

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JP Pump NEMA Premium Efficiency Three-Phase Product code : 13393207

Frame	: 254/6JP	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 ³	: 89.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0904 kgm ²
Design	: B		

Output [HP]	15	10	10
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	36.4/18.2	30.8-26.6/15.4	15.0
L. R. Amperes [A]	237/118	228-197/114	126
LRC [A]	6.5x(Code G)	7.4x(Code J)	8.4x(Code L)
No load current [A]	17.3/8.65	16.1-13.9/8.05	9.19
Rated speed [RPM]	1770	1480	1485
Slip [%]	1.67	1.33	1.00
Rated torque [kgfm]	6	4	4
Locked rotor torque [%]	250	260	310
Breakdown torque [%]	300	350	420
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	34s (cold) 19s (hot)	45s (cold) 25s (hot)	36s (cold) 20s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	91.0	90.6
	75%	92.4	92.2
	100%	92.4	92.5
Power Factor	25%		
	50%	0.64	0.53
	75%	0.76	0.66
	100%	0.82	0.75

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	9.5	9.3	9.3
	P2 (0,5;1,0)	8.4	8.3	8.3
	P3 (0,25;1,0)	8.1	7.9	8.0
	P4 (0,9;0,5)	4.4	4.3	4.4
	P5 (0,5;0,5)	3.3	3.2	3.2
	P6 (0,5;0,25)	2.1	2.1	2.1
	P7 (0,25;0,25)	1.6	1.6	1.6

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6309 Z C3	6208 Z C3	Max. traction : 271 kgf
Sealing	: V'Ring	Without Bearing Seal	Max. compression : 375 kgf
Lubrication interval	: 20000 h	20000 h	
Lubricant amount	: 13 g	8 g	
Lubricant type	: Mobil Polyrex EM		

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).

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	05/10/2026		Page 1 / 5	Revision

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Customer :

Notes
USABLE @208V 40.2A SF 1.00 SFA 40.2A

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 2 / 5		Revision
Checked by					
Date	05/10/2026				

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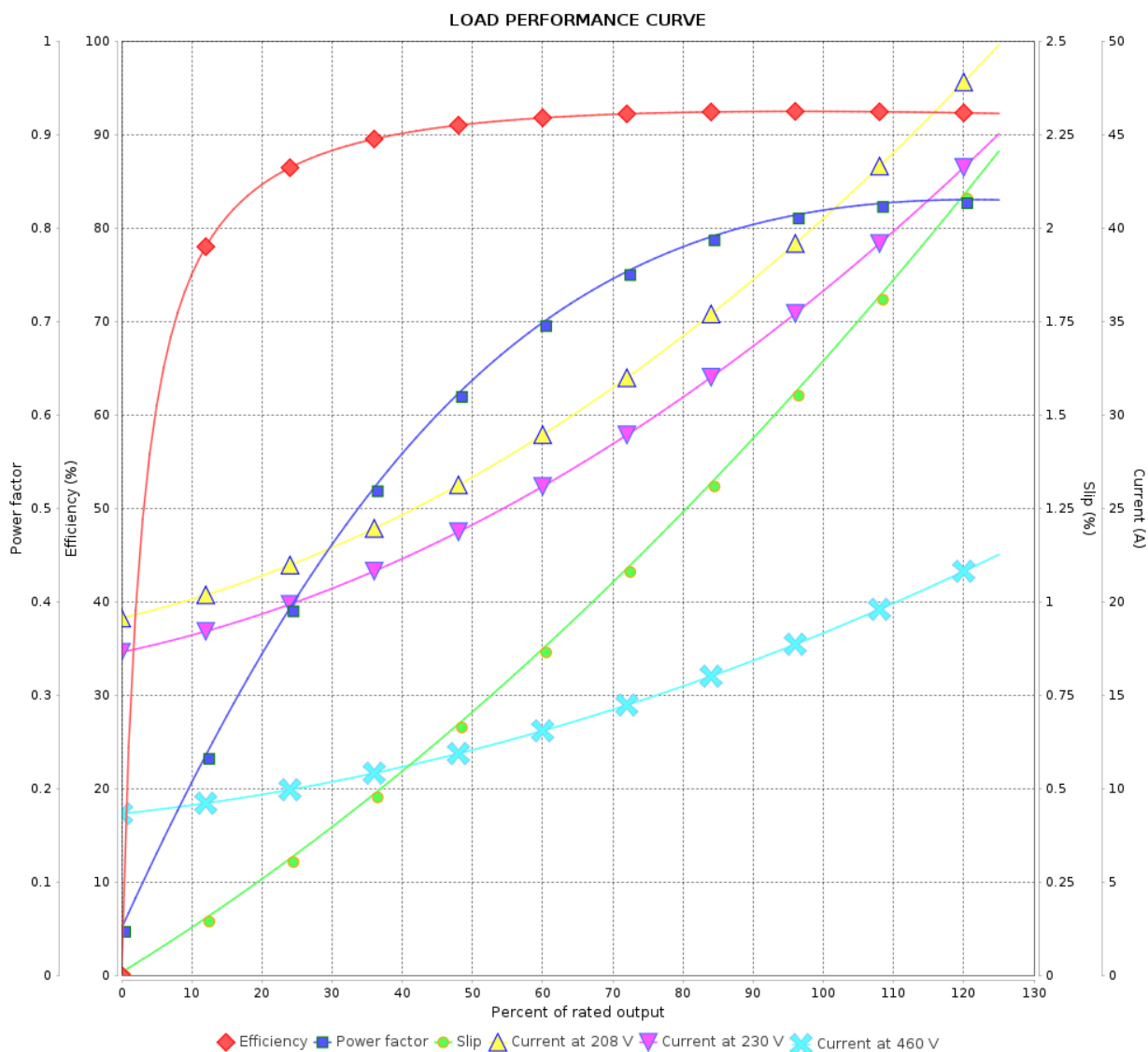
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JP Pump NEMA
Premium Efficiency Three-Phase

Product code : 13393207



Performance : 230/460 V 60 Hz 4P

Rated current : 36.4/18.2 A
LRC : 6.5
Rated torque : 6 kgfm
Locked rotor torque : 250 %
Breakdown torque : 300 %
Rated speed : 1770 rpm

Moment of inertia (J) : 0.0904 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 / 5Revision		
Checked by				
Date	05/10/2026			

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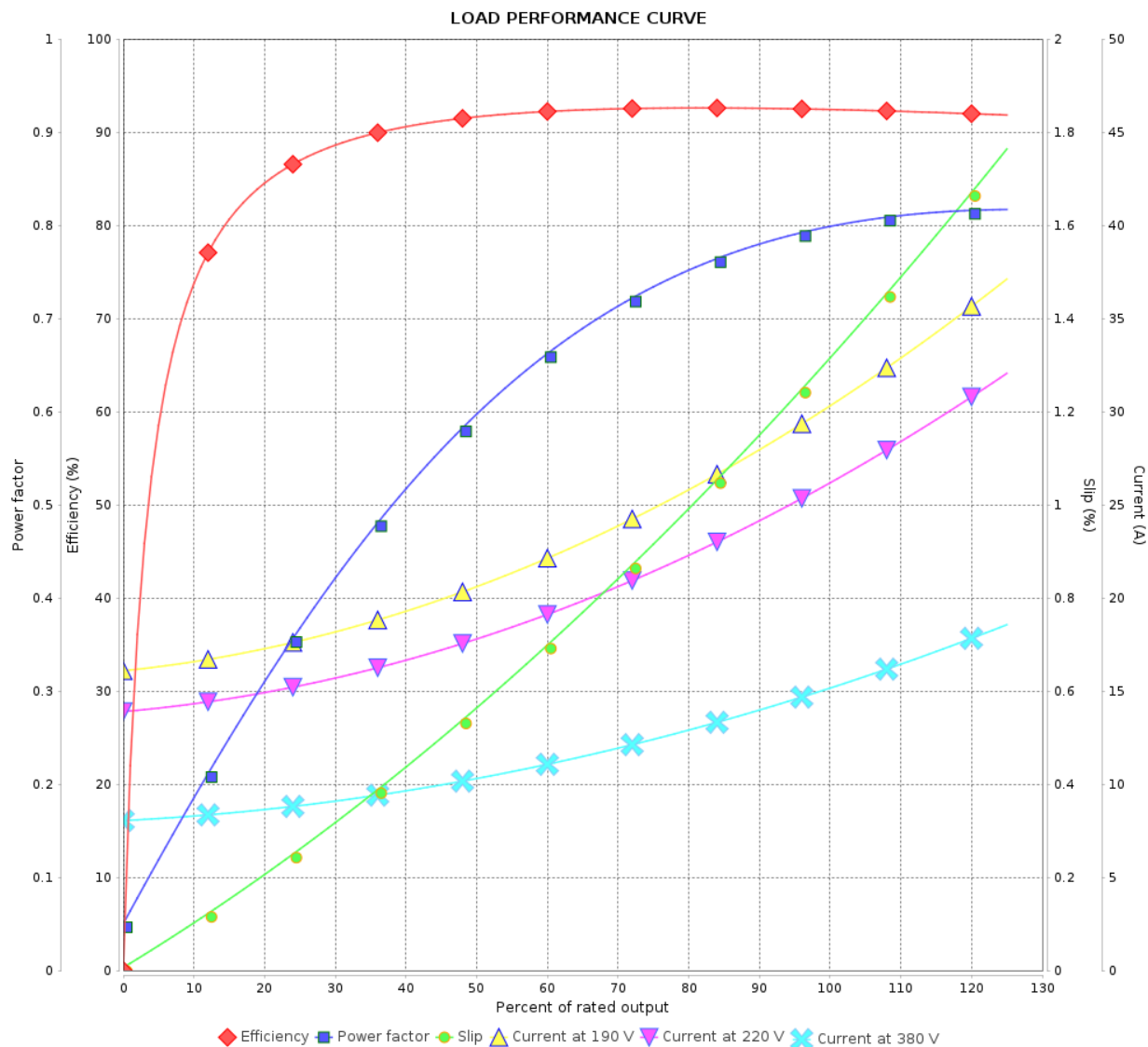
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JP Pump NEMA
Premium Efficiency Three-Phase

Product code : 13393207



Performance : 190-220/380 V 50 Hz 4P

Rated current : 30.8-26.6/15.4 A
LRC : 7.4
Rated torque : 4 kgfm
Locked rotor torque : 260 %
Breakdown torque : 350 %
Rated speed : 1480 rpm

Moment of inertia (J) : 0.0904 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				4 / 5	
Date					

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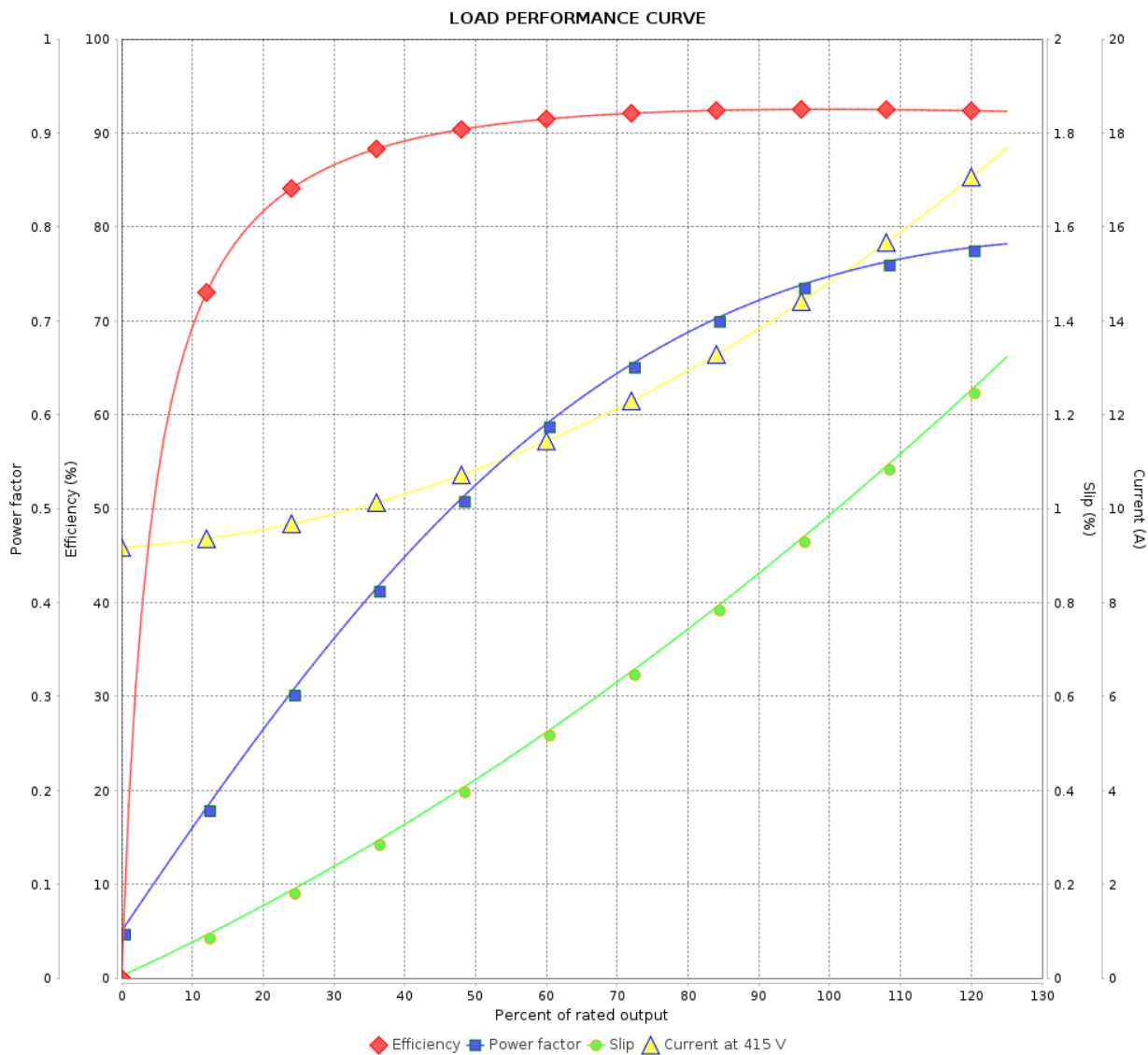
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JP Pump NEMA
Premium Efficiency Three-Phase

Product code : 13393207



Performance : 415 V 50 Hz 4P

Rated current : 15.0 A
LRC : 8.4
Rated torque : 4 kgfm
Locked rotor torque : 310 %
Breakdown torque : 420 %
Rated speed : 1485 rpm

Moment of inertia (J) : 0.0904 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 5 / 5Revision		
Checked by				
Date	05/10/2026			