

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>	Foundation loads
Bearing type	: 6209 ZZ	6206 ZZ	Max. traction : 245 kgf
Sealing	: Without	Without	Max. compression : 303 kgf
	Bearing Seal	Bearing Seal	
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

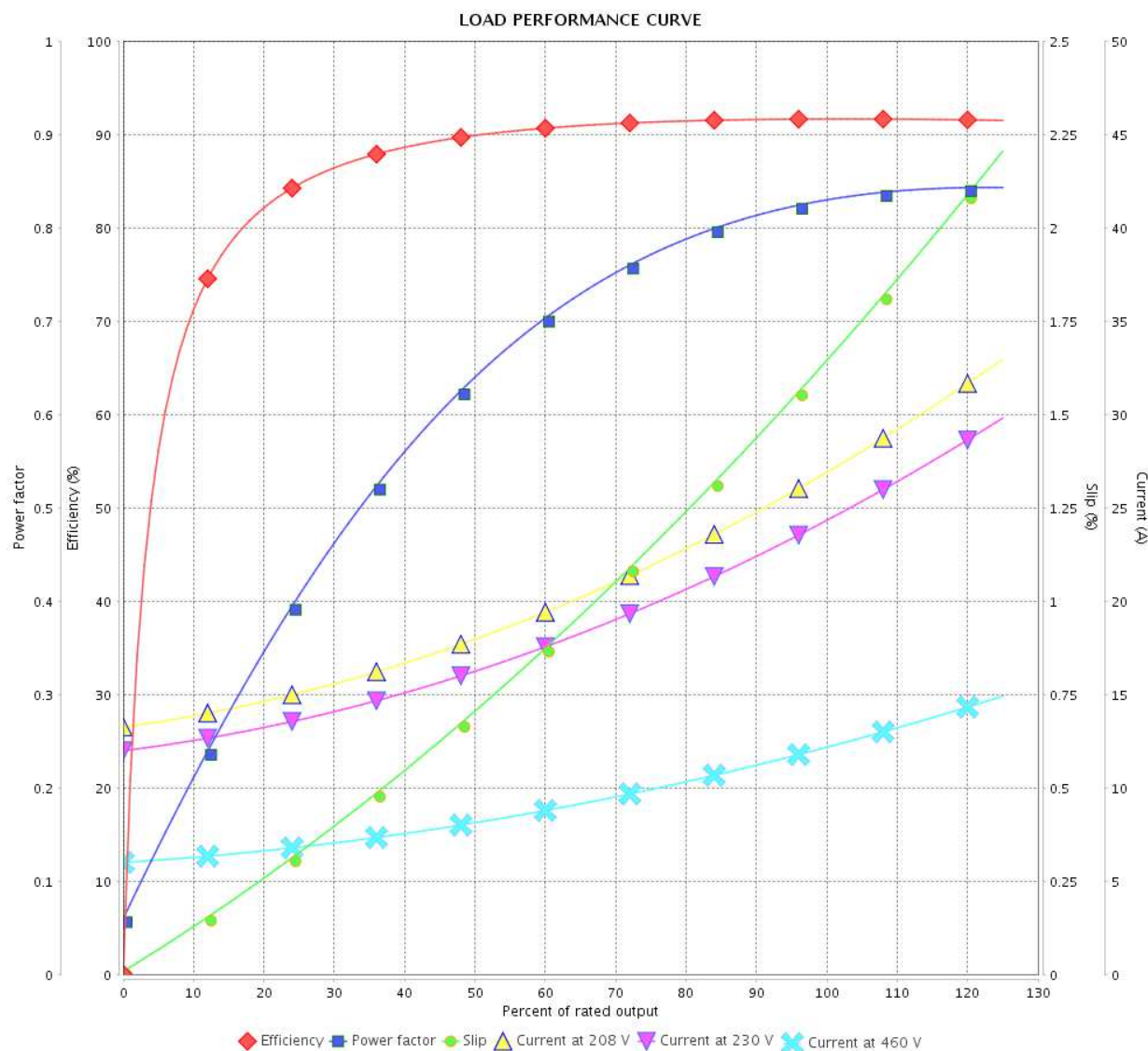
Three Phase Induction Motor - Squirrel Cage



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 2 / 4	Revision
Checked by					
Date	11/05/2022				

LOAD PERFORMANCE CURVE

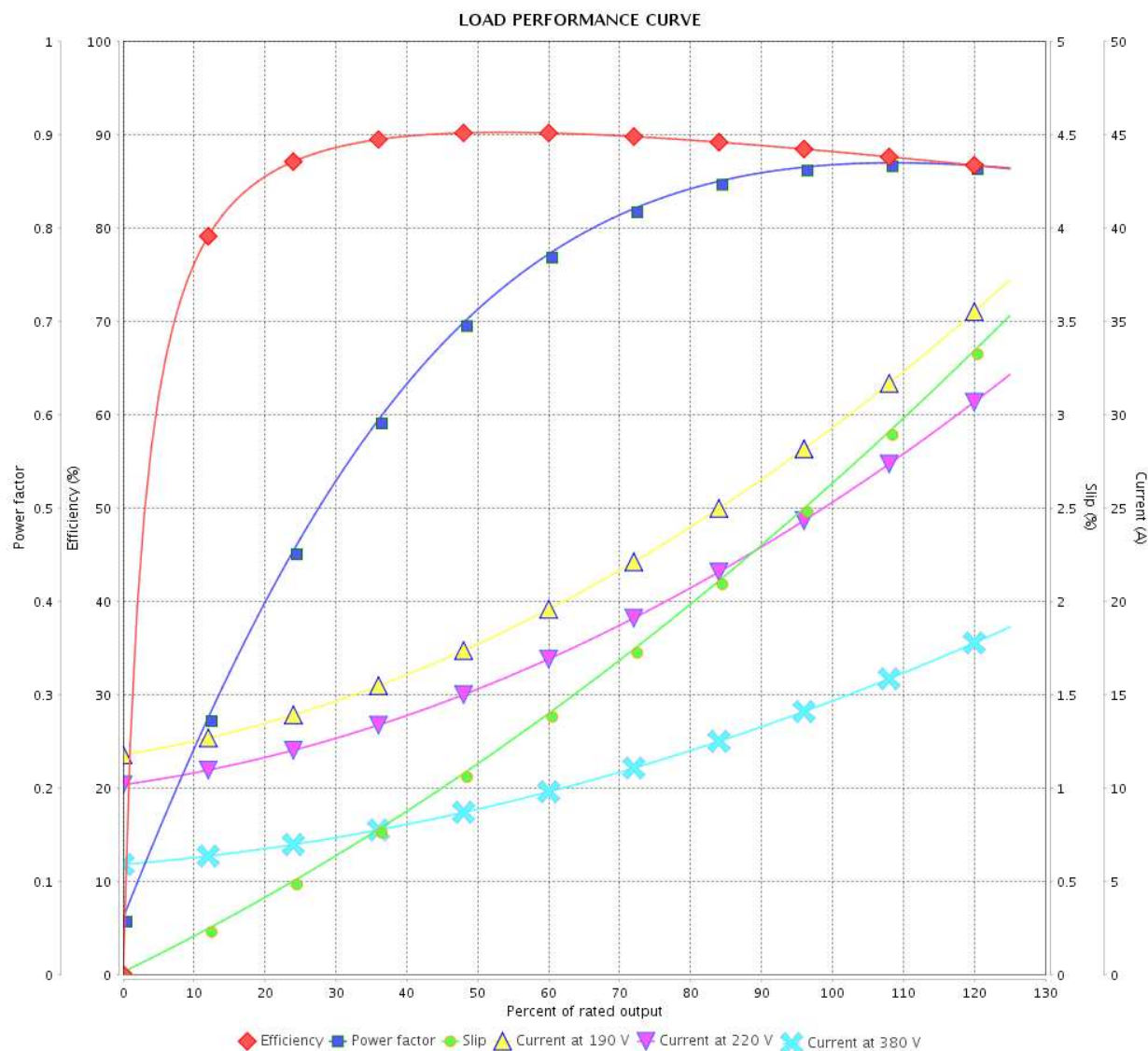
Three Phase Induction Motor - Squirrel Cage



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 3 / 4		
Checked by				
Date	11/05/2022			
		Revision		

LOAD PERFORMANCE CURVE

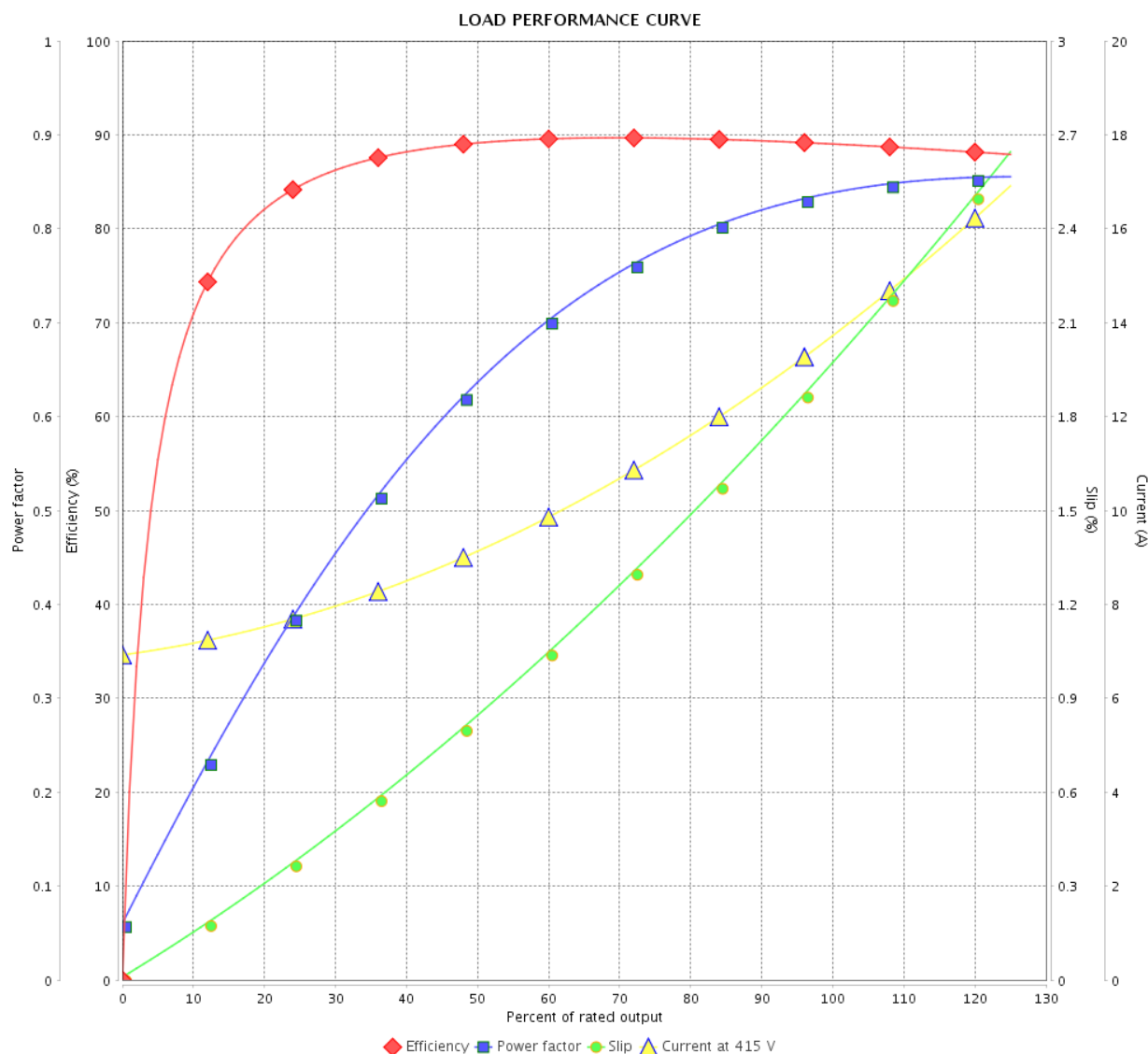
Three Phase Induction Motor - Squirrel Cage



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				

