DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13202802

Frame	: 254/6TC	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]	: 107 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0514 kgm²
Design	: B		

Output [HP]		20	15	15
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		45.4/22.7	40.8/20.4	36.8/19.5
L. R. Amperes [A]		300/150	302/151	298/158
LRC [A]		6.6x(Code G)	7.4x(Code H)	8.1x(Code J)
No load current [A]		13.8/6.88	13.6/6.79	13.7/7.26
Rated speed [RPM]		3515	2925	2935
Slip [%]		2.36	2.50	2.17
Rated torque [kgfm]		4.13	3.72	3.71
Locked rotor torque [%]		200	210	240
Breakdown torque [%]		290	310	340
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		21s (cold) 12s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level[2]		75.0 dB(A)	72.0 dB(A)	72.0 dB(A)
Efficiency (%)	25%	89.7	91.9	91.8
	50%	90.0	91.6	91.5
	75%	91.0	91.7	92.0
	100%	91.0	91.2	91.4
Power Factor	25%	0.55	0.52	0.48
	50%	0.81	0.79	0.75
	75%	0.88	0.87	0.85
	100%	0.91	0.90	0.89

		Drive end	Non drive end
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	15797 h	20000 h
Lubricant amount	:	13 g	8 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 145 kgf

Max. compression : 251 kgf

Notes

USABLE @208V 50.2A SF 1.00 SFA 50.2A

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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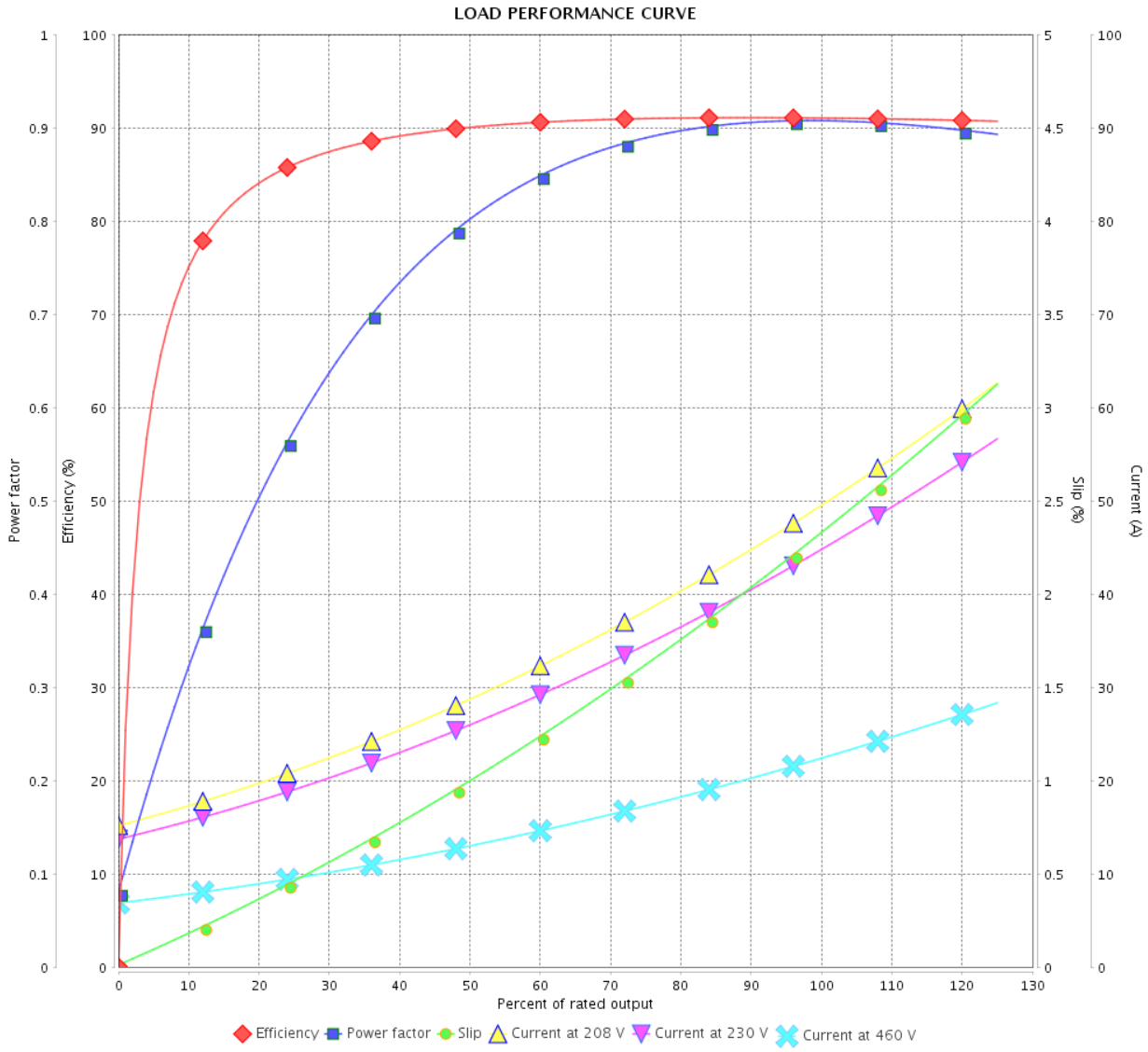

Performance	: 230/460 V 60 Hz 2P		
Rated current	: 45.4/22.7 A	Moment of inertia (J)	: 0.0514 kgm²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 4.13 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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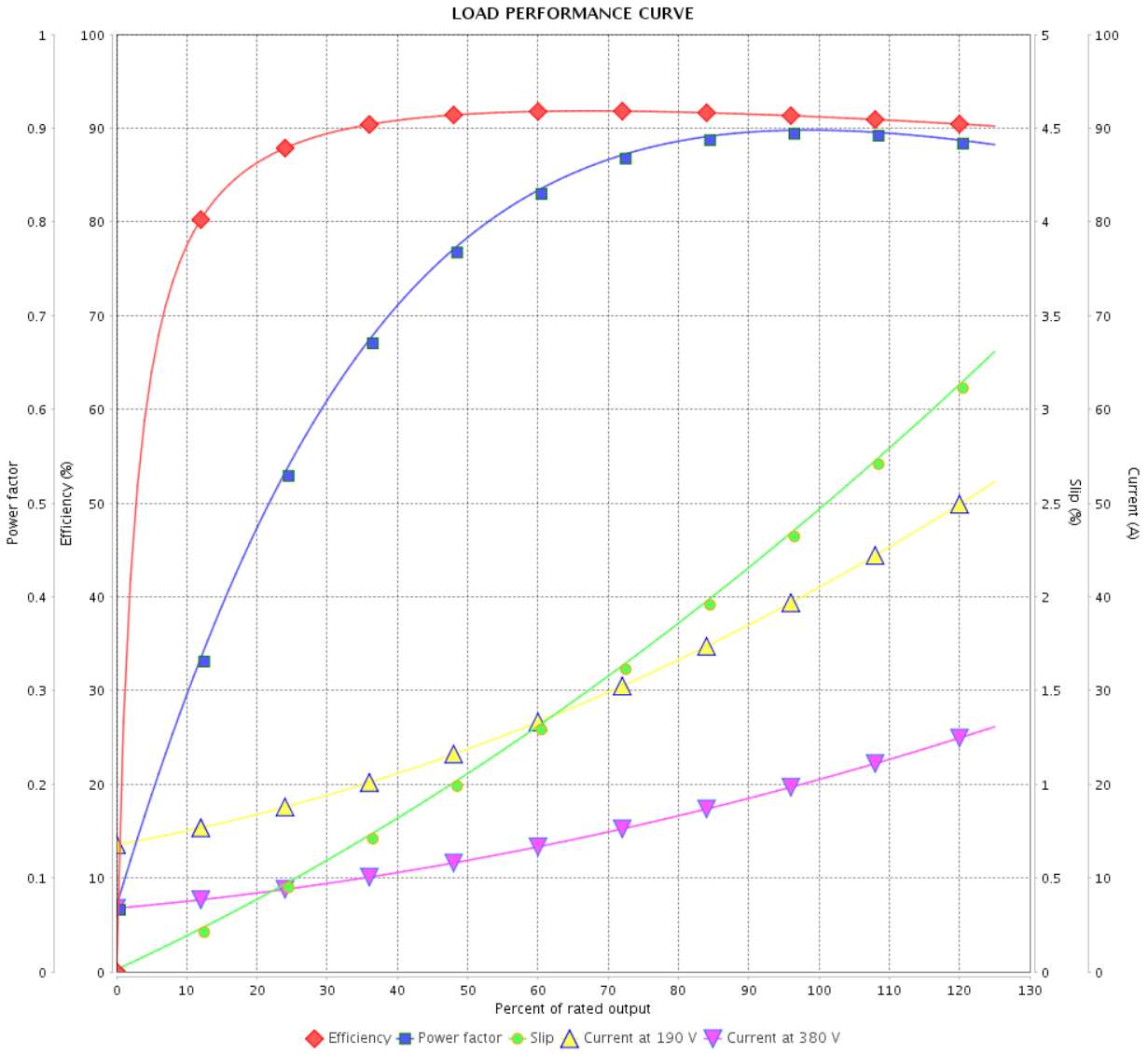

Performance	: 190/380 V 50 Hz 2P		
Rated current	: 40.8/20.4 A	Moment of inertia (J)	: 0.0514 kgm²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 3.72 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 105 K
Rated speed	: 2925 rpm	Design	: B

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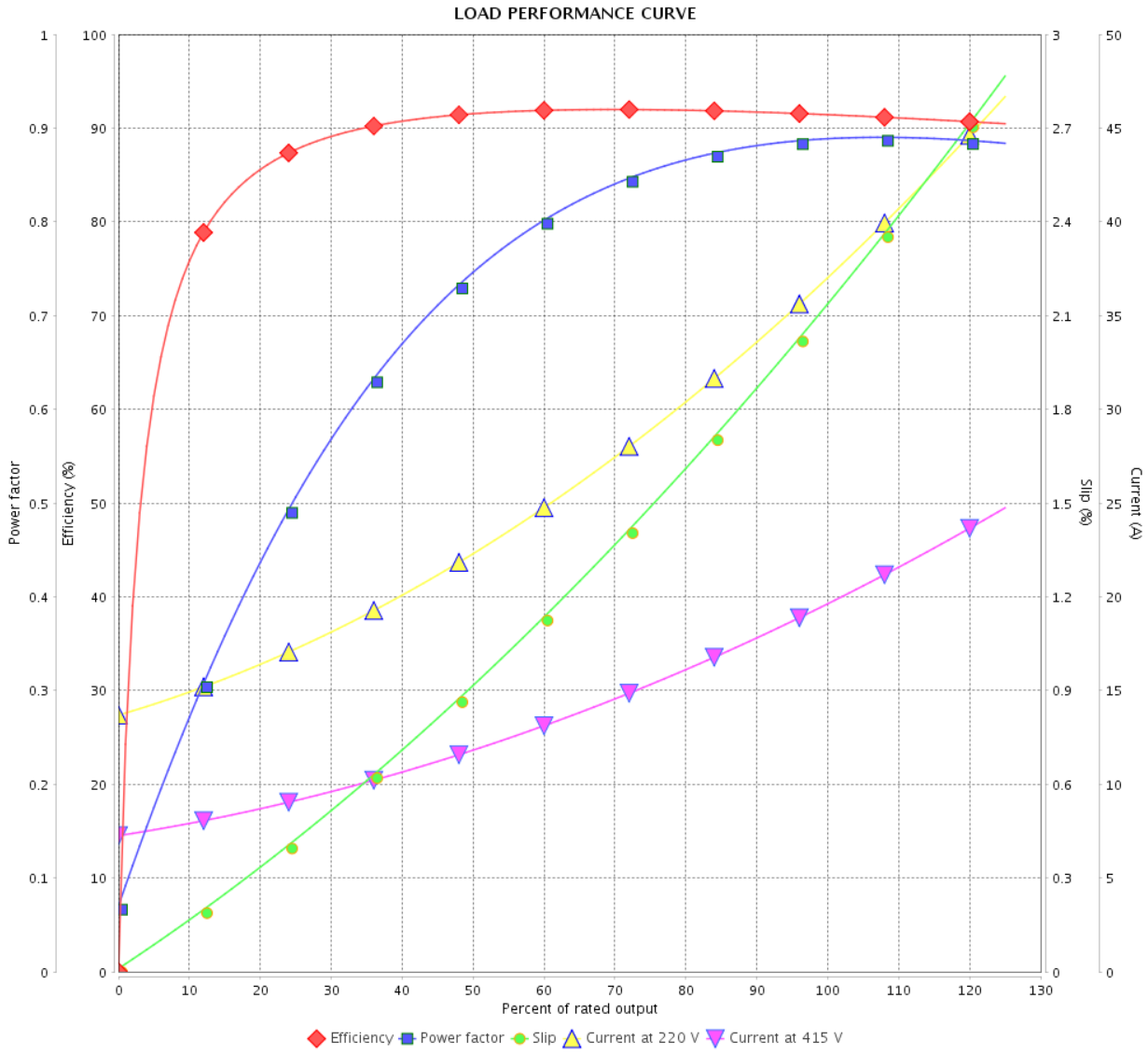

Performance	: 220/415 V 50 Hz 2P		
Rated current	: 36.8/19.5 A	Moment of inertia (J)	: 0.0514 kgm²
LRC	: 8.1	Duty cycle	: Cont.(S1)
Rated torque	: 3.71 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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