DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 12707482

Frame	: 254/6T	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	: 81.5 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0386 kgm²
Design	: B		

Output		25 HP (18.5 kW)	25 HP (18.5 kW)	25 HP (18.5 kW)	25 HP (18.5 kW)
Poles		2	2	2	2
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		64.4-58.2/29.1 A	70.6/35.3 A	61.0 A	62.3/33.0 A
L. R. Amperes		367/183 A	374/187 A	323 A	392/208 A
LRC		6.3 Code G	5.3 Code E	5.3 Code E	6.3 Code G
No load current		22.8/11.4 A	22.3/11.2 A	19.3 A	26.5/14.1 A
Rated speed		3530 rpm	2905 rpm	2905 rpm	2920 rpm
Slip		1.94 %	3.17 %	3.17 %	2.67 %
Rated torque		5.14 kgfm	6.25 kgfm	6.00 kgfm	6.21 kgfm
Locked rotor torque		180 %	150 %	150 %	180 %
Breakdown torque		290 %	220 %	220 %	260 %
Service factor		1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K
Noise level		70 dB(A)	68 dB(A)	68.0 dB(A)	68 dB(A)
Locked rotor time		9 s (hot) 16 s (cold)	0 s (hot) 0 s (cold)	0 s (hot) 0 s (cold)	0 s (hot) 0 s (cold)
Efficiency (%)	50%	91.0	91.1	91.1	90.6
	75%	91.7	90.3	90.3	90.6
	100%	91.7	88.5	88.5	89.6
Power Factor	Start	0.47	0.51	0.51	0.51
	50%	0.73	0.80	0.80	0.71
	75%	0.83	0.87	0.87	0.82
	100%	0.87	0.9	0.9	0.87
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	6309-Z-C3	6208-Z-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	8 g
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/13

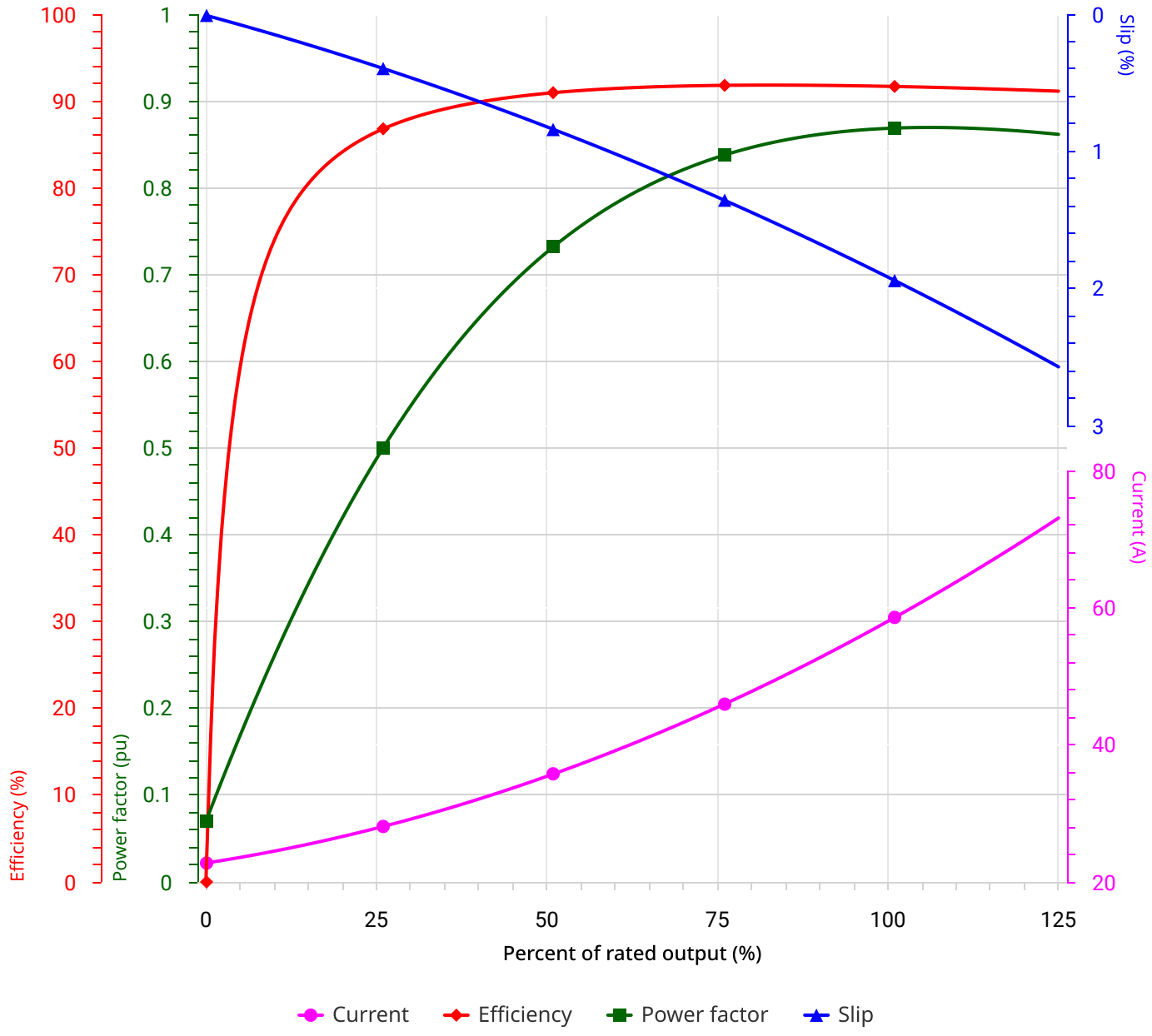
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LOAD PERFORMANCE CURVE

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Customer	:
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Performance	: 25 HP (18.5 kW) 208/230/460V 60Hz 2P 254/6T		
Rated current	: 64.4/58.2/29.1 A	Moment of inertia (J)	: 0.0386 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 5.14 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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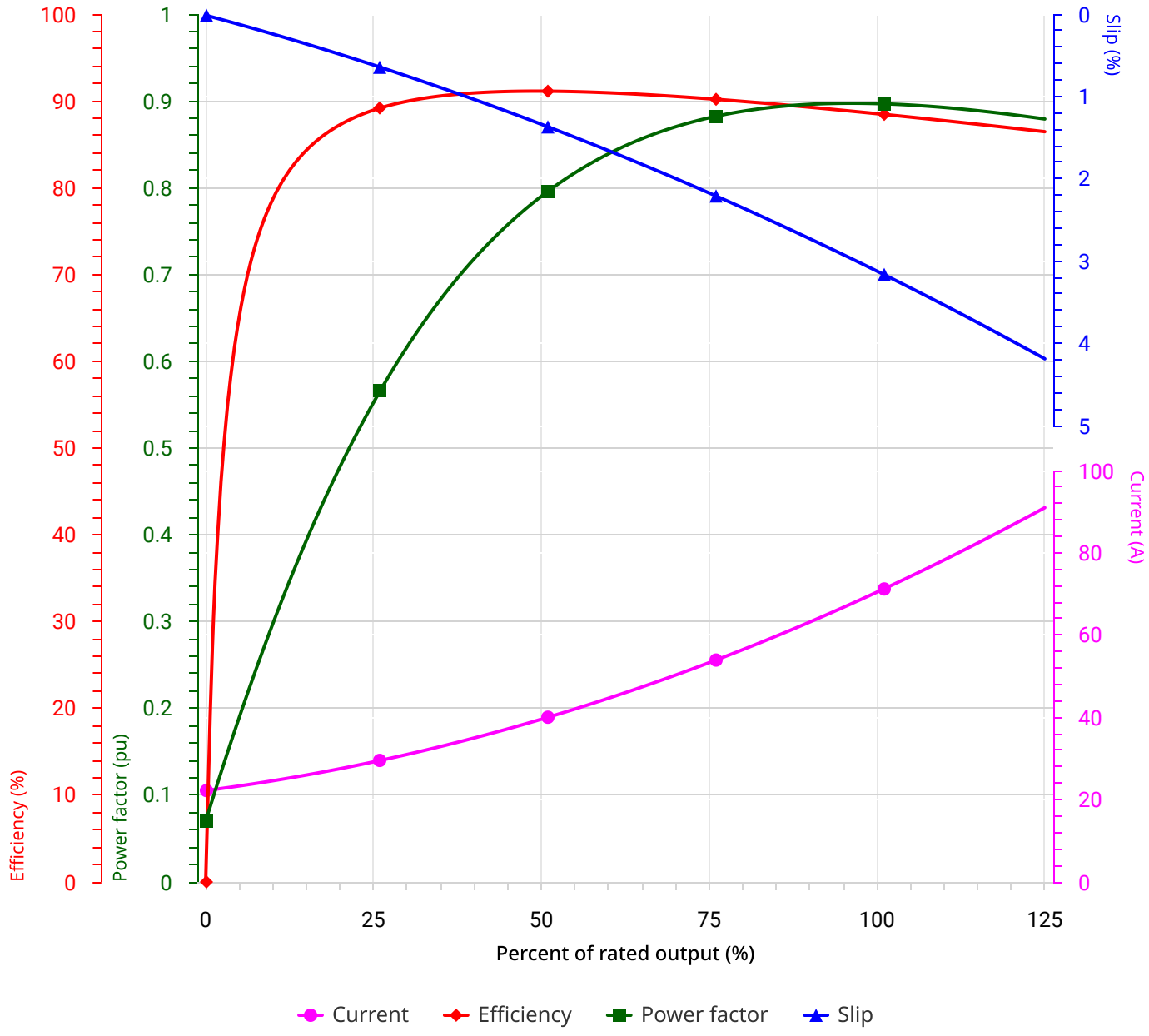
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 12707482



Performance	: 25 HP (18.5 kW) 190/380V 50Hz 2P 254/6T

Rated current	: 70.6/35.3 A	Moment of inertia (J)	: 0.0386 kgm²
LRC	: 5.3 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 6.25 kgfm	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: B

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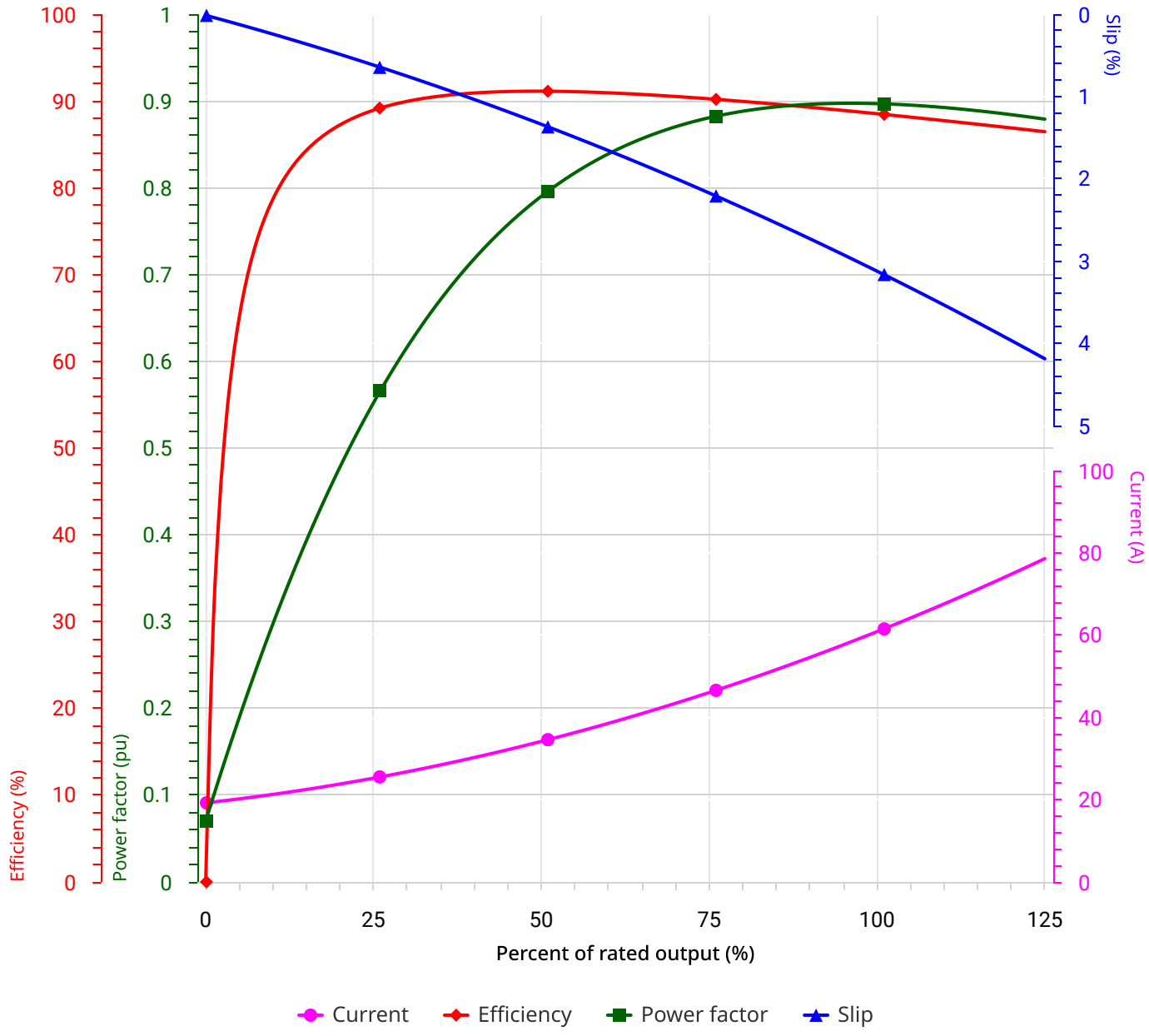
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Performance	: 25 HP (18.5 kW) 220V 50Hz 2P 254/6T

Rated current	: 61.0 A	Moment of inertia (J)	: 0.0386 kgm²
LRC	: 5.3 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 6.00 kgfm	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: 00002

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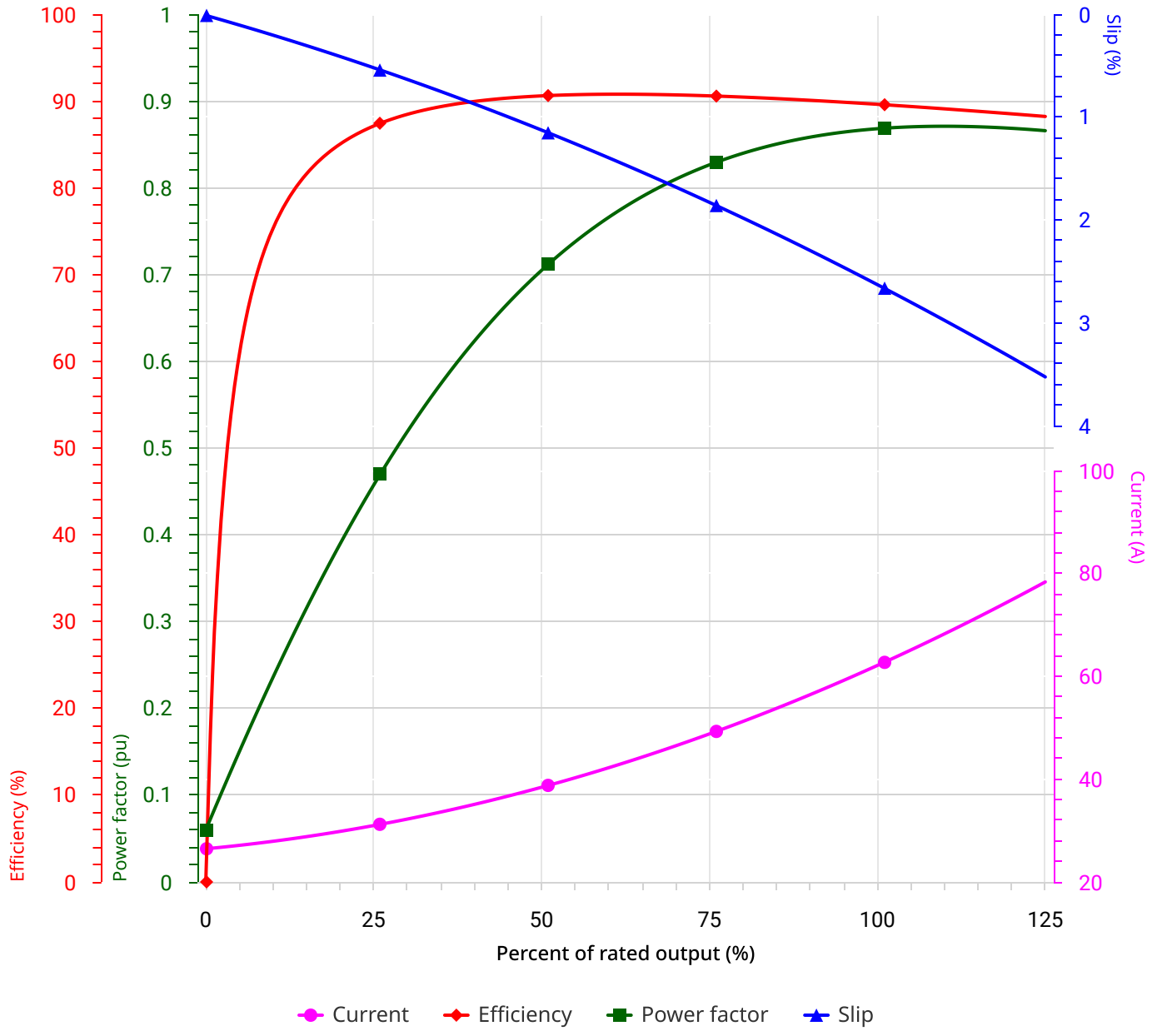
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Performance	: 25 HP (18.5 kW) 220/415V 50Hz 2P 254/6T

Rated current	: 62.3/33.0 A	Moment of inertia (J)	: 0.0386 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.21 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B

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