

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13485858	
Frame	: 182/4JM	Cooling method	: IC411 - TEFC	
Insulation class	: F	Mounting	: F-1	
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>	: 39.5 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0144 kgm <sup>2</sup>	
Design	: B			
Output [HP]	2	2	2	
Poles	6	6	6	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190-220/380	415	
Rated current [A]	6.00/3.00	7.00-6.05/3.50	3.41	
L. R. Amperes [A]	45.0/22.5	42.7-36.9/21.3	24.2	
LRC [A]	7.5x(Code K)	6.1x(Code H)	7.1x(Code K)	
No load current [A]	3.74/1.87	3.69-3.19/1.85	2.15	
Rated speed [RPM]	1170	955	965	
Slip [%]	2.50	4.50	3.50	
Rated torque [kgfm]	1.24	1.52	1.50	
Locked rotor torque [%]	260	210	280	
Breakdown torque [%]	370	280	350	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	79s (cold) 44s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>	52.0 dB(A)	50.0 dB(A)	50.0 dB(A)	
Efficiency (%)	25%			
	50%	84.0	83.7	
	75%	86.5	86.0	
	100%	88.5	86.2	
Power Factor	25%			
	50%	0.50	0.50	
	75%	0.62	0.63	
	100%	0.71	0.71	
Bearing type	: <u>Drive end</u> 6207 ZZ <u>Non drive end</u> 6205 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 90 kgf	
		Max. compression	: 130 kgf	
Lubrication interval	: -			
Lubricant amount	: -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 6.63A SF 1.00 SFA 6.63A				
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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Performed by				
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

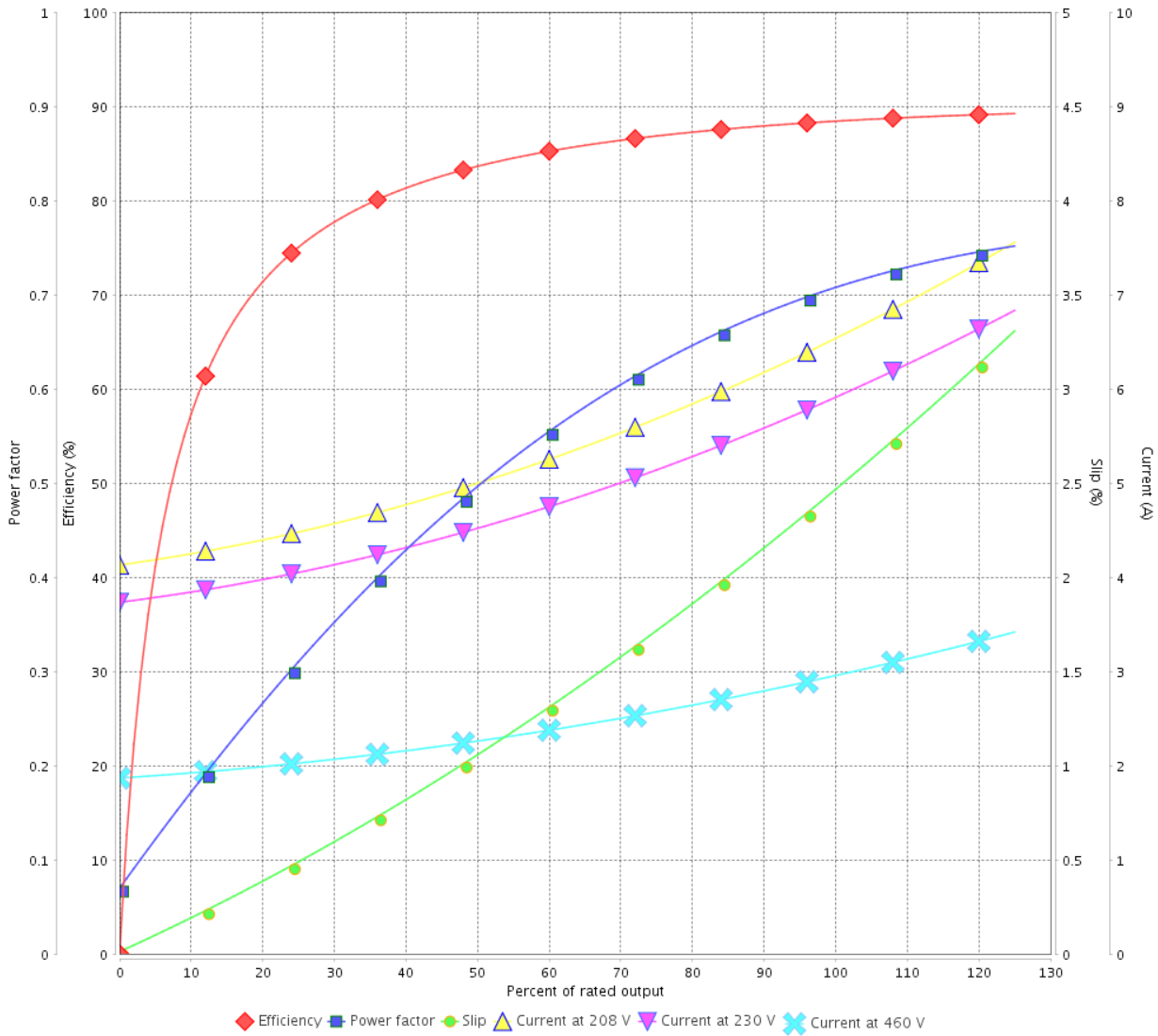


Customer :

Product line : JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13485858

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 6P

Rated current : 6.00/3.00 A  
 LRC : 7.5  
 Rated torque : 1.24 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 370 %  
 Rated speed : 1170 rpm

Moment of inertia (J) : 0.0144 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
Performed by			Page	Revision
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Date				

# LOAD PERFORMANCE CURVE

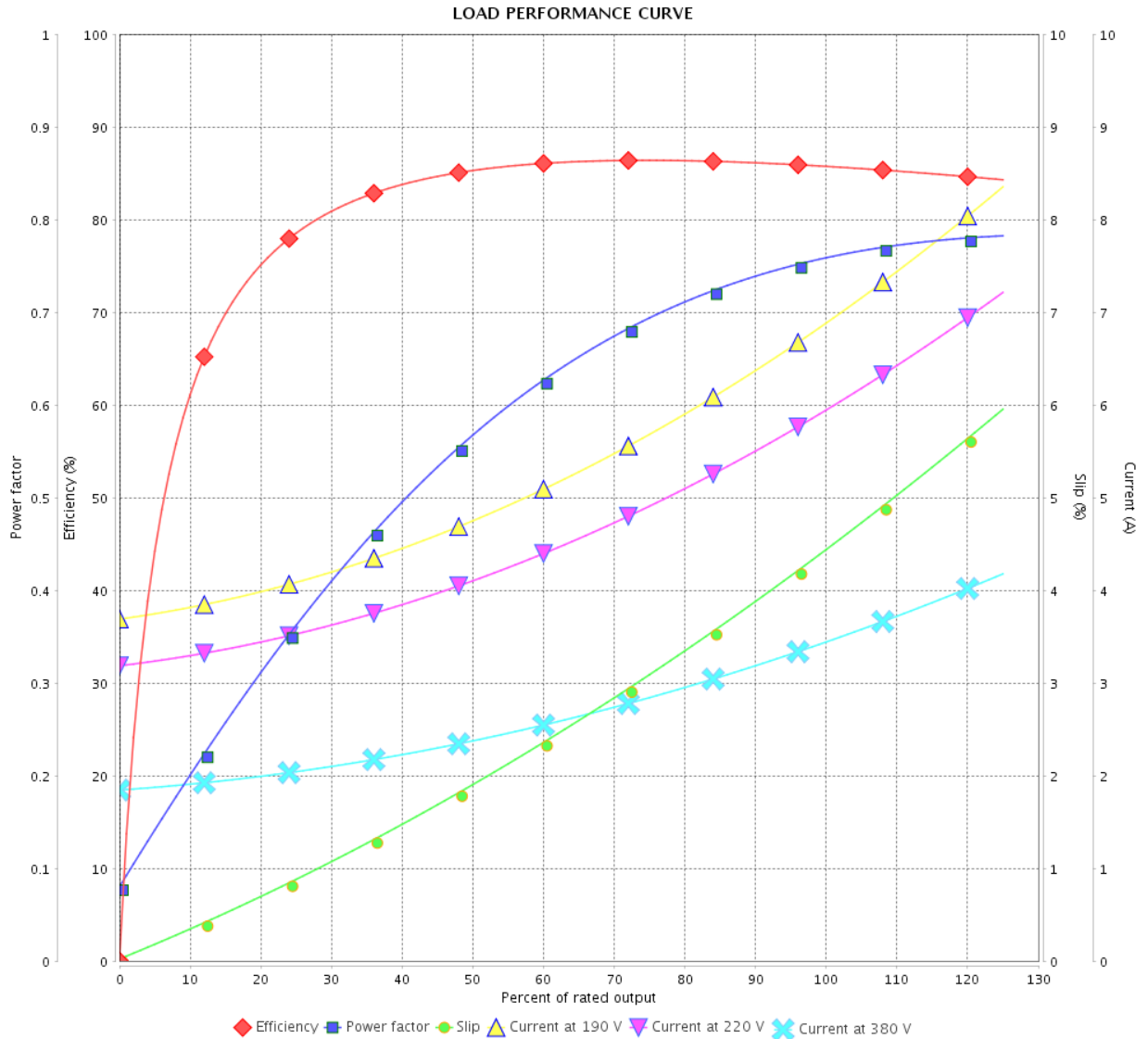
## Three Phase Induction Motor - Squirrel Cage



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

Product line : JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13485858



Performance : 190-220/380 V 50 Hz 6P

Rated current : 7.00-6.05/3.50 A  
 LRC : 6.1  
 Rated torque : 1.52 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 280 %  
 Rated speed : 955 rpm

Moment of inertia (J) : 0.0144 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

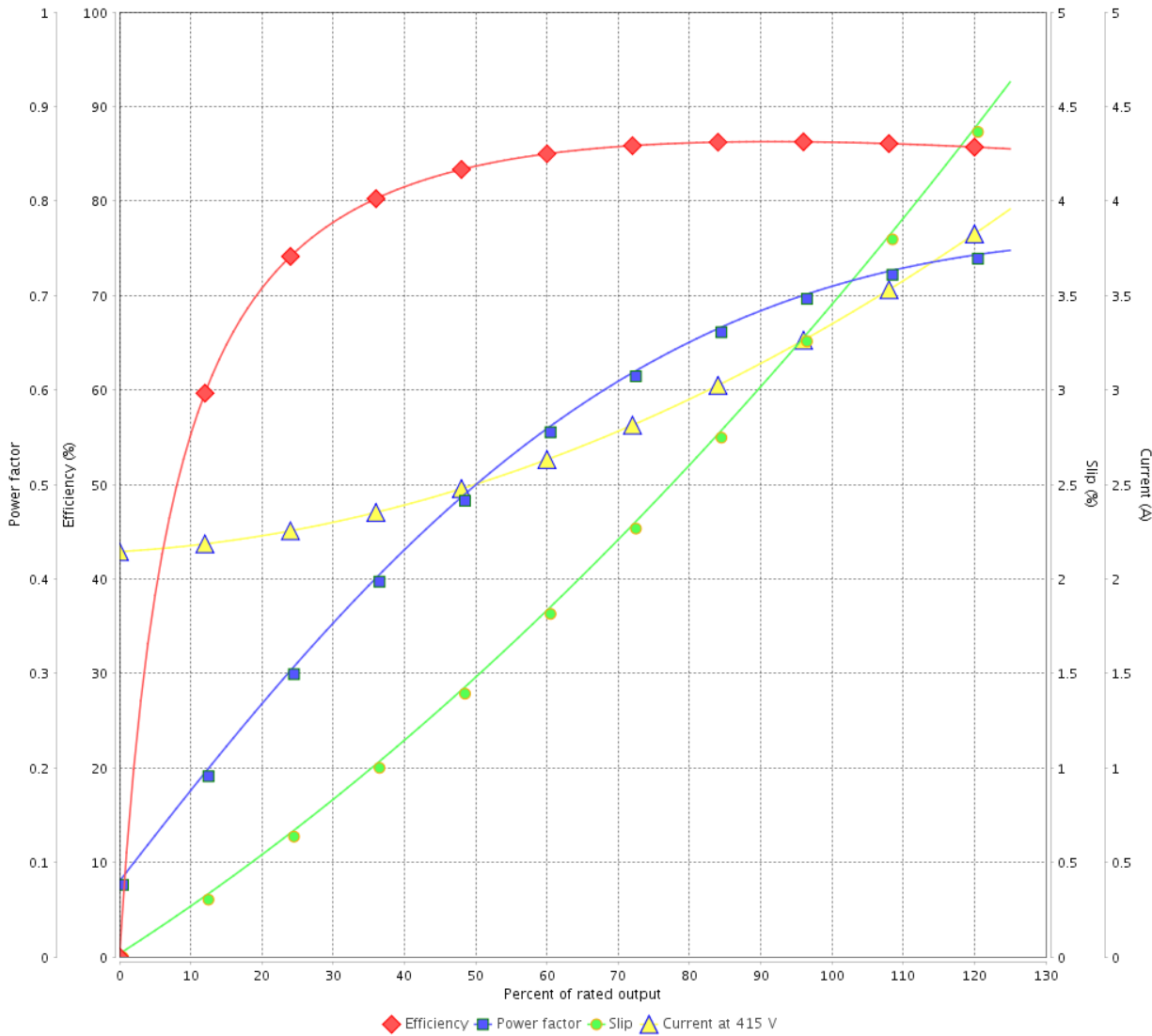


Customer :

Product line : JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13485858

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 6P

Rated current : 3.41 A  
LRC : 7.1  
Rated torque : 1.50 kgfm  
Locked rotor torque : 280 %  
Breakdown torque : 350 %  
Rated speed : 965 rpm

Moment of inertia (J) : 0.0144 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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