DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13408984

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	: 18.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0052 kgm²
Design	: B		

Output [HP]		1	1	1
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		2.94/1.47	3.40/1.70	3.09/1.64
L. R. Amperes [A]		25.3/12.6	22.1/11.0	22.0/11.6
LRC [A]		8.6x(Code M)	6.5x(Code J)	7.1x(Code K)
No load current [A]		1.78/0.890	1.76/0.879	1.77/0.938
Rated speed [RPM]		1765	1450	1455
Slip [%]		1.94	3.33	3.00
Rated torque [kgfm]		0.411	0.501	0.499
Locked rotor torque [%]		280	200	220
Breakdown torque [%]		300	270	300
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		34s (cold) 19s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	81.0	82.5	81.2
	50%	82.5	82.2	81.5
	75%	84.0	83.7	83.6
	100%	85.5	82.9	83.5
Power Factor	25%	0.30	0.36	0.33
	50%	0.52	0.62	0.58
	75%	0.66	0.74	0.71
	100%	0.75	0.81	0.79

		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 : 33 kgf
Max. compression : 51 kgf

Notes
USABLE @208V 3.25A SF 1.00 SFA 3.25A

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

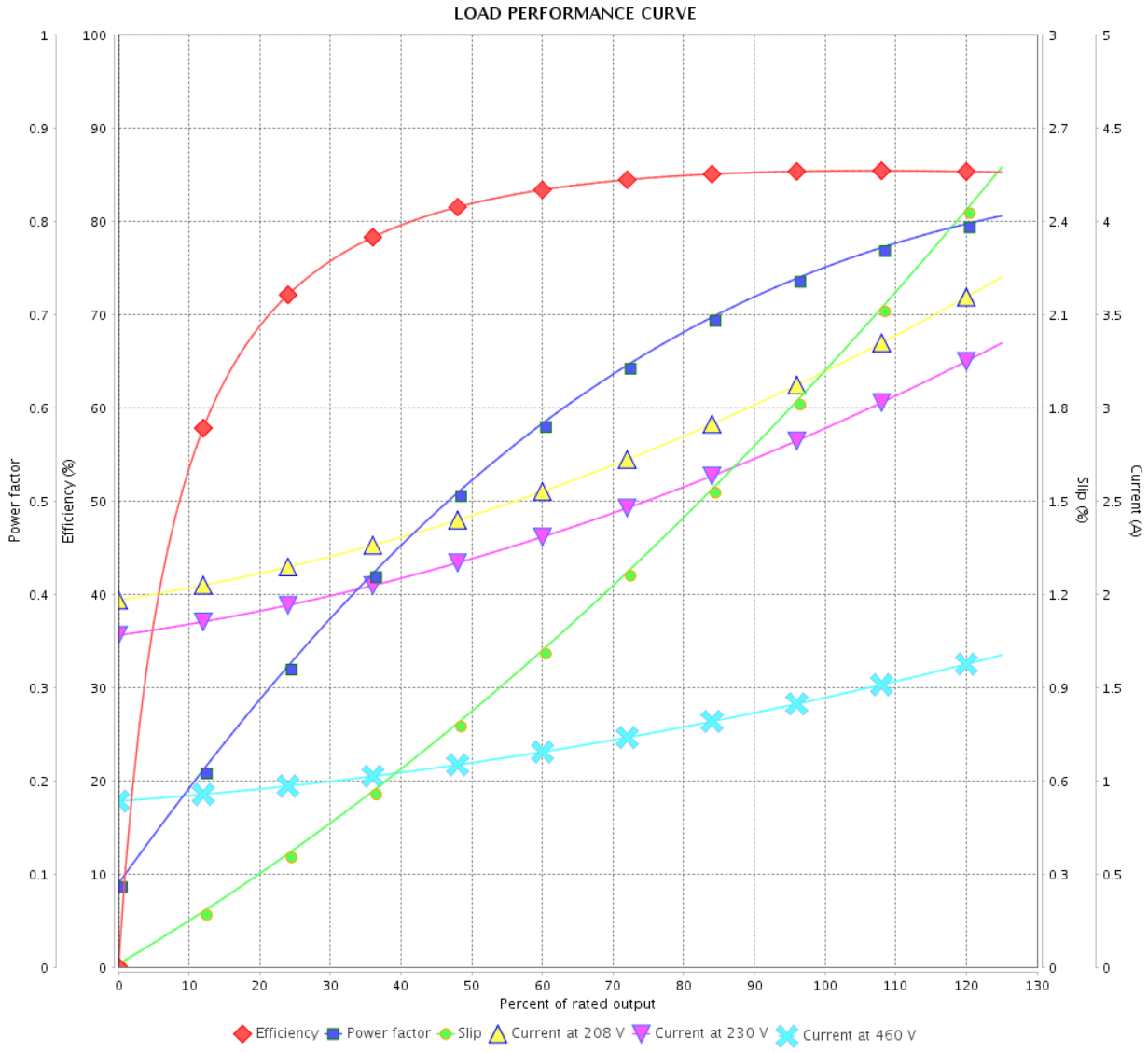
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13408984



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 2.94/1.47 A	Moment of inertia (J)	: 0.0052 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.411 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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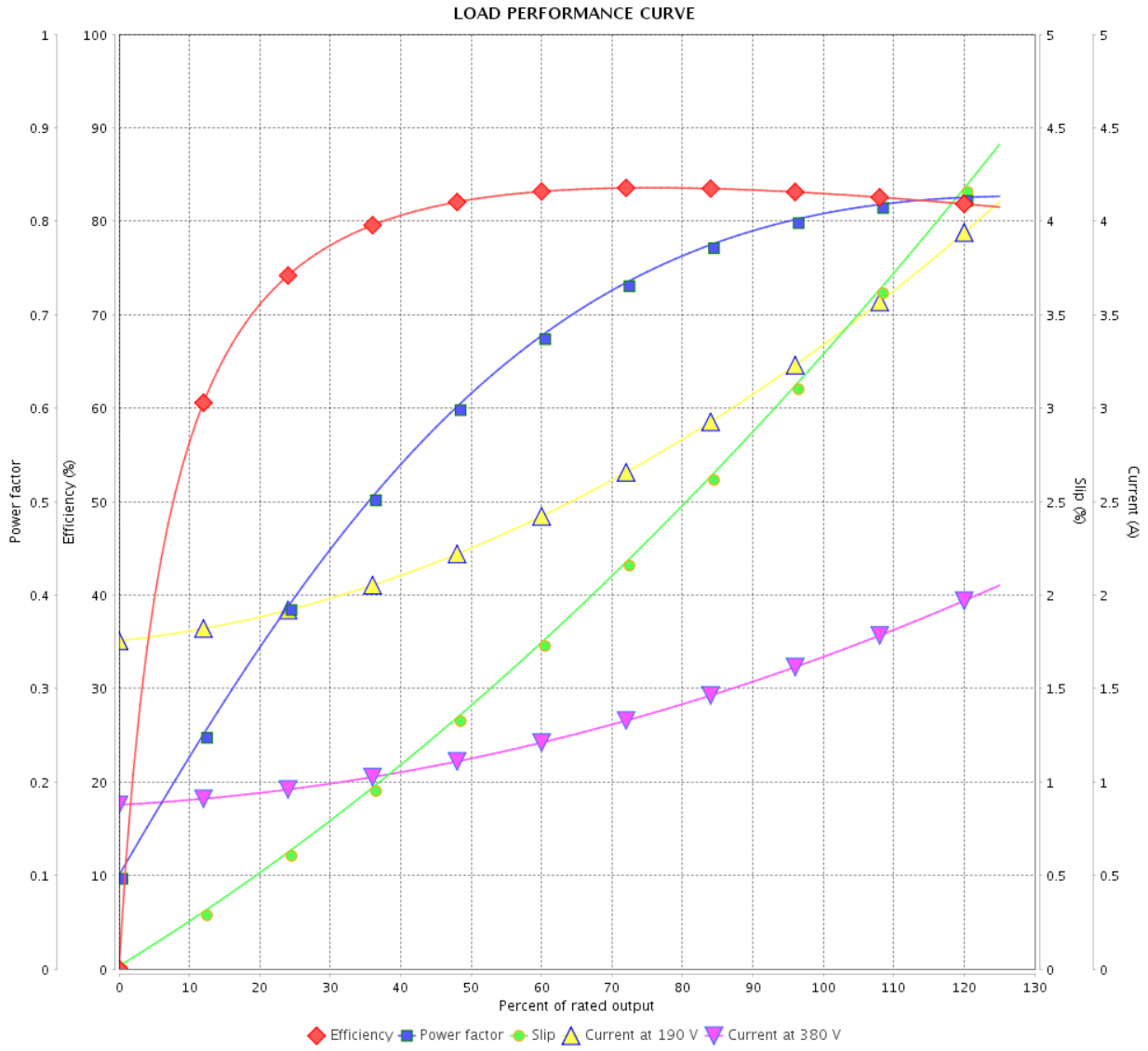
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13408984



Performance	: 190/380 V 50 Hz 4P		
Rated current	: 3.40/1.70 A	Moment of inertia (J)	: 0.0052 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 0.501 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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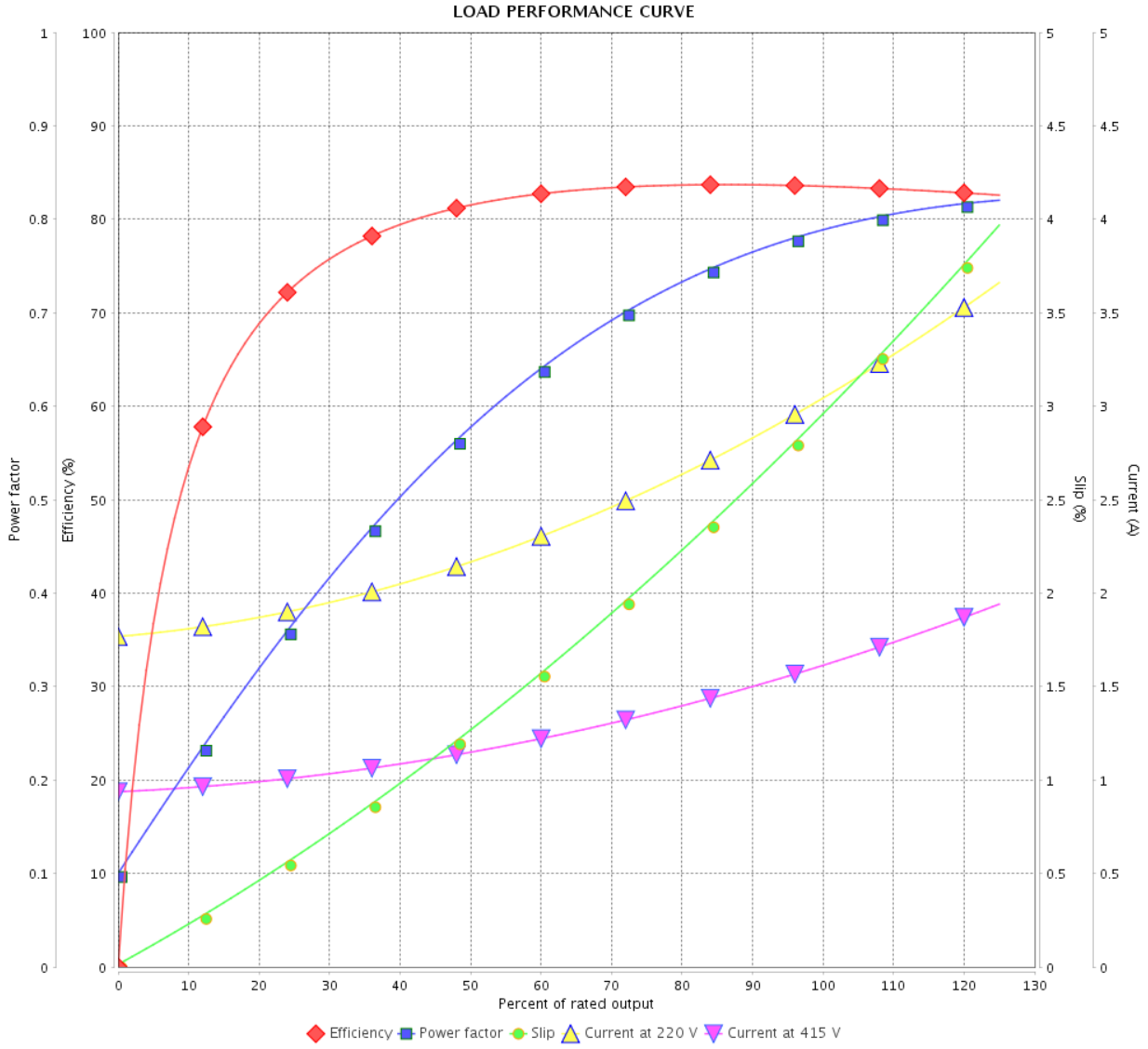
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13408984



Performance	: 220/415 V 50 Hz 4P		
Rated current	: 3.09/1.64 A	Moment of inertia (J)	: 0.0052 kgm²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 0.499 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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