DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 IEEE 841 - Nema Premium Efficiency
Product code	: 13533148

Frame	: 182/4TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B34R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 50.0 kg
Protection degree	: IP56	Moment of inertia (J)	: 0.0094 kgm²
Design	: B		

Output		5 HP (3.7 kW)	4 HP (3 kW)	4 HP (3 kW)	4 HP (3 kW)	5 HP (3.7 kW)	5 HP (3.7 kW)	5 HP (3.7 kW)
Poles		2	2	2	2	2	2	2
Frequency		60 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		460 V	380 V	400 V	415 V	380 V	400 V	415 V
Rated current		5.90 A	5.79 A	5.57 A	5.43 A	7.14 A	6.78 A	6.61 A
L. R. Amperes		44.8 A	42.8 A	45.1 A	48.3 A	42.1 A	44.7 A	47.6 A
LRC		7.6 Code J	7.4 Code H	8.1 Code J	8.9 Code K	5.9 Code F	6.6 Code G	7.2 Code H
No load current		2.00 A	2.00 A	2.15 A	2.25 A	2.00 A	2.15 A	2.25 A
Rated speed		3485 rpm	2890 rpm	2900 rpm	2910 rpm	2850 rpm	2870 rpm	2880 rpm
Slip		3.19 %	3.67 %	3.33 %	3.00 %	5.00 %	4.33 %	4.00 %
Rated torque		1.04 kgfm	1.00 kgfm	1.00 kgfm	0.998 kgfm	1.27 kgfm	1.26 kgfm	1.26 kgfm
Locked rotor torque		230 %	230 %	270 %	300 %	180 %	210 %	240 %
Breakdown torque		350 %	320 %	370 %	400 %	250 %	290 %	320 %
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Noise level		66 dB(A)	62 dB(A)	62 dB(A)	62 dB(A)	62 dB(A)	62 dB(A)	62 dB(A)
Locked rotor time		25 s (hot) 45 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)
Efficiency (%)	50%	86.5	86.3	86.3	86.1	87.5	87.5	87.5
	75%	88.5	87.7	88.2	88.2	87.5	88.5	88.5
	100%	88.5	87.5	88.3	88.3	86.5	87.5	87.5
Power Factor	Start	0.55	0.55	0.55	0.55	0.55	0.55	0.55
	50%	0.76	0.74	0.71	0.68	0.81	0.78	0.76
	75%	0.85	0.85	0.83	0.81	0.88	0.87	0.85
	100%	0.89	0.9	0.88	0.87	0.91	0.9	0.89
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)		12.42	12.42	12.42	12.42	12.42	12.42	12.42
P2 (0,5;1,0)		9.90	9.90	9.90	9.90	9.90	9.90	9.90
P3 (0,25;1,0)		8.92	8.92	8.92	8.92	8.92	8.92	8.92
P4 (0,9;0,5)		6.19	6.19	6.19	6.19	6.19	6.19	6.19
P5 (0,5;0,5)		3.74	3.74	3.74	3.74	3.74	3.74	3.74
P6 (0,5;0,25)		2.34	2.34	2.34	2.34	2.34	2.34	2.34
P7 (0,25;0,25)		1.44	1.44	1.44	1.44	1.44	1.44	1.44

	Drive end	Non drive end
Bearing type	6207-C3	6206-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	7 g	5 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 59 kgf
Max. compression : 109 kgf

Notes:

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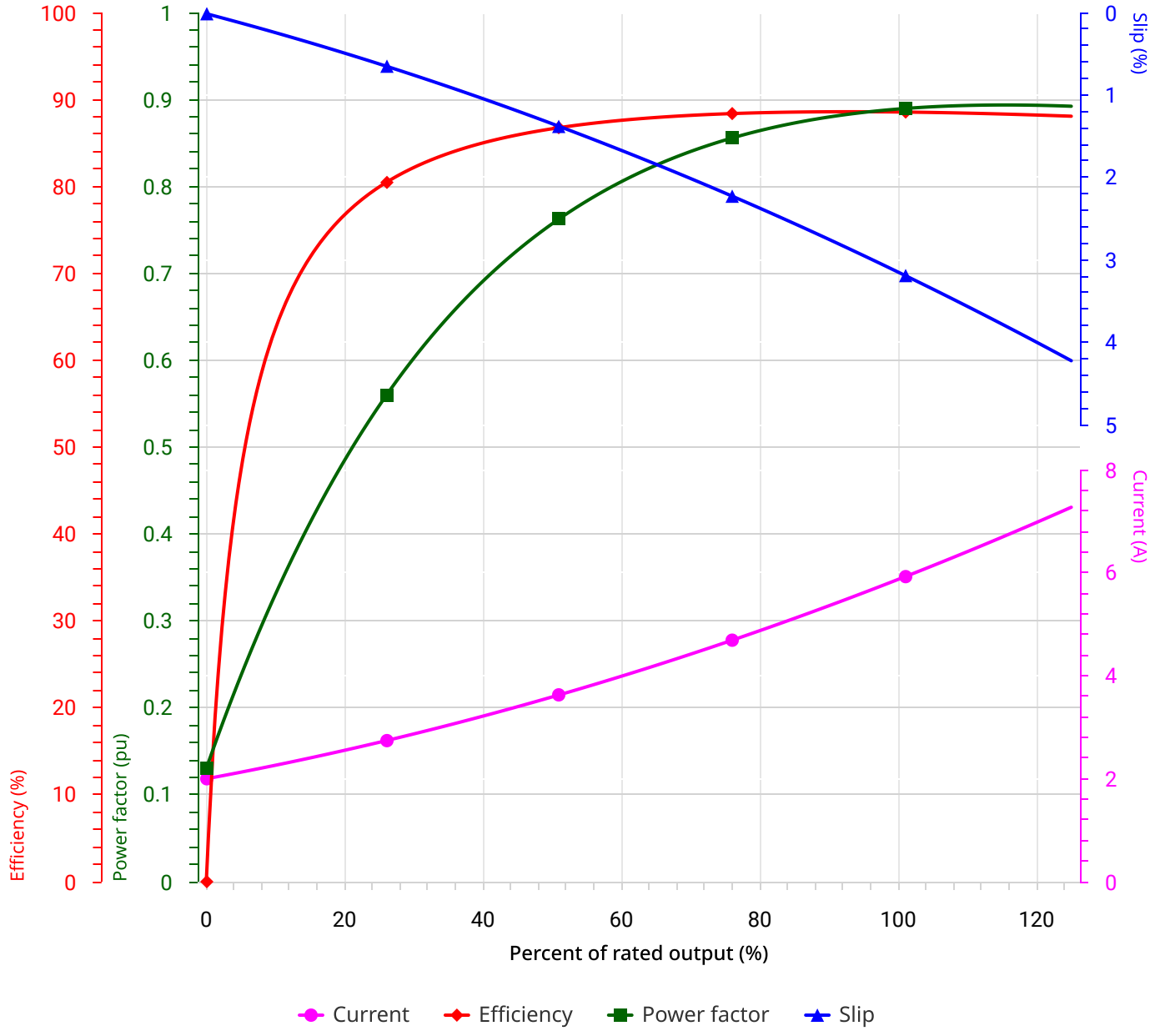
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 IEEE 841 - Nema Premium Efficiency
Product code	: 13533148



Performance	: 5 HP (3.7 kW) 460V 60Hz 2P 182/4TC

Rated current	: 5.90 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.04 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3485 rpm	Design	: B

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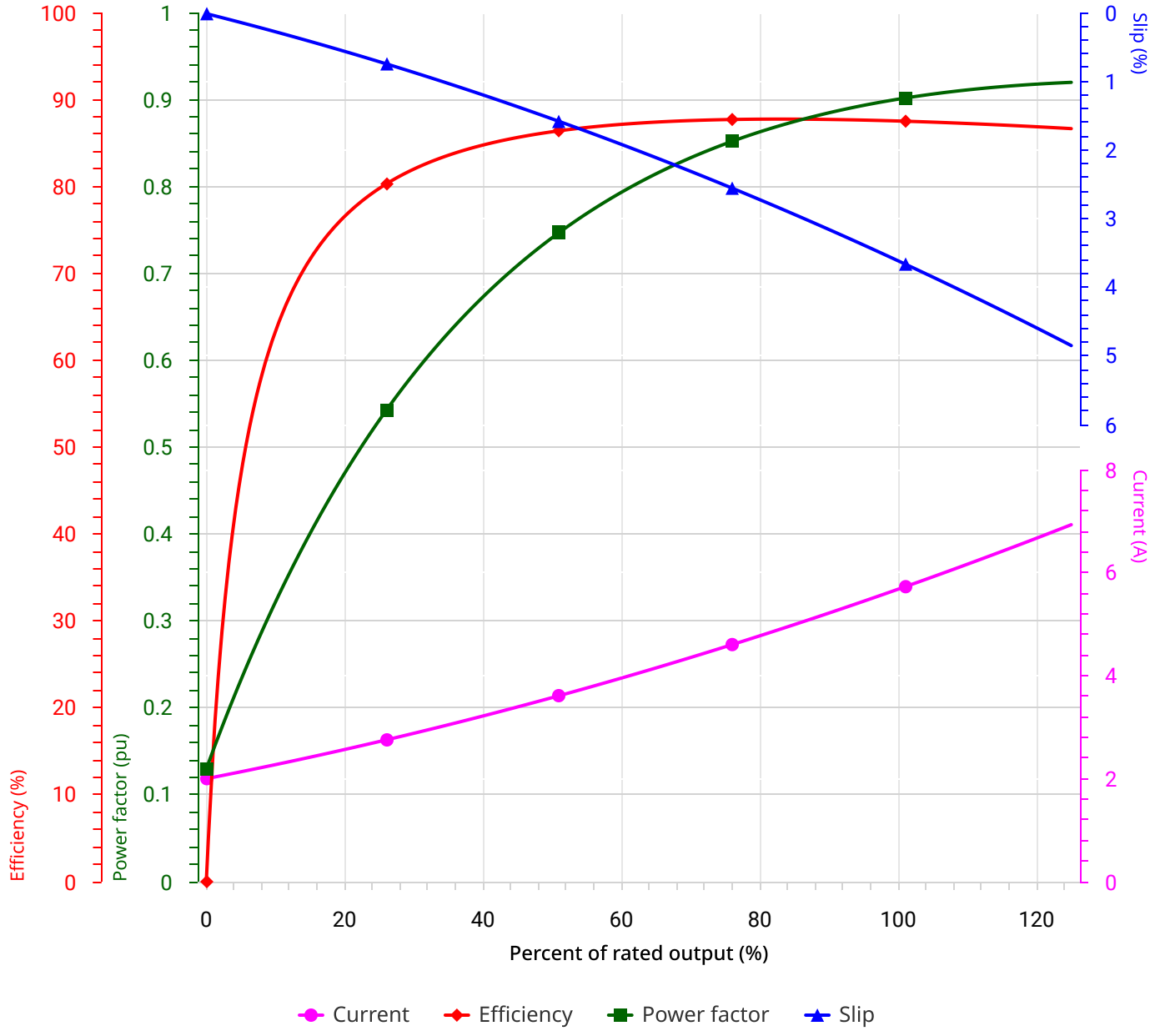
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 IEEE 841 - Nema Premium Efficiency
Product code	: 13533148



Performance	: 4 HP (3 kW) 380V 50Hz 2P 182/4TC

Rated current	: 5.79 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 7.4 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.00 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

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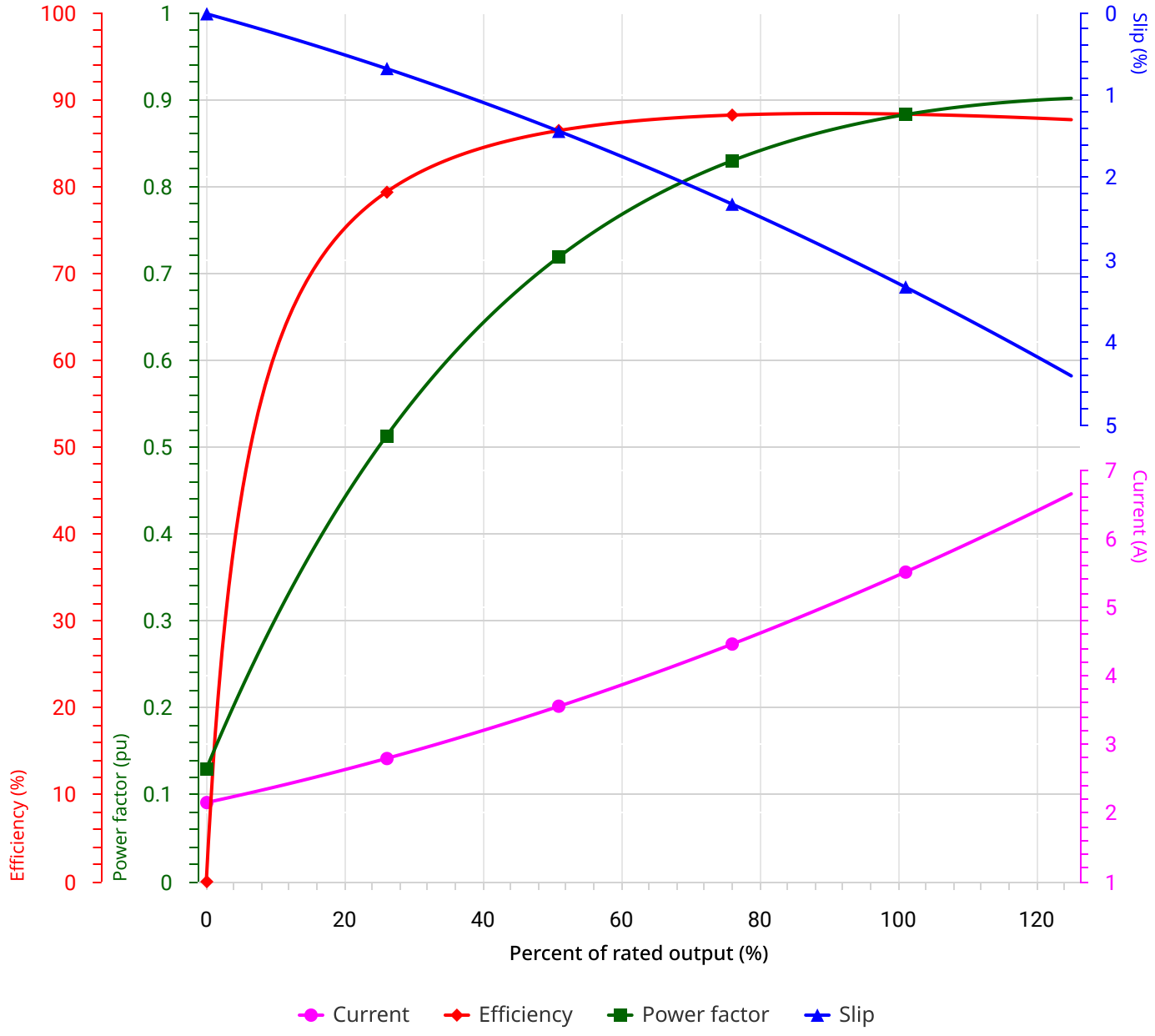
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Performance	: 4 HP (3 kW) 400V 50Hz 2P 182/4TC

Rated current	: 5.57 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 8.1 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.00 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

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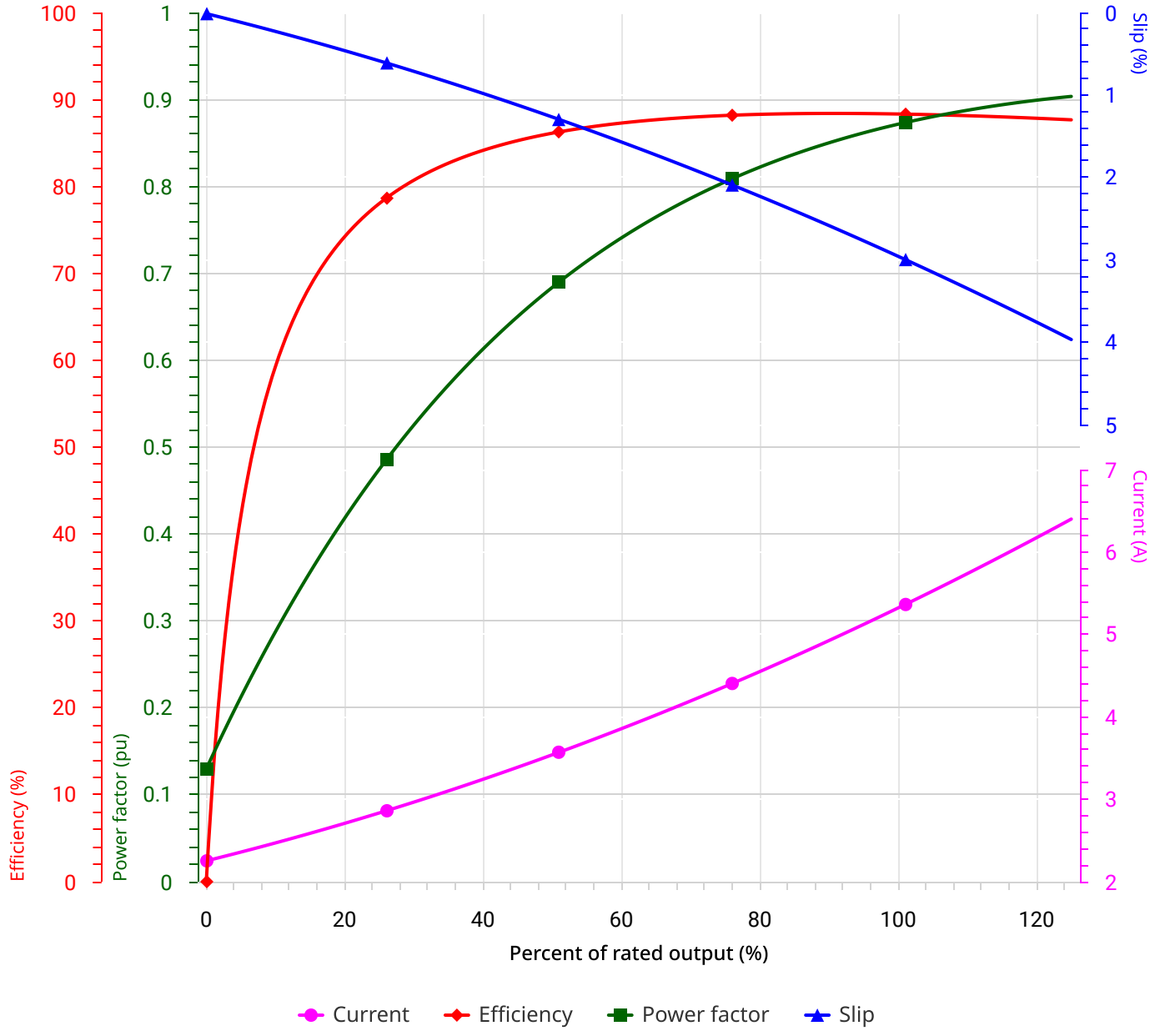
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Performance	: 4 HP (3 kW) 415V 50Hz 2P 182/4TC

Rated current	: 5.43 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 8.9 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.998 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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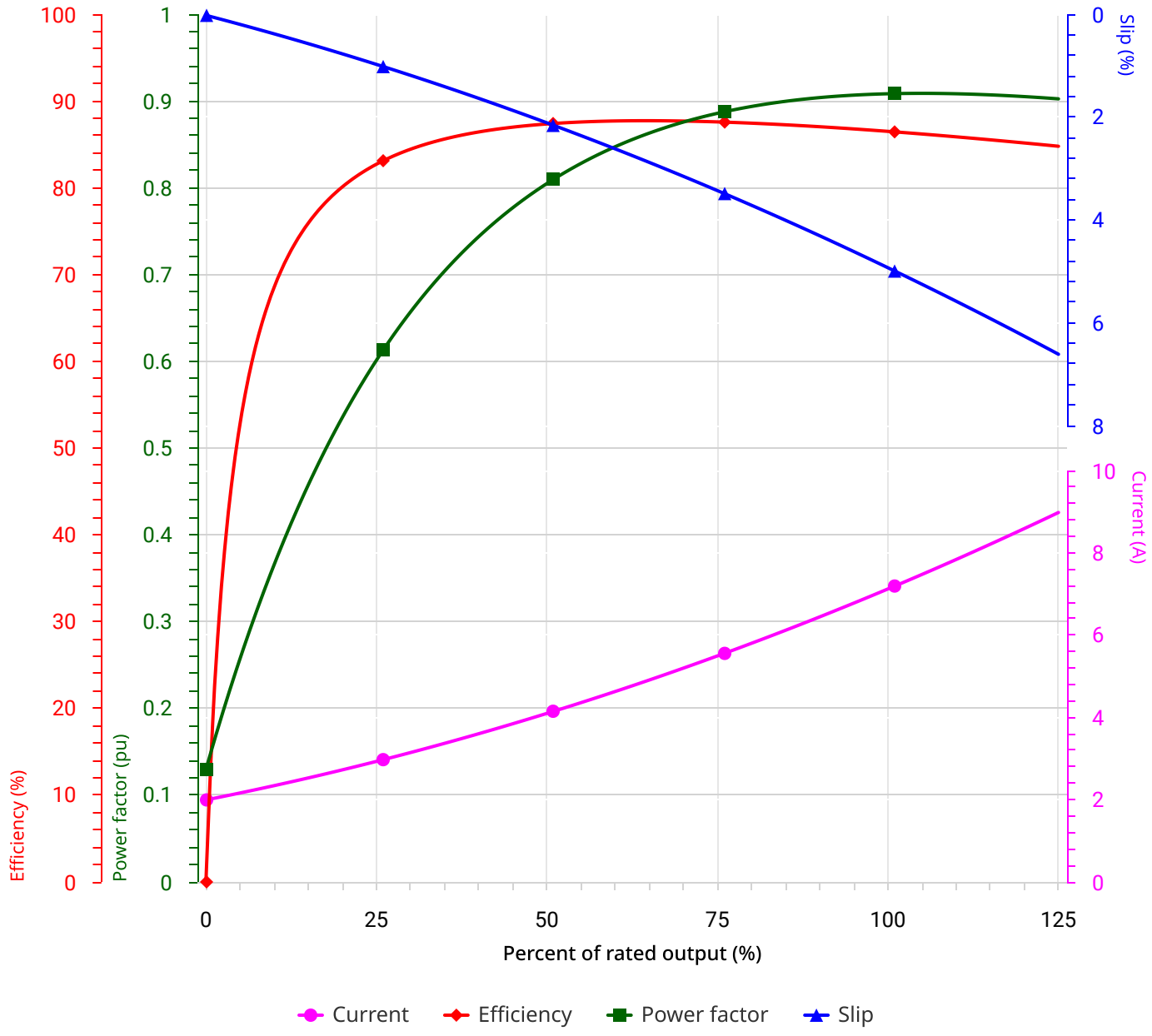
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Performance	: 5 HP (3.7 kW) 380V 50Hz 2P 182/4TC

Rated current	: 7.14 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 5.9 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 1.27 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2850 rpm	Design	: B

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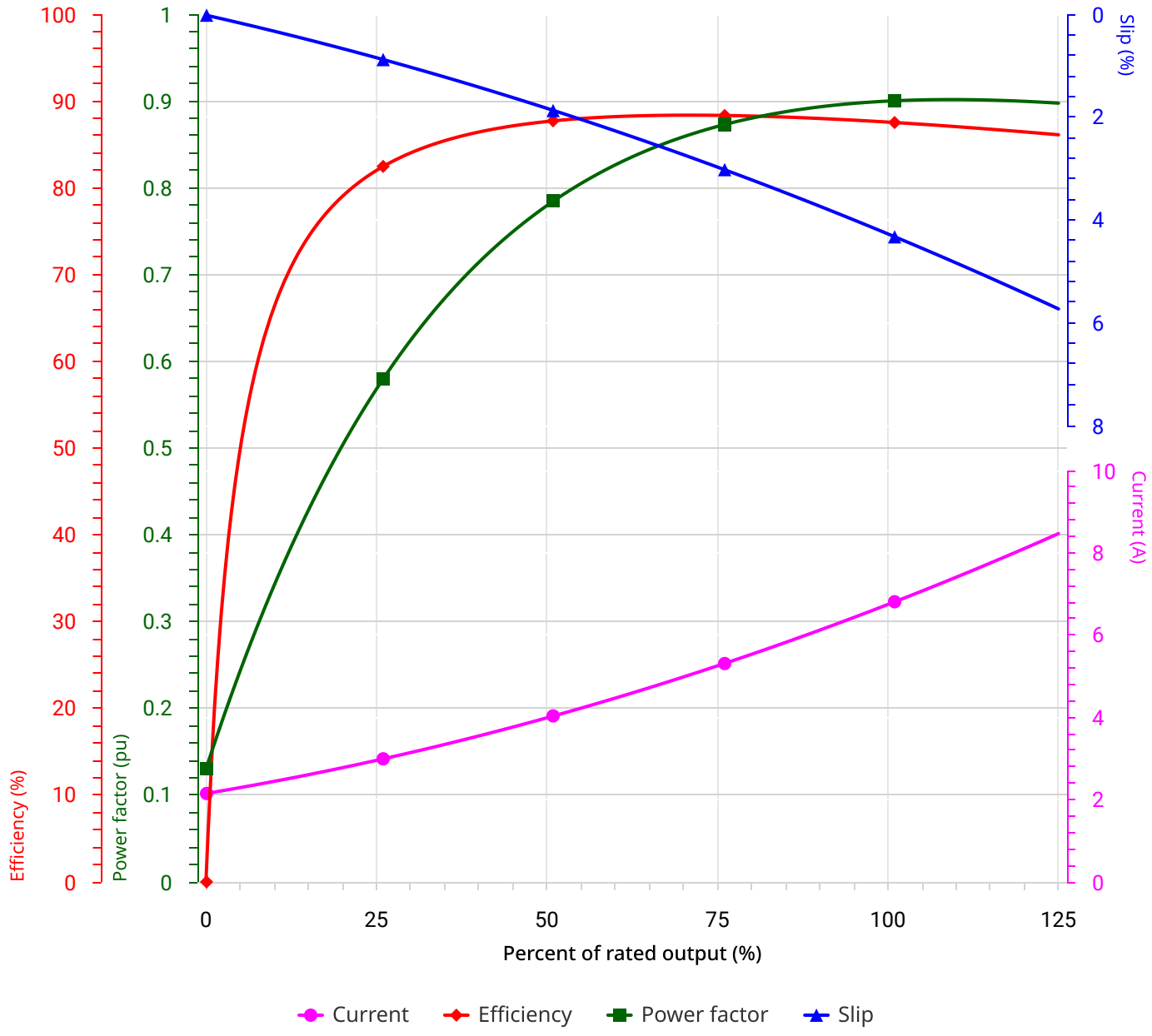
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Performance	: 5 HP (3.7 kW) 400V 50Hz 2P 182/4TC

Rated current	: 6.78 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 6.6 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 1.26 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2870 rpm	Design	: B

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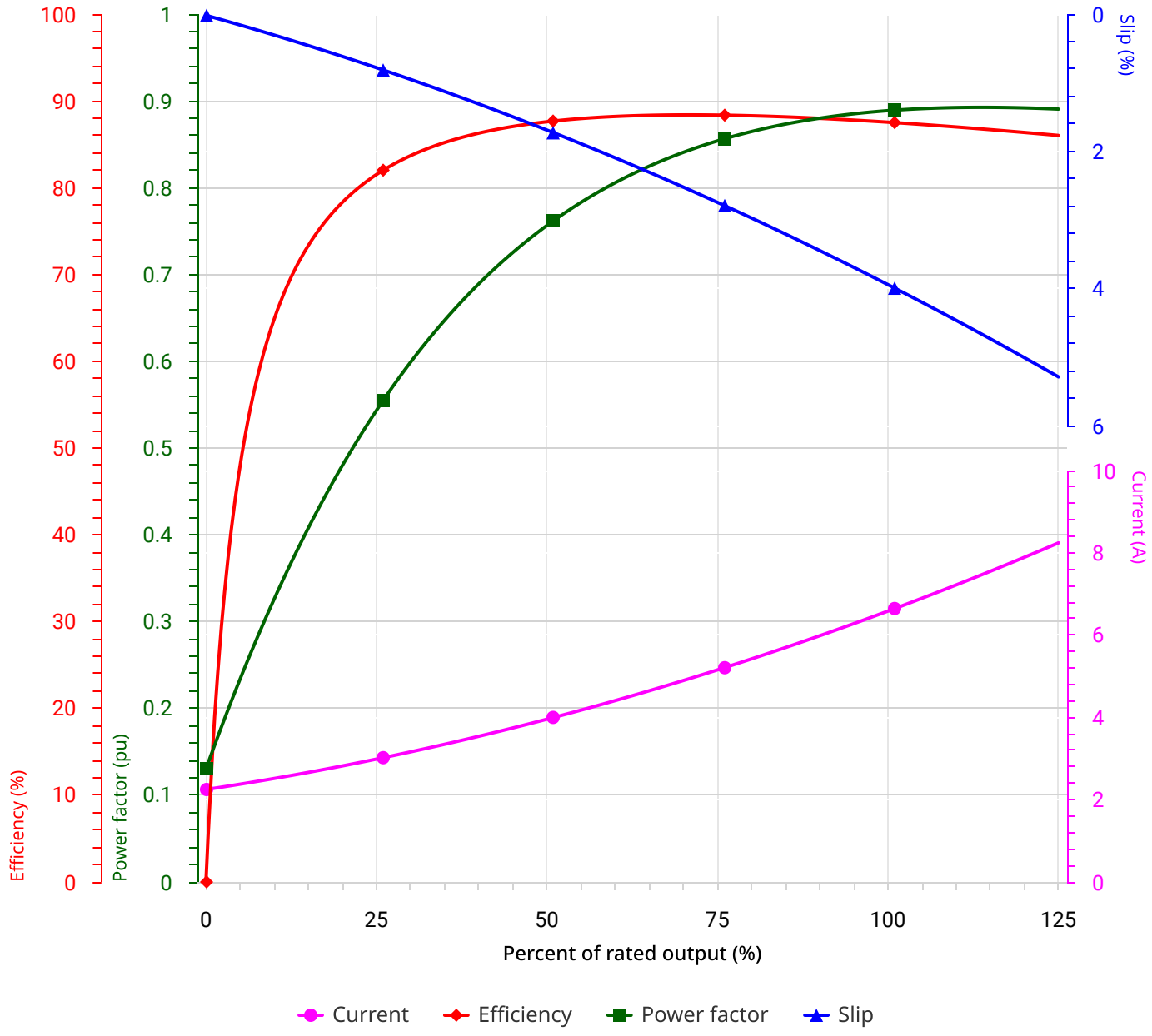
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Performance	: 5 HP (3.7 kW) 415V 50Hz 2P 182/4TC

Rated current	: 6.61 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 7.2 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.26 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2880 rpm	Design	: B

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