

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	12676960	
Frame	: 143/5JM	Cooling method	: IC01 - ODP	
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>2</sup>	: 19.9 kg	
Design	: B	Moment of inertia (J)	: 0.0060 kgm <sup>2</sup>	
Output [HP]	1.5	1.5	1.5	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	4.14/2.07	4.84/2.42	4.41/2.34	
L. R. Amperes [A]	36.0/18.0	31.0/15.5	30.9/16.4	
LRC [A]	8.7x(Code L)	6.4x(Code H)	7.0x(Code J)	
No load current [A]	2.40/1.20	2.36/1.18	2.41/1.28	
Rated speed [RPM]	1760	1440	1445	
Slip [%]	2.22	4.00	3.67	
Rated torque [kgfm]	0.619	0.756	0.753	
Locked rotor torque [%]	280	190	220	
Breakdown torque [%]	330	250	280	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	27s (cold) 15s (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%	83.6	85.3	84.0
	50%	84.0	84.3	83.6
	75%	86.5	84.7	84.8
	100%	86.5	83.2	83.9
Power Factor	25%	0.32	0.38	0.35
	50%	0.56	0.64	0.60
	75%	0.69	0.77	0.73
	100%	0.77	0.83	0.81
Bearing type	: Drive end 6206 ZZ Non drive end 6203 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 50 kgf	
Lubrication interval	: - -	Max. compression	: 70 kgf	
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 4.58A SF 1.00 SFA 4.58A				
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.		
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	16/05/2022		1 / 4	

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

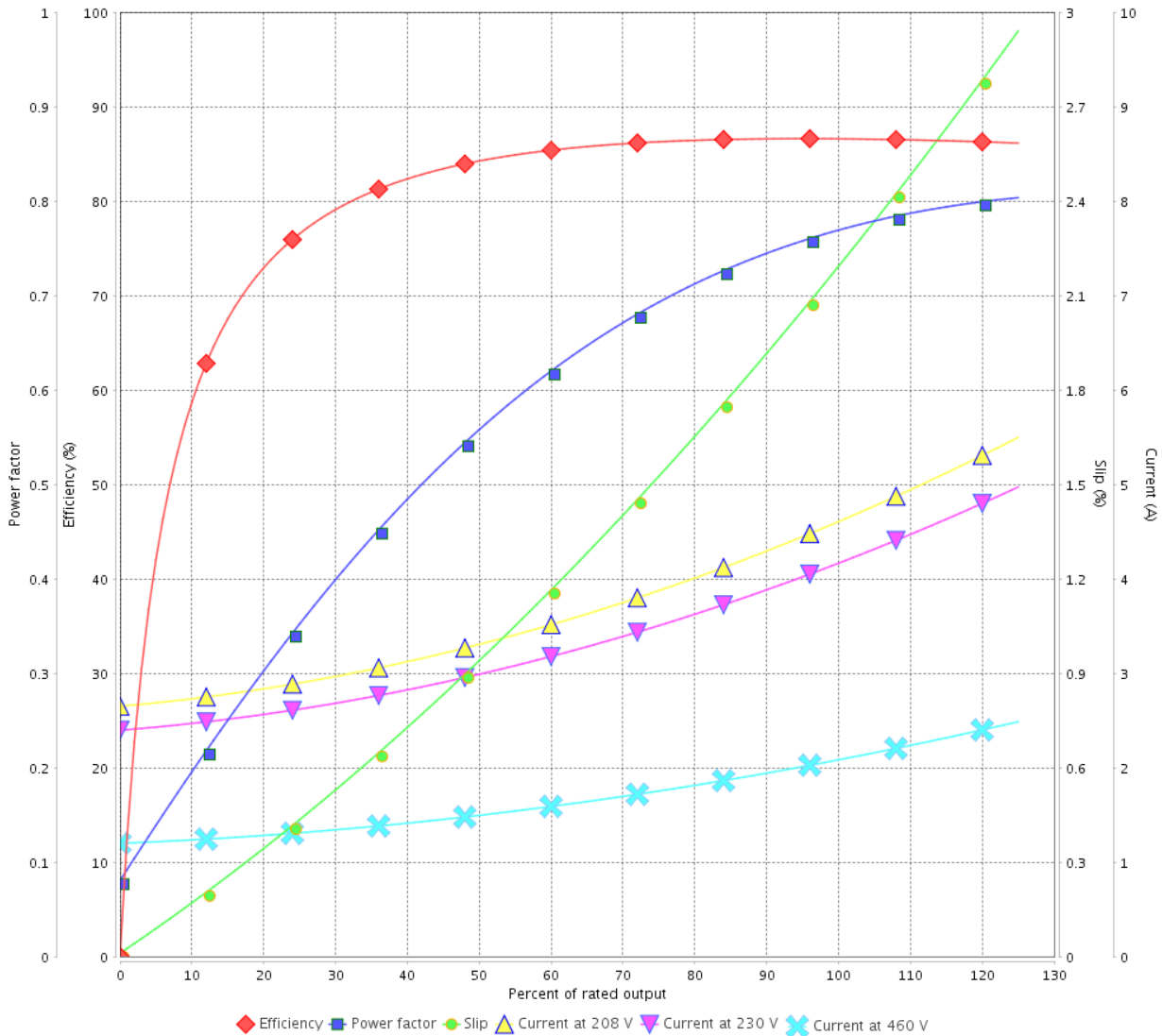


Customer :

Product line : JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 12676960

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 4.14/2.07 A  
 LRC : 8.7  
 Rated torque : 0.619 kgfm  
 Locked rotor torque : 280 %  
 Breakdown torque : 330 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0060 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

# LOAD PERFORMANCE CURVE

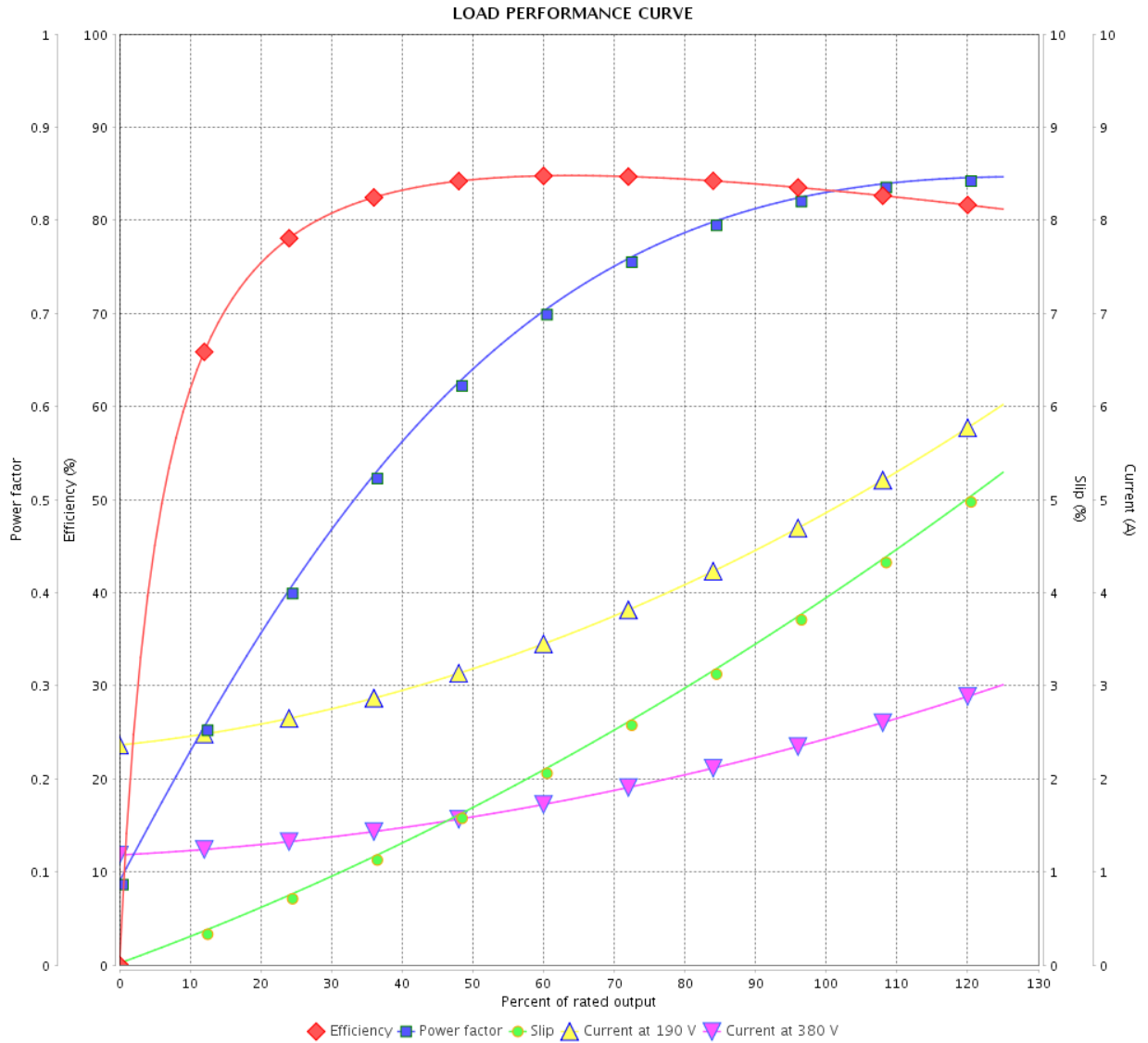
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Efficiency Three-Phase

Product code : 12676960



Performance : 190/380 V 50 Hz 4P

Rated current : 4.84/2.42 A  
 LRC : 6.4  
 Rated torque : 0.756 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 250 %  
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.0060 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

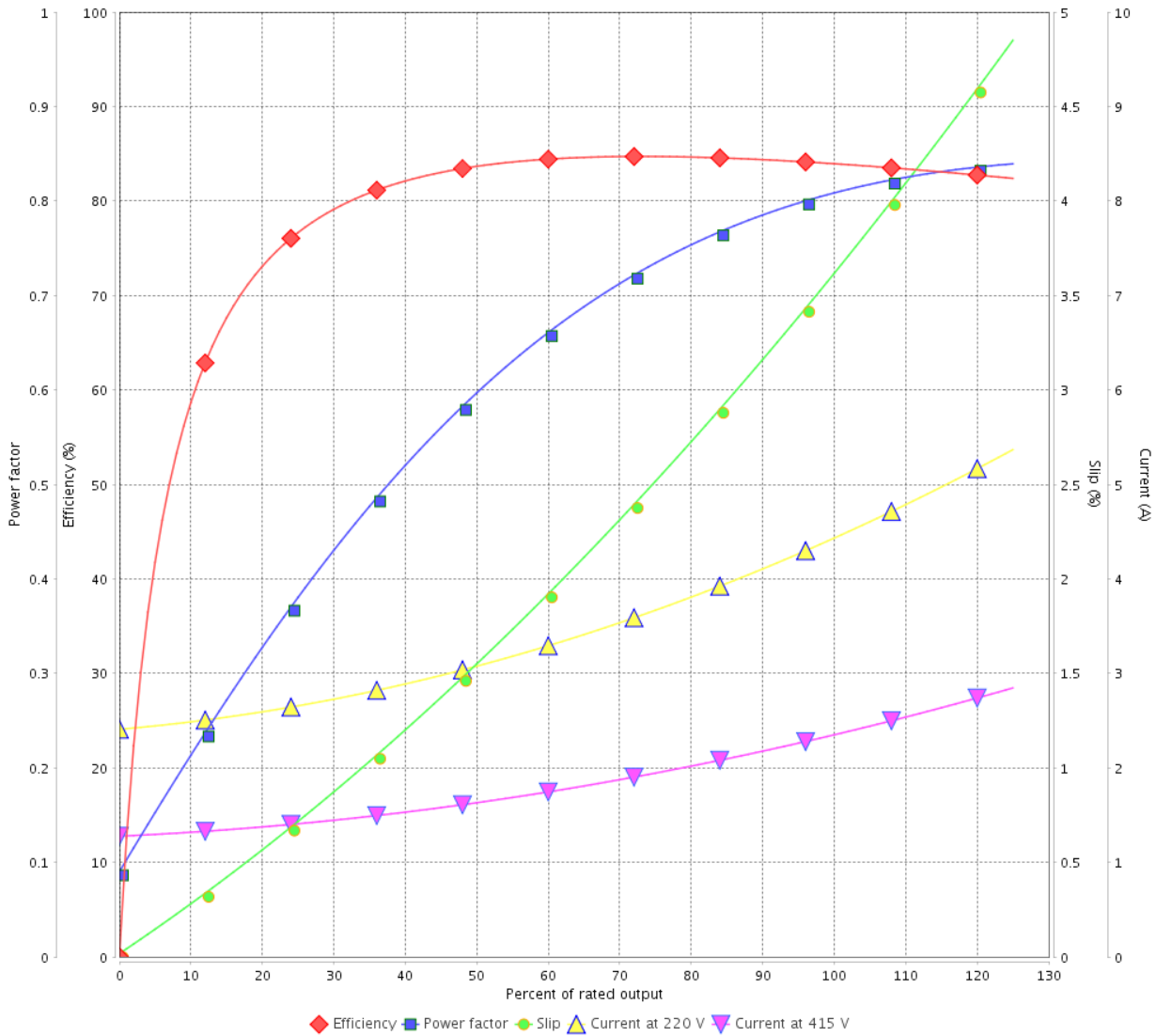


Customer :

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Efficiency Three-Phase

Product code : 12676960

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 4P

Rated current : 4.41/2.34 A  
LRC : 7.0  
Rated torque : 0.753 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 280 %  
Rated speed : 1445 rpm

Moment of inertia (J) : 0.0060 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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