DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12655082

Frame	: 143/5T	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]	: 18.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0054 kgm²
Design	: B		

Output [HP]		2	2	2
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.94/2.47	5.94/2.97	5.39/2.86
L. R. Amperes [A]		48.9/24.5	44.0/22.0	44.2/23.5
LRC [A]		9.9x(Code L)	7.4x(Code J)	8.2x(Code K)
No load current [A]		2.13/1.06	2.10/1.05	2.14/1.13
Rated speed [RPM]		3520	2875	2890
Slip [%]		2.22	4.17	3.67
Rated torque [kgfm]		0.412	0.505	0.502
Locked rotor torque [%]		250	229	260
Breakdown torque [%]		300	280	310
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		23s (cold) 13s (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%	82.1	84.8	84.0
	50%	82.5	84.0	83.7
	75%	85.5	84.6	84.9
	100%	85.5	83.3	84.1
Power Factor	25%	0.45	0.51	0.48
	50%	0.73	0.79	0.76
	75%	0.83	0.88	0.86
	100%	0.89	0.92	0.90

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6203 ZZ
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 35 kgf

Max. compression : 53 kgf

Notes

USABLE @208V 5.46A SF 1.00 SFA 5.46A

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

Performed by				
Checked by			Page	Revision
Date	13/05/2022		1 / 4	

LOAD PERFORMANCE CURVE

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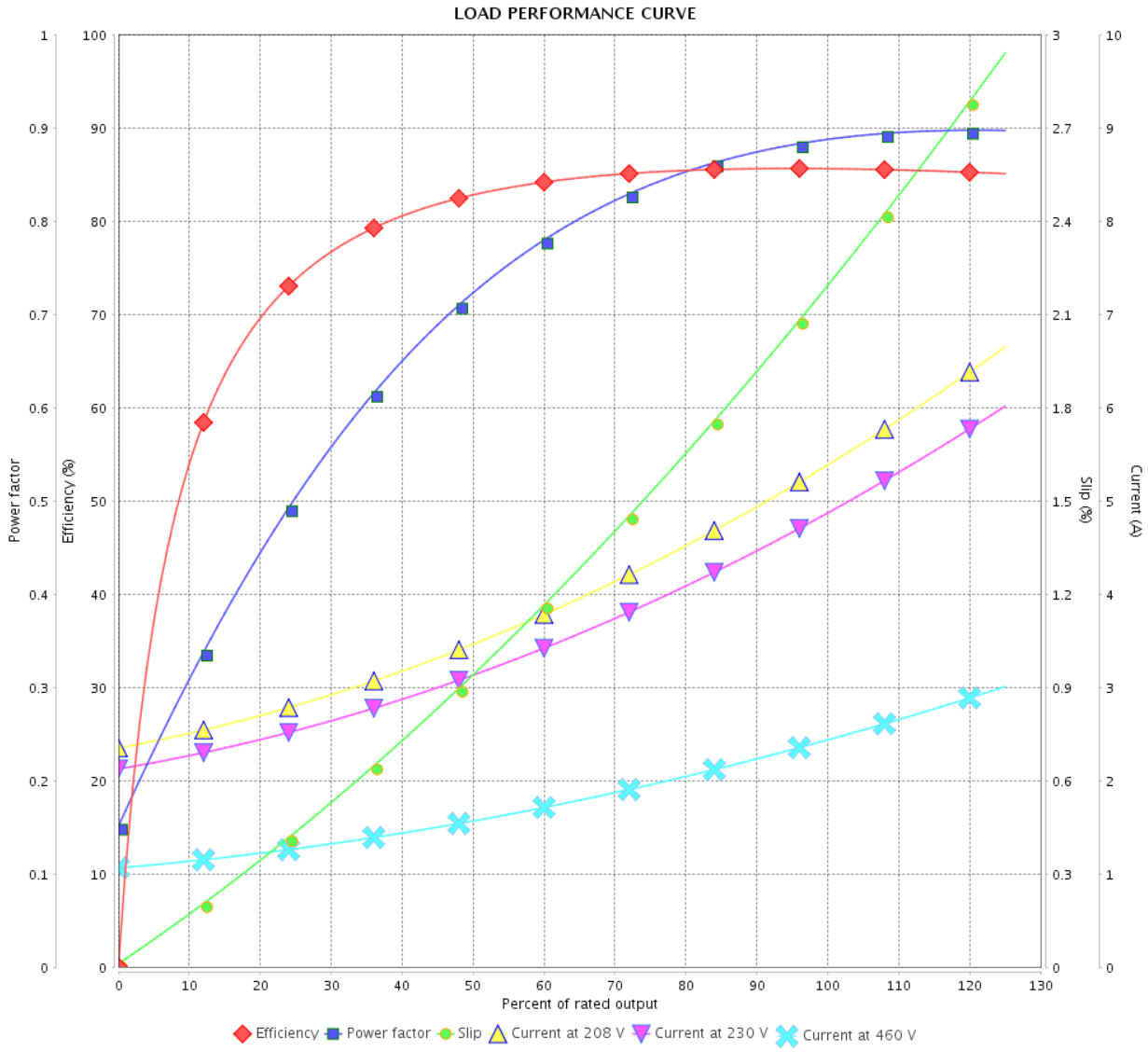

Performance	: 230/460 V 60 Hz 2P

Rated current	: 4.94/2.47 A	Moment of inertia (J)	: 0.0054 kgm²
LRC	: 9.9	Duty cycle	: Cont.(S1)
Rated torque	: 0.412 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3520 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	13/05/2022		2 / 4	

LOAD PERFORMANCE CURVE

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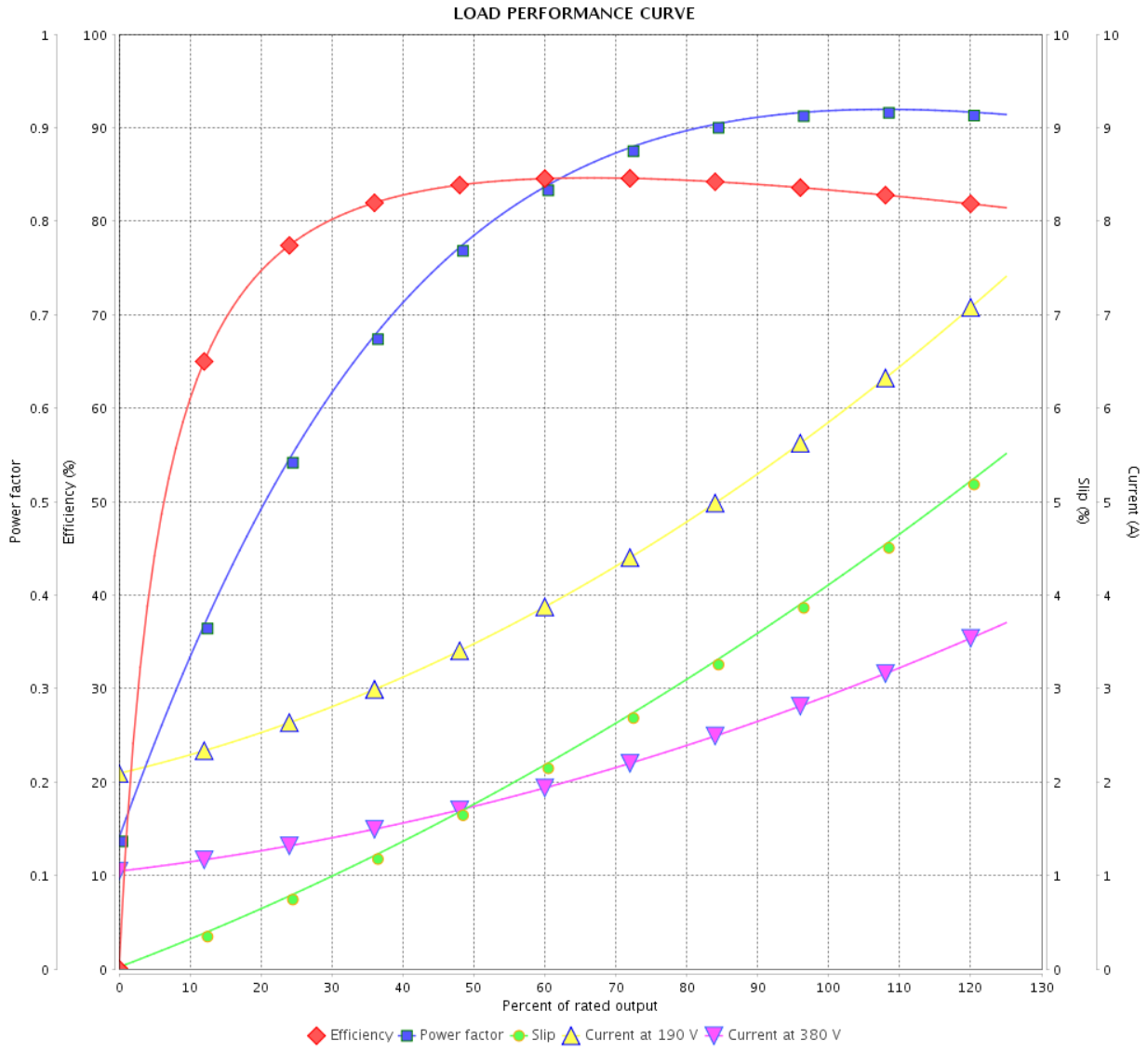

Performance	: 190/380 V 50 Hz 2P		
Rated current	: 5.94/2.97 A	Moment of inertia (J)	: 0.0054 kgm²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.505 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2875 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	13/05/2022		3 / 4	

LOAD PERFORMANCE CURVE

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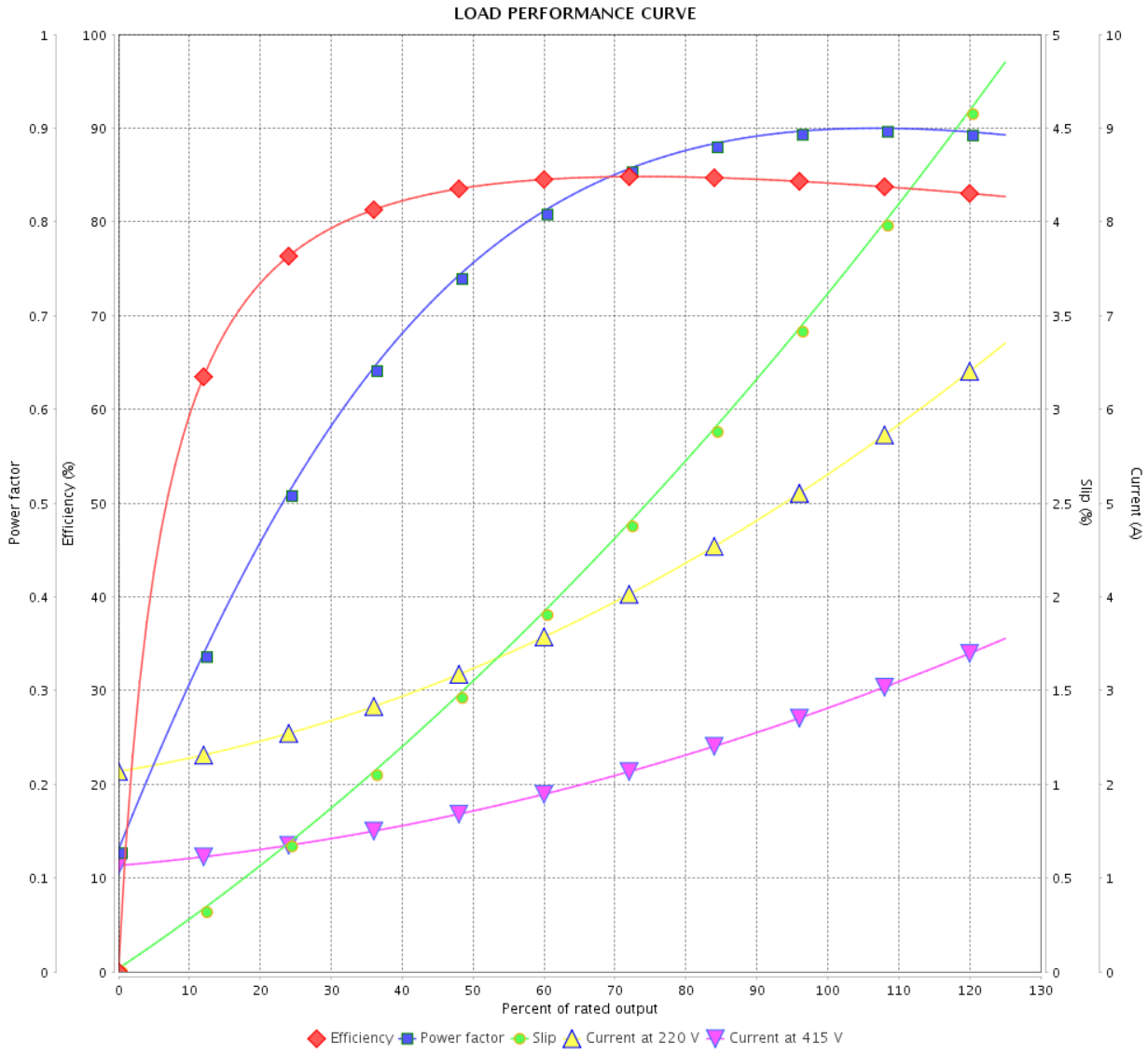

Performance	: 220/415 V 50 Hz 2P		
Rated current	: 5.39/2.86 A	Moment of inertia (J)	: 0.0054 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.502 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	13/05/2022		4 / 4	