

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13482796	
Frame	: 213/5JM	Cooling method	: IC01 - ODP	
Insulation class	: F	Mounting	: W-6	
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 57.3 kg	
Design	: B	Moment of inertia (J)	: 0.0546 kgm <sup>2</sup>	
Output [HP]	10	10	10	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190-220/380	415	
Rated current [A]	24.8/12.4	29.8-25.7/14.9	14.0	
L. R. Amperes [A]	174/86.8	191-165/95.4	106	
LRC [A]	7.0x(Code H)	6.4x(Code G)	7.6x(Code J)	
No load current [A]	12.0/5.99	11.8-10.2/5.89	6.93	
Rated speed [RPM]	1770	1460	1470	
Slip [%]	1.67	2.67	2.00	
Rated torque [kgfm]	4.10	4.97	4.94	
Locked rotor torque [%]	250	200	250	
Breakdown torque [%]	350	250	300	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	25s (cold) 14s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>	59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	
Efficiency (%)	25%			
	50%	90.2	89.1	
	75%	91.0	89.7	
	100%	91.7	89.0	
Power Factor	25%			
	50%	0.64	0.64	
	75%	0.77	0.77	
	100%	0.83	0.84	
Bearing type	: Drive end 6209 ZZ Non drive end 6206 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 245 kgf	
		Max. compression	: 303 kgf	
Lubrication interval	: - -			
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 27.4A SF 1.00 SFA 27.4A				
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

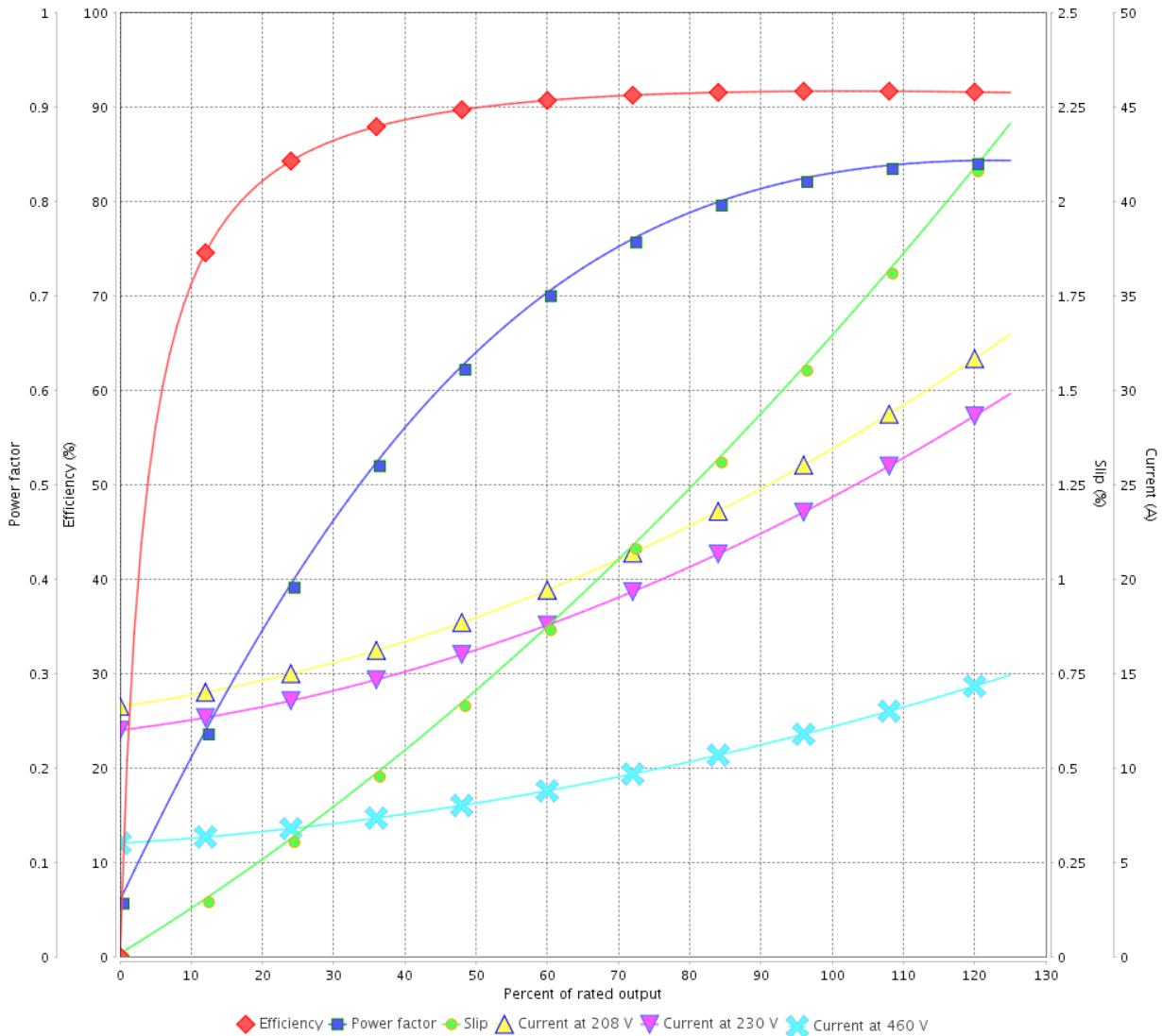


Customer :

Product line : JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13482796

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 24.8/12.4 A  
LRC : 7.0  
Rated torque : 4.10 kgfm  
Locked rotor torque : 250 %  
Breakdown torque : 350 %  
Rated speed : 1770 rpm

Moment of inertia (J) : 0.0546 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date				

# LOAD PERFORMANCE CURVE

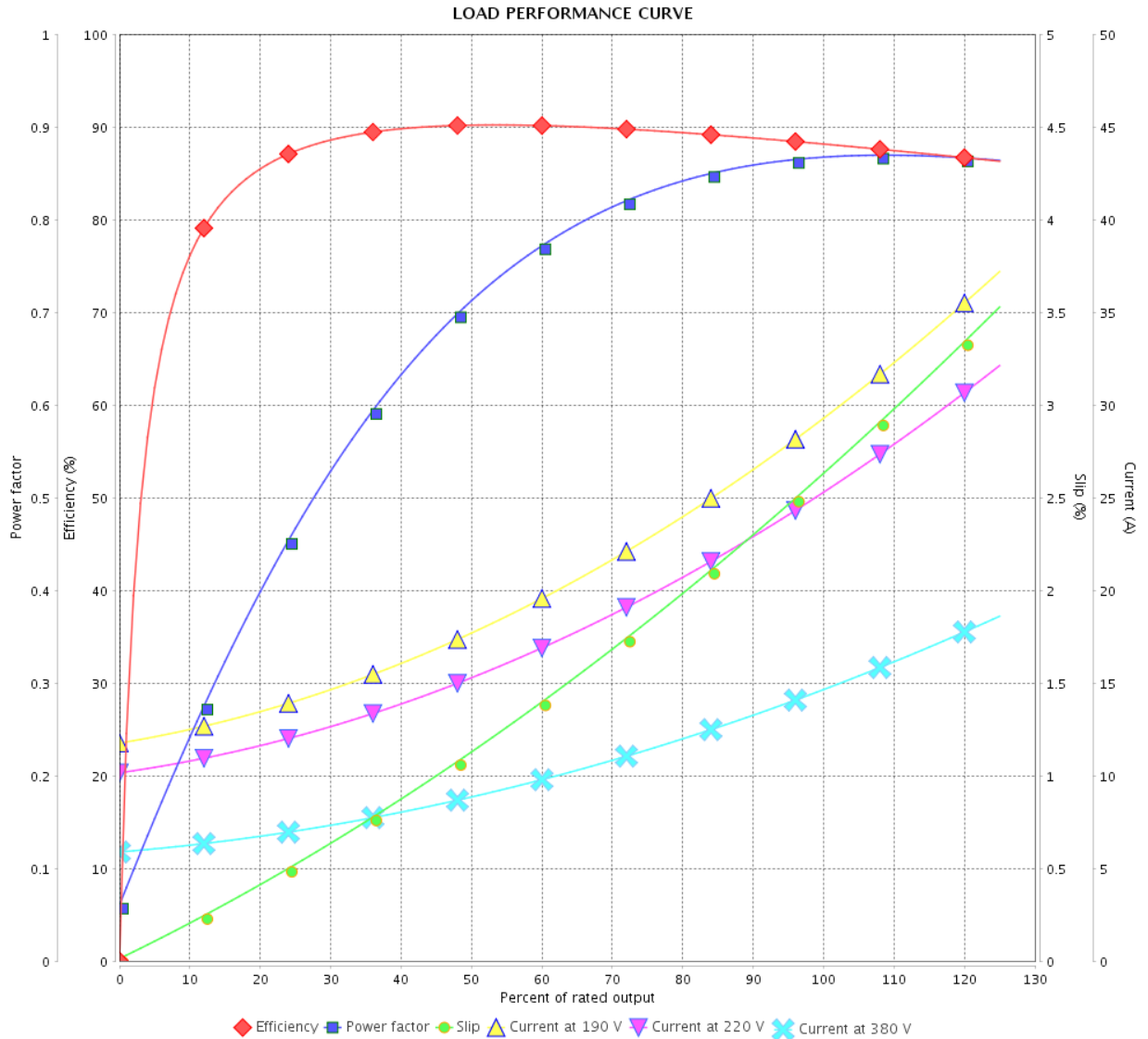
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13482796



Performance : 190-220/380 V 50 Hz 4P

Rated current : 29.8-25.7/14.9 A  
 LRC : 6.4  
 Rated torque : 4.97 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 250 %  
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0546 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

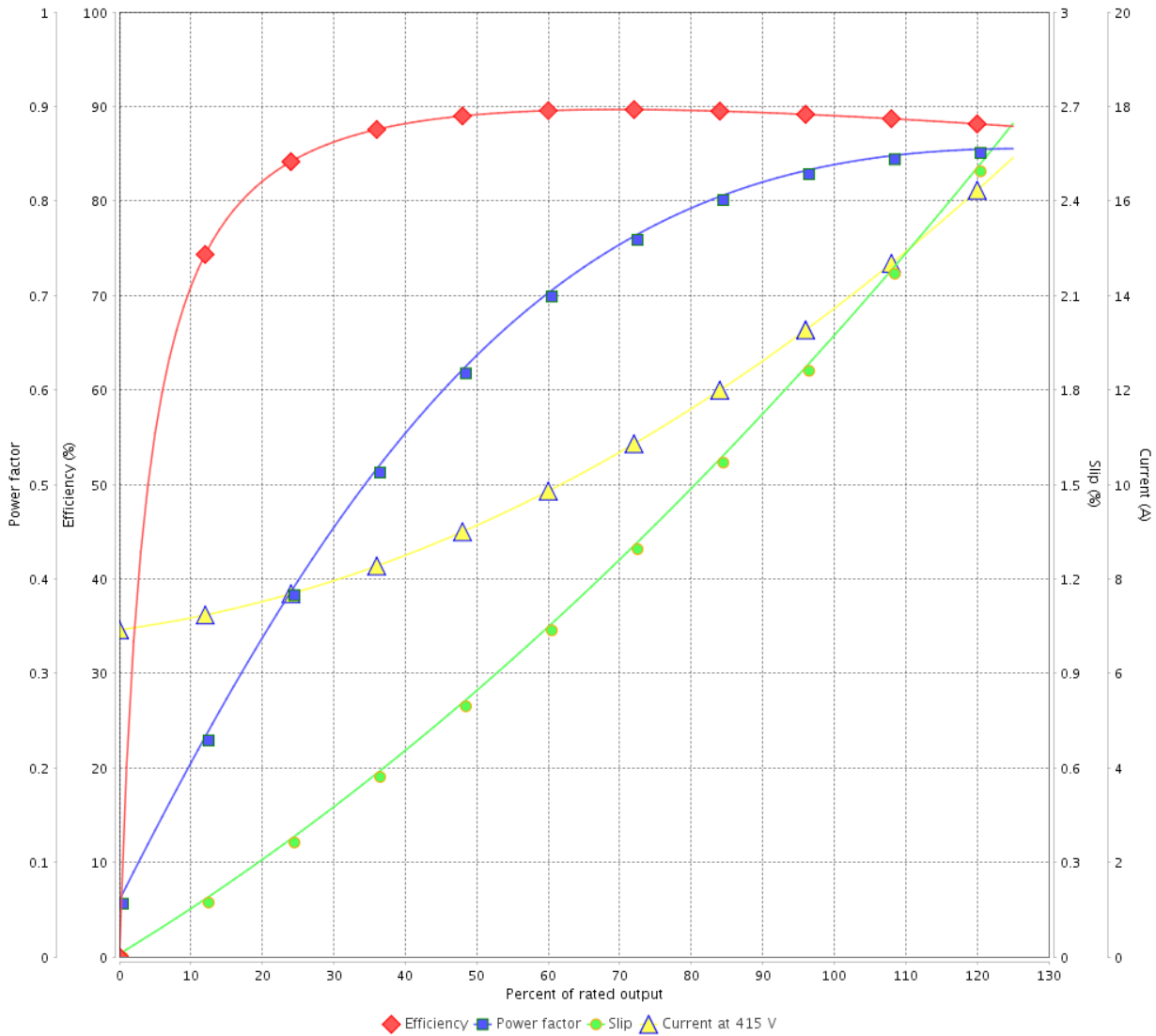


Customer :

Product line : JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13482796

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 4P

Rated current	: 14.0 A	Moment of inertia (J)	: 0.0546 kgm <sup>2</sup>
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 4.94 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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