

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Jet Pump - J type Standard Efficiency Three-Phase	Product code :	14151171	
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>	: 9.5 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0025 kgm <sup>2</sup>	
Output [HP]	0.5	0.5	0.5	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	208-230/460	190/380	220/415	
Rated current [A]	1.91-1.72/0.862	1.90/0.950	1.81/0.962	
L. R. Amperes [A]	13.3-12.1/6.03	11.0/5.51	11.4/6.06	
LRC [A]	7.0x(Code L)	5.8x(Code J)	6.3x(Code K)	
No load current [A]	1.03-1.20/0.600	1.24/0.618	1.39/0.737	
Rated speed [RPM]	1760	1445	1460	
Slip [%]	2.22	3.67	2.67	
Rated torque [kgfm]	0.206	0.251	0.249	
Locked rotor torque [%]	240	180	220	
Breakdown torque [%]	300	250	310	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	36s (cold) 20s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%			
	50%	68.0	70.7	
	75%	74.0	75.0	
	100%	77.0	75.9	
Power Factor	25%			
	50%	0.48	0.56	
	75%	0.61	0.69	
	100%	0.70	0.78	
Bearing type	: <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 20 kgf	
Lubrication interval	: - -	Max. compression	: 29 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

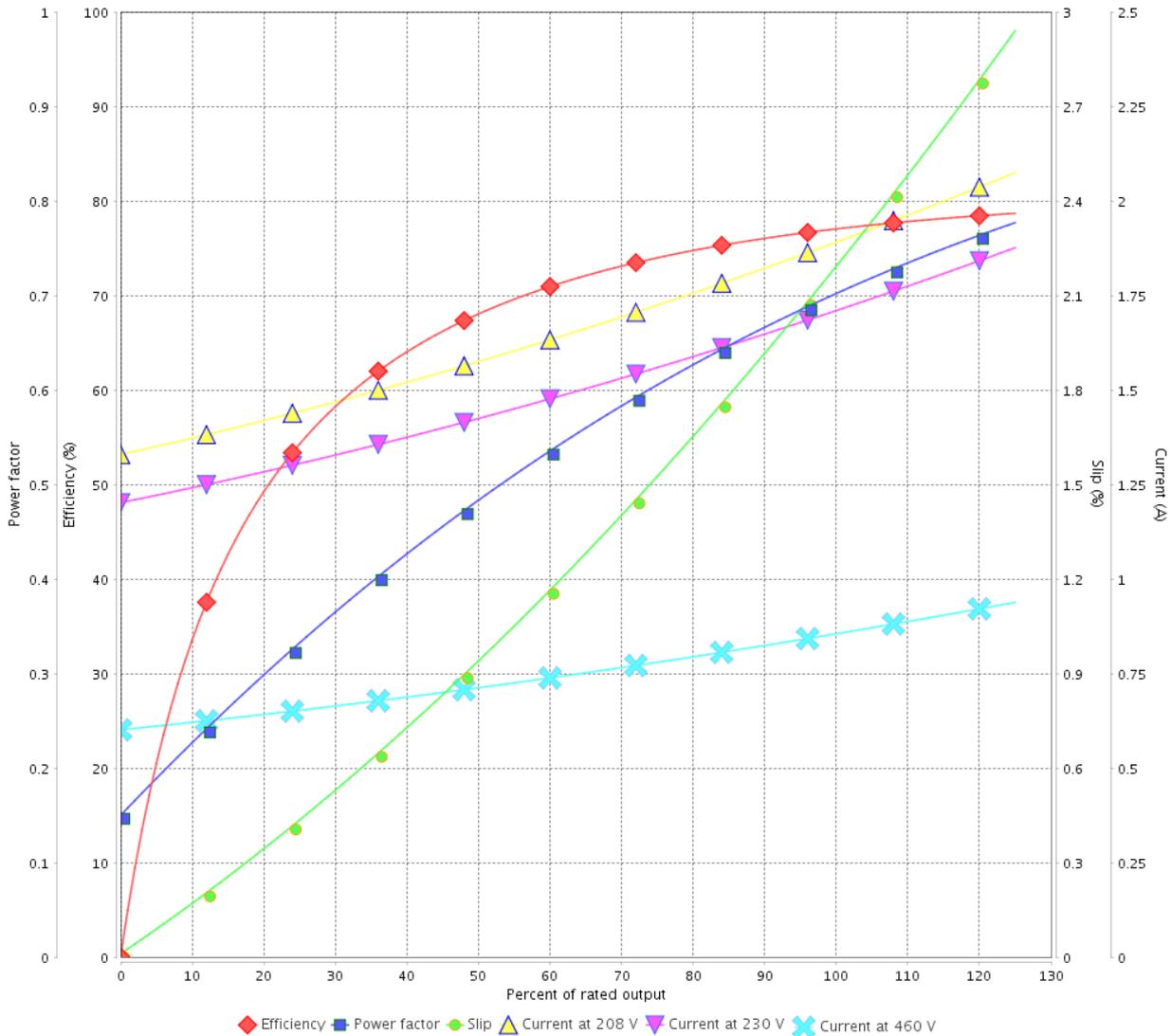


Customer :

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

Product code : 14151171

LOAD PERFORMANCE CURVE



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

Rated current : 1.91-1.72/0.862 A  
 LRC : 7.0  
 Rated torque : 0.206 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 300 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0025 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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# LOAD PERFORMANCE CURVE

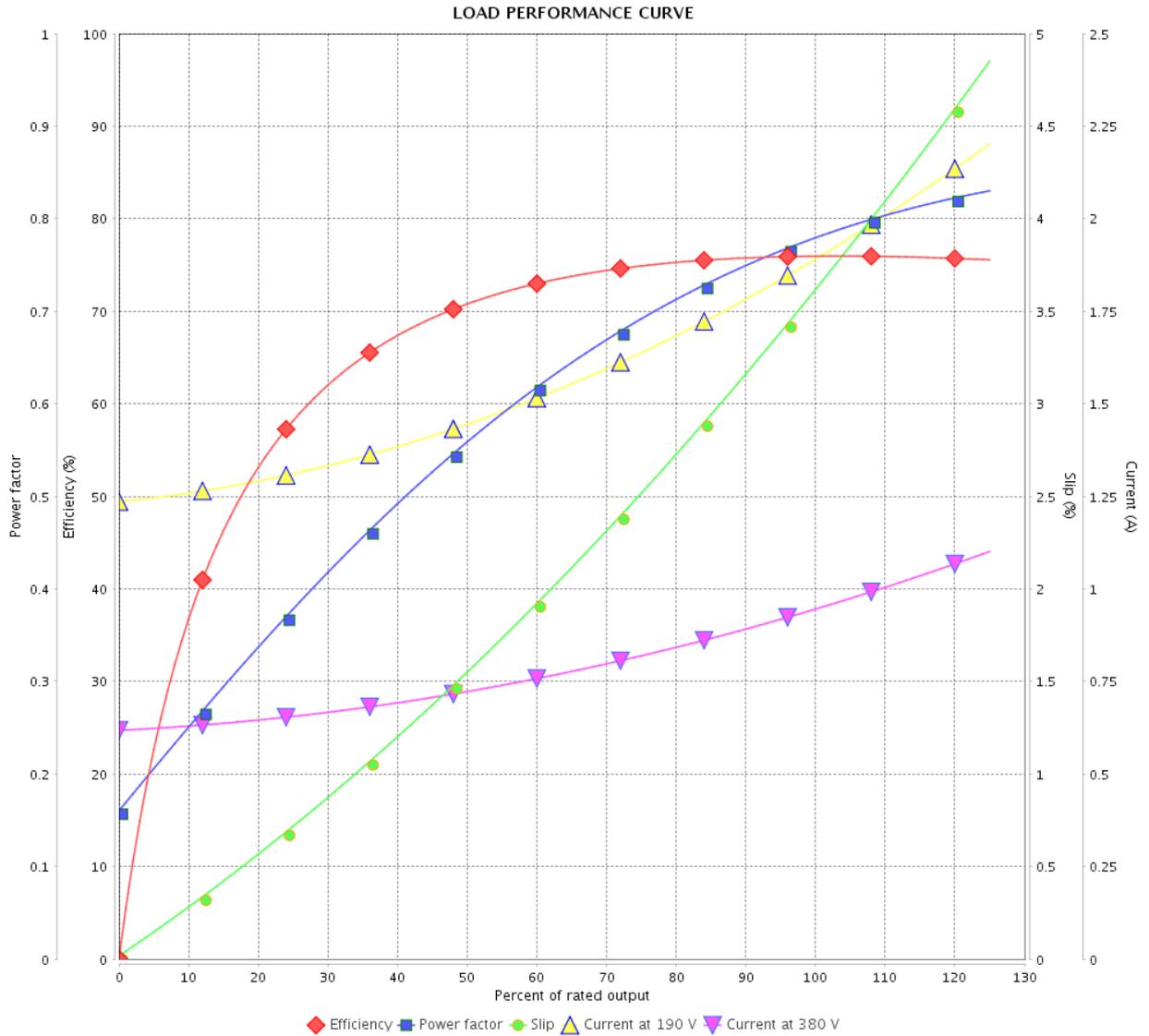
## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14151171



Performance : 190/380 V 50 Hz 4P

Rated current : 1.90/0.950 A  
 LRC : 5.8  
 Rated torque : 0.251 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 250 %  
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0025 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

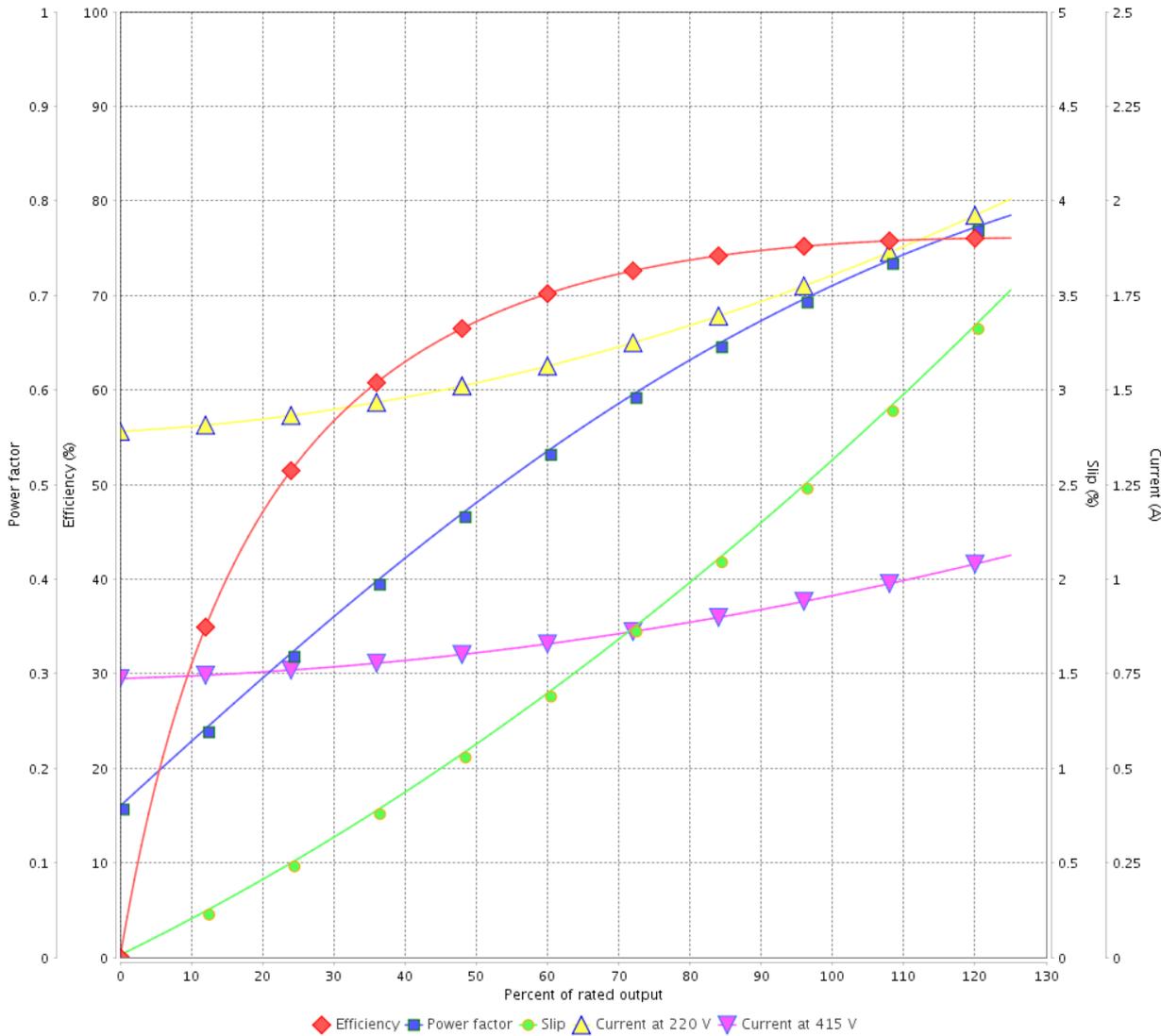


Customer :

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

Product code : 14151171

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 4P

Rated current : 1.81/0.962 A  
LRC : 6.3  
Rated torque : 0.249 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 310 %  
Rated speed : 1460 rpm

Moment of inertia (J) : 0.0025 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K

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