DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency - Derating

Frame	: 444/5HP	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: V1
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 760 kg
Protection degree	: IP55	Moment of inertia (J)	: 2.81 kgm²
Design	: B		

Output		150 HP (110 kW)	150 HP (110 kW)
Poles		4	4
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		340/170 A	205 A
L. R. Amperes		2244/1122 A	1189 A
LRC		6.6 Code G	5.8 Code F
No load current		116/58.0 A	58.0 A
Rated speed		1784 rpm	1475 rpm
Slip		0.89 %	1.67 %
Rated torque		61.0 kgfm	73.8 kgfm
Locked rotor torque		200 %	160 %
Breakdown torque		250 %	200 %
Service factor		1.15	1.00
Temperature rise		80 K	105 K
Noise level		73 dB(A)	69 dB(A)
Locked rotor time		27 s (hot) 49 s (cold)	18 s (hot) 32 s (cold)
Efficiency (%)	50%	95.4	95.4
	75%	95.8	95.4
	100%	95.8	95.0
Power Factor	Start	0.32	0.32
	50%	0.74	0.79
	75%	0.82	0.85
	100%	0.85	0.86
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		4.46	4.46
P2 (0,5;1,0)		3.49	3.49
P3 (0,25;1,0)		3.09	3.09
P4 (0,9;0,5)		2.38	2.38
P5 (0,5;0,5)		1.52	1.52
P6 (0,5;0,25)		1.07	1.07
P7 (0,25;0,25)		0.63	0.63

	Drive end	Non drive end
Bearing type	6319-C3	6316-C3
Lubrication interval	4000 h	5000 h
Lubricant amount	45 g	34 g
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/12

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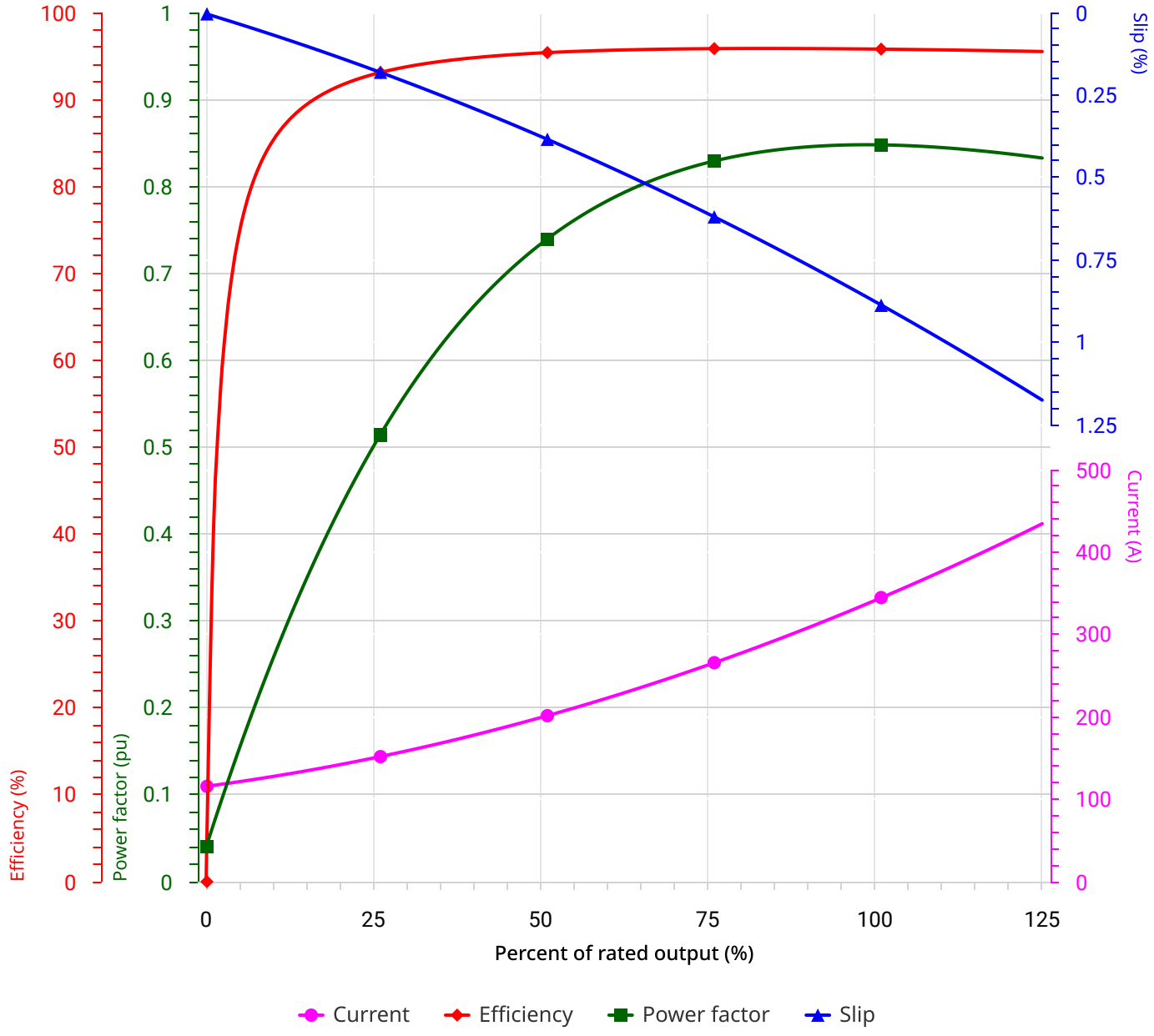

Performance	: 150 HP (110 kW) 208/230/460V 60Hz 4P 444/5HP

Rated current	: 376/340/170 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 6.6 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 61.0 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1784 rpm	Design	: B

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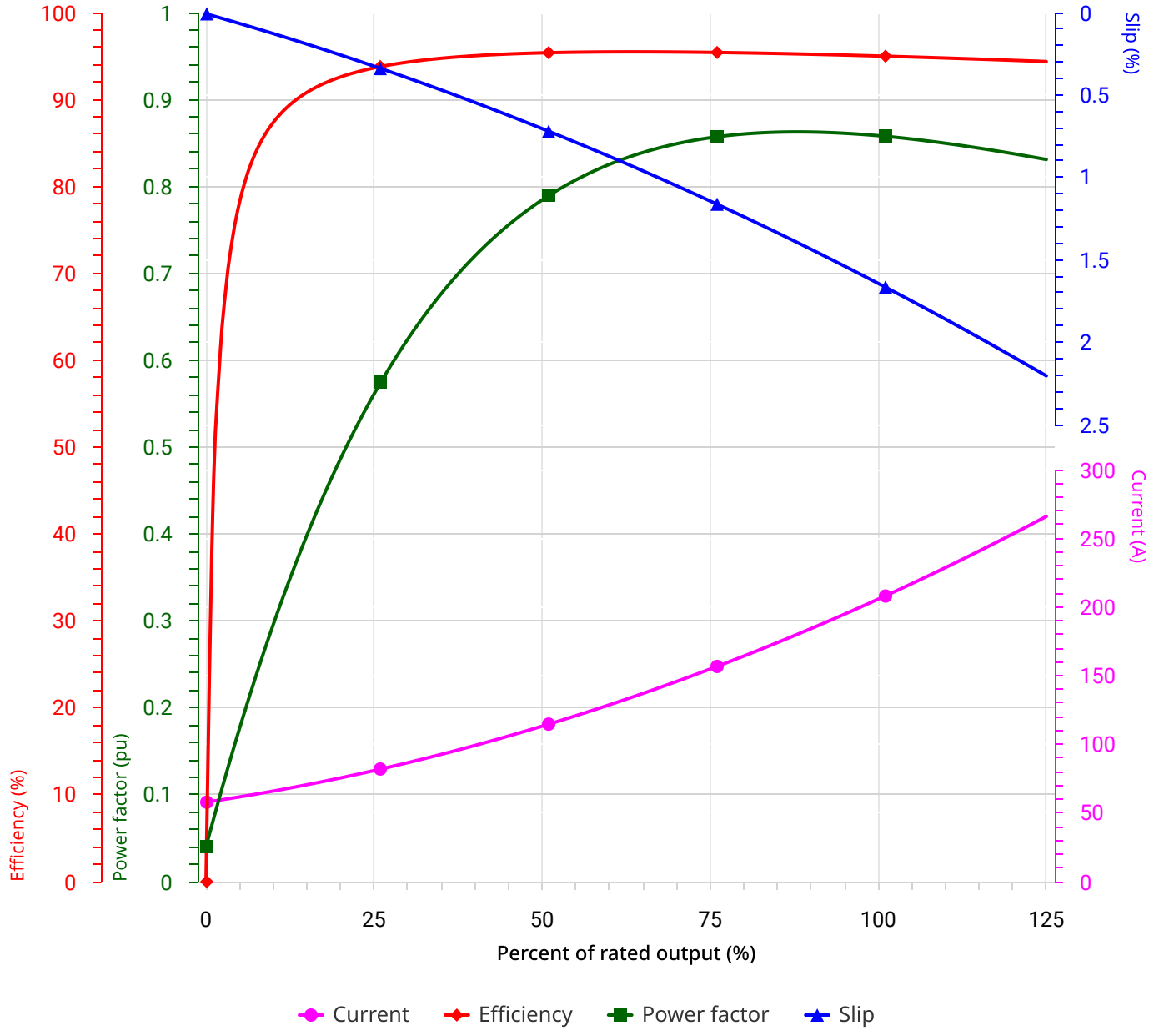

Performance	: 150 HP (110 kW) 380V 50Hz 4P 444/5HP

Rated current	: 205 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 5.8 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 73.8 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B

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