DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14448393

Frame	: 444/5T	Cooling method	: IC01 - ODP
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]	: 709 kg
Protection degree	: IP23	Moment of inertia (J)	: 3.33 kgm²
Design	: B		

Output [HP]		150	125	125	125
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		366/183	183	175	176
L. R. Amperes [A]		2342/1171	1208	1173	1250
LRC [A]		6.4x(Code G)	6.6x(Code H)	6.7x(Code H)	7.1x(Code J)
No load current [A]		172/86.0	76.3	93.1	100
Rated speed [RPM]		1188	985	990	990
Slip [%]		1.00	1.50	1.00	1.00
Rated torque [kgfm]		91.6	92.1	91.6	91.6
Locked rotor torque [%]		210	220	240	270
Breakdown torque [%]		260	250	280	310
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		19s (cold) 11s (hot)	16s (cold) 9s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level[2]		69.0 dB(A)			
Efficiency (%)	25%				
	50%	94.5	94.2	94.3	93.9
	75%	95.0	94.6	94.9	94.7
	100%	95.4	94.6	94.9	94.9
Power Factor	25%				
	50%	0.62	0.60	0.58	0.54
	75%	0.73	0.73	0.71	0.68
	100%	0.79	0.79	0.78	0.75

		Drive end	Non drive end
Bearing type	:	NU-319 C3	6314 C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	45 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 2130 kgf

Max. compression : 2839 kgf

Notes

USABLE @208V 405A SF 1.15 SFA 465A

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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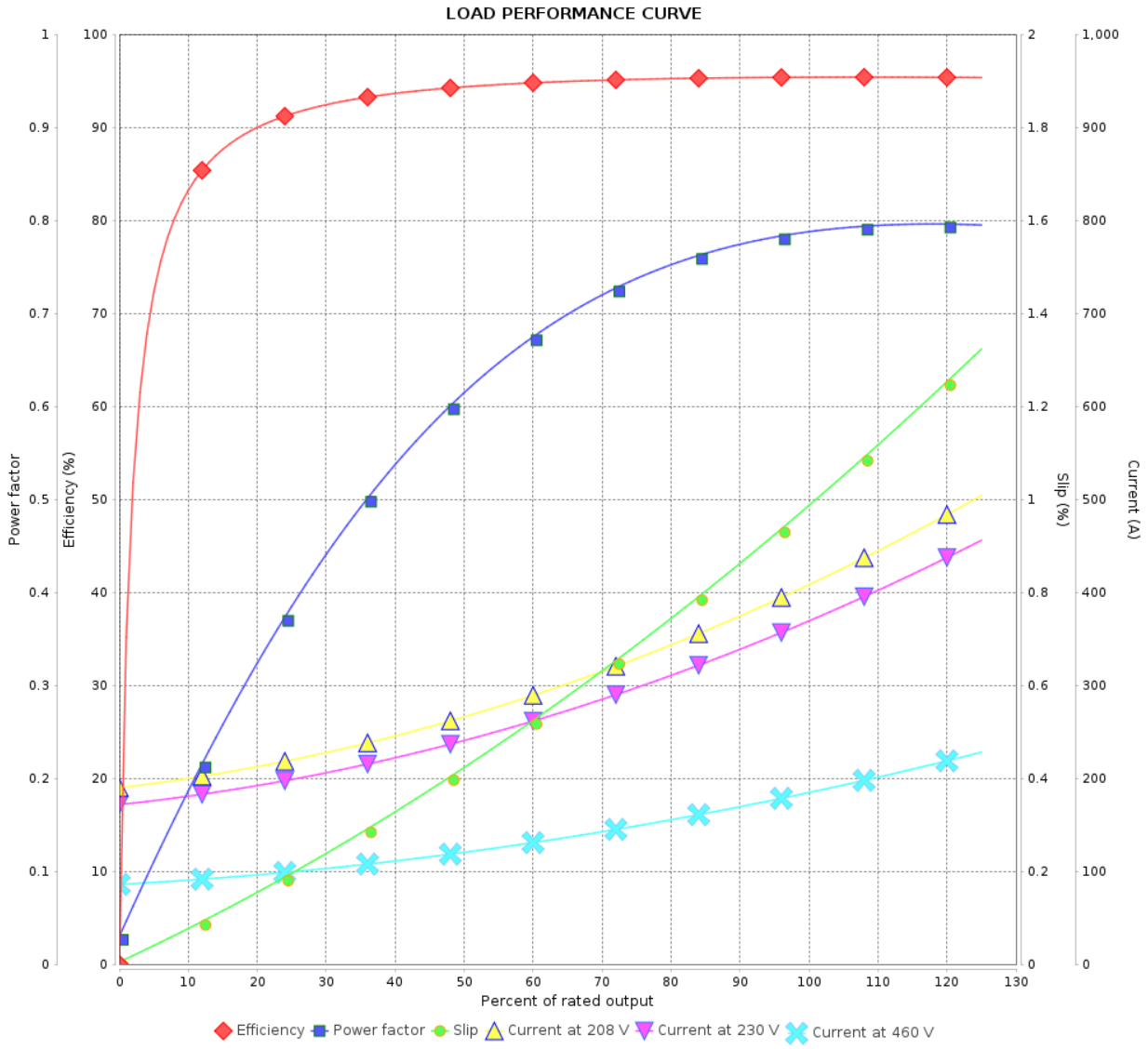
Customer	:

Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	14448393



Performance	: 230/460 V 60 Hz 6P

Rated current	: 366/183 A	Moment of inertia (J)	: 3.33 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 91.6 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1188 rpm	Design	: B

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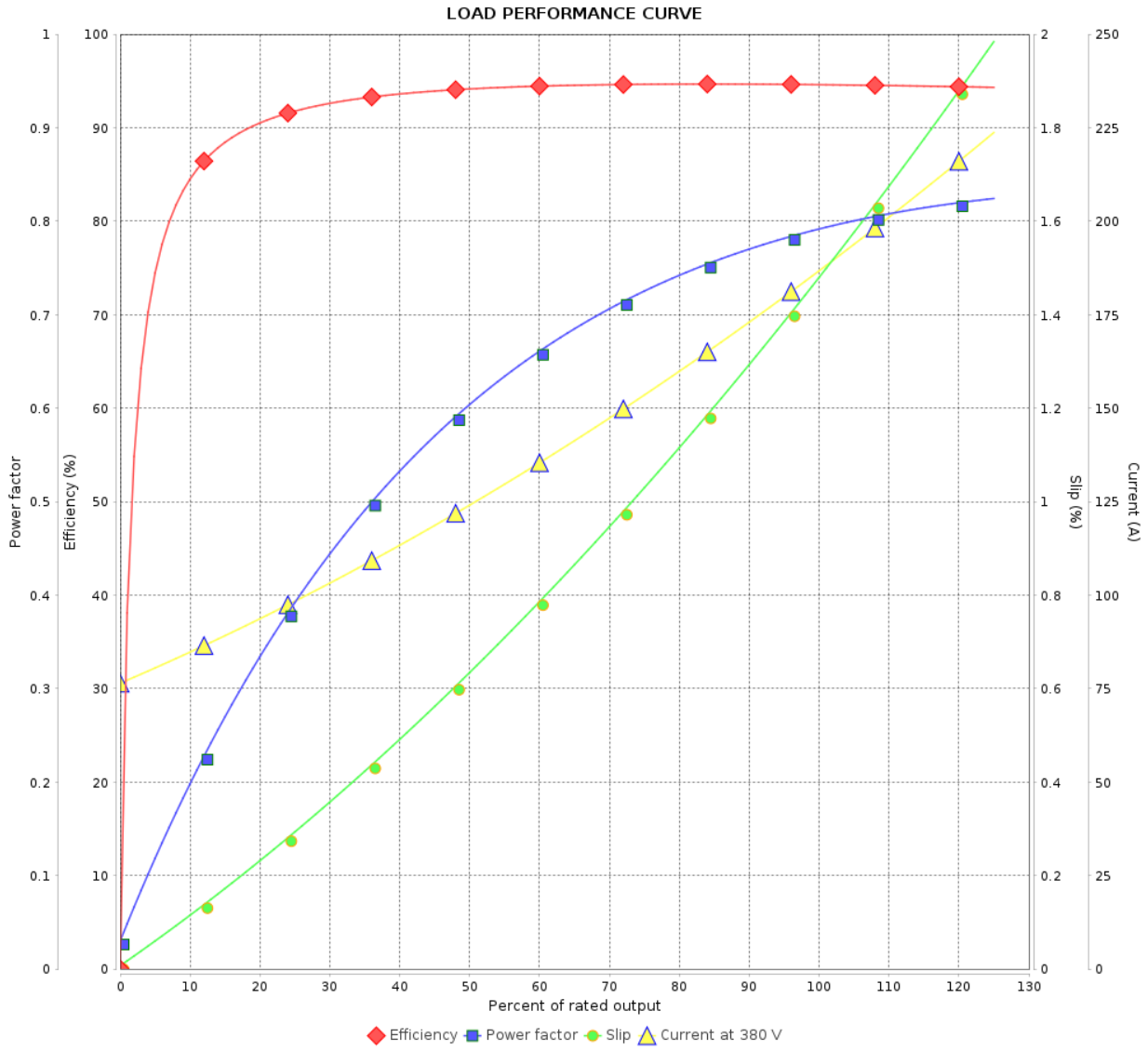

Performance	: 380 V 50 Hz 6P IE2		
Rated current	: 183 A	Moment of inertia (J)	: 3.33 kgm²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 92.1 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

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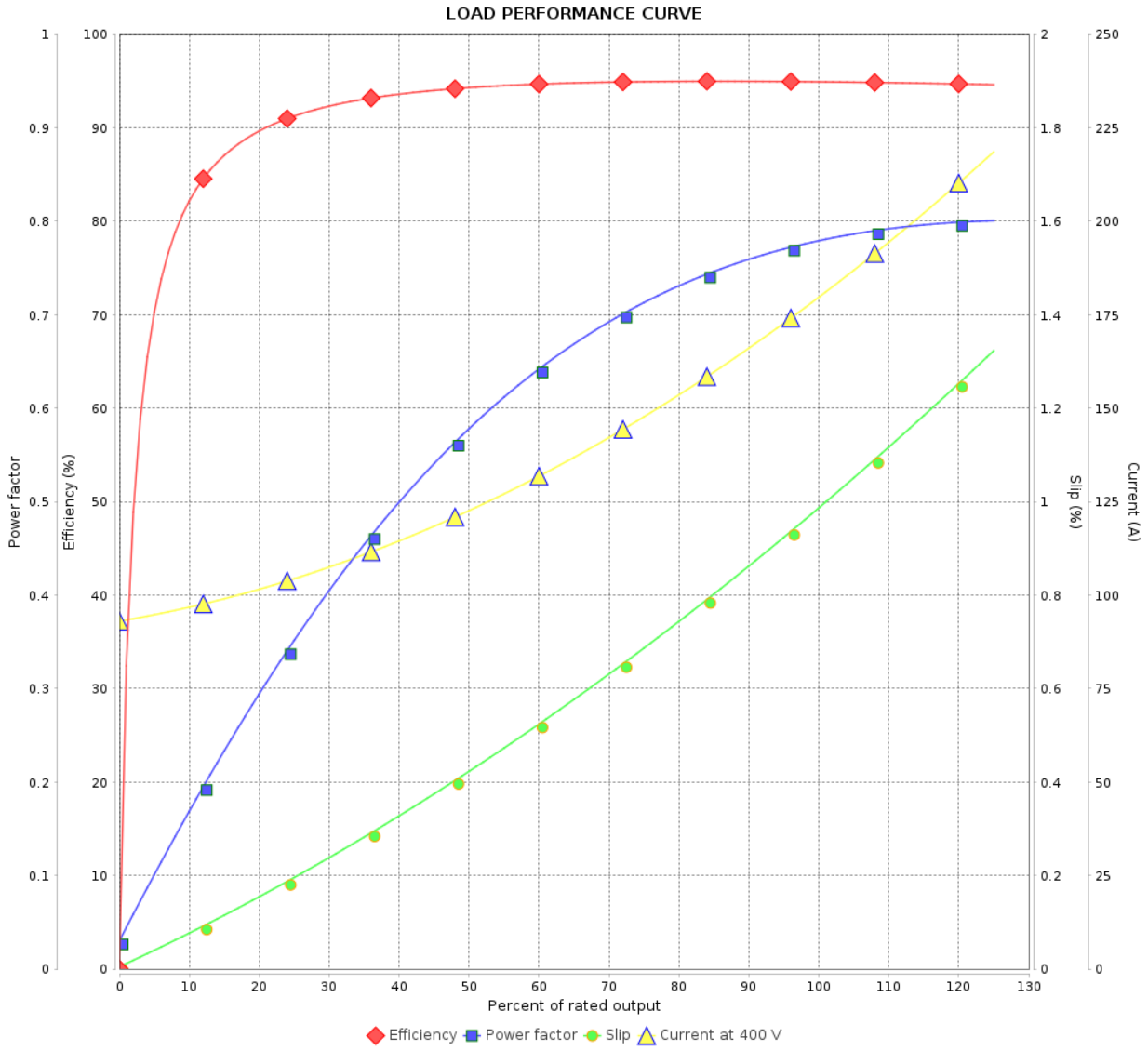

Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 175 A	Moment of inertia (J)	: 3.33 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 91.6 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: B

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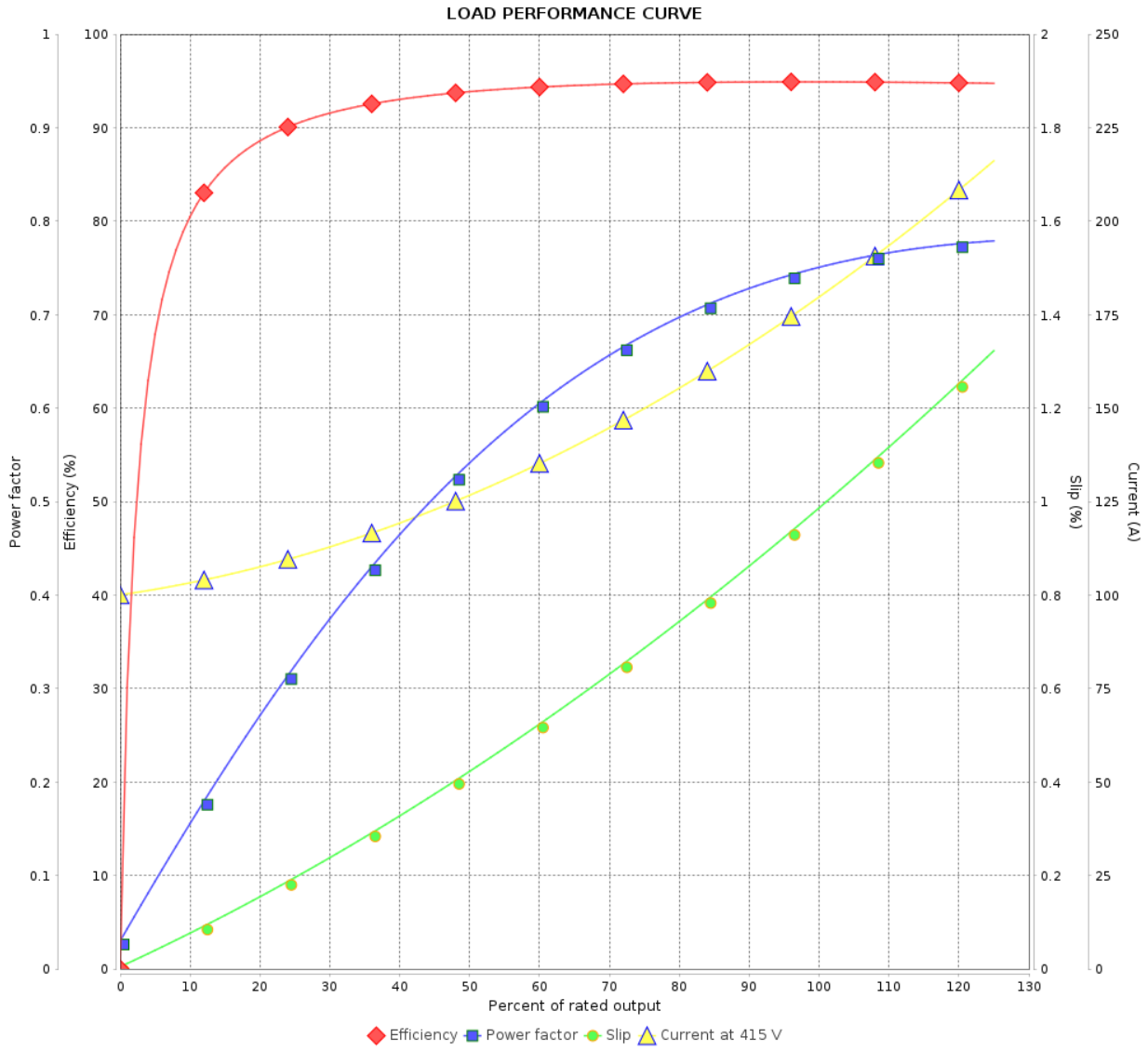

Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 176 A	Moment of inertia (J)	: 3.33 kgm²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 91.6 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: B

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