

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Jet Pump - J type Premium Efficiency Three-Phase	Product code :	14902007	
Frame	: W56J	Cooling method	: IC01 - ODP	
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>	: 7.6 kg	
		Moment of inertia (J)	: 0.0008 kgm <sup>2</sup>	
Output [HP]	0.75	0.75	0.75	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	208-230/460	190-220/380	415	
Rated current [A]	2.61-2.36/1.18	2.76-2.38/1.38	1.40	
L. R. Amperes [A]	20.4-18.4/9.20	17.7-15.3/8.83	9.66	
LRC [A]	7.8x(Code L)	6.4x(Code J)	6.9x(Code L)	
No load current [A]	1.38-1.60/0.800	1.50-1.30/0.750	1.00	
Rated speed [RPM]	3450	2820	2850	
Slip [%]	4.17	6.00	5.00	
Rated torque [kgfm]	0.158	0.193	0.191	
Locked rotor torque [%]	370	300	370	
Breakdown torque [%]	400	280	330	
Service factor		1.50	1.50	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	32s (cold) 18s (hot)	32s (cold) 18s (hot)	27s (cold) 15s (hot)	
Noise level <sup>2</sup>	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	
Efficiency (%)	25%			
	50%	68.0	71.0	
	75%	72.0	74.0	
	100%	76.8	74.0	
Power Factor	25%			
	50%	0.57	0.62	
	75%	0.69	0.75	
	100%	0.76	0.82	
Bearing type	: <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 16 kgf	
Lubrication interval	: - -	Max. compression	: 24 kgf	
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
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

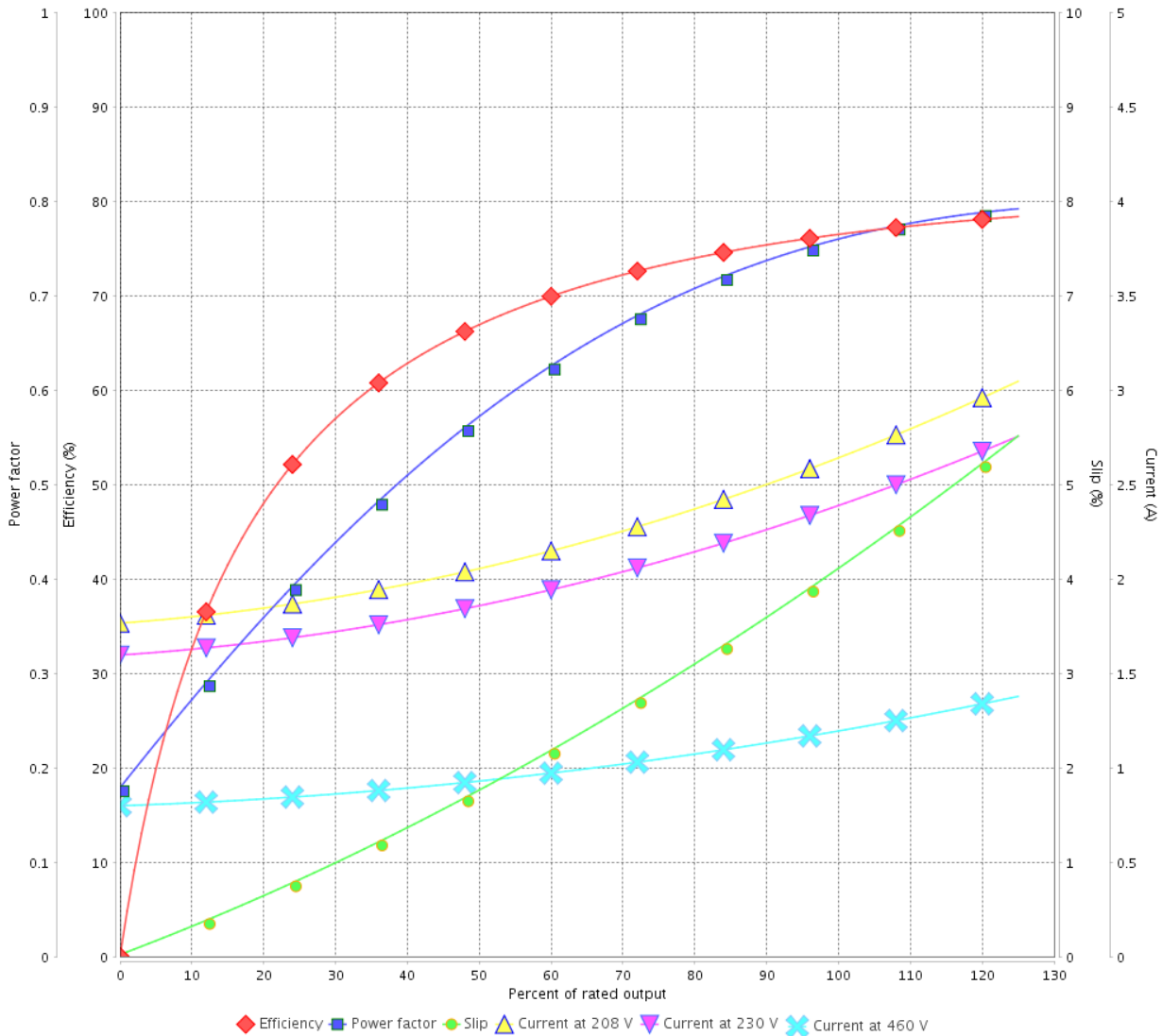


Customer :

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

Product code : 14902007

LOAD PERFORMANCE CURVE



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

Rated current : 2.61-2.36/1.18 A  
 LRC : 7.8  
 Rated torque : 0.158 kgfm  
 Locked rotor torque : 370 %  
 Breakdown torque : 400 %  
 Rated speed : 3450 rpm

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

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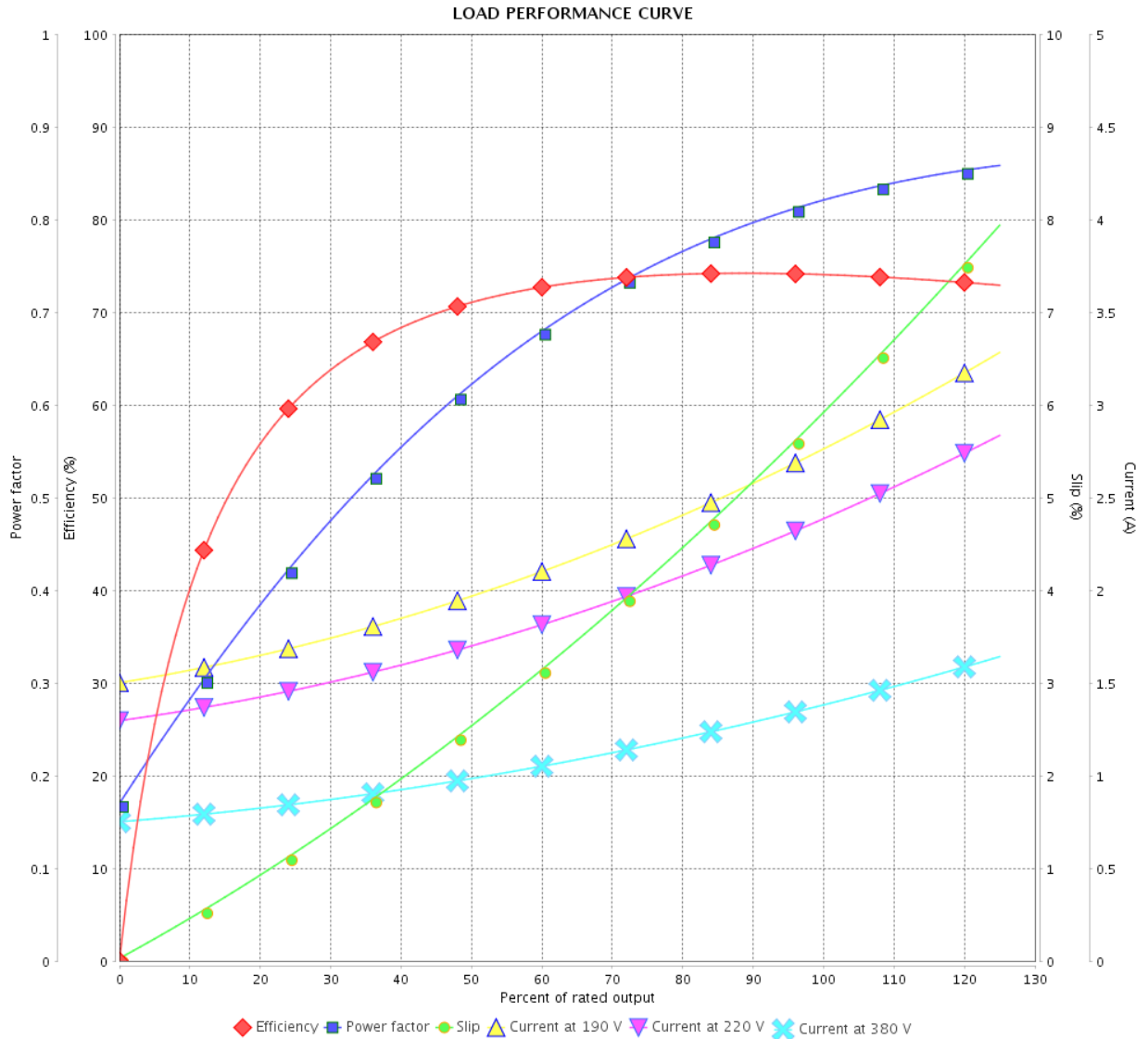
## Three Phase Induction Motor - Squirrel Cage



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

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

Product code : 14902007



Performance : 190-220/380 V 50 Hz 2P

Rated current : 2.76-2.38/1.38 A  
 LRC : 6.4  
 Rated torque : 0.193 kgfm  
 Locked rotor torque : 300 %  
 Breakdown torque : 280 %  
 Rated speed : 2820 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.50  
 Temperature rise : 80 K

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Three Phase Induction Motor - Squirrel Cage

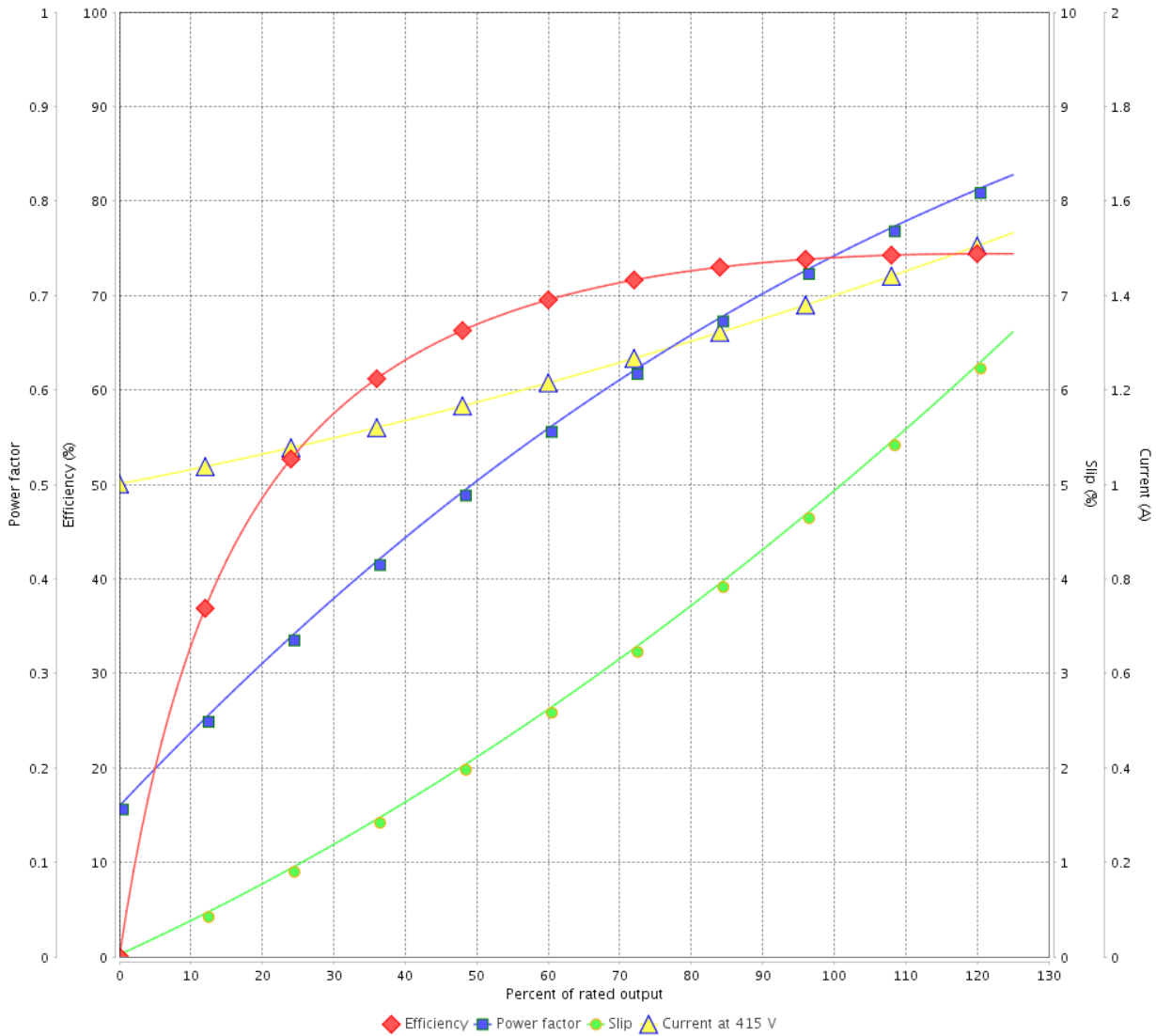


Customer :

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

Product code : 14902007

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 2P

Rated current : 1.40 A  
LRC : 6.9  
Rated torque : 0.191 kgfm  
Locked rotor torque : 370 %  
Breakdown torque : 330 %  
Rated speed : 2850 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.50  
Temperature rise : 80 K

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