

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 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 ³	: 57.3 kg
Design	: B	Moment of inertia (J)	: 0.0546 kgm ²

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 ²	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

	<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	: 6209 ZZ	6206 ZZ	Foundation loads
Sealing	: Without	Without	Max. traction : 245 kgf
	Bearing Seal	Bearing Seal	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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	11/05/2022			

Page 1 / 4
Revision

LOAD PERFORMANCE CURVE

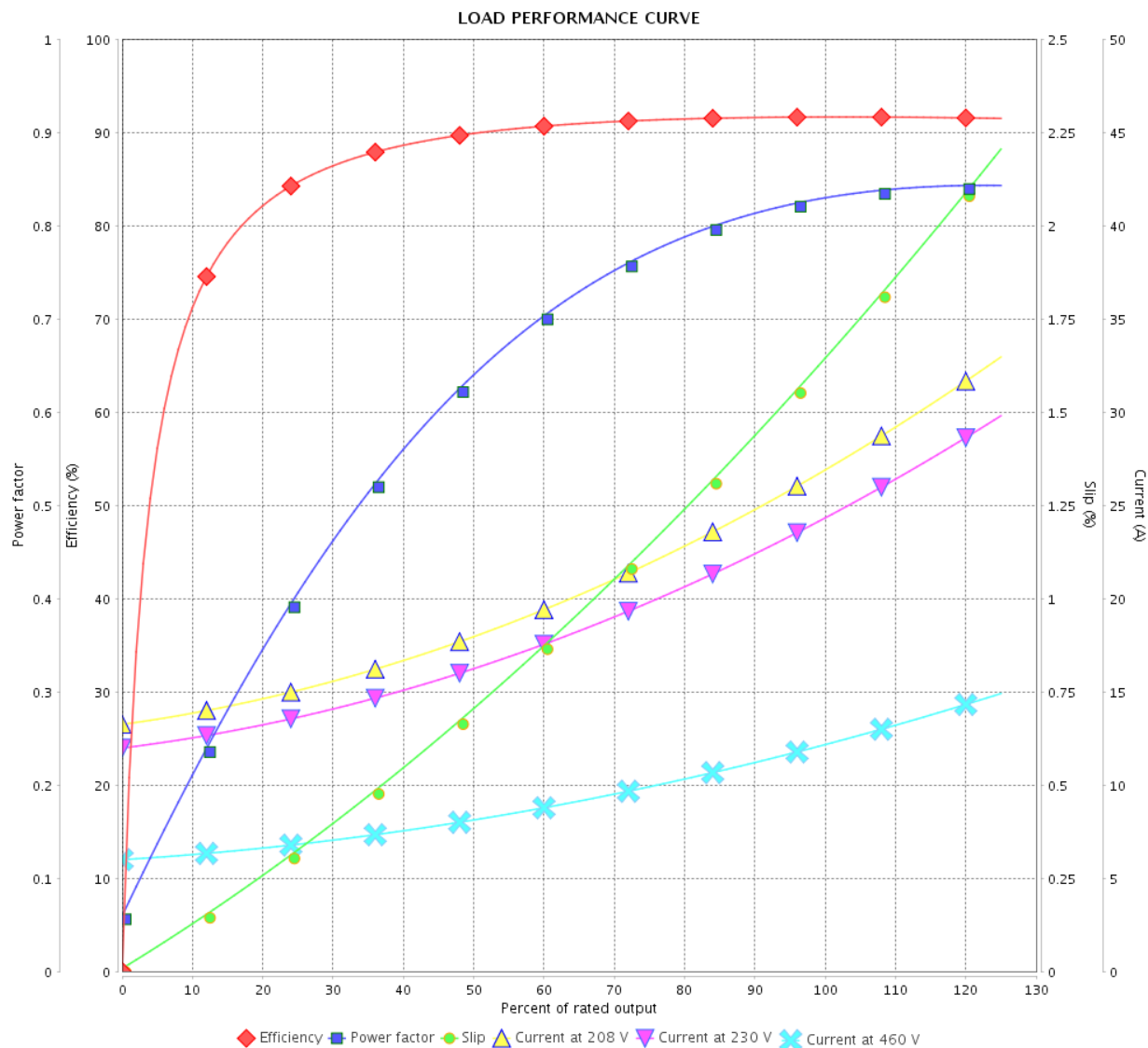
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13482796



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 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	Revision
Checked by				2 / 4	
Date					

LOAD PERFORMANCE CURVE

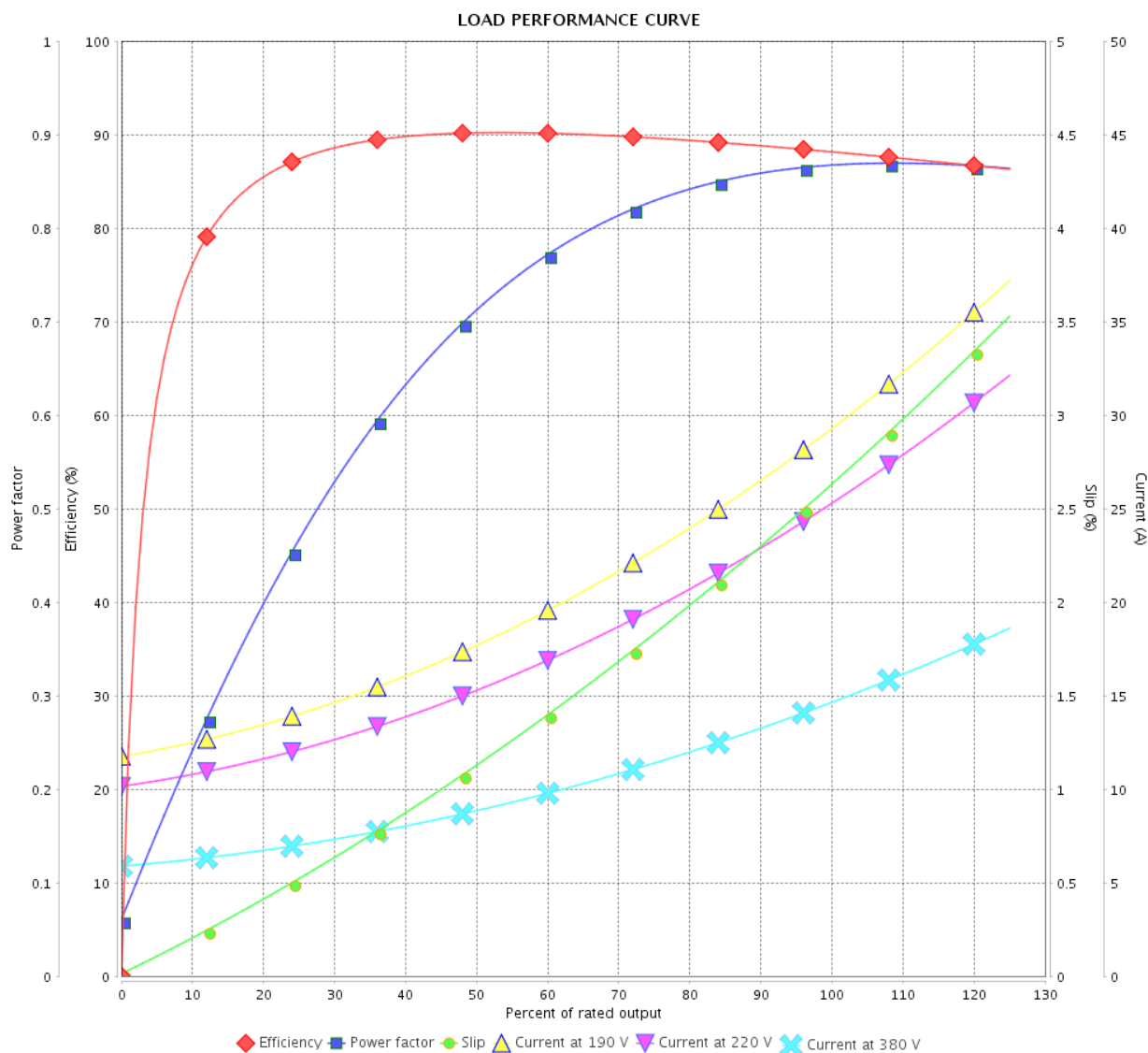
Three Phase Induction Motor - Squirrel Cage



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 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	Revision
Checked by				3 / 4	
Date					

LOAD PERFORMANCE CURVE

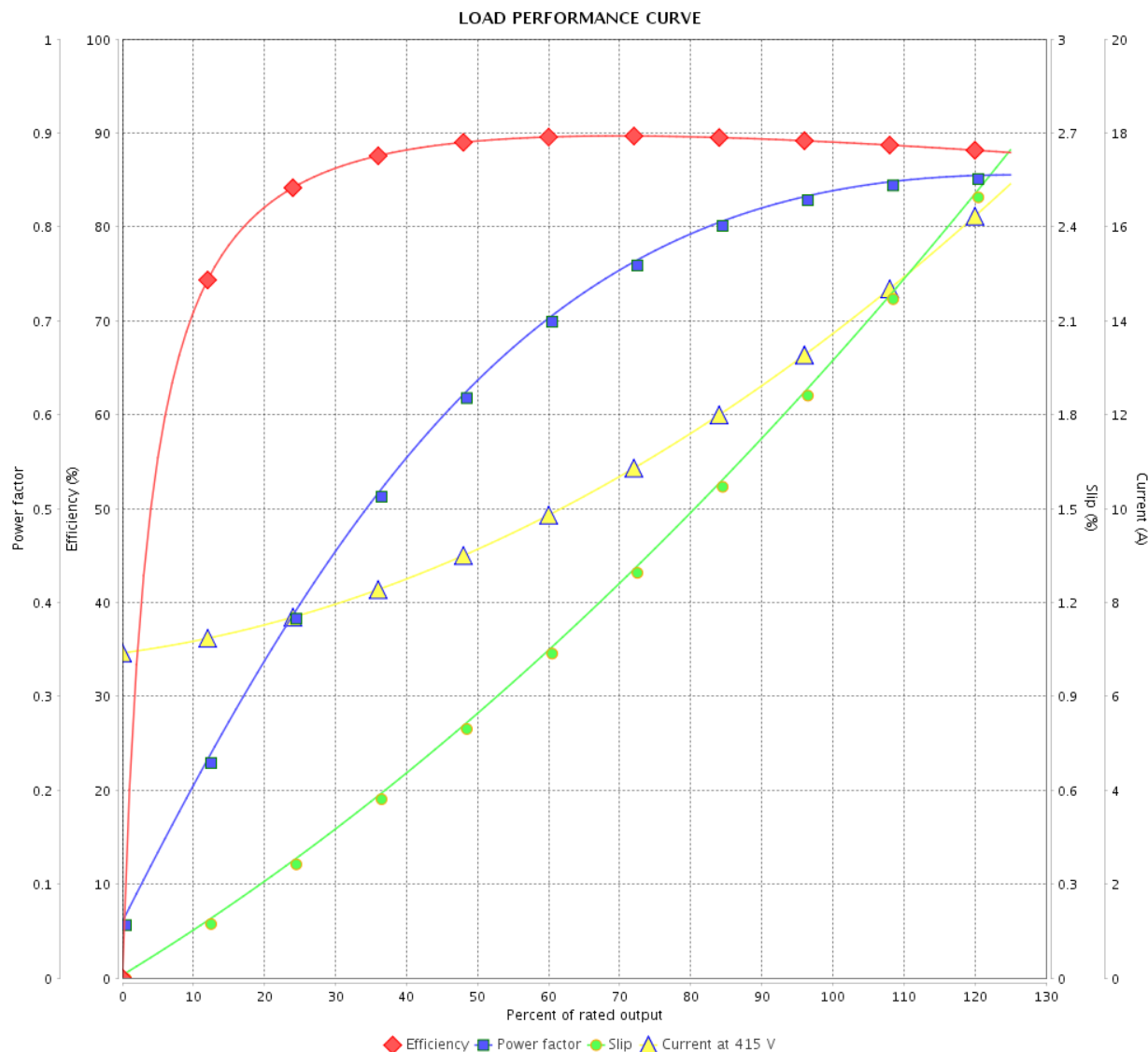
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13482796



Performance : 415 V 50 Hz 4P

Rated current : 14.0 A
LRC : 7.6
Rated torque : 4.94 kgfm
Locked rotor torque : 250 %
Breakdown torque : 300 %
Rated speed : 1470 rpm

Moment of inertia (J) : 0.0546 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 4 / 4	Revision
Checked by					
Date	11/05/2022				

