

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :			
Product line	: Jet Pump - C type Premium Efficiency Three-Phase	Product code :	14156820
Frame	: 56C	Cooling method	: IC01 - ODP
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>	: 16.6 kg
Design	: A	Moment of inertia (J)	: 0.0049 kgm <sup>2</sup>
Output [HP]	2	2	2
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	4.84/2.42	5.88/2.94	5.26/2.79
L. R. Amperes [A]	43.1/21.5	40.6/20.3	40.0/21.2
LRC [A]	8.9x(Code K)	6.9x(Code H)	7.6x(Code J)
No load current [A]	1.83/0.917	1.81/0.906	1.84/0.978
Rated speed [RPM]	3510	2890	2900
Slip [%]	2.50	3.67	3.33
Rated torque [kgfm]	0.414	0.502	0.501
Locked rotor torque [%]	220	180	200
Breakdown torque [%]	330	250	280
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level <sup>2</sup>	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	84.0	82.5
	75%	85.5	83.0
	100%	85.5	83.4
Power Factor	25%		
	50%	0.77	0.83
	75%	0.86	0.90
	100%	0.91	0.93
Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads	
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 36 kgf
		Max. compression	: 53 kgf
Lubrication interval	: - -		
Lubricant amount	: - -		
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 5.35A SF 1.00 SFA 5.35A			
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	Checked
Performed by			
Checked by			
Date	11/05/2022		
		Page	Revision
		1 / 4	

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

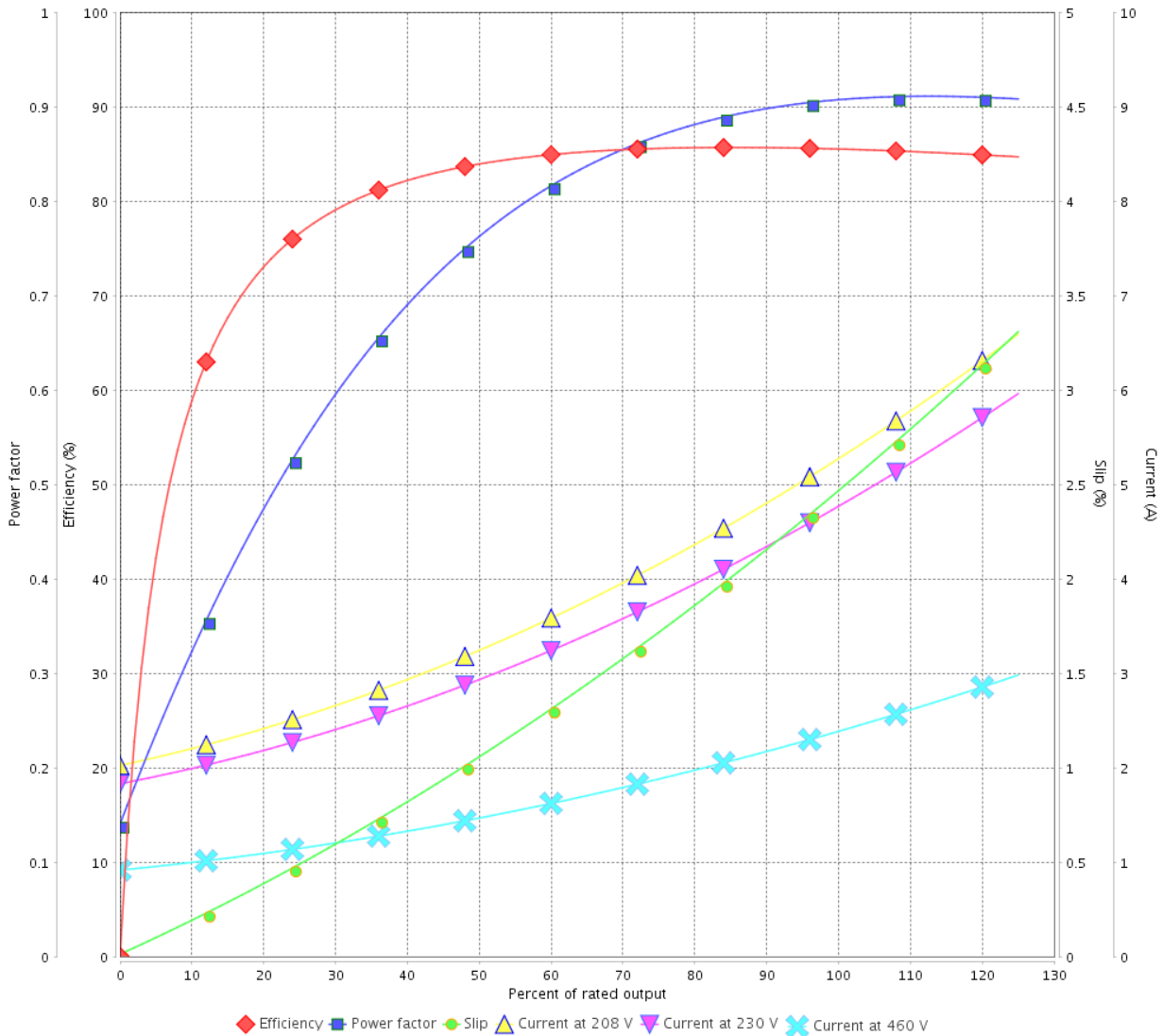


Customer :

Product line : Jet Pump - C type Premium  
Efficiency Three-Phase

Product code : 14156820

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 4.84/2.42 A  
 LRC : 8.9  
 Rated torque : 0.414 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 330 %  
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.0049 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 4	Revision
Checked by				
Date	11/05/2022			

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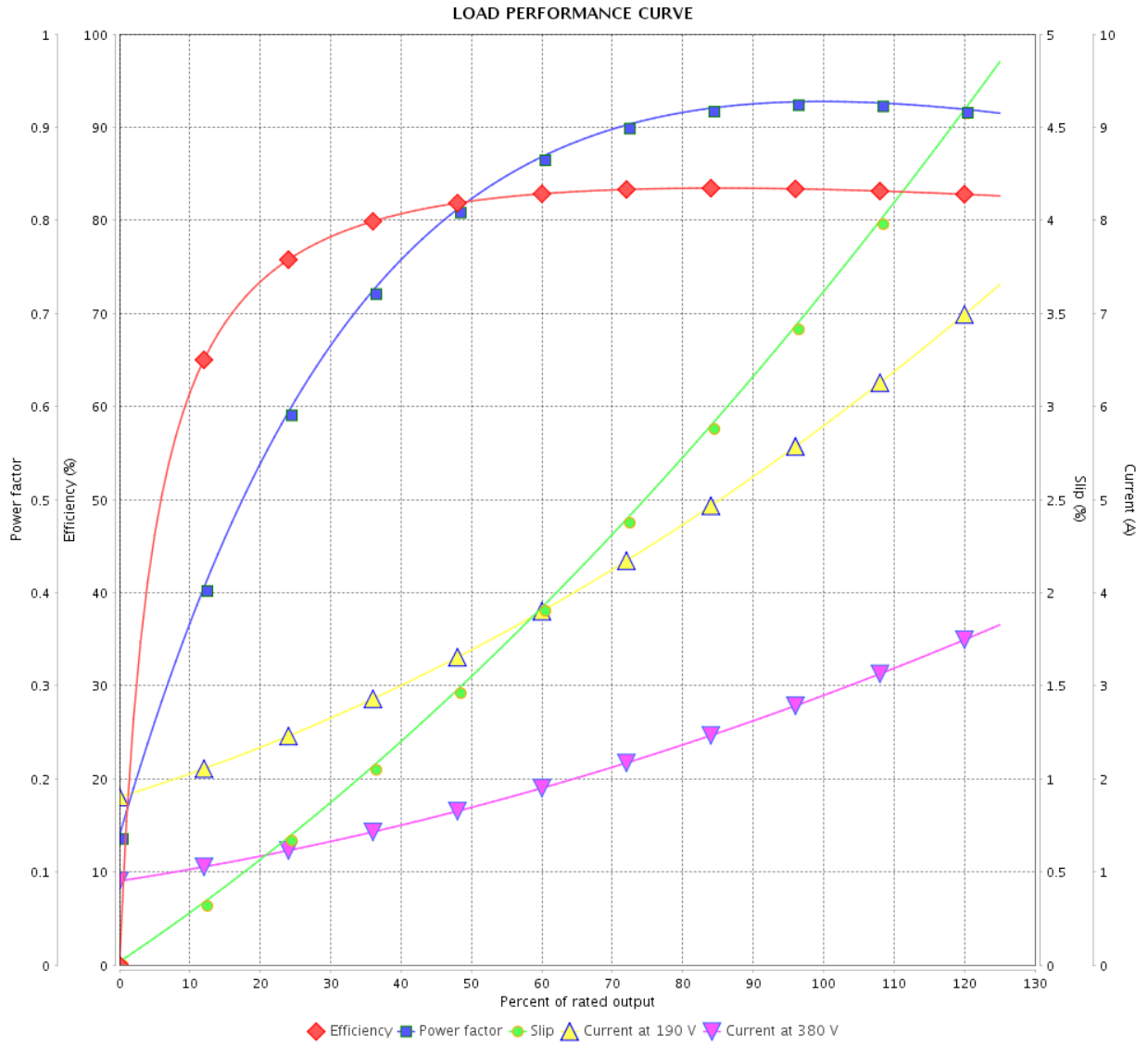
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Premium  
Efficiency Three-Phase

Product code : 14156820



Performance : 190/380 V 50 Hz 2P

Rated current : 5.88/2.94 A  
 LRC : 6.9  
 Rated torque : 0.502 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 250 %  
 Rated speed : 2890 rpm

Moment of inertia (J) : 0.0049 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

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Three Phase Induction Motor - Squirrel Cage

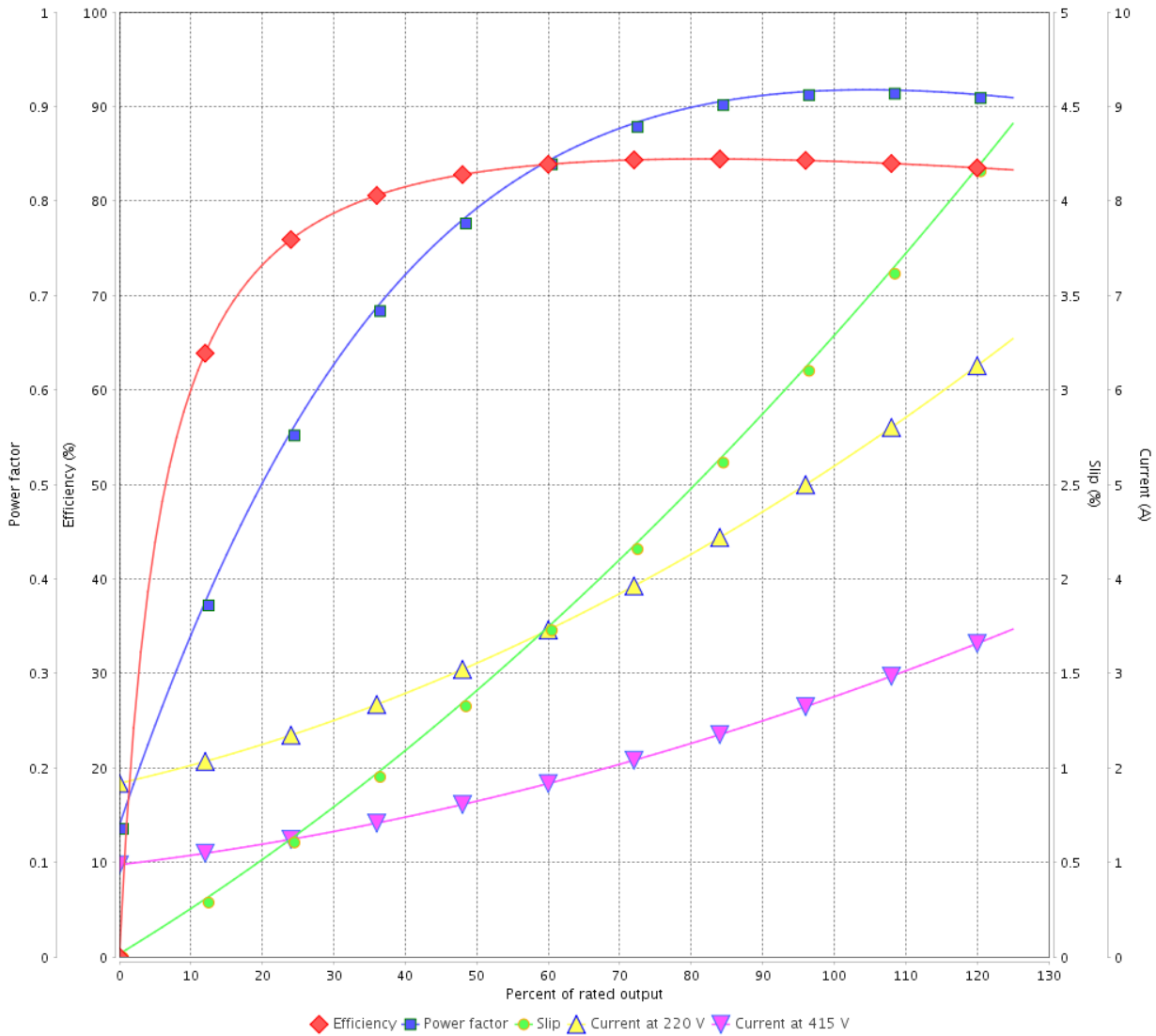


Customer :

Product line : Jet Pump - C type Premium  
Efficiency Three-Phase

Product code : 14156820

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 2P

Rated current : 5.26/2.79 A  
LRC : 7.6  
Rated torque : 0.501 kgfm  
Locked rotor torque : 200 %  
Breakdown torque : 280 %  
Rated speed : 2900 rpm

Moment of inertia (J) : 0.0049 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : A

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