

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13440285	
Frame	: 213/5JM	Cooling method	: IC411 - TEFC	
Insulation class	: F	Mounting	: F-1	
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 70.2 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0531 kgm ²	
Design	: B			
Output [HP]	5	5	5	
Poles	6	6	6	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	13.5/6.74	16.3/8.13	14.6/7.74	
L. R. Amperes [A]	80.9/40.4	74.8/37.4	75.9/40.2	
LRC [A]	6.0x(Code H)	4.6x(Code E)	5.2x(Code F)	
No load current [A]	6.84/3.42	6.75/3.38	6.86/3.64	
Rated speed [RPM]	1175	960	965	
Slip [%]	2.08	4.00	3.50	
Rated torque [kgfm]	3.09	3.78	3.76	
Locked rotor torque [%]	220	160	190	
Breakdown torque [%]	250	190	210	
Service factor	1.15	1.00	1.00	
Temperature rise	80 K	105 K	105 K	
Locked rotor time	54s (cold) 30s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	
Efficiency (%)	25%	86.4	88.7	
	50%	87.5	87.6	
	75%	88.5	87.8	
	100%	89.5	86.3	
Power Factor	25%	0.35	0.37	
	50%	0.59	0.62	
	75%	0.71	0.74	
	100%	0.77	0.80	
Bearing type	: <u>Drive end</u> 6209 ZZ <u>Non drive end</u> 6206 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 111 kgf	
		Max. compression	: 181 kgf	
Lubrication interval	: - -			
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 14.9A SF 1.00 SFA 14.9A				
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	

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Three Phase Induction Motor - Squirrel Cage

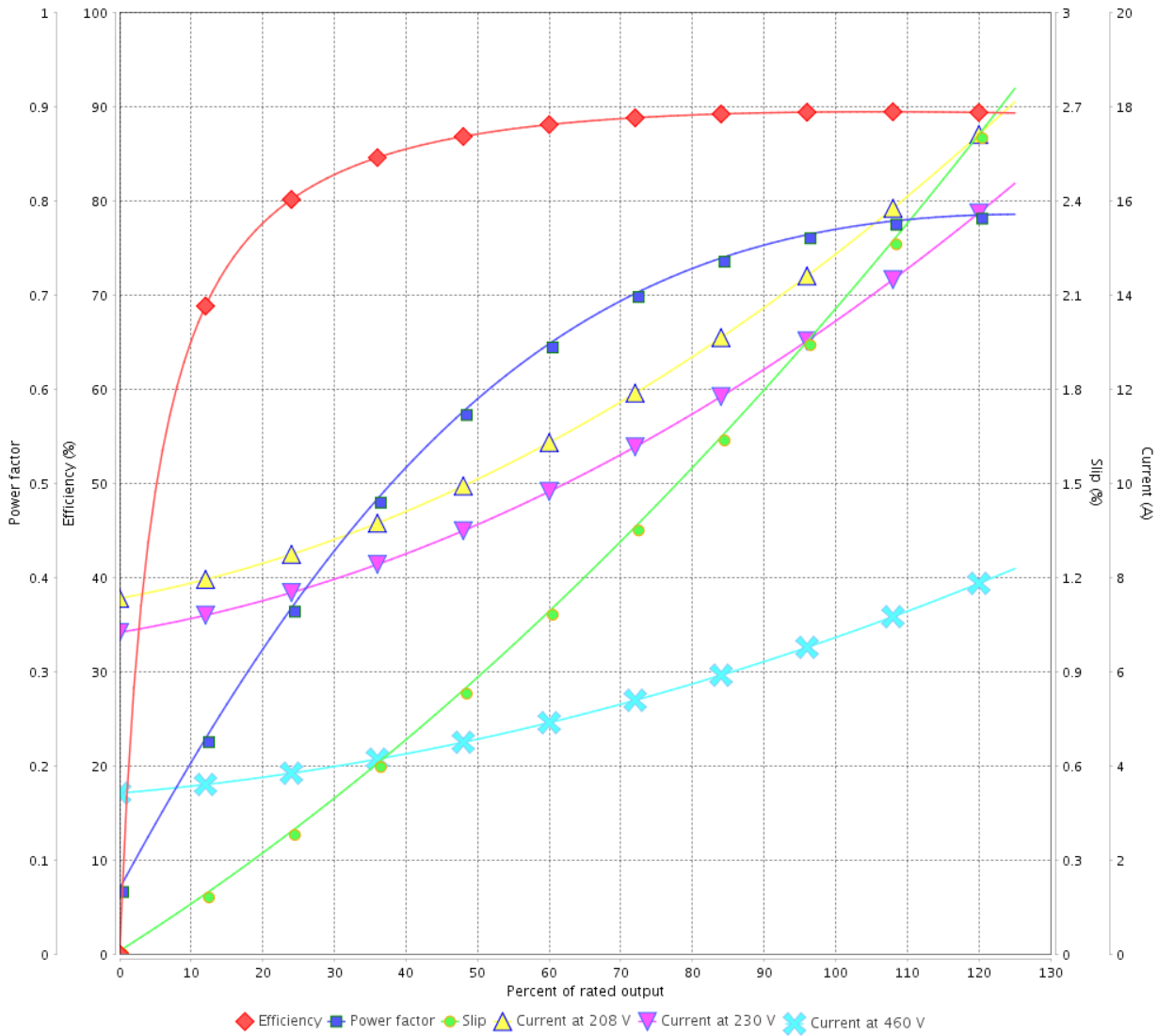


Customer : _____

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13440285

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Performance : 230/460 V 60 Hz 6P

Rated current : 13.5/6.74 A
 LRC : 6.0
 Rated torque : 3.09 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 1175 rpm

Moment of inertia (J) : 0.0531 kgm²
 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 2 / 4	Revision
Checked by				
Date	16/05/2022			

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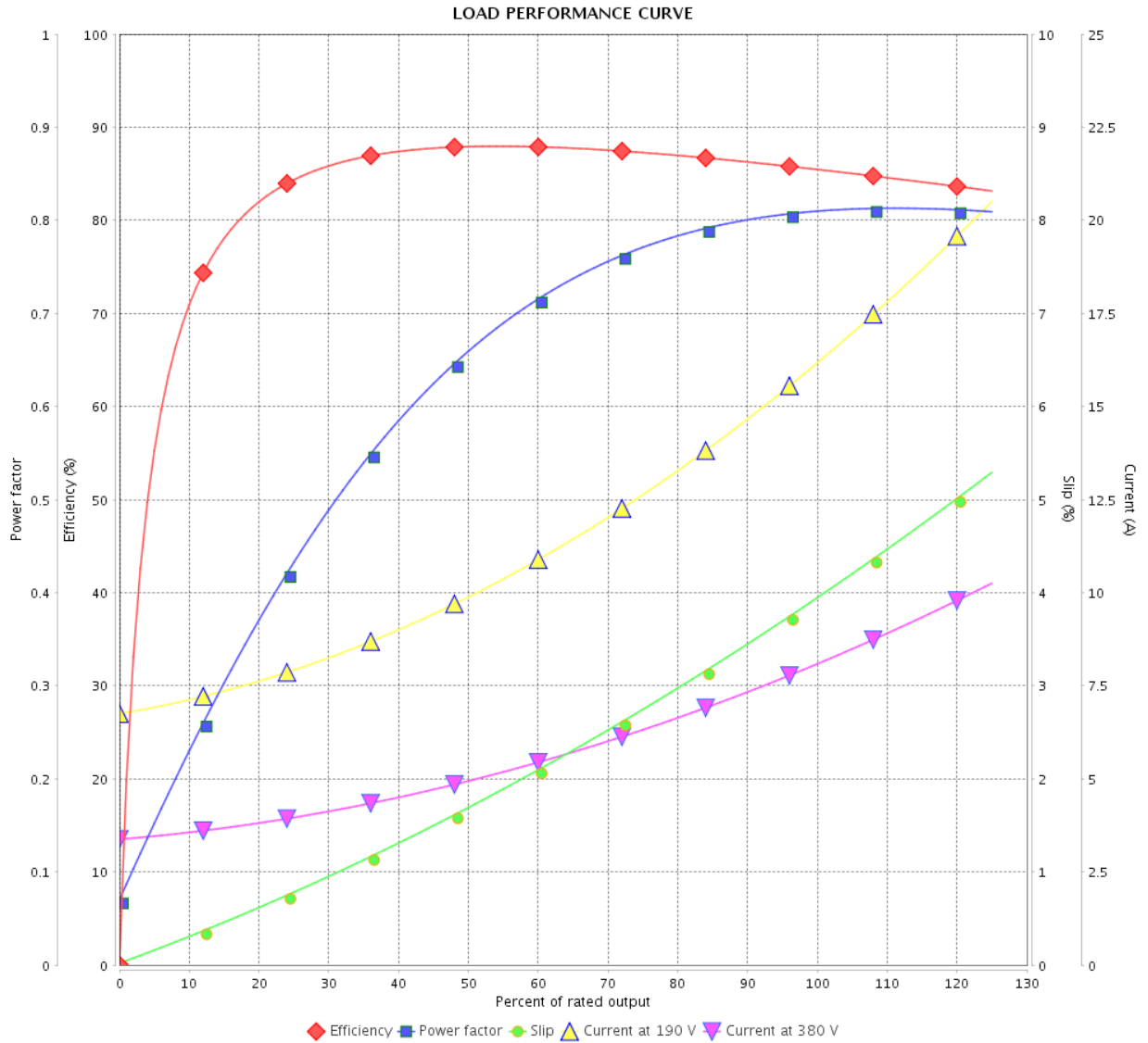
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Efficiency Three-Phase

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Performance : 190/380 V 50 Hz 6P

Rated current : 16.3/8.13 A
 LRC : 4.6
 Rated torque : 3.78 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 190 %
 Rated speed : 960 rpm

Moment of inertia (J) : 0.0531 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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

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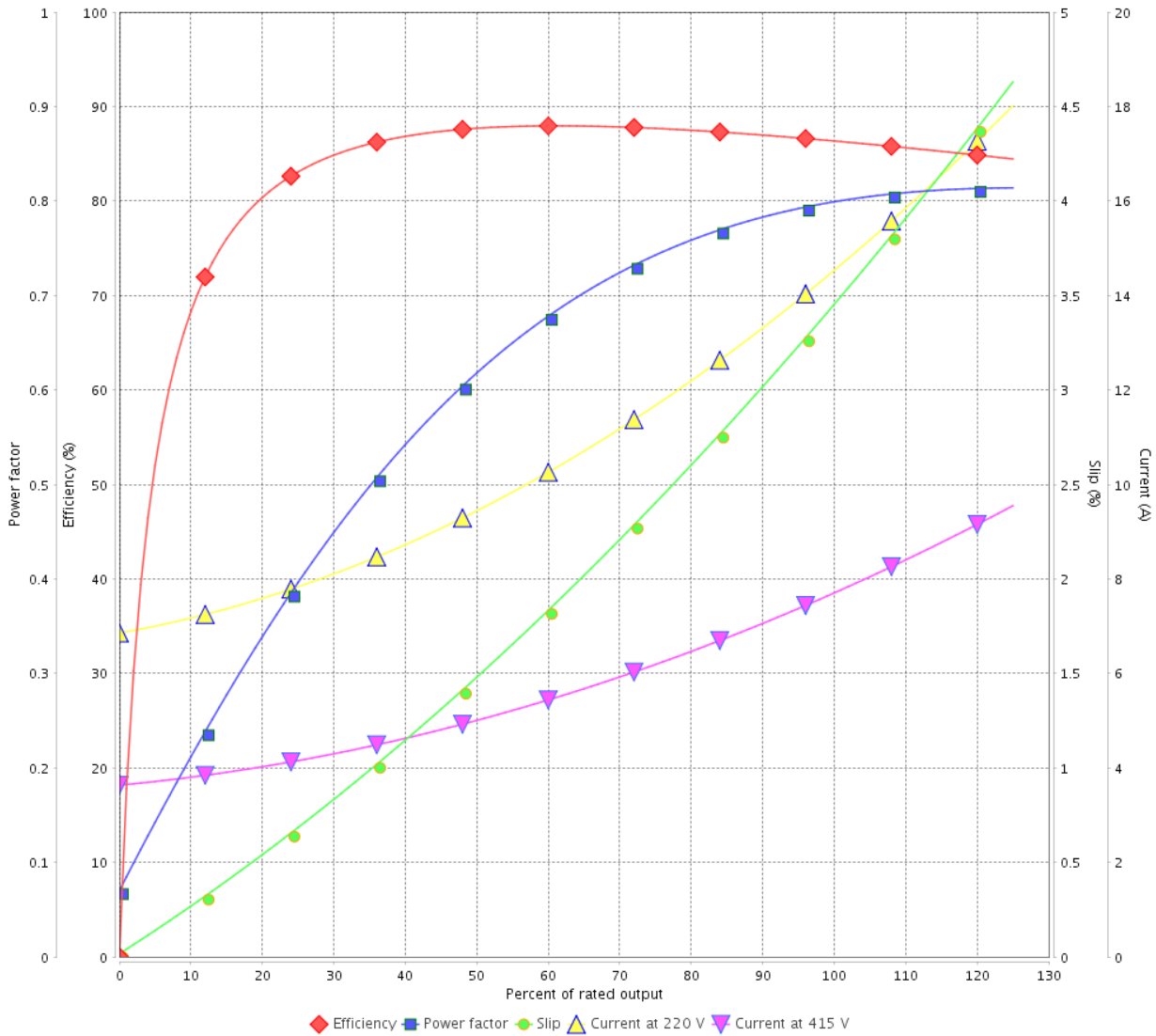


Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13440285

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Performance : 220/415 V 50 Hz 6P

Rated current : 14.6/7.74 A
 LRC : 5.2
 Rated torque : 3.76 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 210 %
 Rated speed : 965 rpm

Moment of inertia (J) : 0.0531 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
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