

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Jet Pump - J type Premium Efficiency Three-Phase	Product code :	15889943	
Frame	: 56J	Cooling method	: IC411 - TEFC	
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>2</sup>	: 16.5 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0052 kgm <sup>2</sup>	
Design	: B			
Output [HP]	1	1	1	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190-220/380	415	
Rated current [A]	2.94/1.47	3.40-2.94/1.70	1.62	
L. R. Amperes [A]	25.3/12.6	22.1-19.1/11.0	12.2	
LRC [A]	8.6x(Code M)	6.5x(Code J)	7.5x(Code K)	
No load current [A]	1.78/0.890	1.76-1.52/0.879	0.988	
Rated speed [RPM]	1765	1450	1460	
Slip [%]	1.94	3.33	2.67	
Rated torque [kgfm]	0.411	0.501	0.497	
Locked rotor torque [%]	280	200	250	
Breakdown torque [%]	300	270	330	
Service factor		1.00	1.00	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	34s (cold) 19s (hot)	32s (cold) 18s (hot)	28s (cold) 16s (hot)	
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%			
	50%	82.5	80.9	
	75%	84.0	83.5	
	100%	85.5	83.7	
Power Factor	25%			
	50%	0.52	0.55	
	75%	0.66	0.68	
	100%	0.75	0.77	
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 44 kgf	
		Max. compression	: 61 kgf	
Lubrication interval	: -			
Lubricant amount	: -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 3.25A SF 1.00 SFA 3.25A				
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

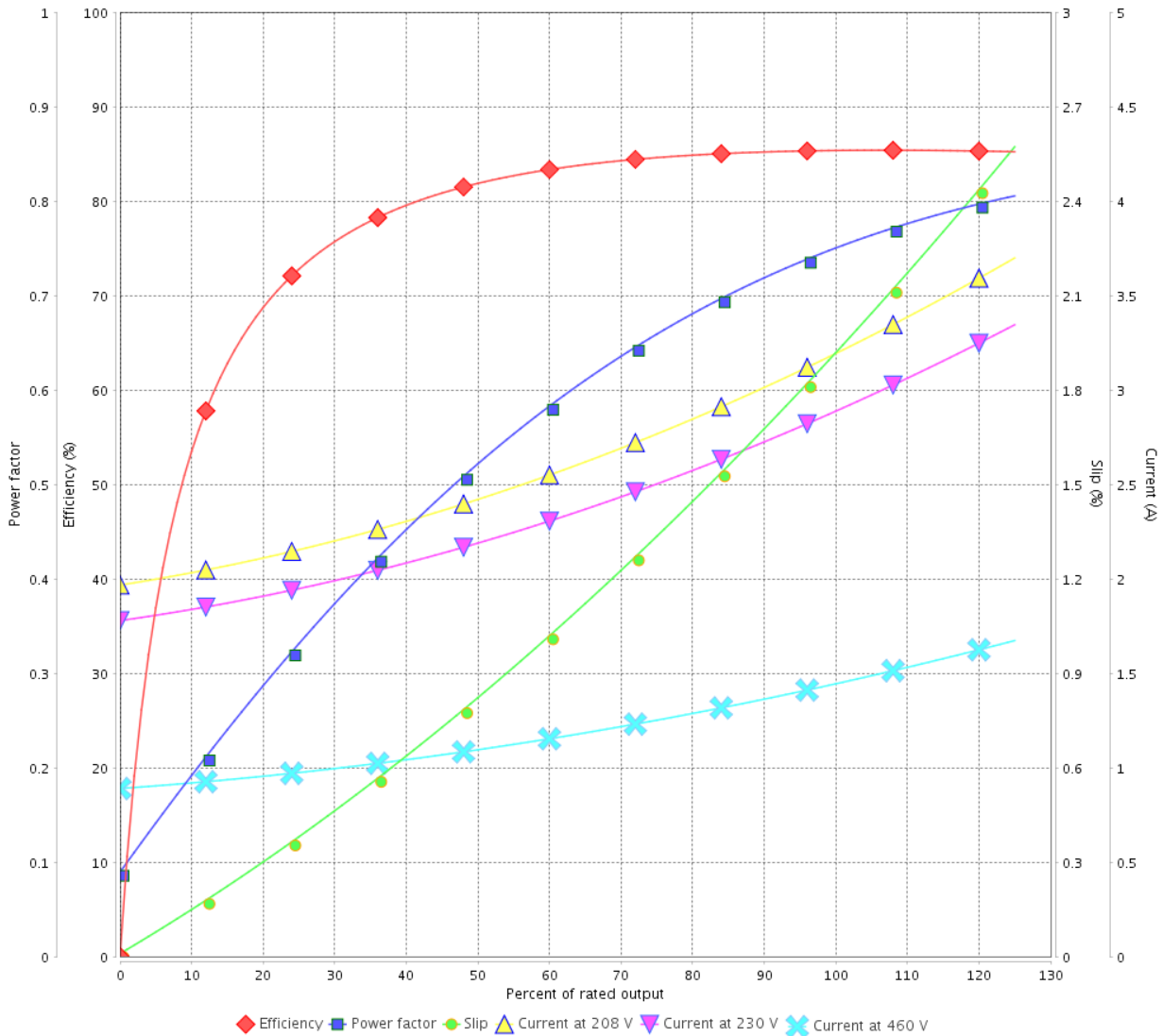


Customer :

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

Product code : 15889943

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 2.94/1.47 A  
 LRC : 8.6  
 Rated torque : 0.411 kgfm  
 Locked rotor torque : 280 %  
 Breakdown torque : 300 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0052 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

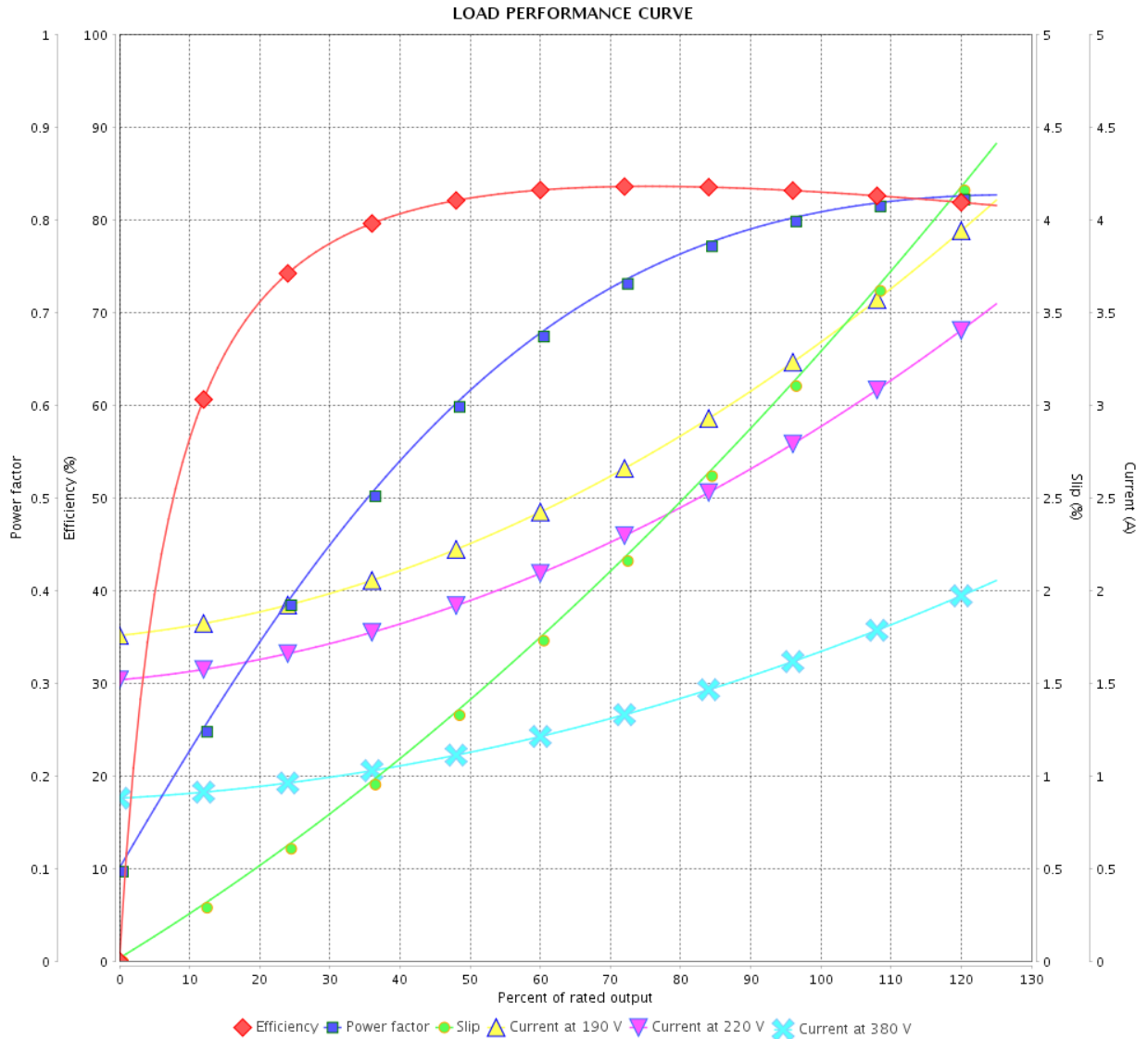
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Premium  
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Performance : 190-220/380 V 50 Hz 4P

Rated current : 3.40-2.94/1.70 A  
 LRC : 6.5  
 Rated torque : 0.501 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 270 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0052 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

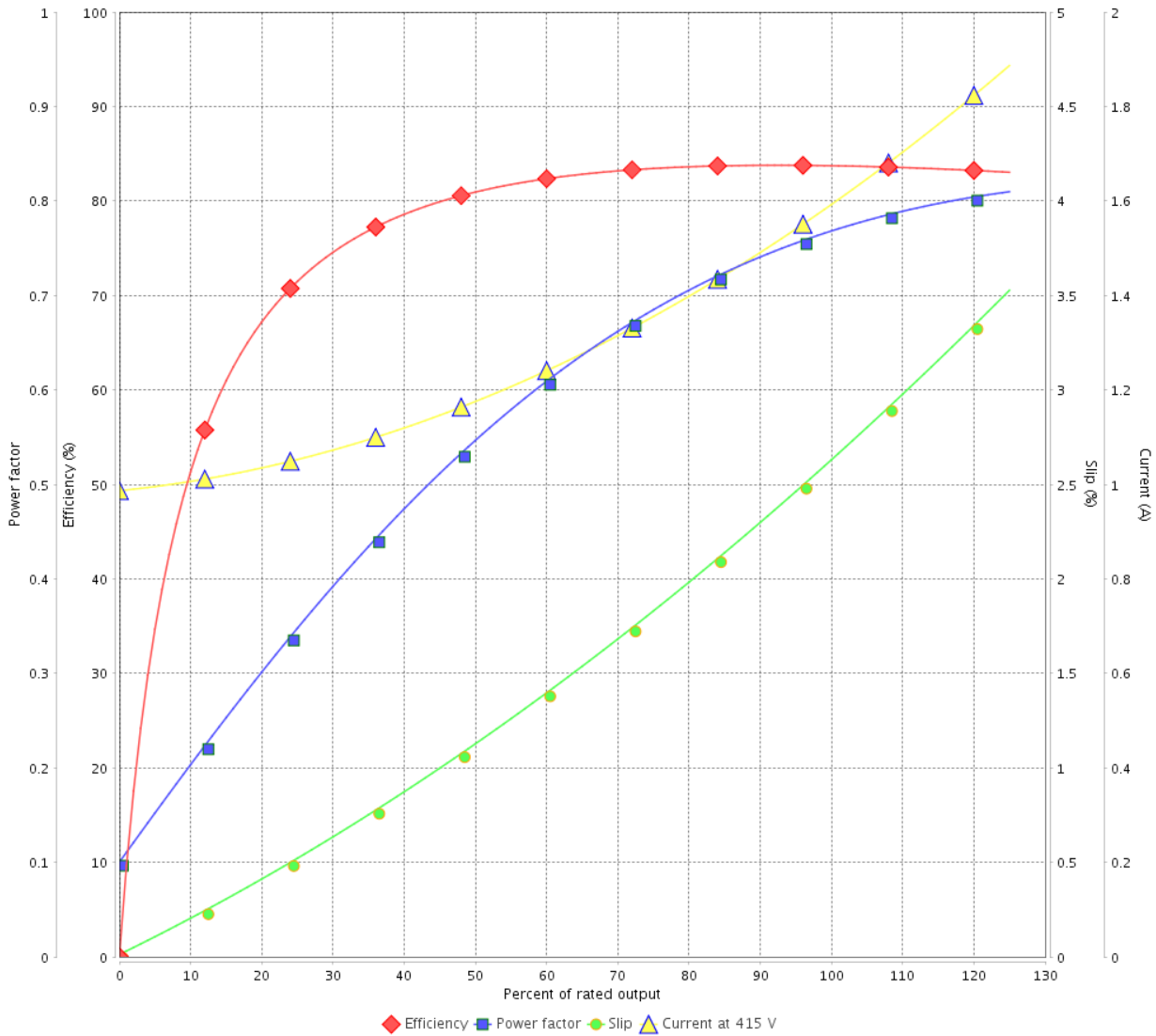


Customer :

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

Product code : 15889943

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 4P

Rated current : 1.62 A  
LRC : 7.5  
Rated torque : 0.497 kgfm  
Locked rotor torque : 250 %  
Breakdown torque : 330 %  
Rated speed : 1460 rpm

Moment of inertia (J) : 0.0052 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.00  
Temperature rise : 80 K  
Design : B

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