	13.3-12.1/6.04
LRC [A]	7.7x(Code L)
No load current [A]	0.719-0.834/0.417
Rated speed [RPM]	3435
Slip [%]	4.58
Rated torque [kgfm]	0.106
Locked rotor torque [%]	330
Breakdown torque [%]	360
Service factor	
Temperature rise	80 K
Locked rotor time	32s (cold) 18s (hot)
Noise level <sup>2</sup>	65.0 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 : 8 kgf Max. compression : 16 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.	
Rev.	Changes Summary
Performed by	Performed
Checked by	Checked
Date	Date
16/05/2022	
Page	Revision
1 / 4	

# LOAD PERFORMANCE CURVE

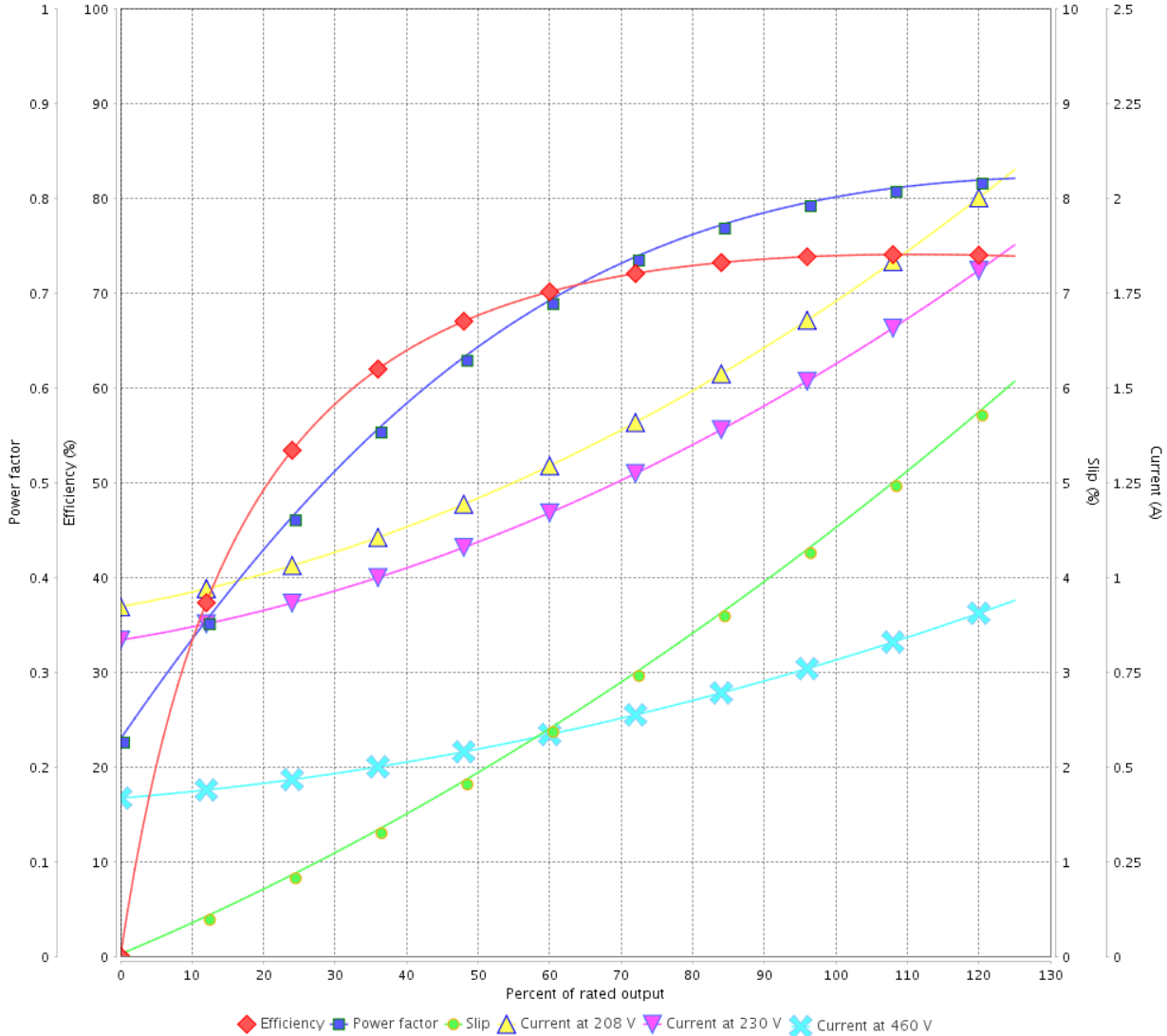
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase      Product code : 13721750

LOAD PERFORMANCE CURVE



Performance : 208-230/460 V 60 Hz 2P

Rated current : 1.73-1.57/0.784 A  
 LRC : 7.7  
 Rated torque : 0.106 kgfm  
 Locked rotor torque : 330 %  
 Breakdown torque : 360 %  
 Rated speed : 3435 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
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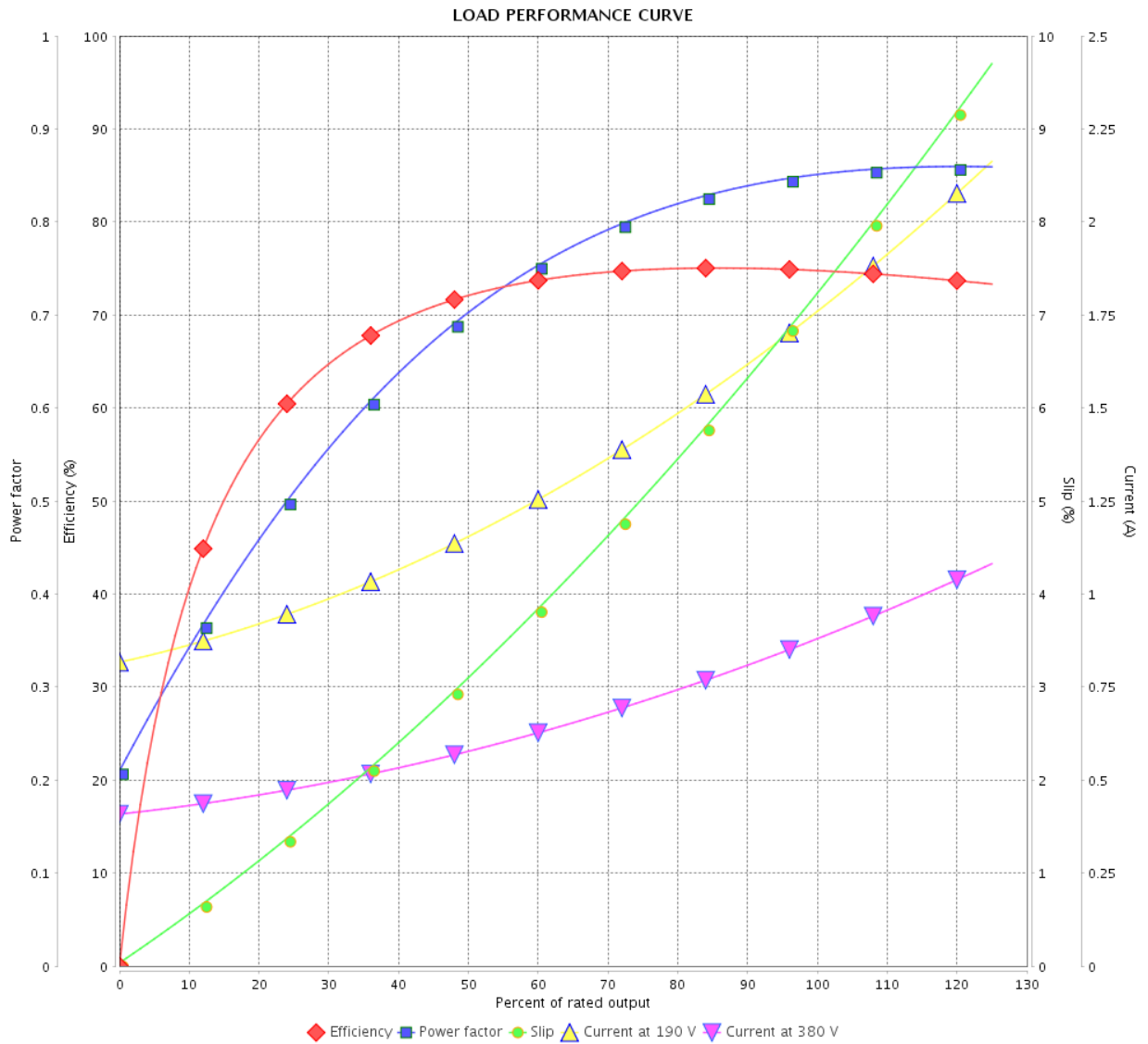
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase Product code : 13721750



Performance : 190/380 V 50 Hz 2P

Rated current : 1.77/0.885 A  
 LRC : 5.8  
 Rated torque : 0.131 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 250 %  
 Rated speed : 2780 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		3 / 4		
Date		16/05/2022		

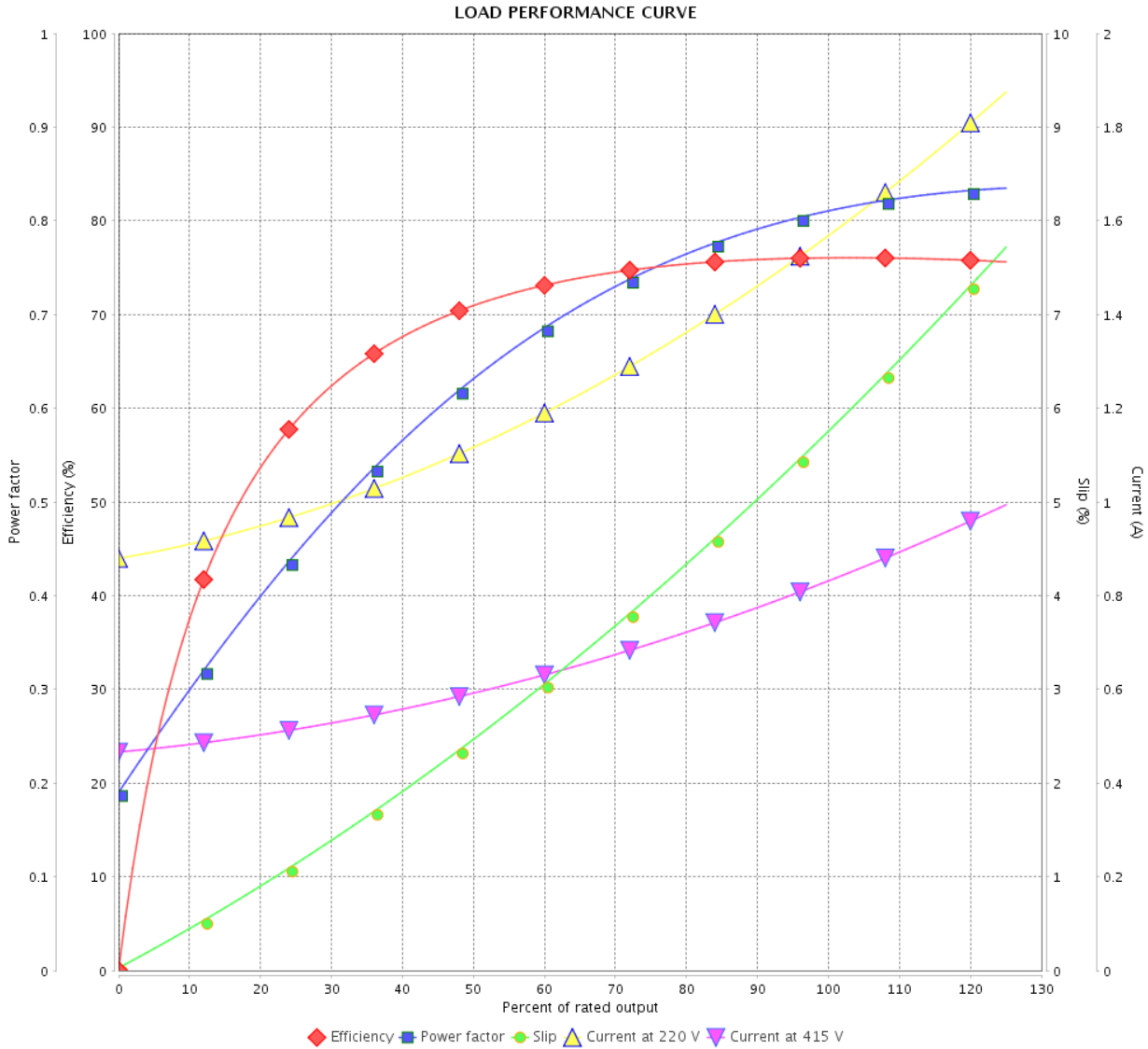
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase      Product code : 13721750



Performance : 220/415 V 50 Hz 2P

Rated current : 1.58/0.836 A  
 LRC : 6.8  
 Rated torque : 0.128 kgfm  
 Locked rotor torque : 300 %  
 Breakdown torque : 310 %  
 Rated speed : 2825 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 4	Revision
Checked by				
Date	16/05/2022			

