DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12378662

Frame	: 182/4T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 40.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.008 kgm²
Design	: B		

Output		3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)	2 HP (1.5 kW)	2 HP (1.5 kW)	2 HP (1.5 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		230/460 V	380 V	400 V	415 V	380 V	400 V	415 V
Rated current		7.52/3.76 A	4.44 A	4.32 A	4.26 A	3.28 A	3.24 A	3.24 A
L. R. Amperes		64.7/32.3 A	31.1 A	32.8 A	35.4 A	31.8 A	35.0 A	36.0 A
LRC		8.6 Code K	7.0 Code H	7.6 Code J	8.3 Code K	9.7 Code M	10.8 Code N	11.1 Code P
No load current		3.20/1.60 A	1.50 A	1.70 A	1.80 A	1.50 A	1.65 A	1.80 A
Rated speed		3515 rpm	2890 rpm	2900 rpm	2910 rpm	2935 rpm	2940 rpm	2945 rpm
Slip		2.36 %	3.67 %	3.33 %	3.00 %	2.17 %	2.00 %	1.83 %
Rated torque		0.619 kgfm	0.753 kgfm	0.751 kgfm	0.748 kgfm	0.495 kgfm	0.494 kgfm	0.493 kgfm
Locked rotor torque		250 %	190 %	210 %	230 %	280 %	320 %	350 %
Breakdown torque		380 %	270 %	300 %	330 %	420 %	470 %	510 %
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		26 s (hot) 47 s (cold)	23 s (hot) 41 s (cold)	24 s (hot) 43 s (cold)	19 s (hot) 34 s (cold)	29 s (hot) 52 s (cold)	24 s (hot) 43 s (cold)	27 s (hot) 49 s (cold)
Efficiency (%)	50%	82.0	84.0	84.0	84.0	81.0	80.6	79.7
	75%	86.0	85.5	85.5	85.5	84.5	84.5	84.1
	100%	86.5	85.5	85.5	85.5	85.8	85.8	85.9
Power Factor	Start	0.52	0.52	0.52	0.52	0.52	0.52	0.52
	50%	0.70	0.76	0.71	0.68	0.63	0.58	0.55
	75%	0.80	0.84	0.81	0.79	0.75	0.71	0.67
	100%	0.85	0.88	0.86	0.84	0.81	0.78	0.75
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)		14.56	14.56	14.56	14.56	14.56	14.56	14.56
P2 (0,5;1,0)		10.65	10.65	10.65	10.65	10.65	10.65	10.65
P3 (0,25;1,0)		9.38	9.38	9.38	9.38	9.38	9.38	9.38
P4 (0,9;0,5)		8.33	8.33	8.33	8.33	8.33	8.33	8.33
P5 (0,5;0,5)		4.52	4.52	4.52	4.52	4.52	4.52	4.52
P6 (0,5;0,25)		3.13	3.13	3.13	3.13	3.13	3.13	3.13
P7 (0,25;0,25)		1.80	1.80	1.80	1.80	1.80	1.80	1.80

	Drive end	Non drive end
Bearing type	6207-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads	
Max. traction	: 32 kgf
Max. compression	: 72 kgf

Notes:

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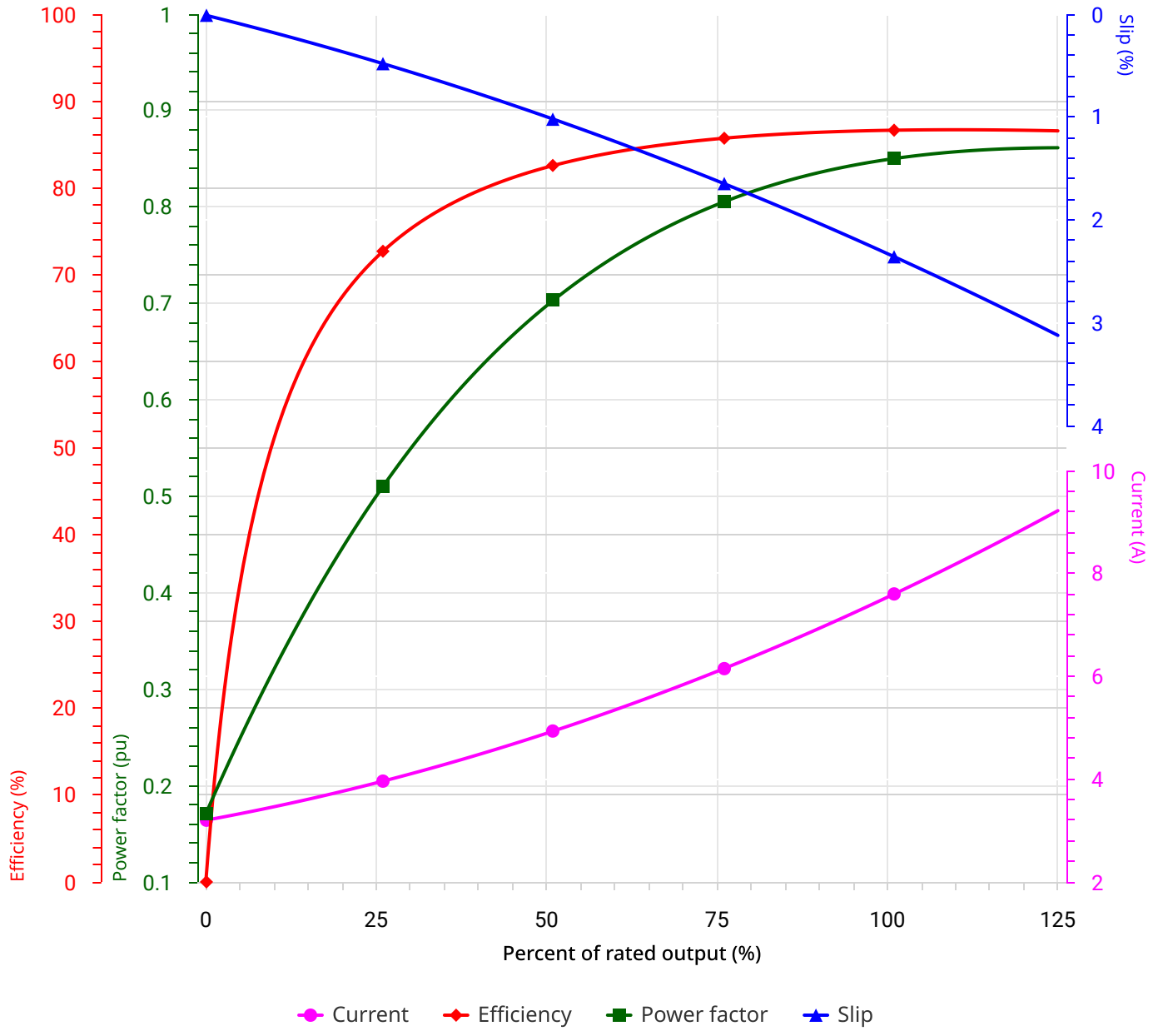
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12378662



Performance	: 3 HP (2.2 kW) 208/230/460V 60Hz 2P 182/4T

Rated current	: 8.01/7.52/3.76 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 8.6 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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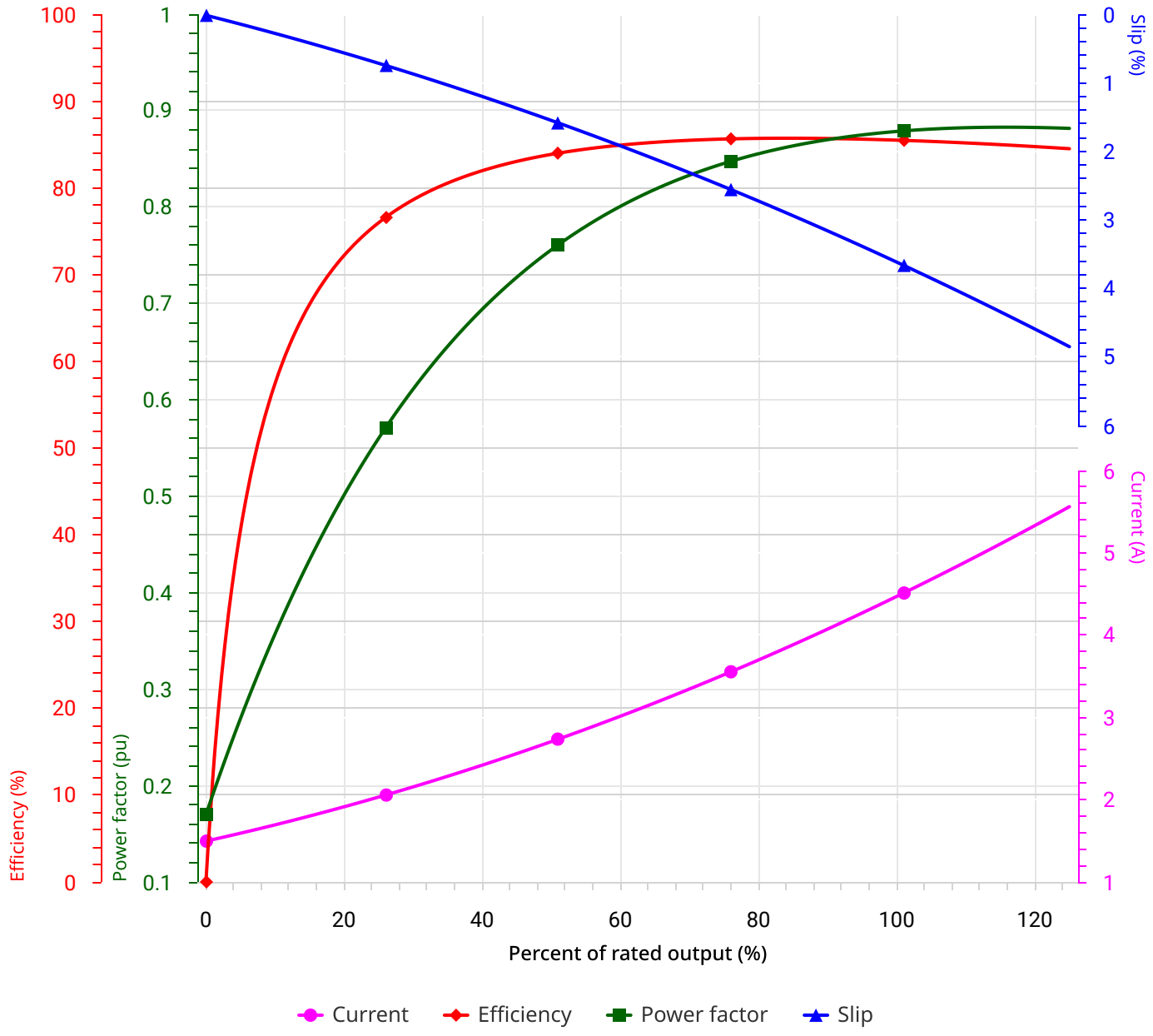
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 3 HP (2.2 kW) 380V 50Hz 2P 182/4T		
Rated current	: 4.44 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 7.0 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 0.753 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

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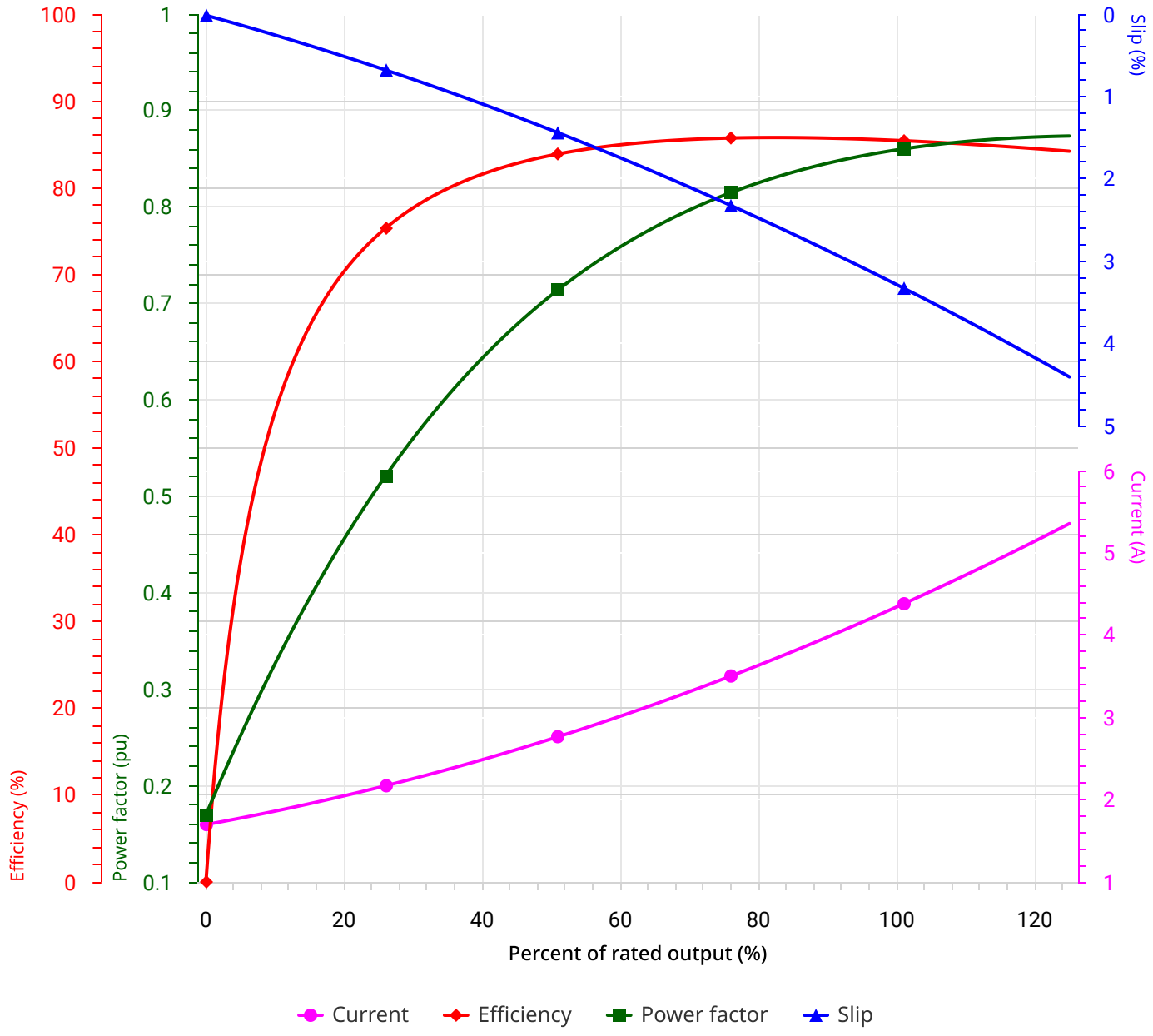
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Performance	: 3 HP (2.2 kW) 400V 50Hz 2P 182/4T		
Rated current	: 4.32 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.751 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

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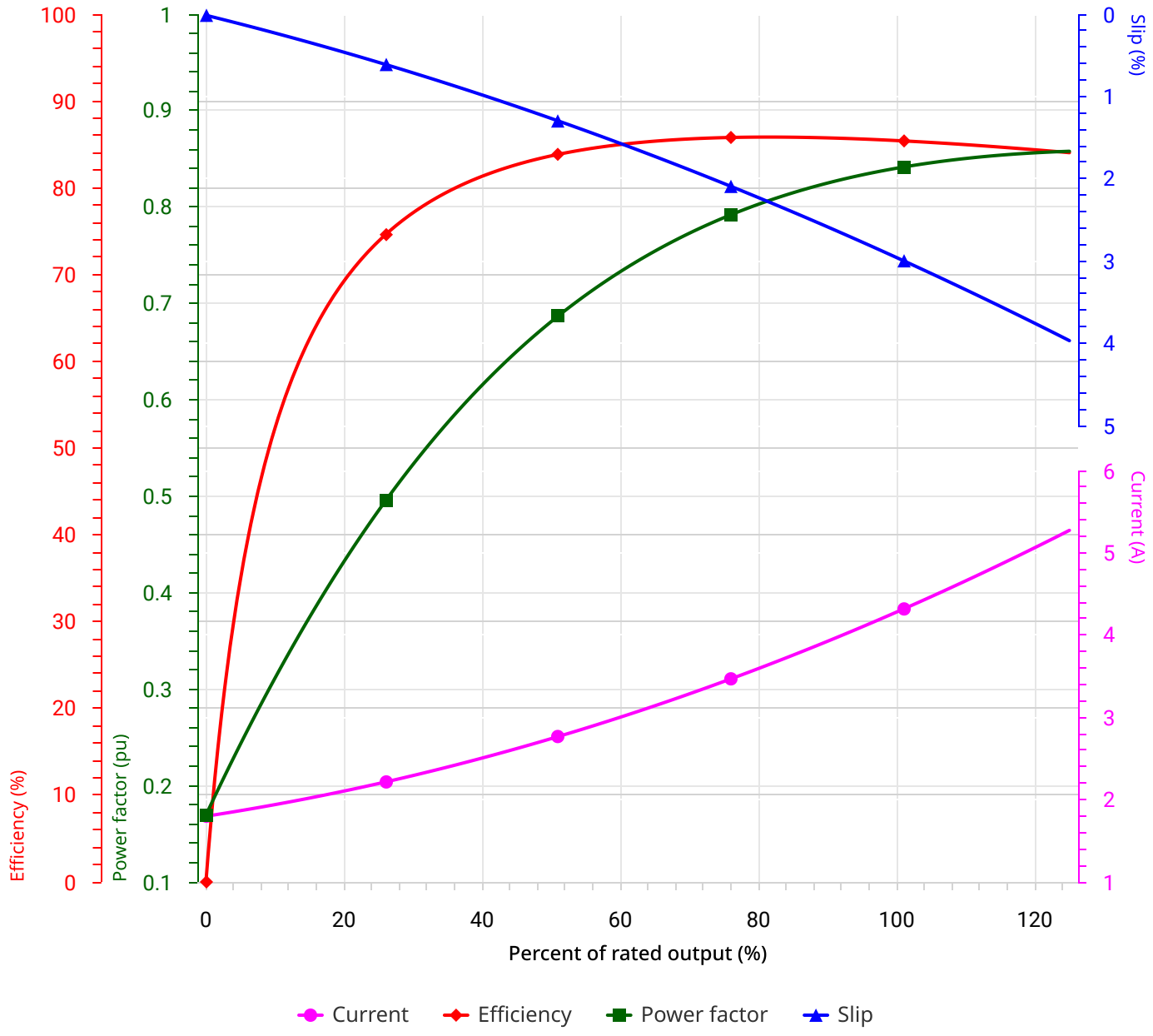
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Performance	: 3 HP (2.2 kW) 415V 50Hz 2P 182/4T		
Rated current	: 4.26 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 8.3 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.748 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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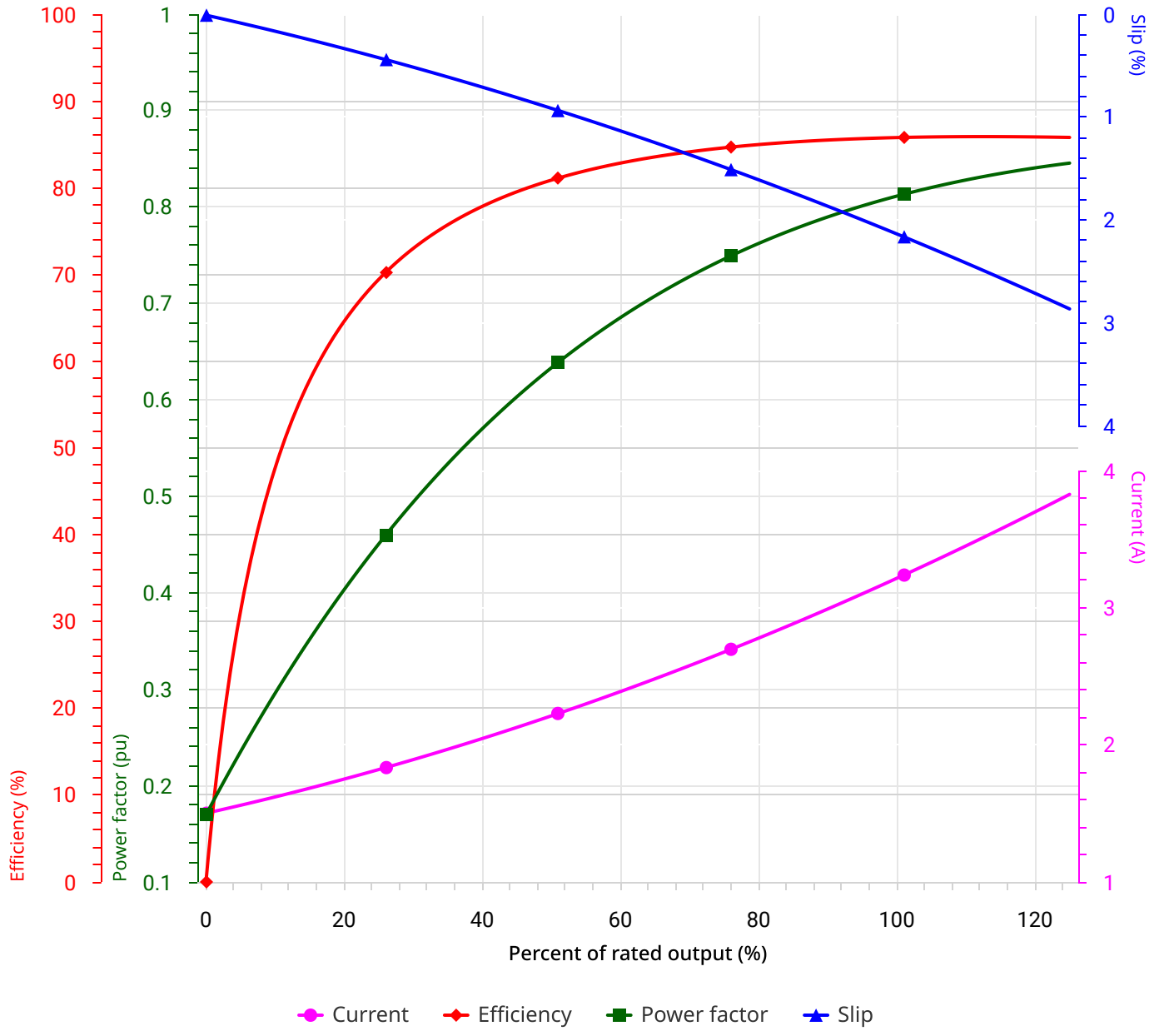
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Performance	: 2 HP (1.5 kW) 380V 50Hz 2P 182/4T		
Rated current	: 3.28 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 9.7 Code M	Duty cycle	: Cont.(S1)
Rated torque	: 0.495 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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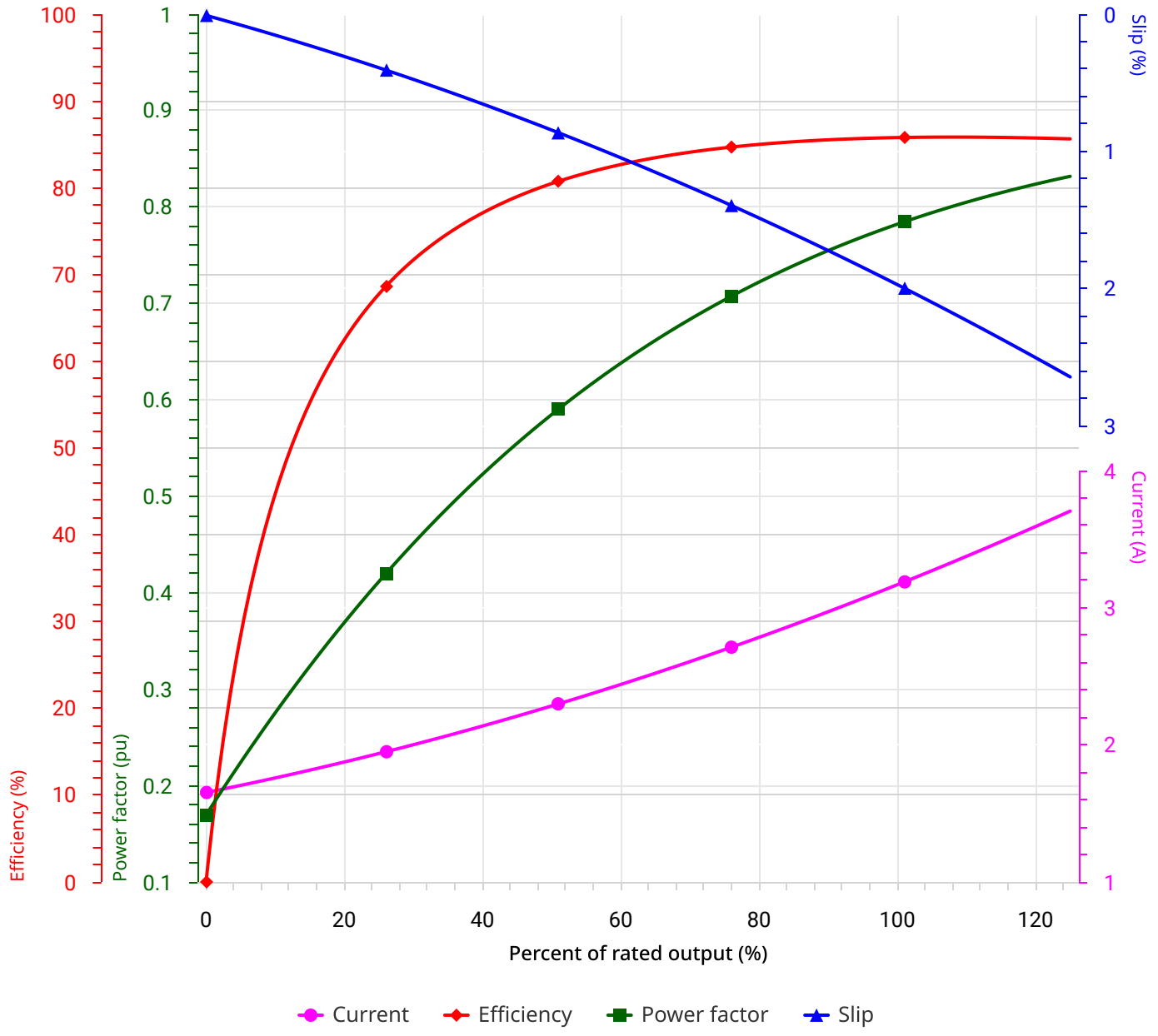
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Performance	: 2 HP (1.5 kW) 400V 50Hz 2P 182/4T		
Rated current	: 3.24 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 10.8 Code N	Duty cycle	: Cont.(S1)
Rated torque	: 0.494 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.25
Breakdown torque	: 470 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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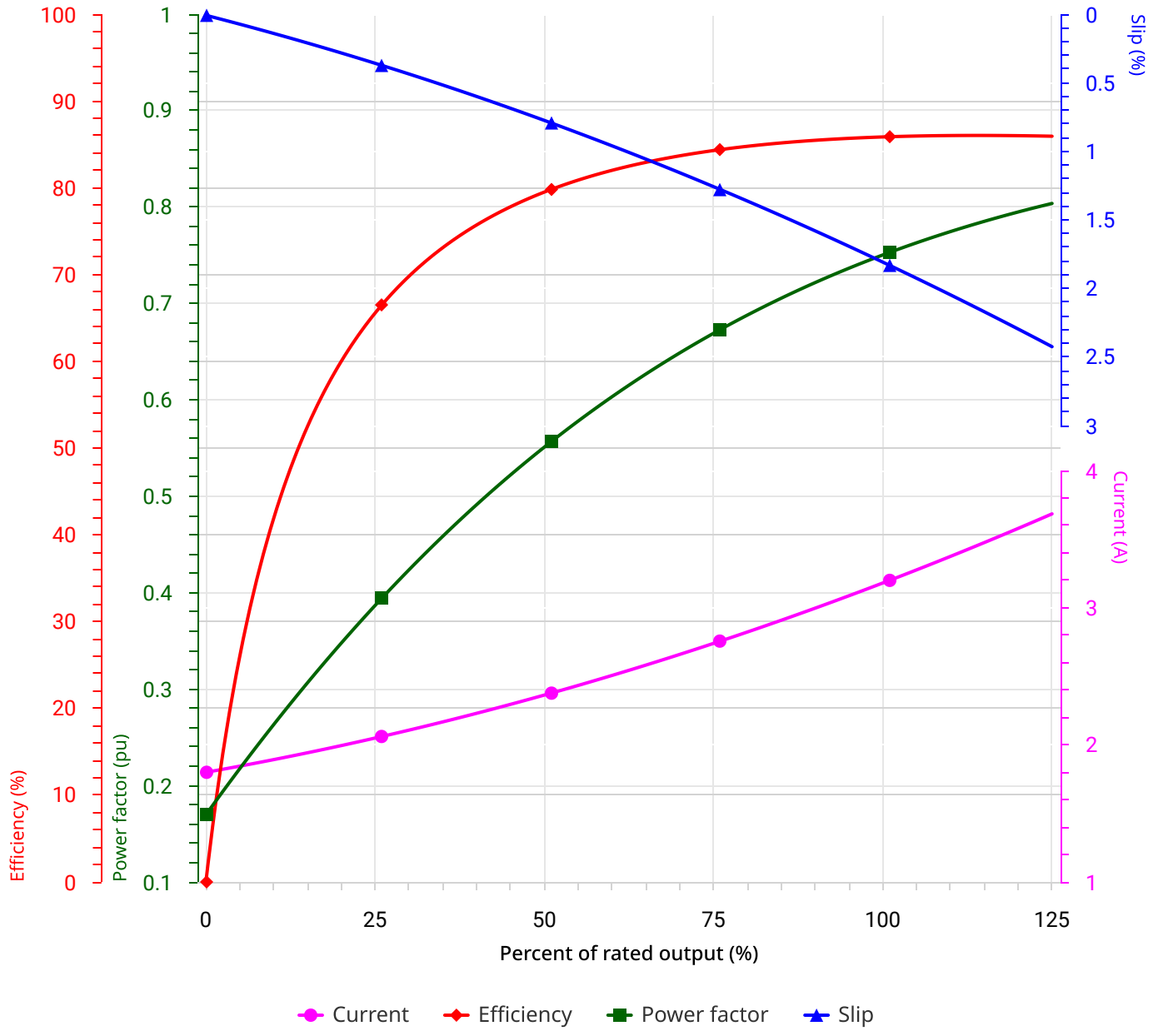
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Performance	: 2 HP (1.5 kW) 415V 50Hz 2P 182/4T

Rated current	: 3.24 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 11.1 Code P	Duty cycle	: Cont.(S1)
Rated torque	: 0.493 kgfm	Insulation class	: F
Locked rotor torque	: 350 %	Service factor	: 1.25
Breakdown torque	: 510 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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