DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 13129041

Frame	: 364/5HP	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	: 417 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.9798 kgm²
Design	: B		

Output		75 HP (55	75 HP (55	60 HP (45	60 HP (45	60 HP (45	75 HP (55	75 HP (55	75 HP (55
Poles		4	4	4	4	4	4	4	4
Frequency		60 Hz	60 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	208 V	380 V	400 V	415 V	380 V	400 V	415 V
Rated current		174/87.2 A	186 A	88.5 A	84.9 A	82.7 A	106 A	102 A	98.7 A
L. R. Amperes			1190 A	620 A	637 A	662 A	541 A	571 A	602 A
LRC		1116/558 A	6.4 Code G	7.0 Code H	7.5 Code J	8.0 Code J	5.1 Code E	5.6 Code F	6.1 Code G
No load current					35.0 A	38.0 A	33.0 A	35.0 A	
Rated speed		6.4 Code G	56.9 A	33.0 A	1480 rpm	1485 rpm	1470 rpm	1475 rpm	38.0 A
Slip			1780 rpm	1480 rpm	1.33 %	1.00 %	2.00 %	1.67 %	1480 rpm
Rated torque		66.0/33.0 A	1.11 %	1.33 %	29.4 kgfm	29.3 kgfm	37.0 kgfm	36.9 kgfm	1.33 %
Locked rotor torque			31.0 kgfm	29.4 kgfm	240 %	260 %	170 %	200 %	36.8 kgfm
Breakdown torque		1780 rpm	240 %	210 %	280 %	310 %	200 %	220 %	210 %
Service factor		1.11 %	260 %	250 %	1.00	1.00	1.00	1.00	240 %
Temperature rise		30.6 kgfm	1.25	1.00	80 K	80 K	105 K	95 K	1.00
Noise level		240 %	80 K	80 K	63 dB(A)	63 dB(A)	63 dB(A)	63 dB(A)	95 K
Locked rotor time		260 %	67.0 dB(A)	63 dB(A)	10 s (hot) 18 s (cold)	10 s (hot) 18 s (cold)	10 s (hot) 18 s (cold)	10 s (hot) 18 s (cold)	63 dB(A)
		1.25	14 s (hot) 25 s (cold)	10 s (hot) 18 s (cold)					10 s (hot) 18 s (cold)
		80 K							
		67 dB(A)							
		14 s (hot) 25 s (cold)							
Efficiency (%)	50%	94.5	94.5	93.7	93.6	93.5	94.5	94.5	94.1
	75%	95.0	95.0	94.2	94.2	94.2	94.1	94.5	94.5
	100%	95.4	95.4	94.2	94.4	94.6	93.6	94.1	94.5
Power Factor	Start	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	50%	0.68	0.68	0.68	0.64	0.61	0.75	0.70	0.67
	75%	0.78	0.78	0.78	0.75	0.73	0.82	0.80	0.78
	100%	0.83	0.83	0.82	0.81	0.8	0.84	0.83	0.82
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		4.71	4.71	4.71	4.71	4.71	4.71	4.71	4.71
P2 (0,5;1,0)		3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78
P3 (0,25;1,0)		3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48
P4 (0,9;0,5)		2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43
P5 (0,5;0,5)		1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
P6 (0,5;0,25)		1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
P7 (0,25;0,25)		0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71

	Drive end	Non drive end
Bearing type	6316-C3	6314-C3
Lubrication interval	5000 h	6000 h
Lubricant amount	34 g	27 g
Lubricant type	MOBIL POLYREX EM	

Notes:

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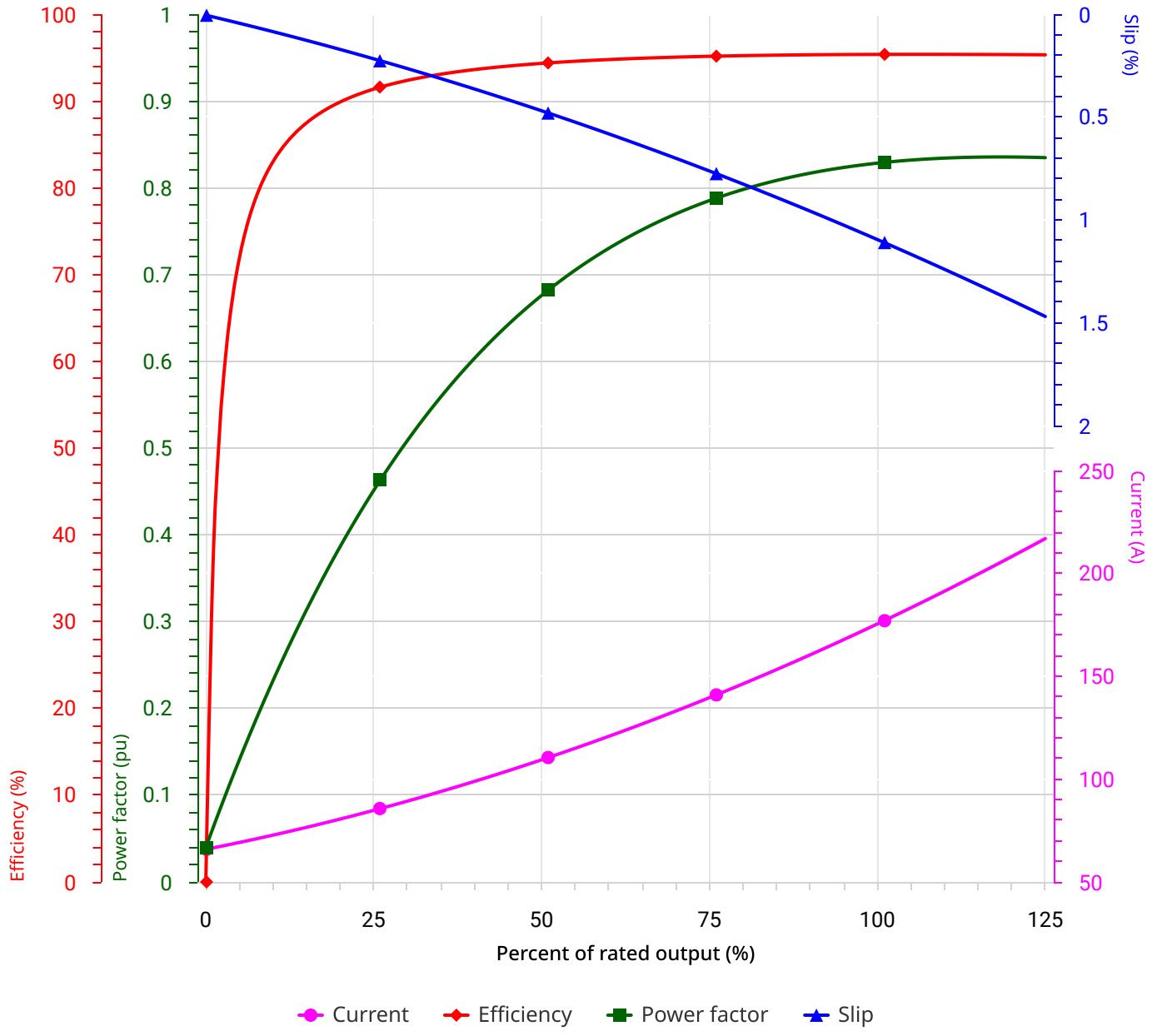

Performance	: 75 HP (55 kW) 230/460V 60Hz 4P 364/5HP

Rated current	: 174/87.2 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 6.4 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 30.6 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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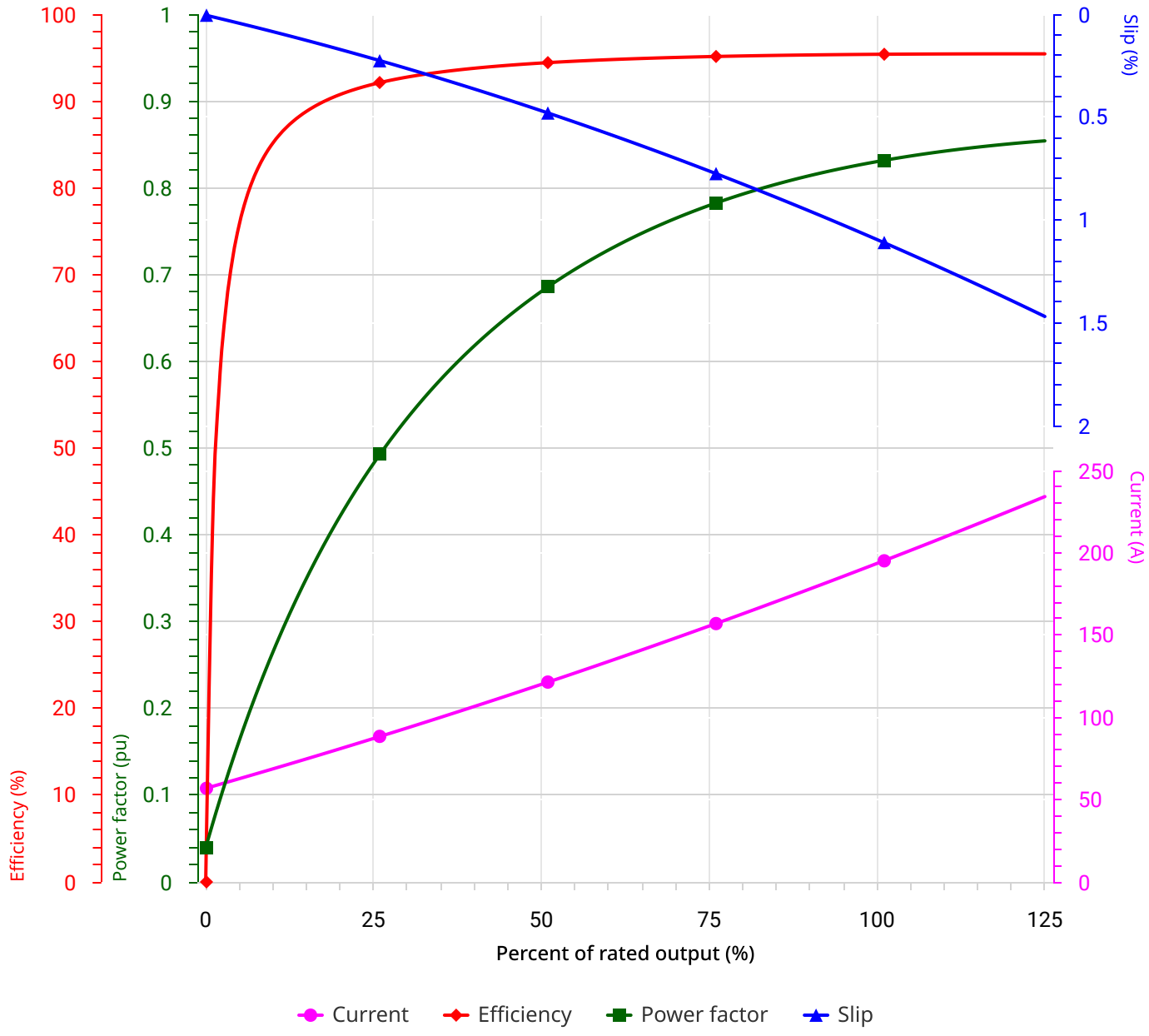

Performance	: 75 HP (55 kW) 208V 60Hz 4P 364/5HP

Rated current	: 186 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 6.4 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 31.0 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: 00002

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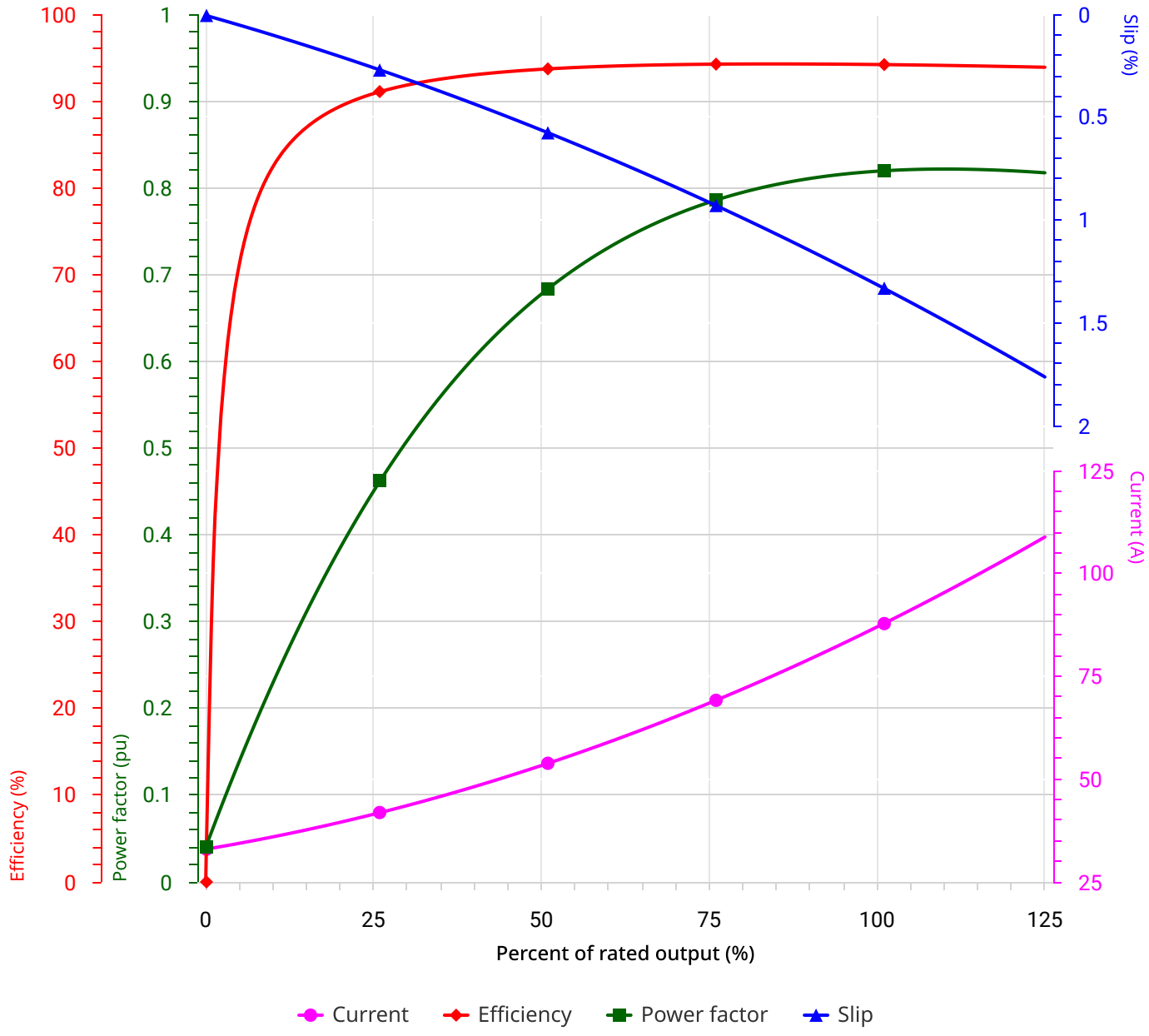

Performance	: 60 HP (45 kW) 380V 50Hz 4P 364/5HP

Rated current	: 88.5 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 7.0 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 29.4 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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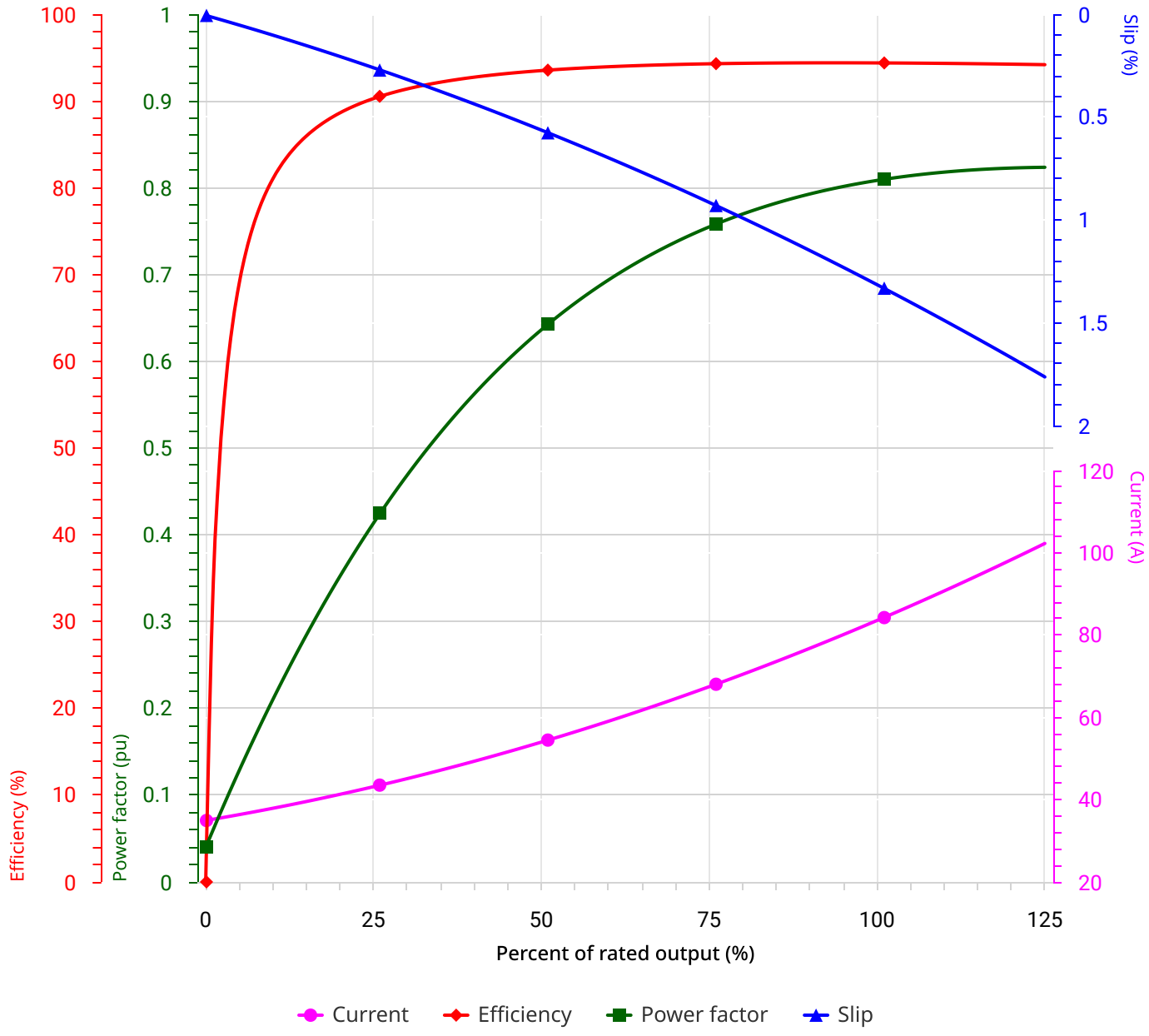

Performance	: 60 HP (45 kW) 400V 50Hz 4P 364/5HP

Rated current	: 84.9 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 29.4 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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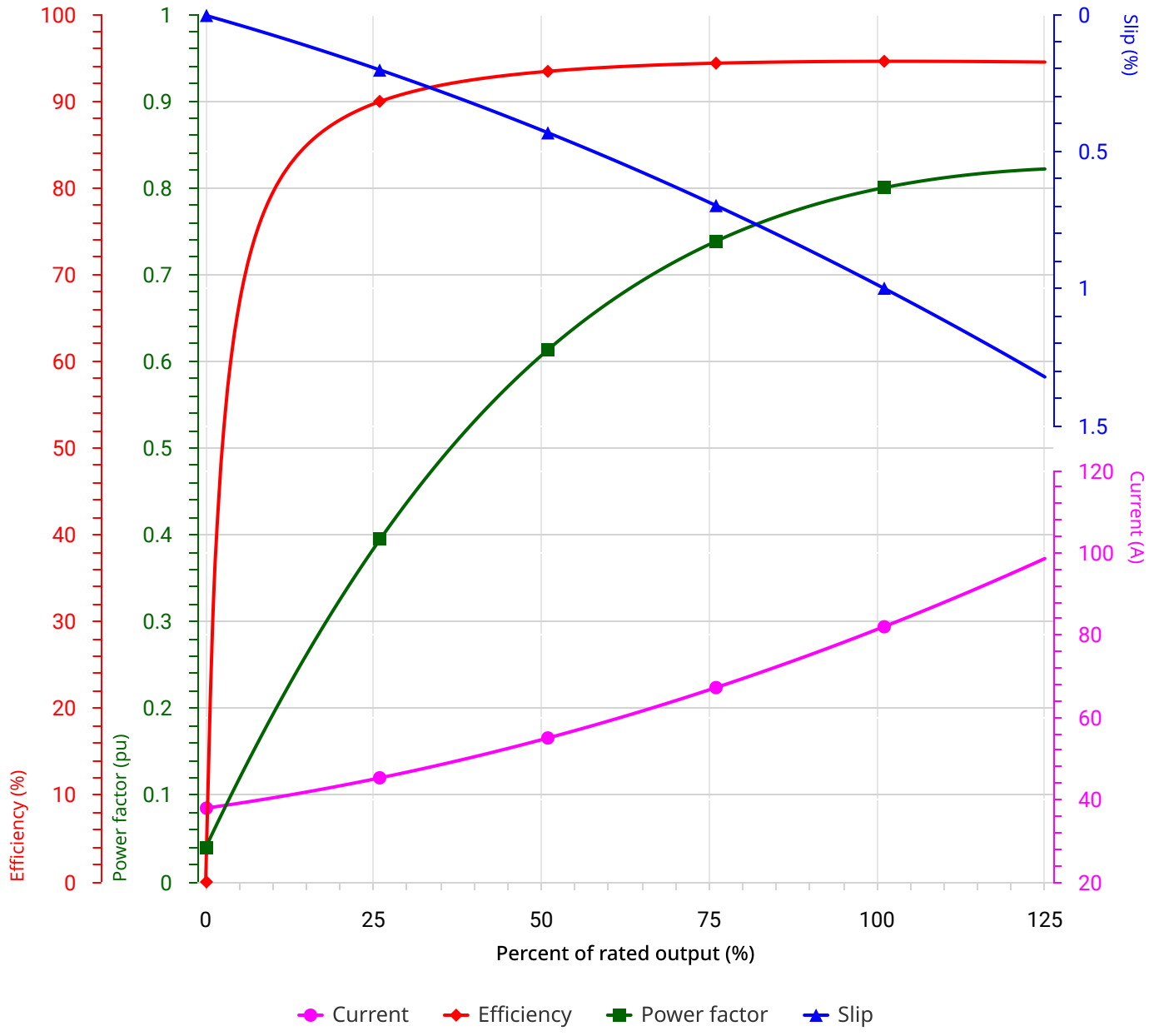

Performance	: 60 HP (45 kW) 415V 50Hz 4P 364/5HP

Rated current	: 82.7 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 8.0 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 29.3 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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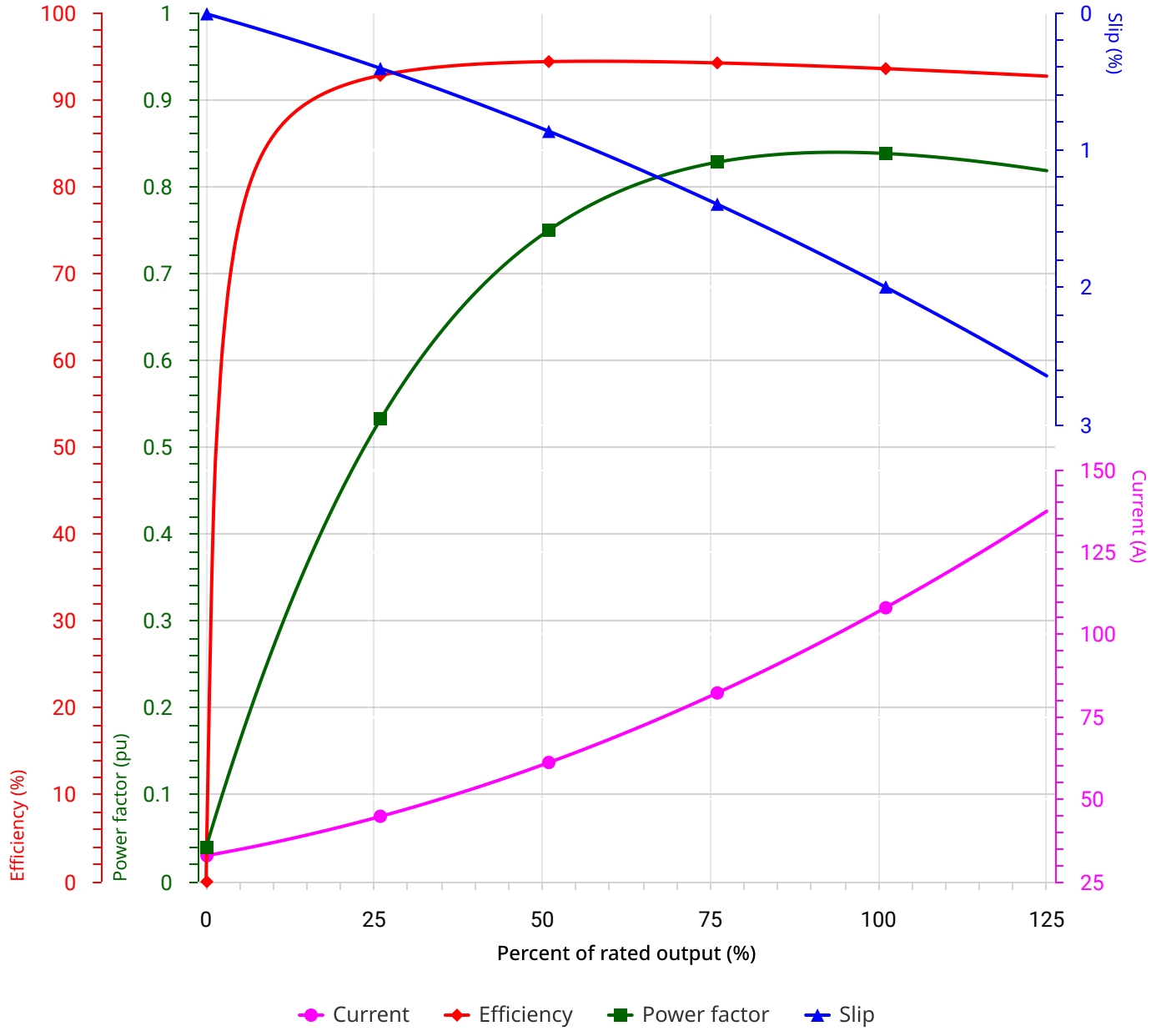

Performance	: 75 HP (55 kW) 380V 50Hz 4P 364/5HP

Rated current	: 106 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 5.1 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 37.0 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1470 rpm	Design	: B

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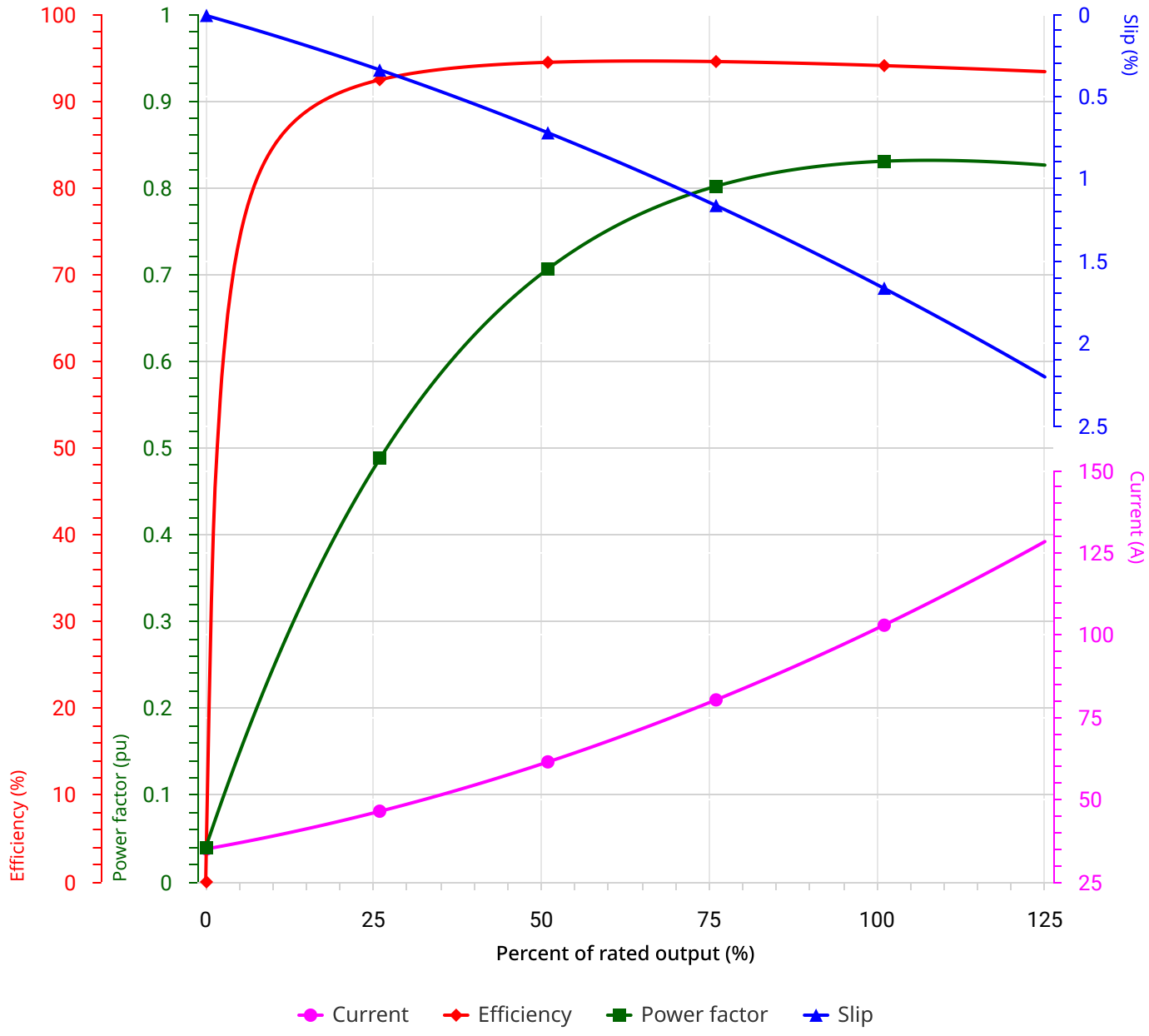

Performance	: 75 HP (55 kW) 400V 50Hz 4P 364/5HP

Rated current	: 102 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 5.6 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 36.9 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 95 K
Rated speed	: 1475 rpm	Design	: B

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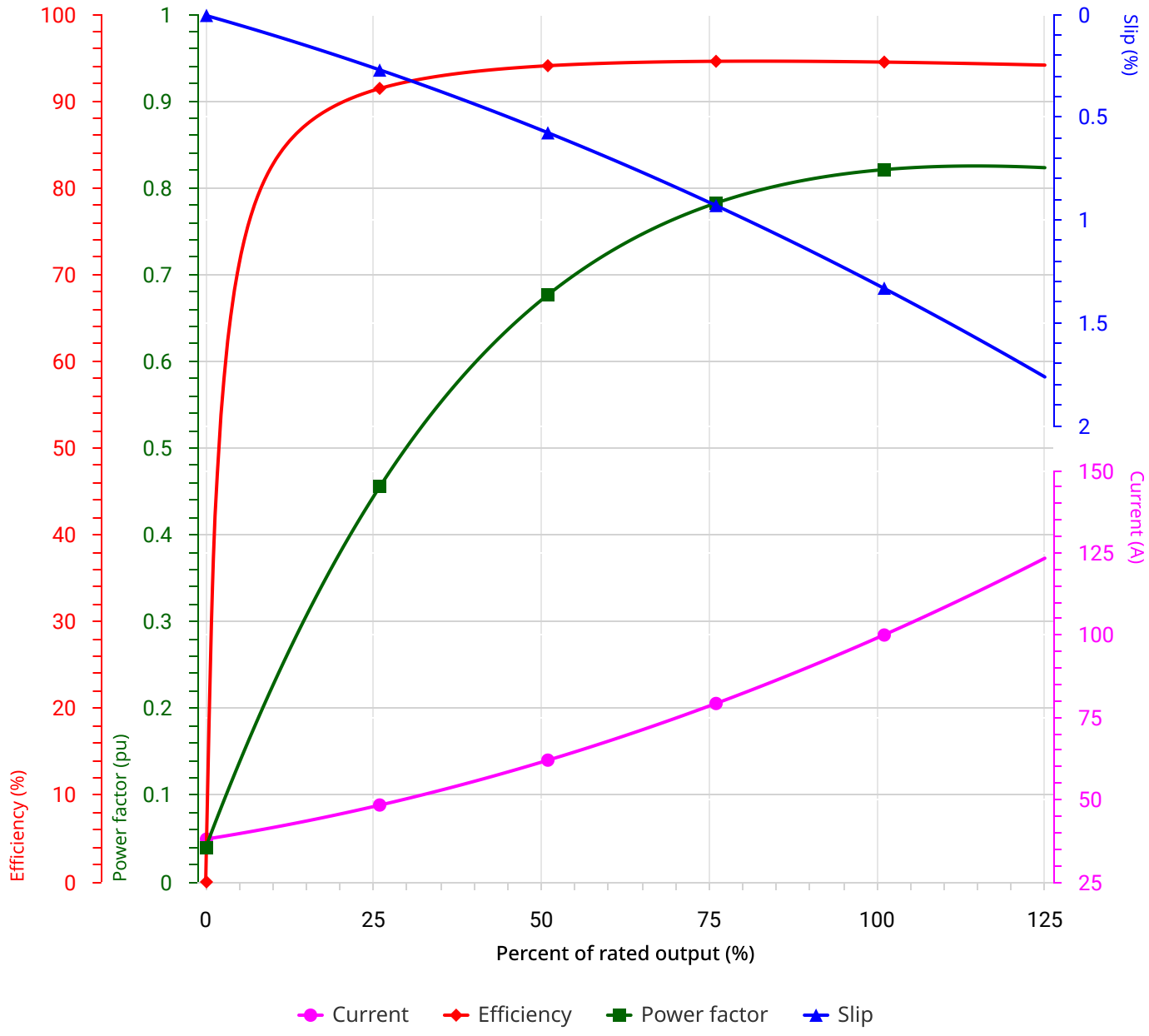

Performance	: 75 HP (55 kW) 415V 50Hz 4P 364/5HP

Rated current	: 98.7 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 6.1 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 36.8 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 95 K
Rated speed	: 1480 rpm	Design	: B

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