DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13401322

Frame	: 143/5JM	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 23.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0070 kgm²
Design	: B		

Output [HP]		3	3	3
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		7.02/3.51	8.50-7.34/4.25	3.91
L. R. Amperes [A]		66.7/33.3	62.9-54.3/31.5	34.8
LRC [A]		9.5x(Code K)	7.4x(Code H)	8.9x(Code K)
No load current [A]		2.56/1.28	2.52-2.18/1.26	1.44
Rated speed [RPM]		3500	2870	2895
Slip [%]		2.78	4.33	3.50
Rated torque [kgfm]		0.622	0.759	0.752
Locked rotor torque [%]		300	229	290
Breakdown torque [%]		380	280	340
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		18s (cold) 10s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)
Noise level²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	83.6	87.9	86.8
	50%	84.0	86.6	86.2
	75%	86.5	86.4	87.0
	100%	86.5	84.6	86.0
Power Factor	25%	0.51	0.57	0.50
	50%	0.78	0.83	0.78
	75%	0.87	0.90	0.87
	100%	0.91	0.93	0.91

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6203 ZZ
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads
Max. traction : 61 kgf
Max. compression : 84 kgf

Notes
USABLE @208V 7.76A SF 1.00 SFA 7.76A

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

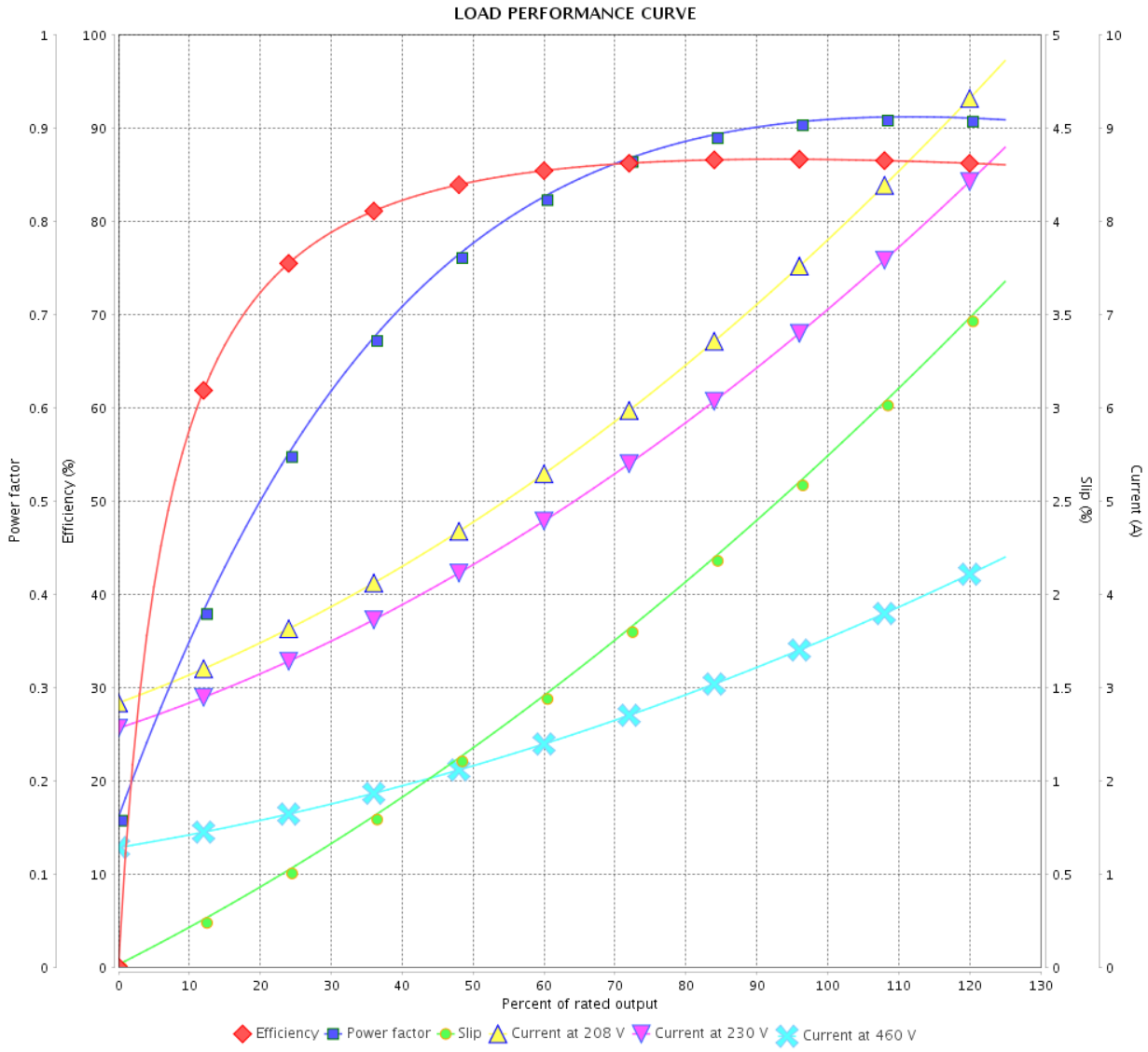
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13401322



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 7.02/3.51 A	Moment of inertia (J)	: 0.0070 kgm²
LRC	: 9.5	Duty cycle	: Cont.(S1)
Rated torque	: 0.622 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	:
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm	Design	: B

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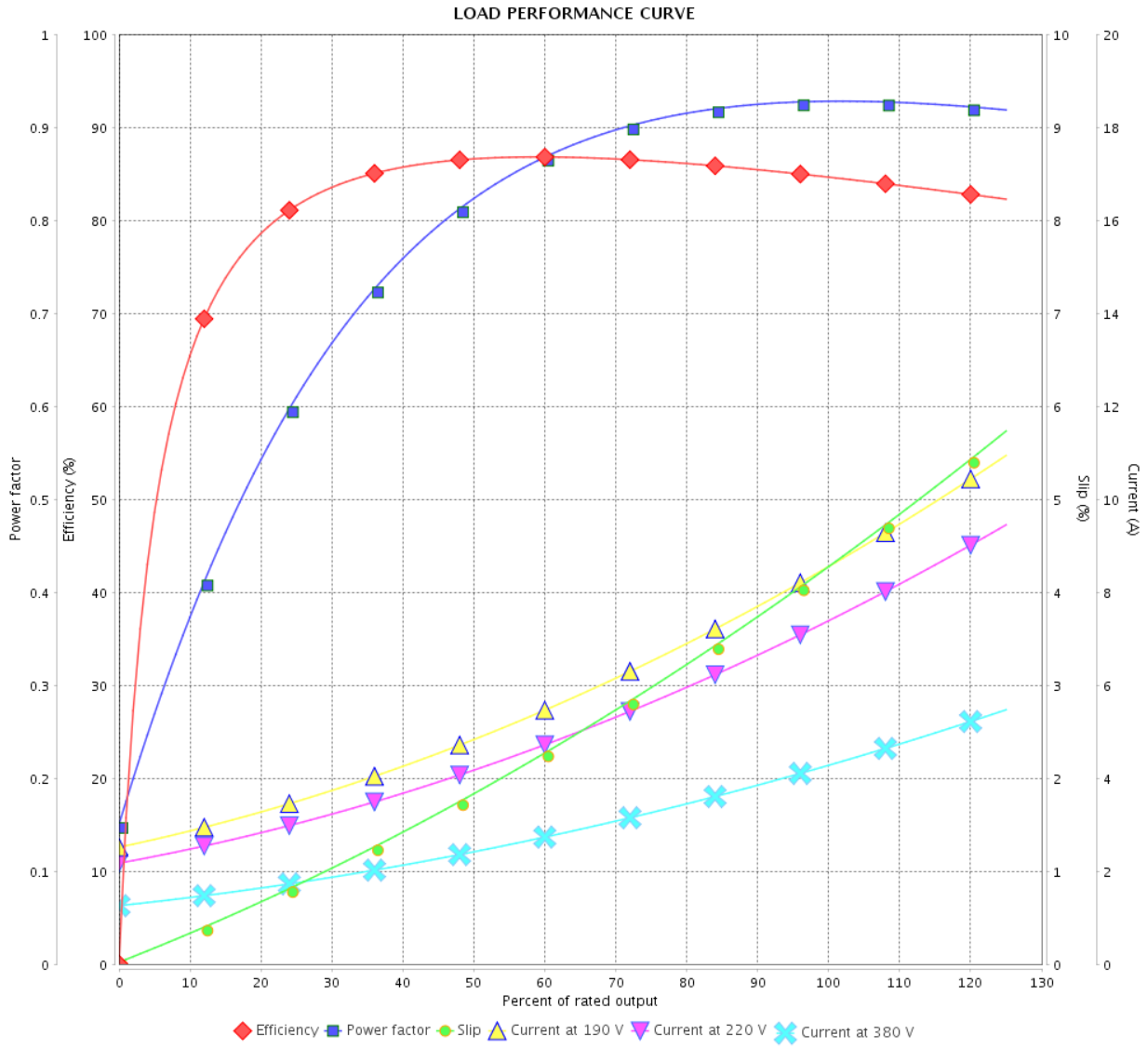
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13401322



Performance	: 190-220/380 V 50 Hz 2P		
Rated current	: 8.50-7.34/4.25 A	Moment of inertia (J)	: 0.0070 kgm²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.759 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2870 rpm	Design	: B

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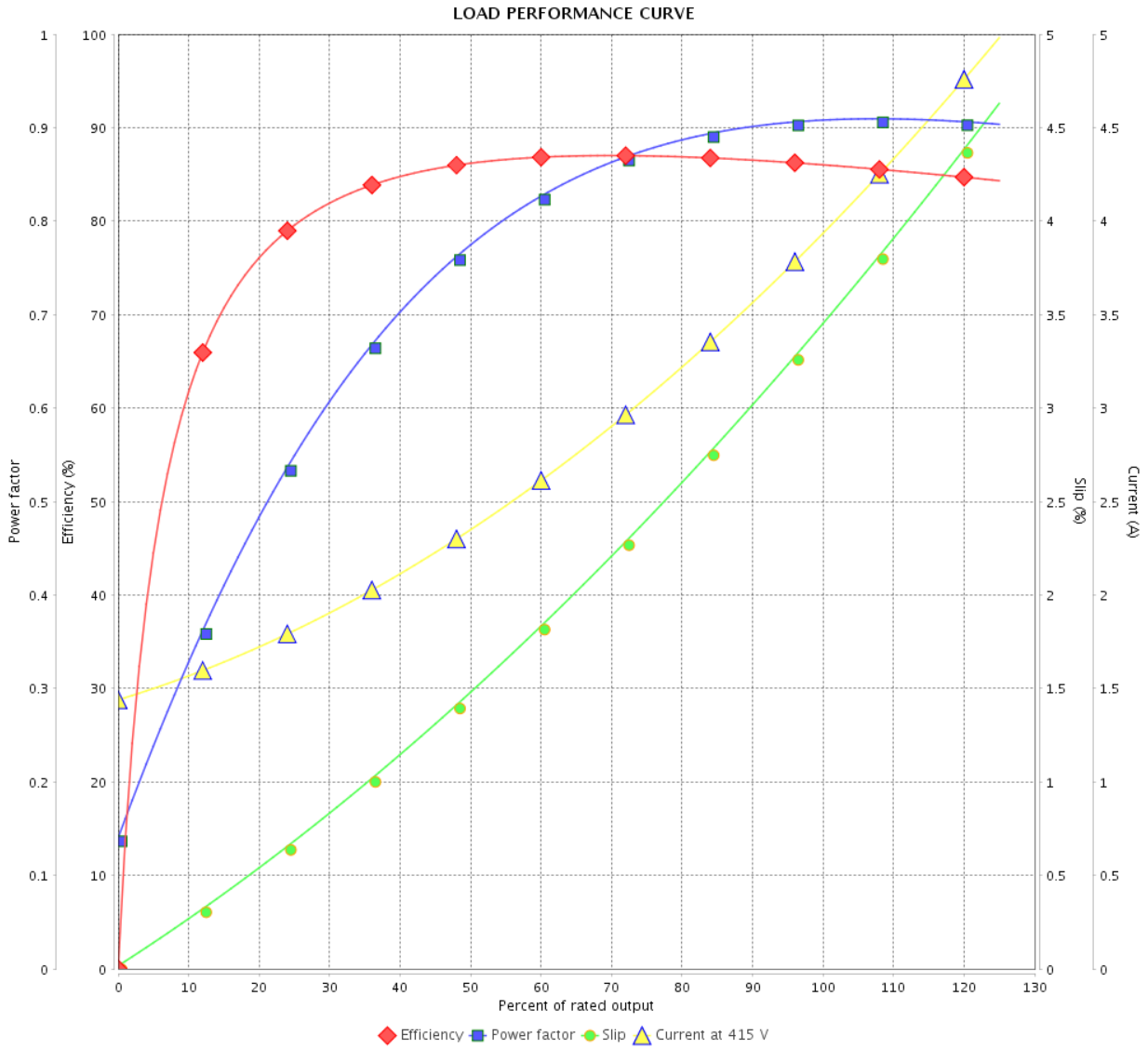
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13401322



Performance	: 415 V 50 Hz 2P		
Rated current	: 3.91 A	Moment of inertia (J)	: 0.0070 kgm²
LRC	: 8.9	Duty cycle	: Cont.(S1)
Rated torque	: 0.752 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2895 rpm	Design	: B

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