

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Efficiency Three-Phase Product code : 13180573

Frame	: 254/6JM	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	: 103 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0904 kgm ²
Design	: B		

Output [HP]	15	15	15
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	43.8-37.8/21.9	20.6
L. R. Amperes [A]	237/118	241-208/120	134
LRC [A]	6.5x(Code G)	5.5x(Code F)	6.5x(Code H)
No load current [A]	17.3/8.65	17.1-14.7/8.53	9.86
Rated speed [RPM]	1770	1455	1465
Slip [%]	1.67	3.00	2.33
Rated torque [kgfm]	6.15	7.48	7.43
Locked rotor torque [%]	250	190	229
Breakdown torque [%]	300	229	280
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	34s (cold) 19s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	91.0	90.9
	75%	92.4	91.4
	100%	92.4	90.7
Power Factor	25%		
	50%	0.64	0.64
	75%	0.76	0.76
	100%	0.82	0.82

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6309 Z C3	6208 Z C3	Max. traction : 276 kgf
Sealing	: V'Ring	Without Bearing Seal	Max. compression : 379 kgf
Lubrication interval	: 20000 h	20000 h	
Lubricant amount	: 13 g	8 g	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 40.2A SF 1.00 SFA 40.2A

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.

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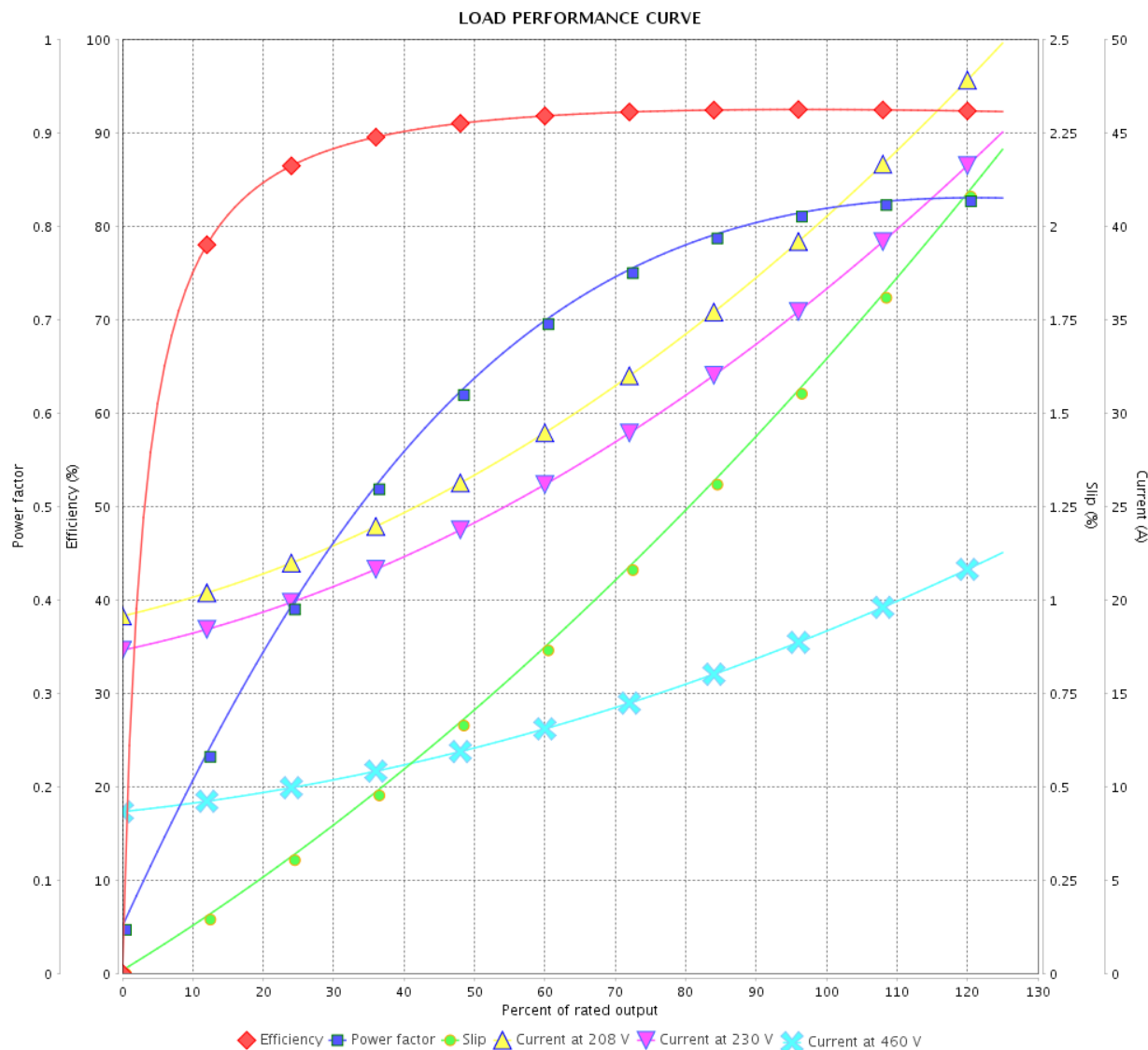
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13180573



Performance : 230/460 V 60 Hz 4P

Rated current : 36.4/18.2 A
LRC : 6.5
Rated torque : 6.15 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

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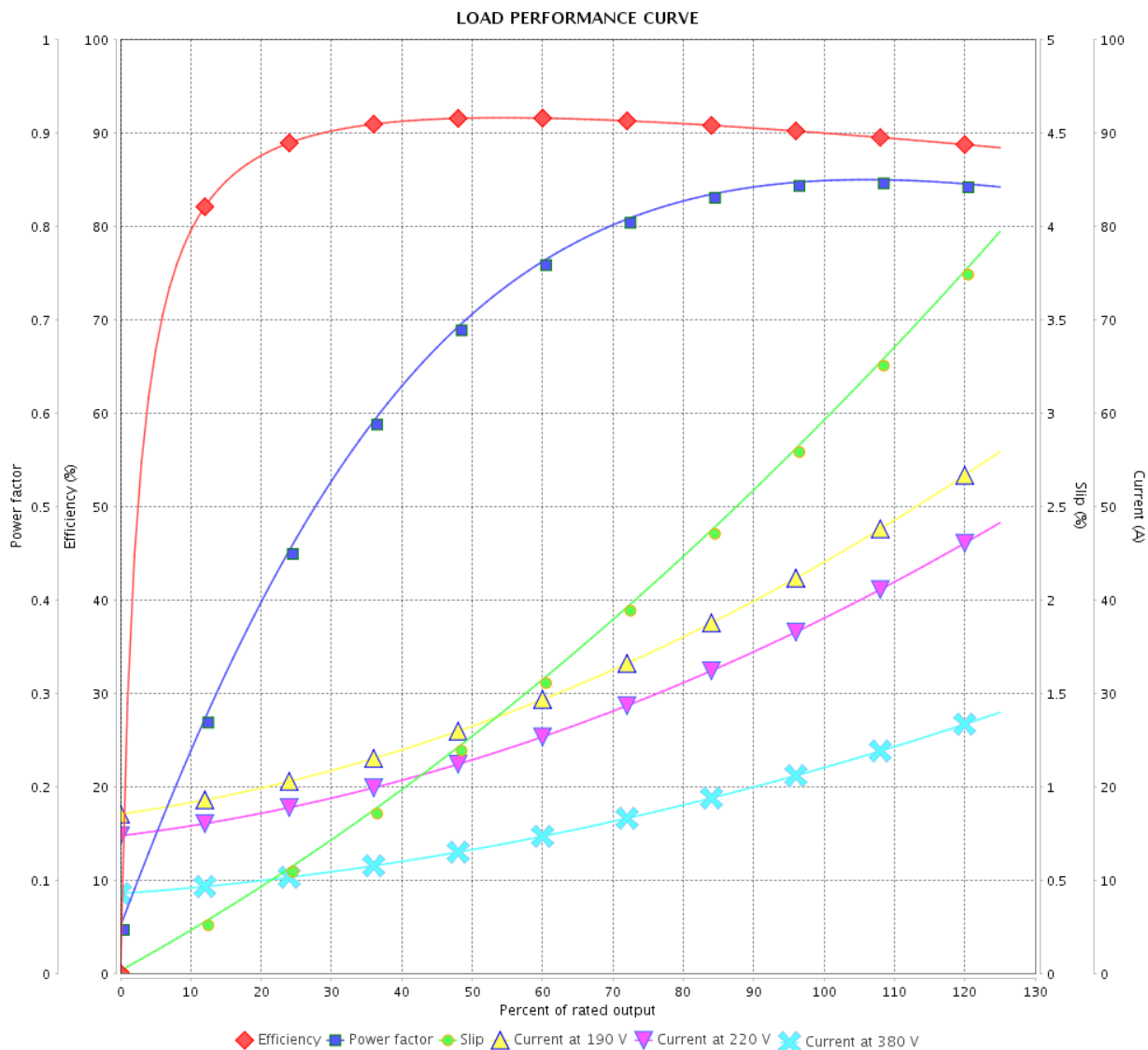
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13180573



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

Rated current : 43.8-37.8/21.9 A
LRC : 5.5
Rated torque : 7.48 kgfm
Locked rotor torque : 190 %
Breakdown torque : 229 %
Rated speed : 1455 rpm

Moment of inertia (J) : 0.0904 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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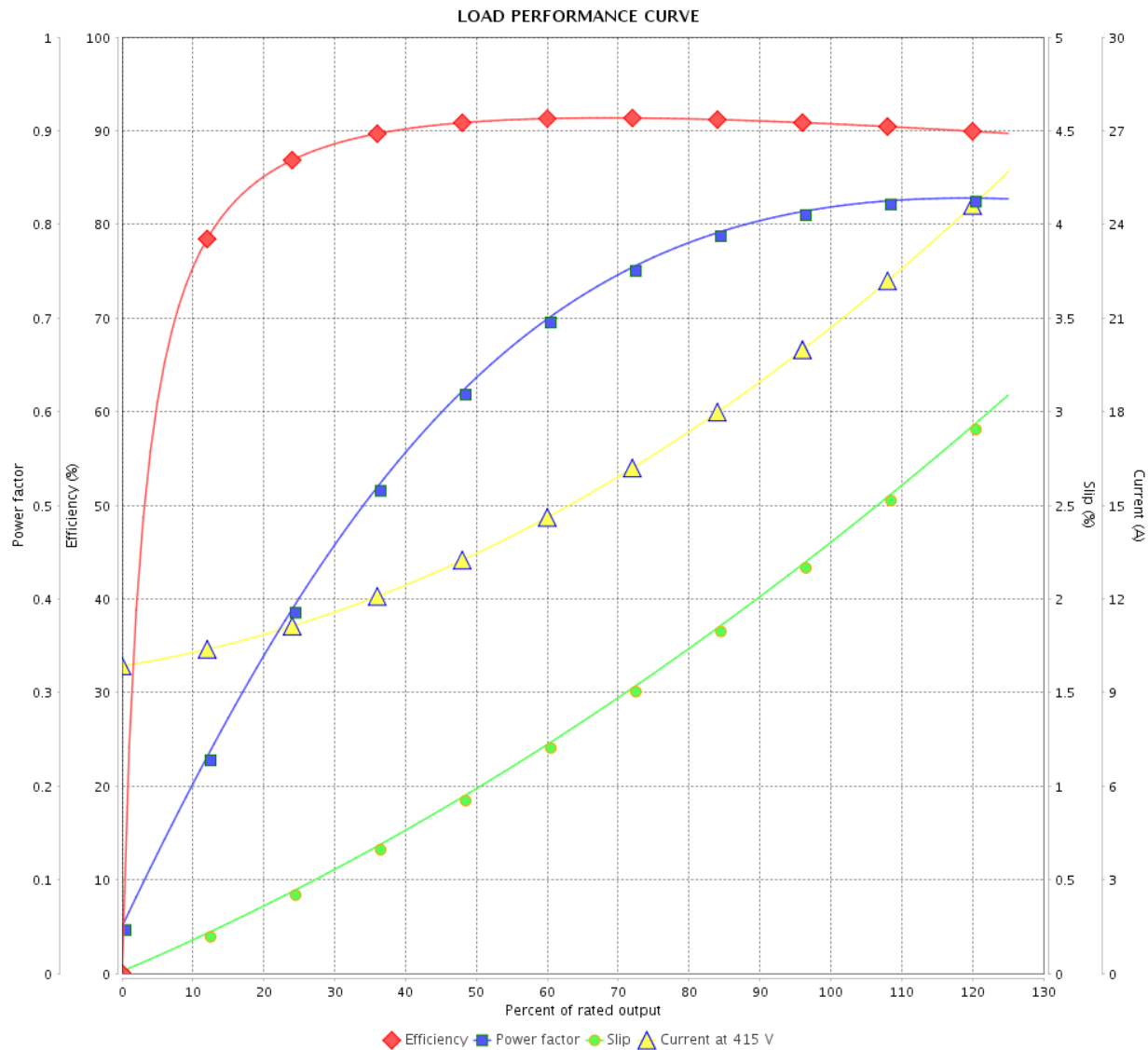
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13180573



Performance : 415 V 50 Hz 4P

Rated current : 20.6 A
LRC : 6.5
Rated torque : 7.43 kgfm
Locked rotor torque : 229 %
Breakdown torque : 280 %
Rated speed : 1465 rpm

Moment of inertia (J) : 0.0904 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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