DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11587597

Frame	: 254/6JM	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	: 164 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1305 kgm²
Design	: B		

Output		20 HP (15 kW)	20 HP (15 kW)	20 HP (15 kW)	20 HP (15 kW)	15 HP (11 kW)	15 HP (11 kW)	15 HP (11 kW)
Poles		4	4	4	4	4	4	4
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		48.2/24.1 A	29.4 A	28.0 A	27.1 A	21.8 A	21.2 A	20.6 A
L. R. Amperes		313/157 A	167 A	174 A	179 A	161 A	167 A	173 A
LRC		6.5 Code G	5.7 Code F	6.2 Code G	6.6 Code H	7.4 Code H	7.9 Code J	8.4 Code K
No load current		19.2/9.60 A	9.90 A	10.5 A	11.0 A	9.90 A	10.5 A	11.0 A
Rated speed		1770 rpm	1455 rpm	1460 rpm	1465 rpm	1473 rpm	1475 rpm	1477 rpm
Slip		1.67 %	3.00 %	2.67 %	2.33 %	1.80 %	1.67 %	1.53 %
Rated torque		8.20 kgfm	9.98 kgfm	9.94 kgfm	9.91 kgfm	7.39 kgfm	7.38 kgfm	7.37 kgfm
Locked rotor torque		240 %	180 %	210 %	230 %	250 %	280 %	300 %
Breakdown torque		260 %	210 %	230 %	260 %	260 %	320 %	340 %
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	105 K	95 K	95 K	80 K	80 K	80 K
Noise level		64 dB(A)	61 dB(A)	61 dB(A)	61 dB(A)	61 dB(A)	61 dB(A)	61 dB(A)
Locked rotor time		18 s (hot) 32 s (cold)	9 s (hot) 16 s (cold)	9 s (hot) 16 s (cold)	10 s (hot) 18 s (cold)	19 s (hot) 34 s (cold)	17 s (hot) 31 s (cold)	17 s (hot) 31 s (cold)
Efficiency (%)	50%	91.7	91.7	91.0	91.0	91.0	89.8	89.8
	75%	92.4	91.0	91.0	91.7	91.5	91.0	91.3
	100%	93.0	90.2	91.0	91.7	91.4	91.4	91.7
Power Factor	Start	0.48	0.48	0.48	0.48	0.48	0.48	0.48
	50%	0.68	0.75	0.72	0.70	0.65	0.62	0.60
	75%	0.79	0.83	0.81	0.80	0.78	0.75	0.73
	100%	0.84	0.86	0.85	0.84	0.84	0.82	0.81
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)		7.45	10.76	9.80	8.96	9.32	9.32	8.96
P2 (0,5;1,0)		6.50	9.39	8.54	7.82	8.13	8.13	7.82
P3 (0,25;1,0)		6.04	8.72	7.94	7.26	7.55	7.55	7.26
P4 (0,9;0,5)		3.50	5.06	4.60	4.21	4.38	4.38	4.21
P5 (0,5;0,5)		2.51	3.62	3.30	3.02	3.14	3.14	3.02
P6 (0,5;0,25)		1.62	2.34	2.13	1.95	2.03	2.03	1.95
P7 (0,25;0,25)		1.16	1.68	1.53	1.40	1.46	1.46	1.40

	Drive end	Non drive end
Bearing type	6309-C3	6209-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	9 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 318 kgf
Max. compression : 482 kgf

Notes:

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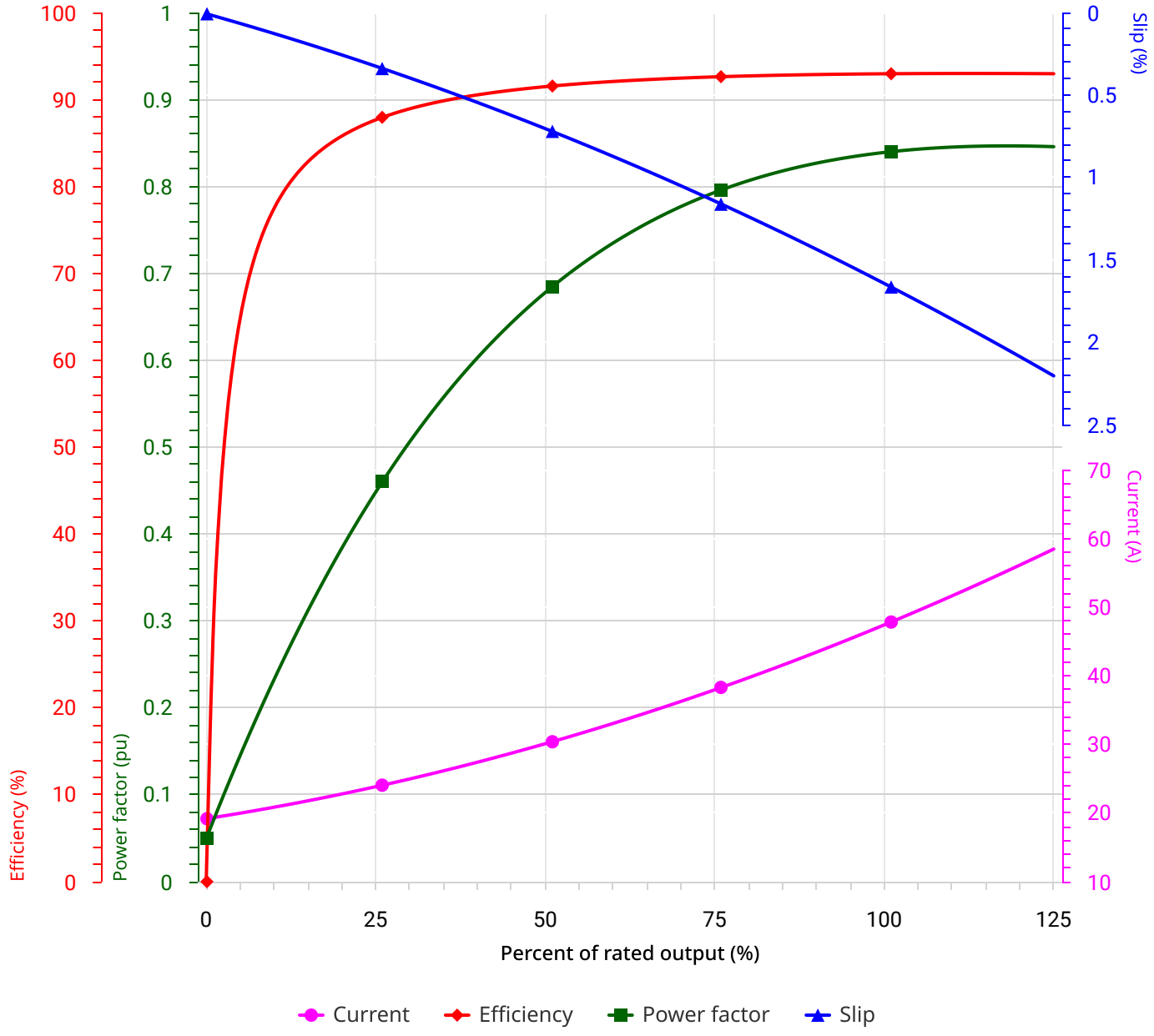
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11587597



Performance	: 20 HP (15 kW) 208/230/460V 60Hz 4P 254/6JM

Rated current	: 53.3/48.2/24.1 A	Moment of inertia (J)	: 0.1305 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 8.20 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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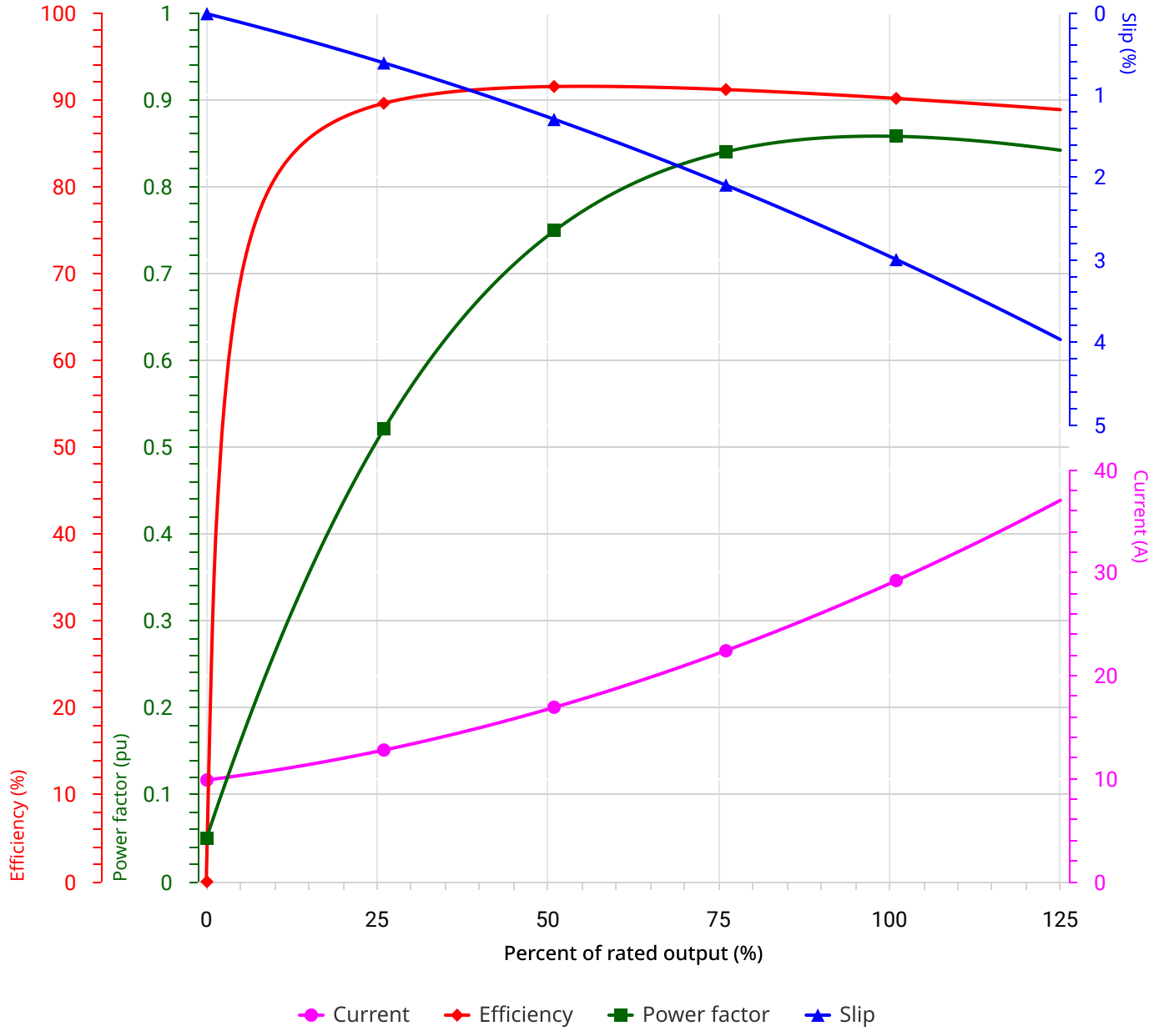
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11587597



Performance	: 20 HP (15 kW) 380V 50Hz 4P 254/6JM

Rated current	: 29.4 A	Moment of inertia (J)	: 0.1305 kgm²
LRC	: 5.7 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 9.98 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1455 rpm	Design	: B

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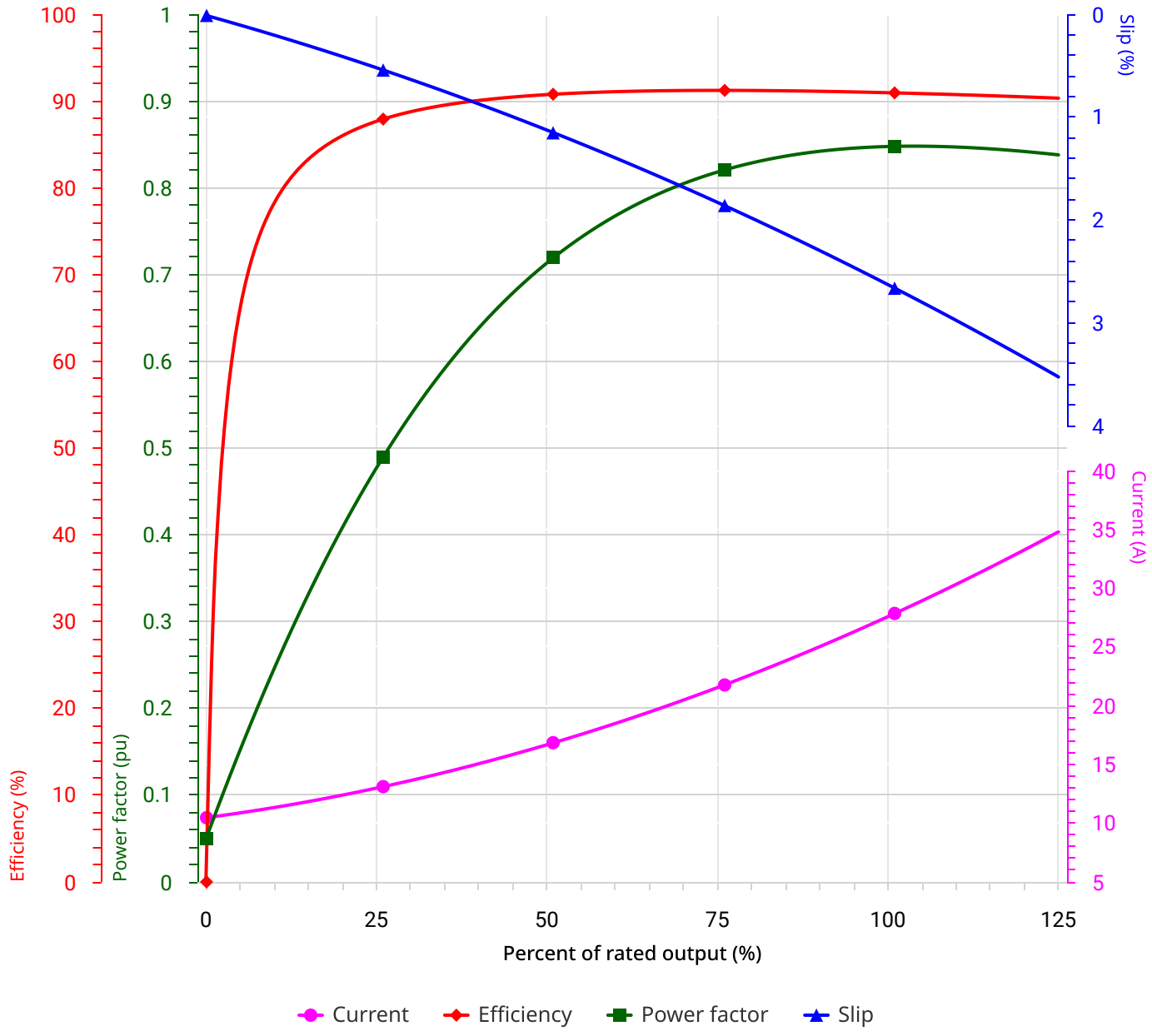
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 20 HP (15 kW) 400V 50Hz 4P 254/6JM

Rated current	: 28.0 A	Moment of inertia (J)	: 0.1305 kgm²
LRC	: 6.2 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 9.94 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 230 %	Temperature rise	: 95 K
Rated speed	: 1460 rpm	Design	: B

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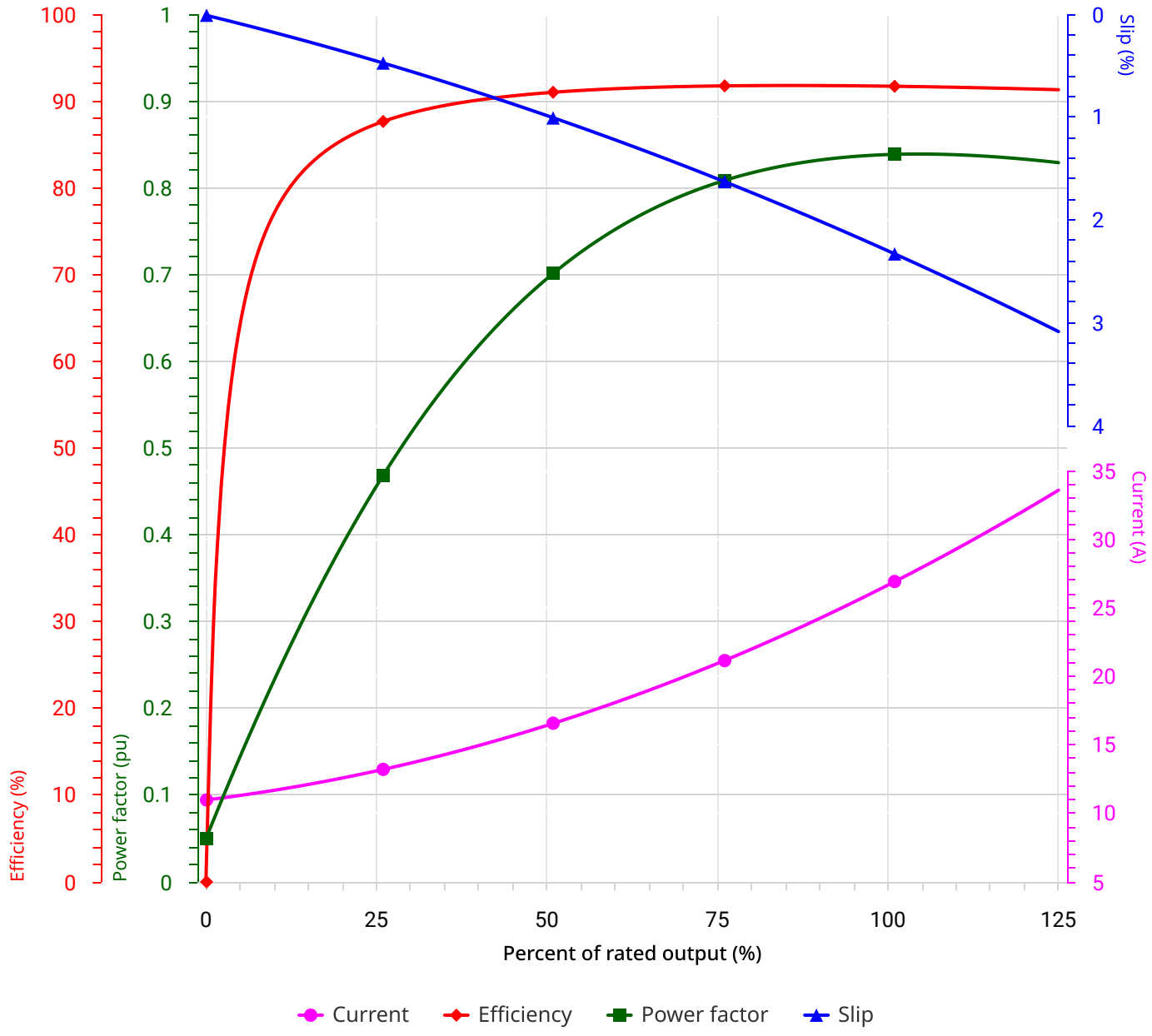
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Performance	: 20 HP (15 kW) 415V 50Hz 4P 254/6JM

Rated current	: 27.1 A	Moment of inertia (J)	: 0.1305 kgm²
LRC	: 6.6 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 9.91 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 95 K
Rated speed	: 1465 rpm	Design	: B

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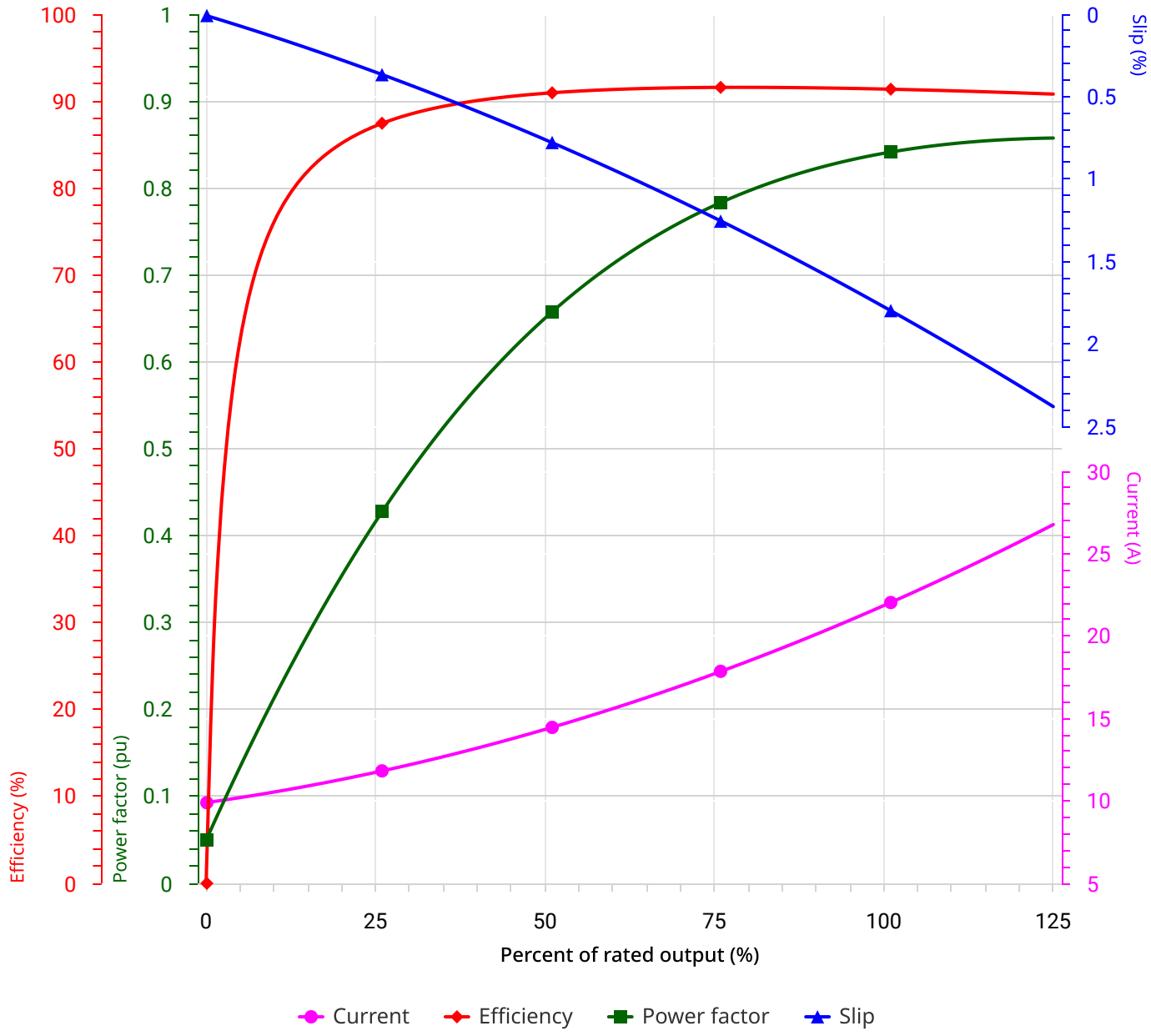
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Performance	: 15 HP (11 kW) 380V 50Hz 4P 254/6JM

Rated current	: 21.8 A	Moment of inertia (J)	: 0.1305 kgm²
LRC	: 7.4 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 7.39 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1473 rpm	Design	: B

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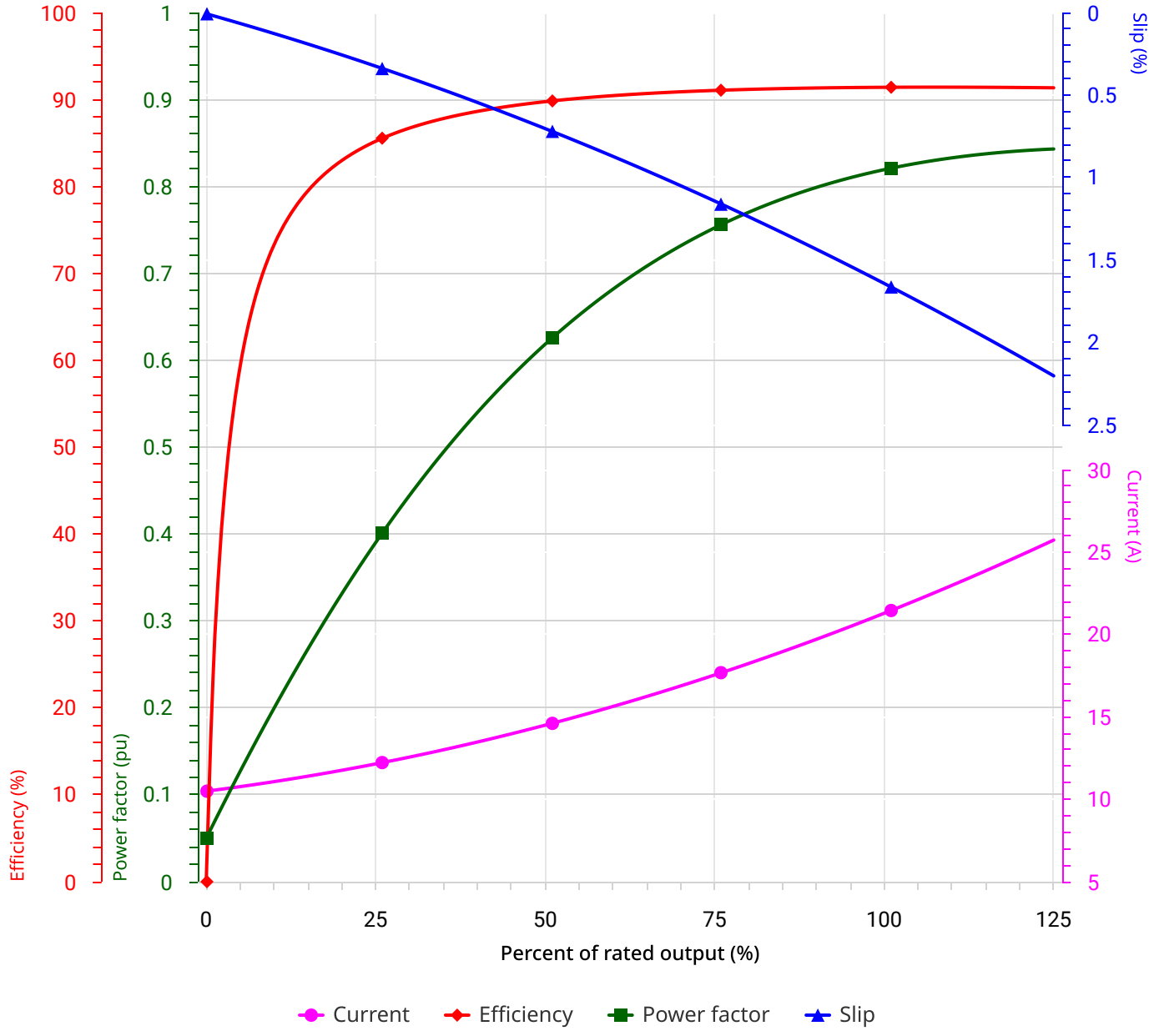
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Performance	: 15 HP (11 kW) 400V 50Hz 4P 254/6JM

Rated current	: 21.2 A	Moment of inertia (J)	: 0.1305 kgm²
LRC	: 7.9 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 7.38 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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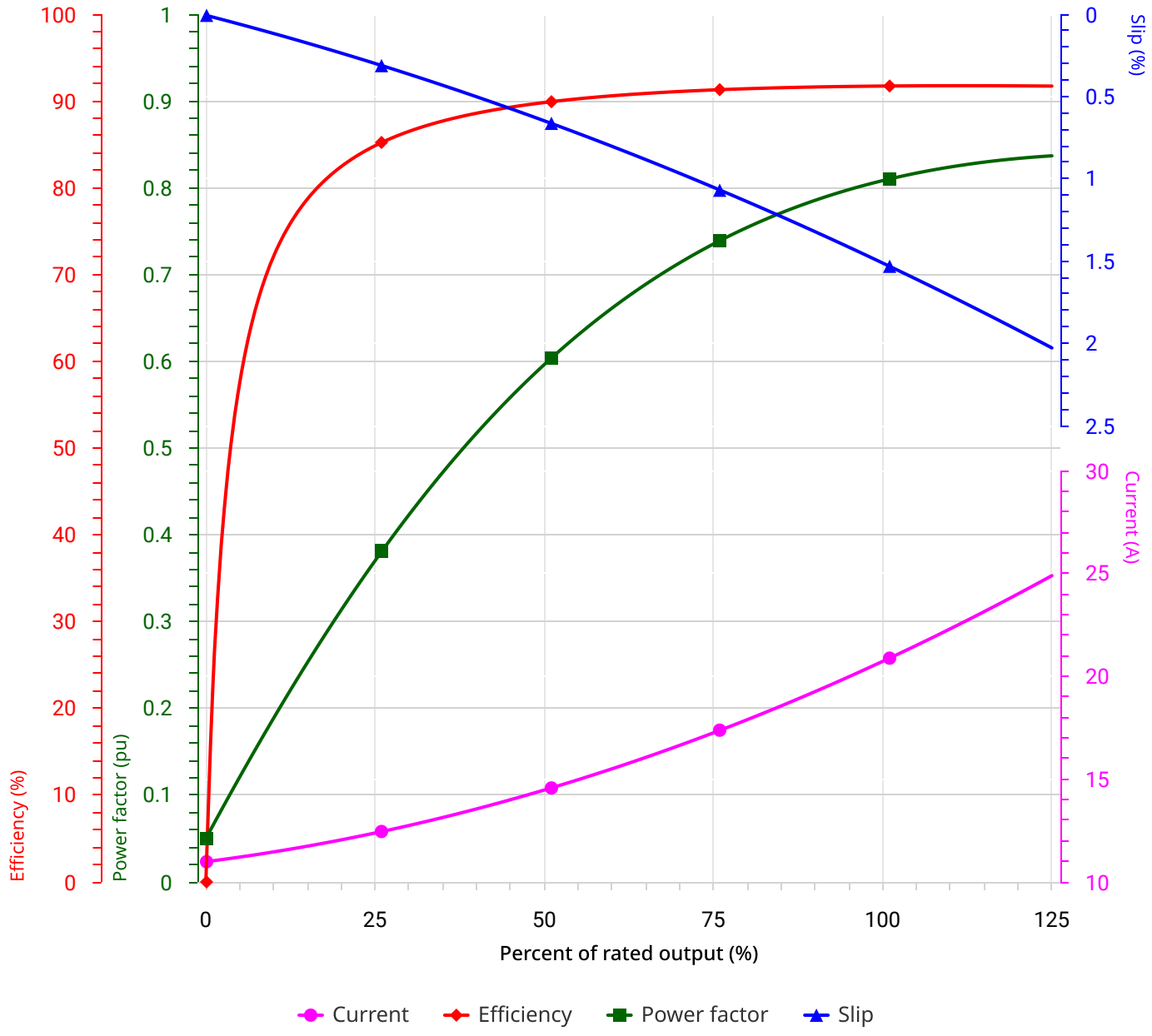
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Performance	: 15 HP (11 kW) 415V 50Hz 4P 254/6JM

Rated current	: 20.6 A	Moment of inertia (J)	: 0.1305 kgm²
LRC	: 8.4 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 7.37 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1477 rpm	Design	: B

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