DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 IEEE 841 - Nema Premium Efficiency
Product code	: 11432095

Frame	: 254/6T	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	: 122 kg
Protection degree	: IP56	Moment of inertia (J)	: 0.0647 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		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		23.3 A	28.6 A	27.2 A	26.0 A	20.8 A	20.0 A	19.5 A
L. R. Amperes		142 A	146 A	155 A	159 A	146 A	154 A	158 A
LRC		6.1 Code G	5.1 Code E	5.7 Code F	6.1 Code G	7.0 Code H	7.7 Code J	8.1 Code J
No load current		6.50 A	6.20 A	6.60 A	6.90 A	6.20 A	6.60 A	6.90 A
Rated speed		3520 rpm	2870 rpm	2905 rpm	2915 rpm	2925 rpm	2935 rpm	2940 rpm
Slip		2.22 %	4.33 %	3.17 %	2.83 %	2.50 %	2.17 %	2.00 %
Rated torque		4.12 kgfm	5.06 kgfm	5.00 kgfm	4.98 kgfm	3.72 kgfm	3.71 kgfm	3.70 kgfm
Locked rotor torque		220 %	160 %	180 %	200 %	220 %	240 %	270 %
Breakdown torque		250 %	200 %	210 %	230 %	260 %	280 %	310 %
Service factor		1.25	1.00	1.00	1.00	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Noise level		72 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)
Locked rotor time		19 s (hot) 34 s (cold)	8 s (hot) 14 s (cold)	10 s (hot) 18 s (cold)	12 s (hot) 22 s (cold)	16 s (hot) 29 s (cold)	16 s (hot) 29 s (cold)	16 s (hot) 29 s (cold)
Efficiency (%)	50%	91.0	91.0	91.0	91.0	90.6	90.4	89.8
	75%	91.7	90.2	91.0	91.0	90.9	91.2	91.1
	100%	91.0	88.5	89.5	90.2	91.2	91.2	91.2
Power Factor	Start	0.44	0.44	0.44	0.44	0.44	0.44	0.44
	50%	0.80	0.85	0.83	0.82	0.78	0.75	0.73
	75%	0.87	0.89	0.88	0.87	0.86	0.85	0.83
	100%	0.89	0.9	0.89	0.89	0.88	0.87	0.86
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)		9.05	11.89	10.73	9.94	8.83	8.83	8.83
P2 (0,5;1,0)		7.00	9.19	8.30	7.69	6.83	6.83	6.83
P3 (0,25;1,0)		6.79	8.92	8.05	7.46	6.62	6.62	6.62
P4 (0,9;0,5)		4.58	6.01	5.43	5.03	4.46	4.46	4.46
P5 (0,5;0,5)		2.59	3.40	3.07	2.84	2.52	2.52	2.52
P6 (0,5;0,25)		1.57	2.06	1.86	1.73	1.53	1.53	1.53
P7 (0,25;0,25)		0.94	1.24	1.12	1.04	0.92	0.92	0.92

	Drive end	Non drive end
Bearing type	6309-C3	6209-C3
Lubrication interval	19000 h	20000 h
Lubricant amount	13 g	9 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 117 kgf
Max. compression : 239 kgf

Notes:

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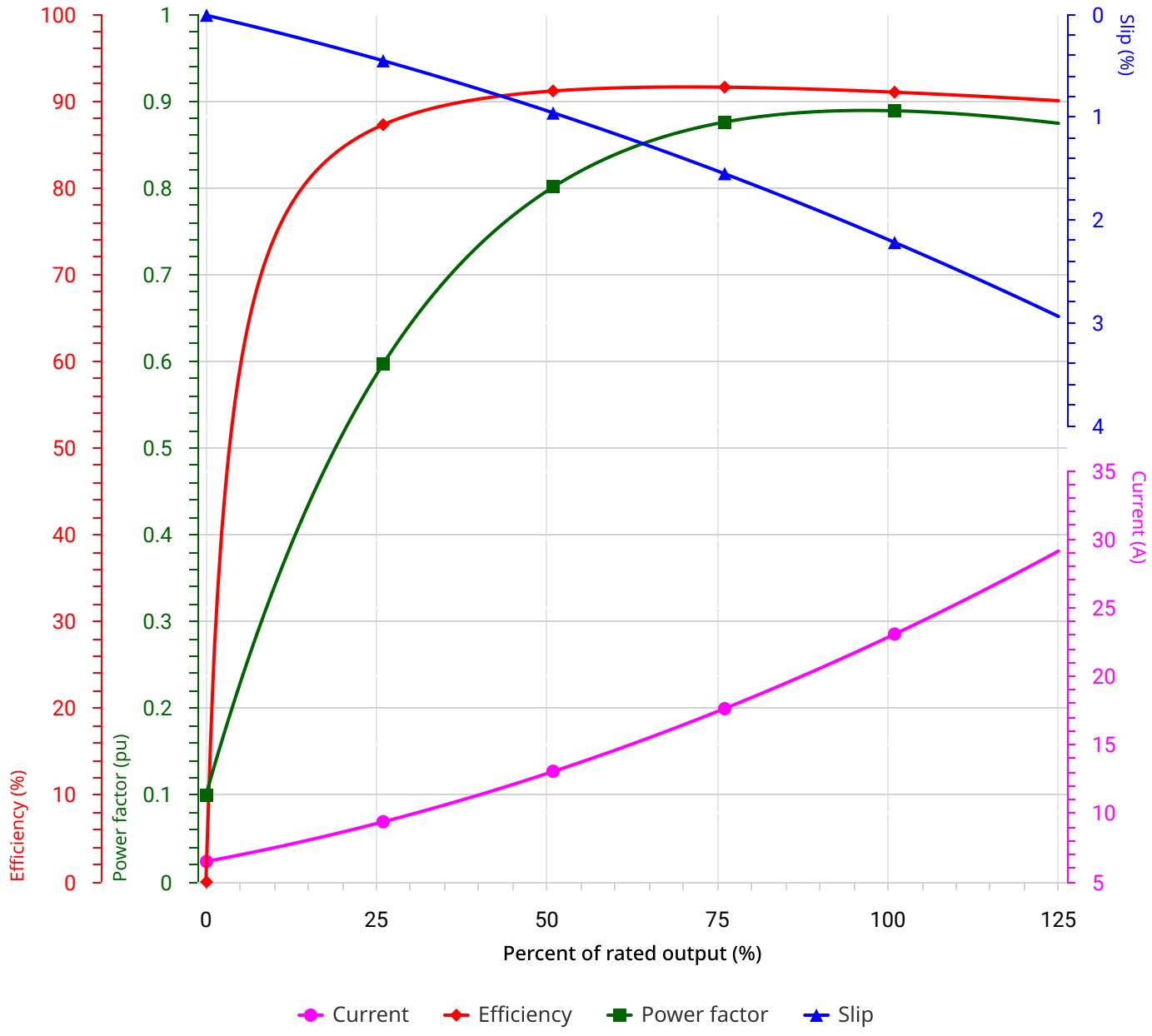
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LOAD PERFORMANCE CURVE

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Customer	:
Product line	: W22 IEEE 841 - Nema Premium Efficiency
Product code	: 11432095



Performance	: 20 HP (15 kW) 460V 60Hz 2P 254/6T

Rated current	: 23.3 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 6.1 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 4.12 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3520 rpm	Design	: B

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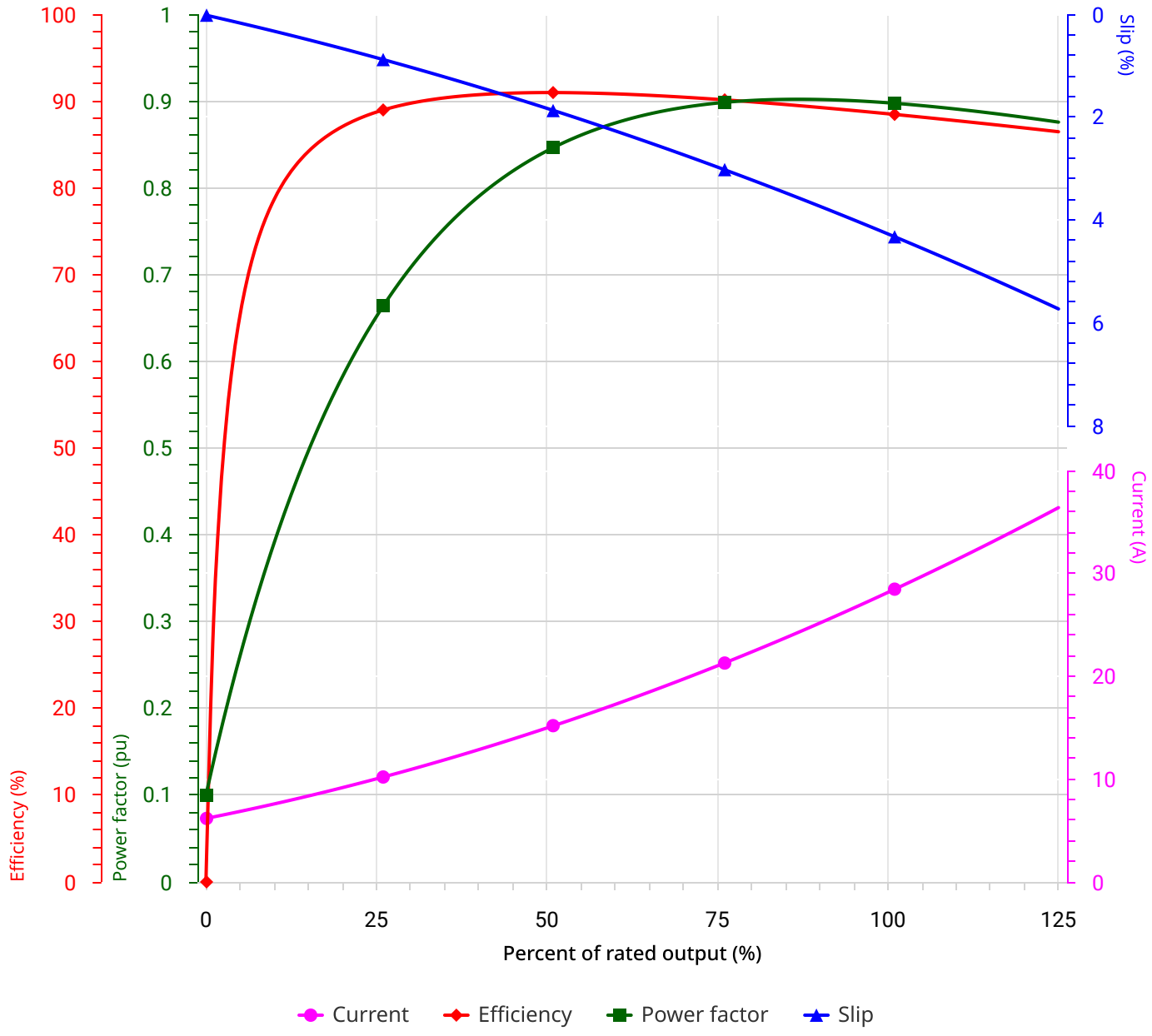
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 20 HP (15 kW) 380V 50Hz 2P 254/6T

Rated current	: 28.6 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 5.1 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 5.06 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 2870 rpm	Design	: B

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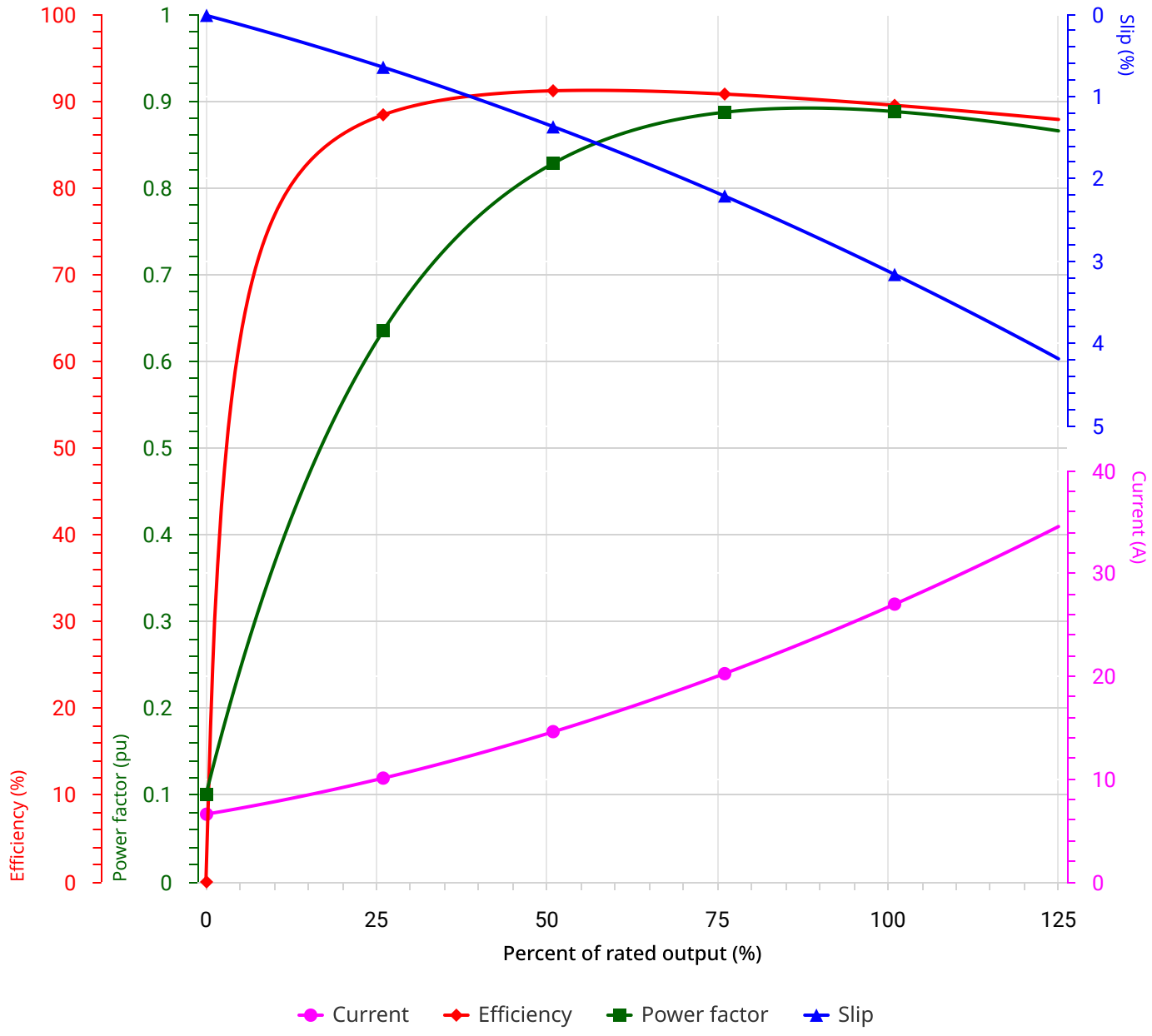
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Performance	: 20 HP (15 kW) 400V 50Hz 2P 254/6T

Rated current	: 27.2 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 5.7 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 5.00 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: B

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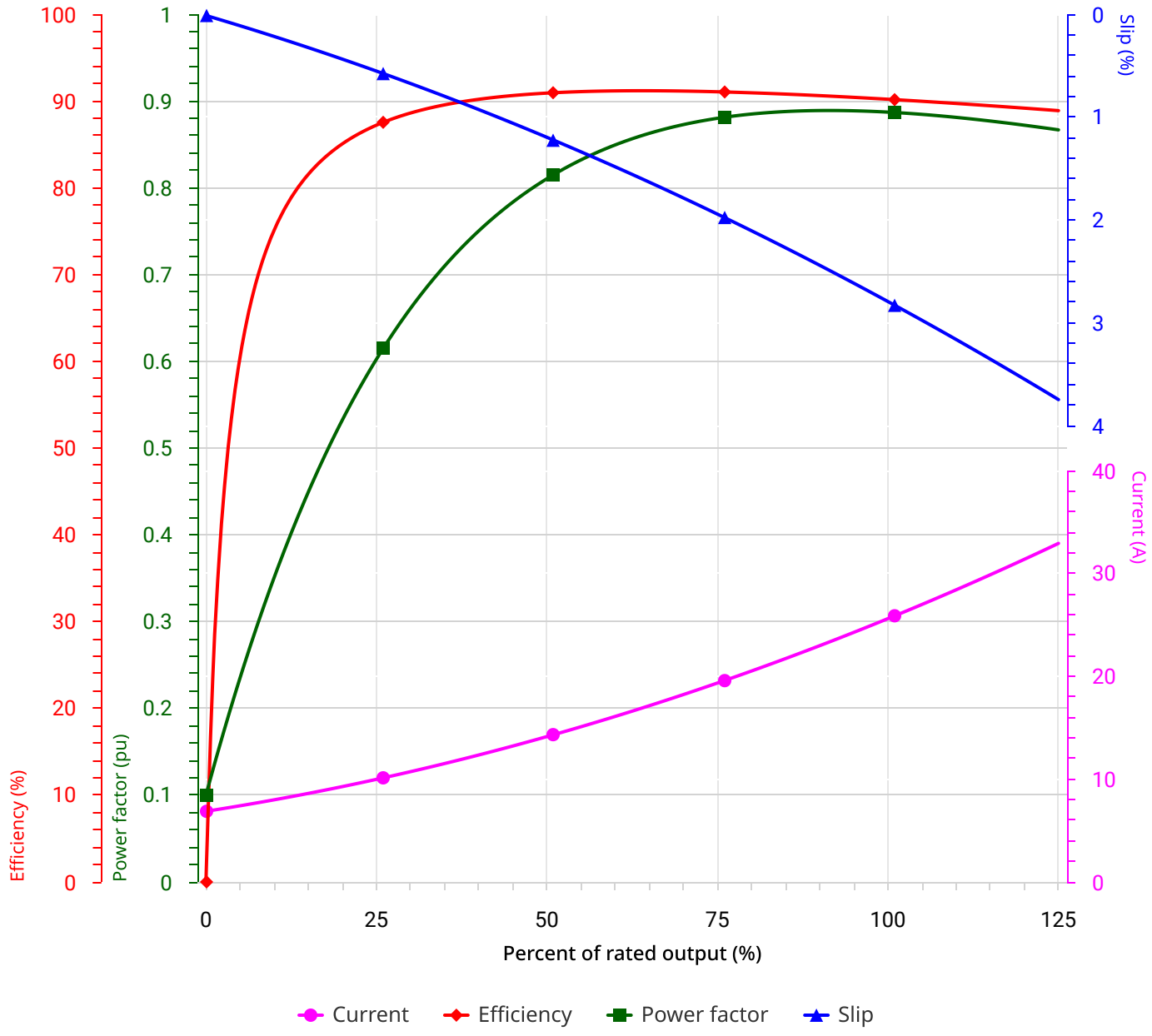
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Performance	: 20 HP (15 kW) 415V 50Hz 2P 254/6T

Rated current	: 26.0 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 6.1 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 4.98 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: B

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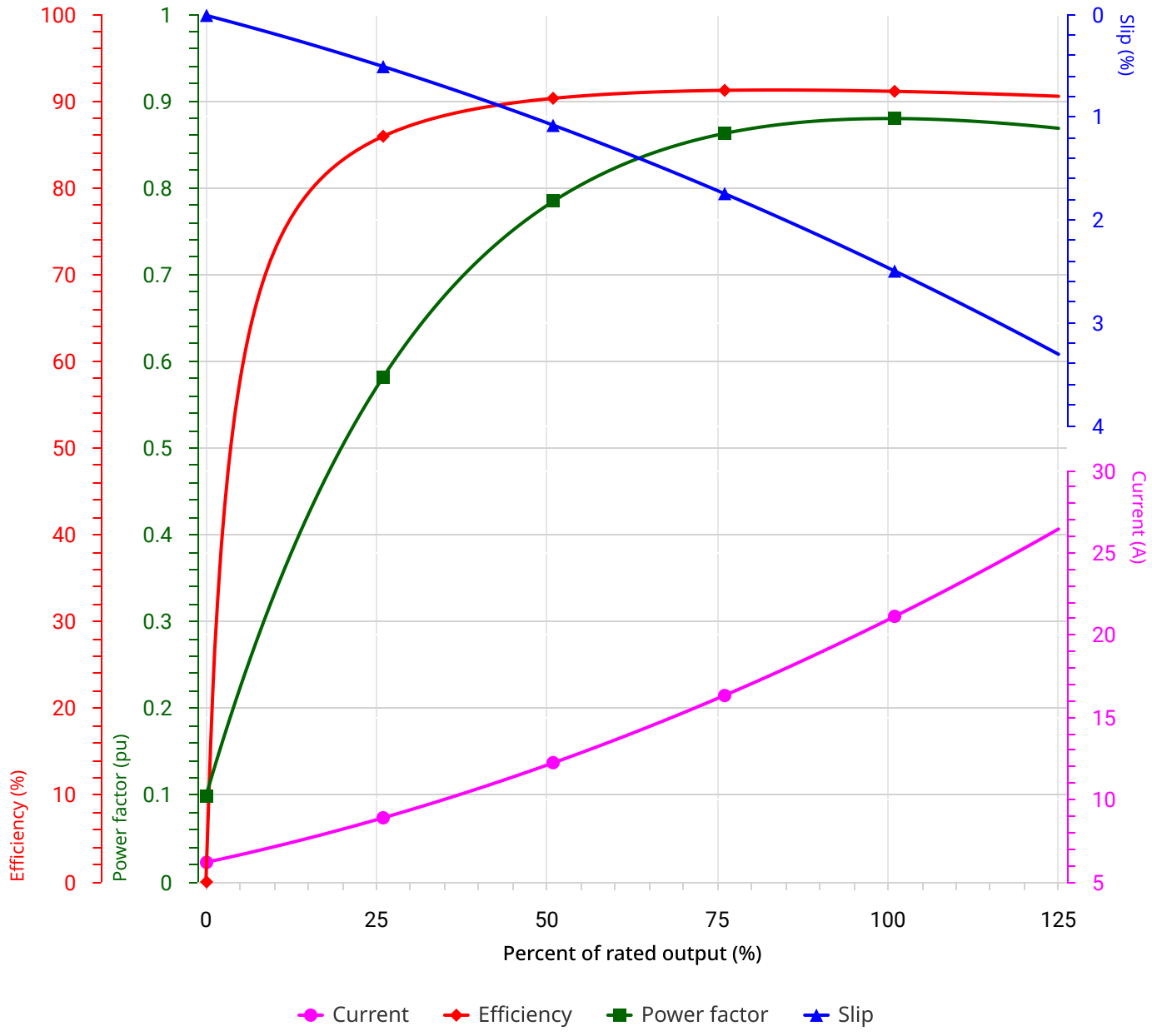
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Performance	: 15 HP (11 kW) 380V 50Hz 2P 254/6T

Rated current	: 20.8 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 7.0 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 3.72 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2925 rpm	Design	: B

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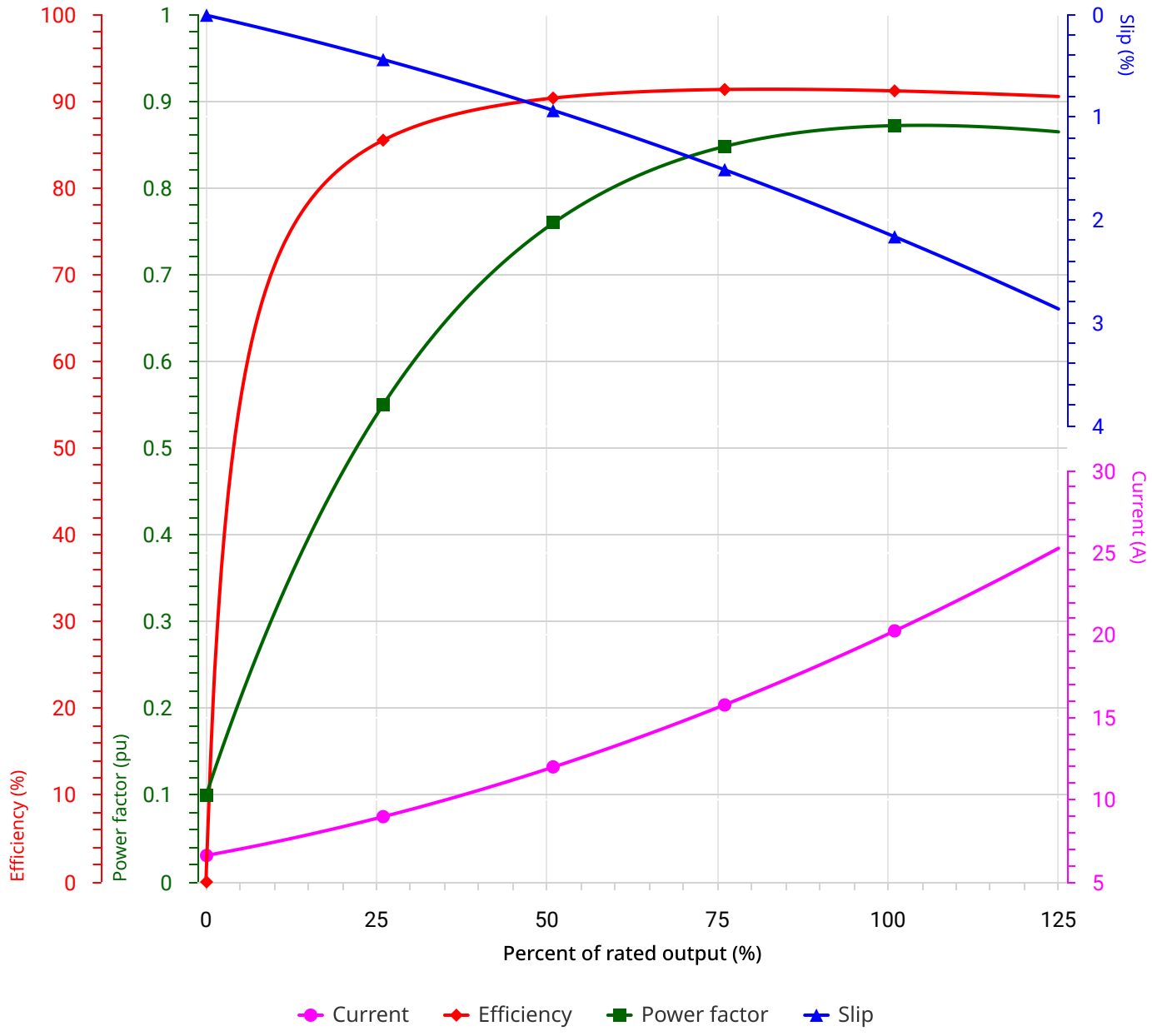
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Performance	: 15 HP (11 kW) 400V 50Hz 2P 254/6T

Rated current	: 20.0 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 7.7 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 3.71 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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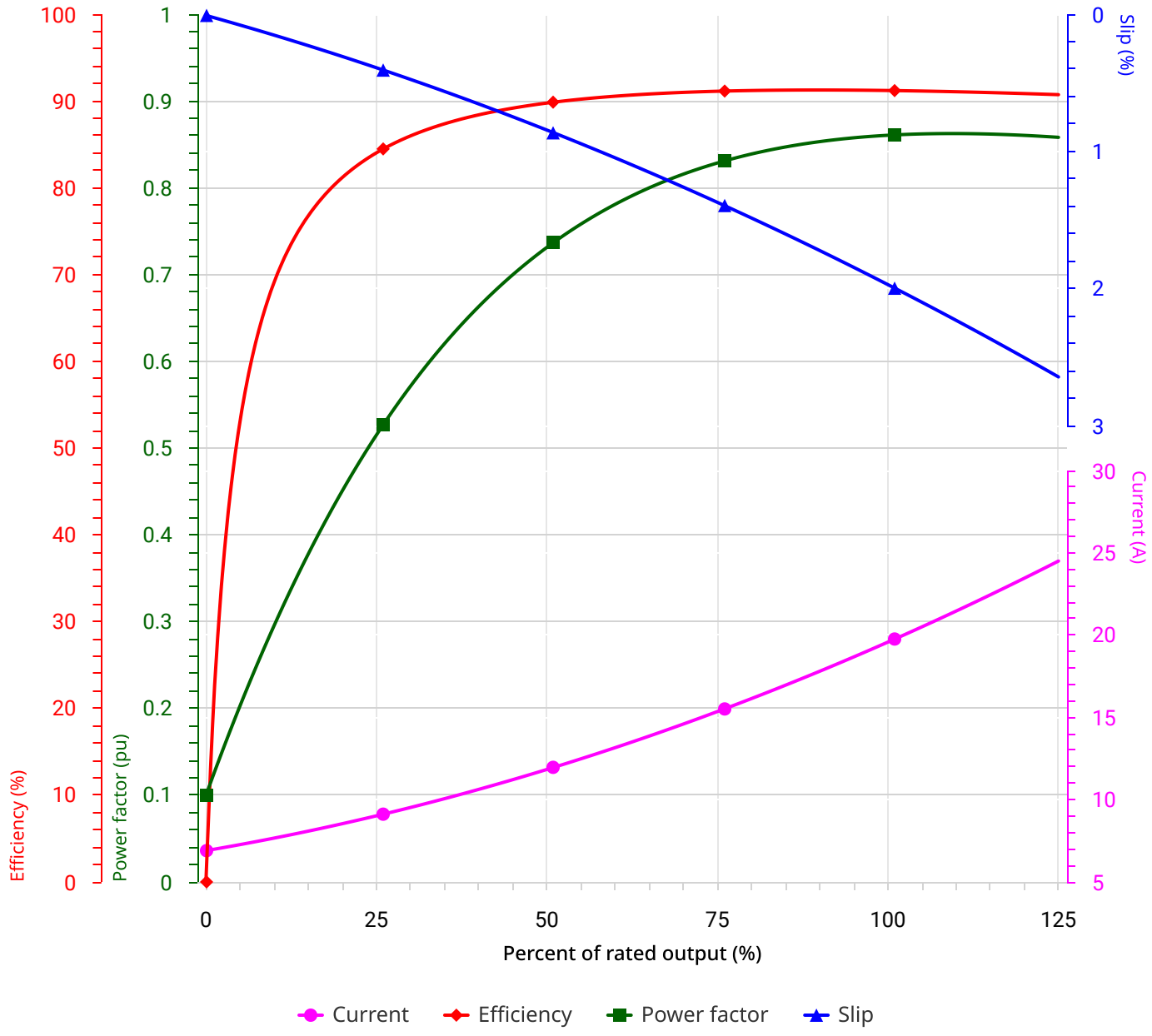
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Performance	: 15 HP (11 kW) 415V 50Hz 2P 254/6T

Rated current	: 19.5 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 8.1 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 3.70 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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