DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 12630271

Frame	: 182/4T	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1/B3R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 37.1 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0169 kgm²
Design	: B		

Output		5 HP (3.7 kW)	4 HP (3 kW)	4 HP (3 kW)	4 HP (3 kW)
Poles		4	4	4	4
Frequency		60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		208-230/460 V	190/380 V	220 V	220/415 V
Rated current		14.0-12.7/6.33 A	12.5/6.26 A	10.8 A	11.5/6.10 A
L. R. Amperes		91.2/45.6 A	90.1/45.1 A	77.9 A	95.5/50.6 A
LRC		7.2 Code J	7.2 Code J	7.2 Code J	8.3 Code L
No load current		6.29/3.15 A	6.19/3.10 A	5.35 A	6.80/3.61 A
Rated speed		1760 rpm	1455 rpm	1455 rpm	1465 rpm
Slip		2.22 %	3.00 %	3.00 %	2.33 %
Rated torque		2.06 kgfm	2.00 kgfm	2.00 kgfm	1.98 kgfm
Locked rotor torque		200 %	180 %	180 %	230 %
Breakdown torque		310 %	280 %	280 %	340 %
Service factor		1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K
Noise level		55 dB(A)	53 dB(A)	53.0 dB(A)	53 dB(A)
Locked rotor time		12 s (hot) 22 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	13 s (hot) 23 s (cold)
Efficiency (%)	50%	88.5	88.1	88.1	86.6
	75%	88.5	88.1	88.1	87.8
	100%	89.5	87.7	87.7	87.7
Power Factor	Start	0.60	0.60	0.60	0.61
	50%	0.63	0.63	0.63	0.55
	75%	0.76	0.77	0.77	0.70
	100%	0.82	0.83	0.83	0.78
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		0.00	0.00	0.00	0.00
P2 (0,5;1,0)		0.00	0.00	0.00	0.00
P3 (0,25;1,0)		0.00	0.00	0.00	0.00
P4 (0,9;0,5)		0.00	0.00	0.00	0.00
P5 (0,5;0,5)		0.00	0.00	0.00	0.00
P6 (0,5;0,25)		0.00	0.00	0.00	0.00
P7 (0,25;0,25)		0.00	0.00	0.00	0.00

	Drive end	Non drive end
Bearing type	6206-ZZ	6205-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/23

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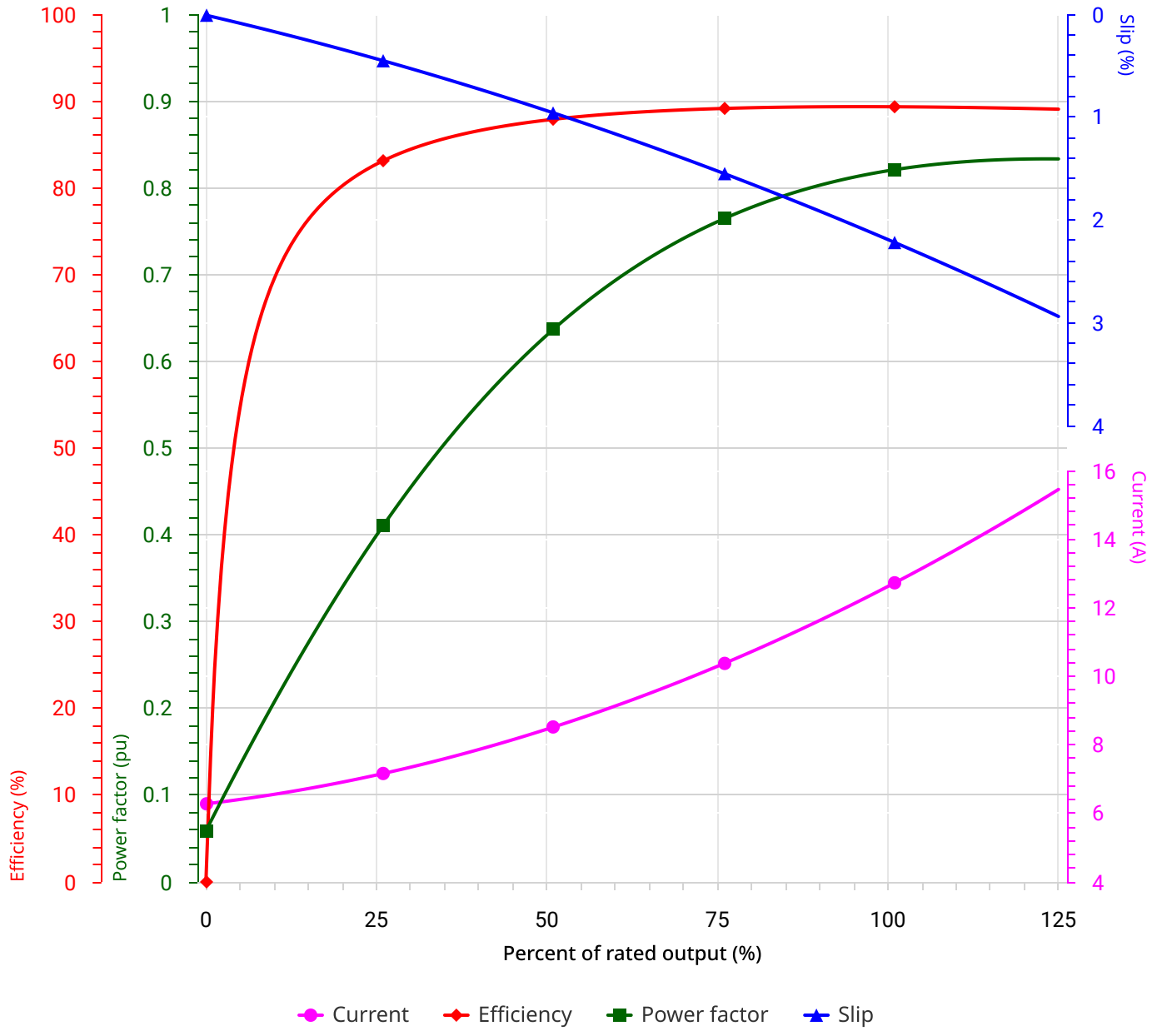

Performance	: 5 HP (3.7 kW) 208/230/460V 60Hz 4P 182/4T

Rated current	: 14.0/12.7/6.33 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.2 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.06 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

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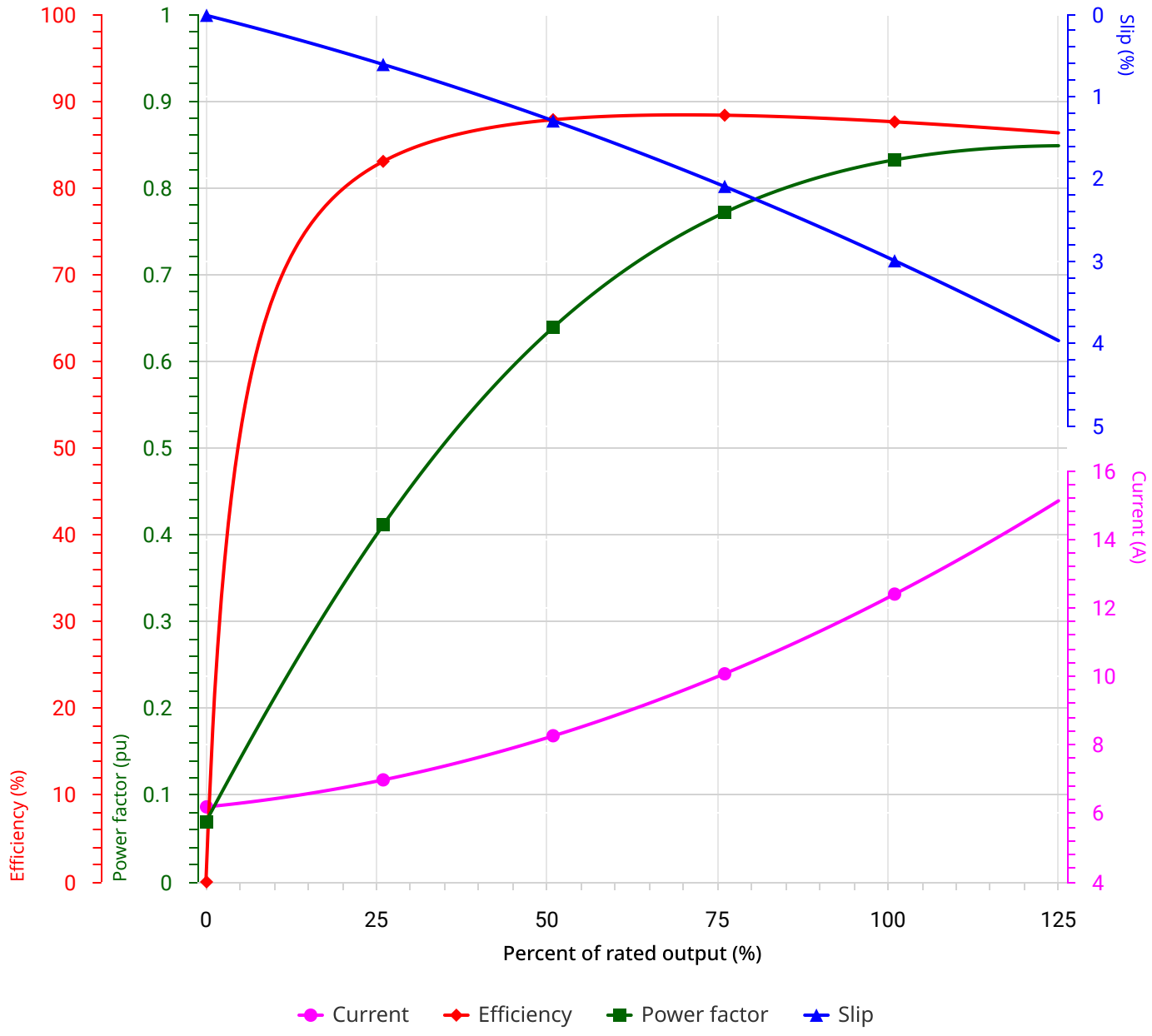

Performance	: 4 HP (3 kW) 190/380V 50Hz 4P 182/4T

Rated current	: 12.5/6.26 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.2 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.00 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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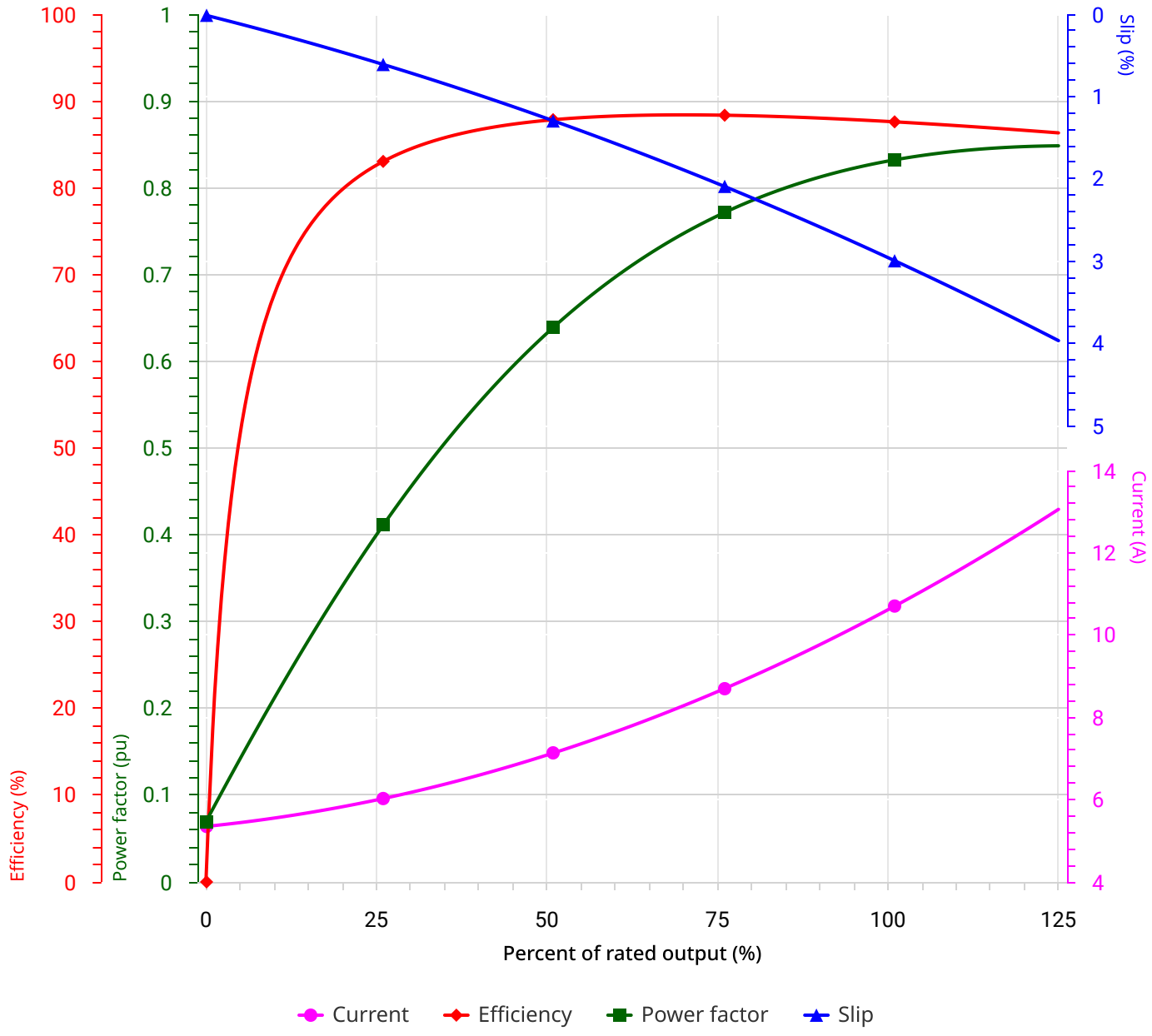

Performance	: 4 HP (3 kW) 220V 50Hz 4P 182/4T

Rated current	: 10.8 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.2 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.00 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: 00002

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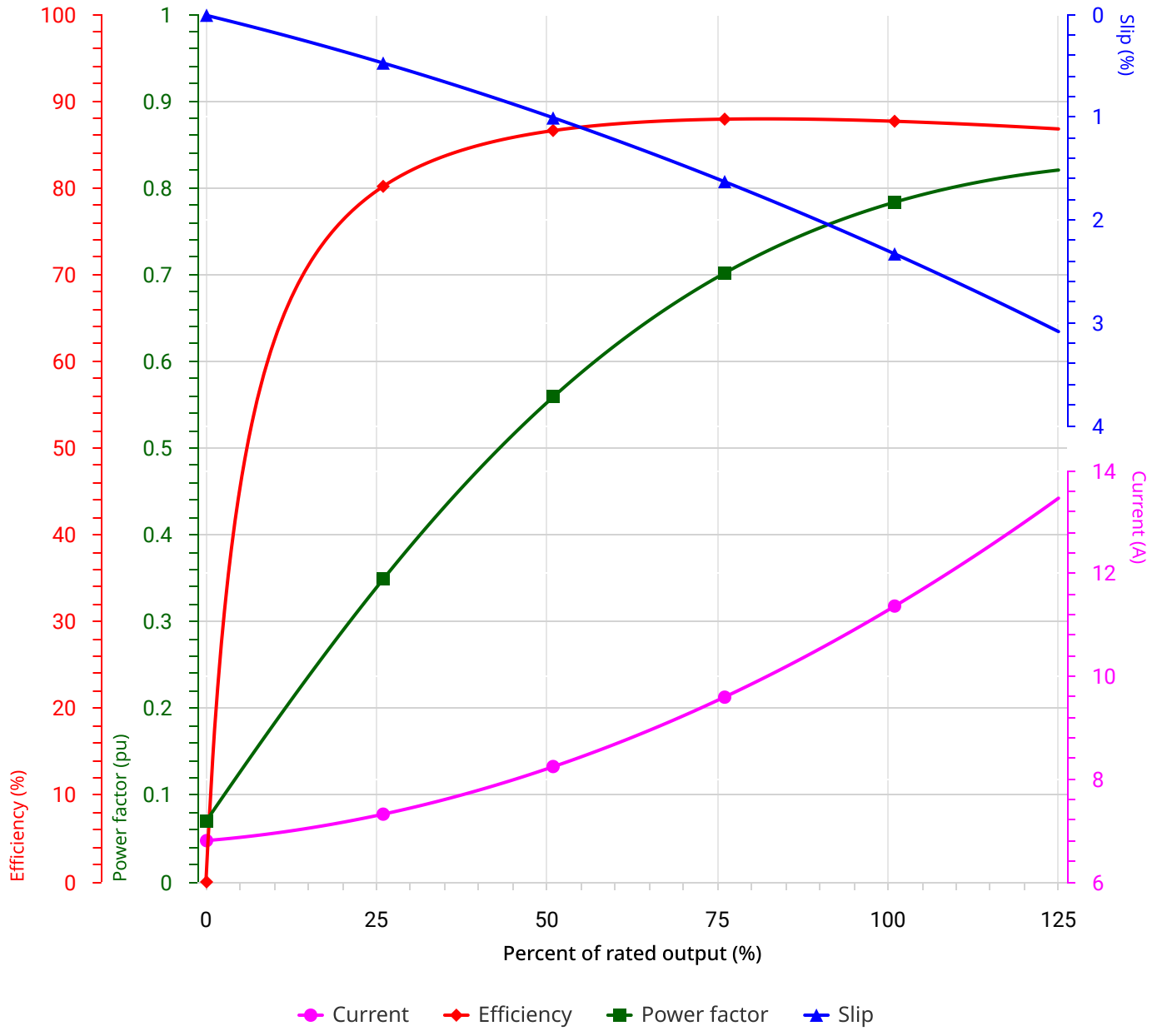

Performance	: 4 HP (3 kW) 220/415V 50Hz 4P 182/4T

Rated current	: 11.5/6.10 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 8.3 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 1.98 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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