DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12375663

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	: 107 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.053 kgm²
Design	: B		

Output		15 HP (11	15 HP (11	10 HP (7.5	10 HP (7.5	10 HP (7.5	15 HP (11	15 HP (11	15 HP (11
Poles		2	2	2	2	2	2	2	2
Frequency		60 Hz	60 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	208 V	380 V	400 V	415 V	380 V	400 V	415 V
Rated current		34.5/17.2 A	38.0 A	14.5 A	14.0 A	13.7 A	21.0 A	19.9 A	19.3 A
L. R. Amperes			255 A	109 A	117 A	116 A	107 A	112 A	118 A
LRC		231/116 A	6.7 Code G	7.5 Code J	8.3 Code K	8.5 Code K	5.1 Code E	5.6 Code F	6.1 Code G
No load current		6.7 Code G	8.62 A	4.90 A	5.30 A	5.50 A	4.90 A	5.30 A	5.50 A
Rated speed			3535 rpm	1.67 %	2955 rpm	2960 rpm	3.33 %	2.83 %	2925 rpm
Slip		10.0/5.00 A	1.81 %	2.46 kgfm	1.50 %	1.33 %	3.75 kgfm	3.73 kgfm	2.50 %
Rated torque			3.00 kgfm	200 %	2.46 kgfm	2.45 kgfm	160 %	180 %	3.72 kgfm
Locked rotor torque		3535 rpm	200 %	310 %	230 %	250 %	200 %	230 %	200 %
Breakdown torque		1.81 %	260 %	1.25	350 %	380 %	1.00	1.00	240 %
Service factor		3.08 kgfm	1.25	80 K	1.25	1.25	105 K	95 K	1.15
Temperature rise		200 %	80 K	67 dB(A)	80 K	80 K	67 dB(A)	67 dB(A)	95 K
Noise level		260 %	72.0 dB(A)	28 s (hot) 50 s (cold)	67 dB(A)	67 dB(A)	14 s (hot) 25 s (cold)	15 s (hot) 27 s (cold)	67 dB(A)
Locked rotor time		1.25	20 s (hot) 36 s (cold)		25 s (hot) 45 s (cold)	23 s (hot) 41 s (cold)			15 s (hot) 27 s (cold)
		80 K							
		72 dB(A)							
		20 s (hot) 36 s (cold)							
Efficiency (%)	50%	89.5	89.5	90.3	90.1	89.9	89.5	90.2	90.2
	75%	91.0	91.0	90.5	90.7	90.8	90.2	90.2	91.0
	100%	91.0	91.0	90.5	90.7	90.8	88.5	89.5	90.2
Power Factor	Start	0.44	0.44	0.51	0.52	0.52	0.44	0.44	0.44
	50%	0.77	0.77	0.73	0.69	0.67	0.82	0.80	0.77
	75%	0.85	0.85	0.83	0.80	0.78	0.88	0.87	0.85
	100%	0.88	0.88	0.87	0.85	0.84	0.9	0.89	0.88
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		8.51	8.51	9.26	9.28	9.35	7.87	8.45	8.40
P2 (0,5;1,0)		6.30	6.30	6.86	6.87	6.93	5.83	6.26	6.22
P3 (0,25;1,0)		5.85	5.85	6.37	6.38	6.43	5.41	5.81	5.77
P4 (0,9;0,5)		5.17	5.17	5.62	5.63	5.68	4.78	5.13	5.10
P5 (0,5;0,5)		2.97	2.97	3.23	3.23	3.26	2.74	2.95	2.93
P6 (0,5;0,25)		2.20	2.20	2.39	2.40	2.42	2.03	2.18	2.17
P7 (0,25;0,25)		1.39	1.39	1.52	1.52	1.53	1.29	1.38	1.37

	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 : 91 kgf
Max. compression : 198 kgf

Notes:

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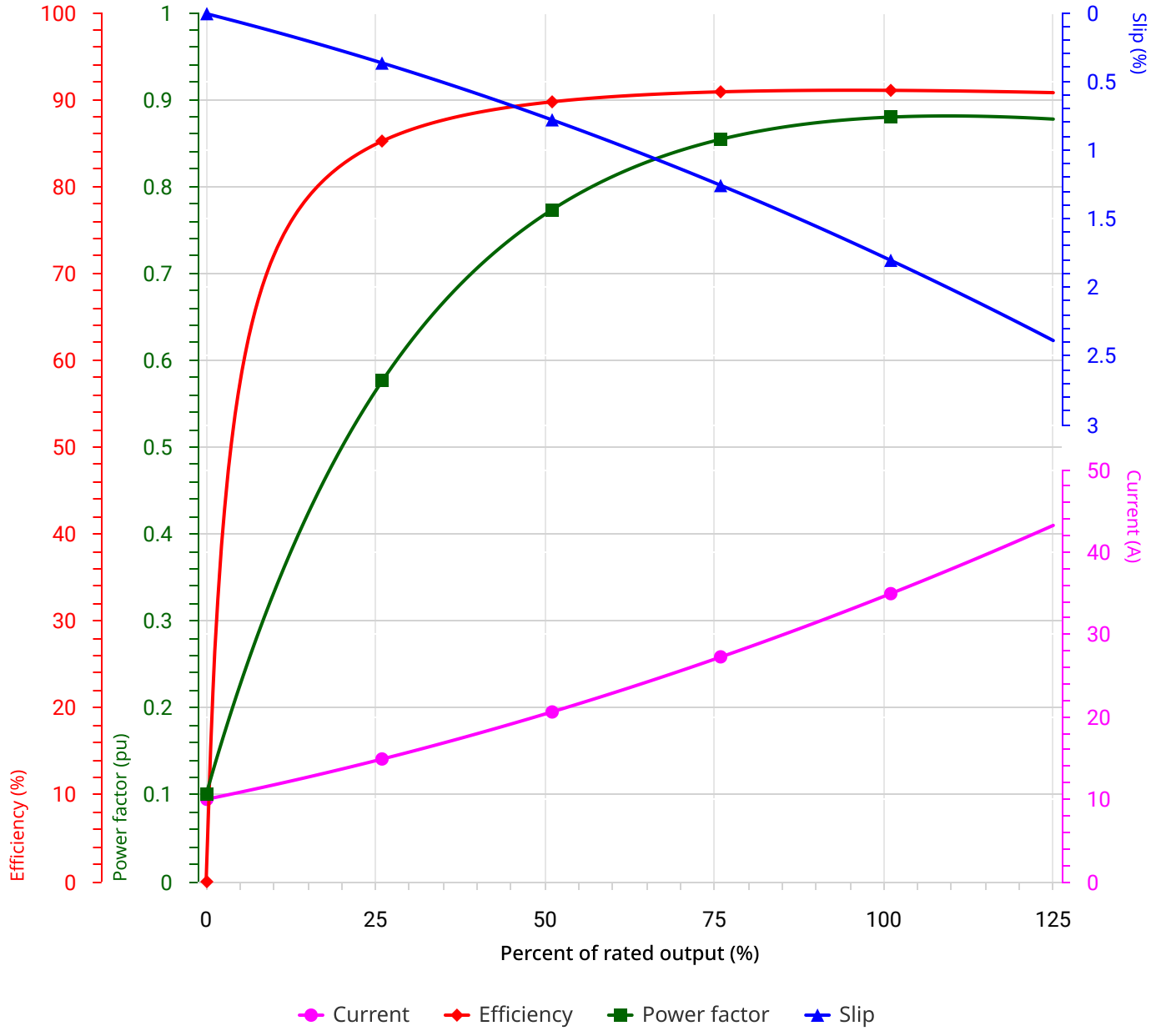
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12375663



Performance	: 15 HP (11 kW) 230/460V 60Hz 2P 254/6T

Rated current	: 34.5/17.2 A	Moment of inertia (J)	: 0.053 kgm²
LRC	: 6.7 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3535 rpm	Design	: B

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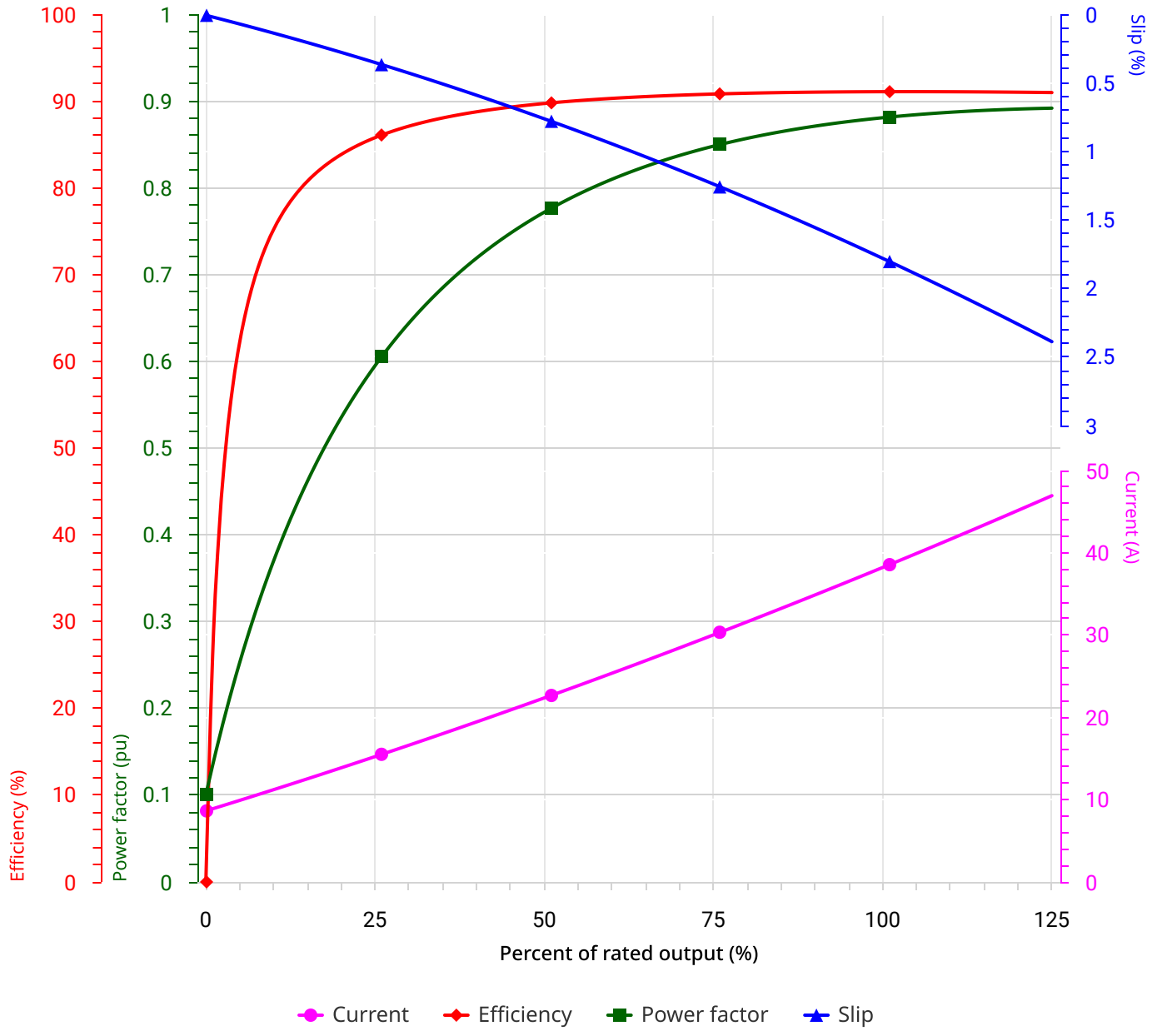
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Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12375663



Performance	: 15 HP (11 kW) 208V 60Hz 2P 254/6T

Rated current	: 38.0 A	Moment of inertia (J)	: 0.053 kgm²
LRC	: 6.7 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 3.00 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3535 rpm	Design	: 00002

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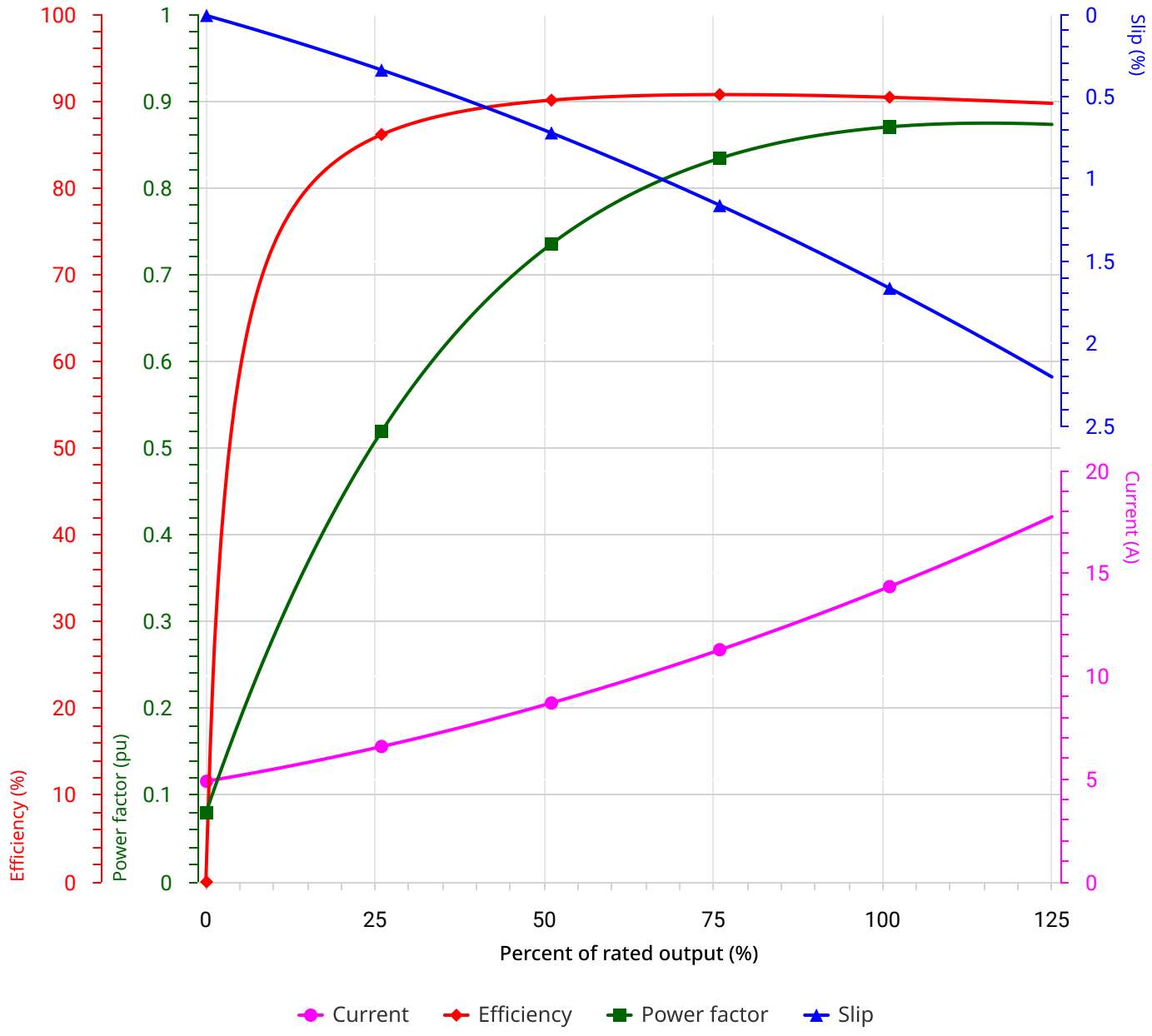
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 12375663



Performance	: 10 HP (7.5 kW) 380V 50Hz 2P 254/6T

Rated current	: 14.5 A	Moment of inertia (J)	: 0.053 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.46 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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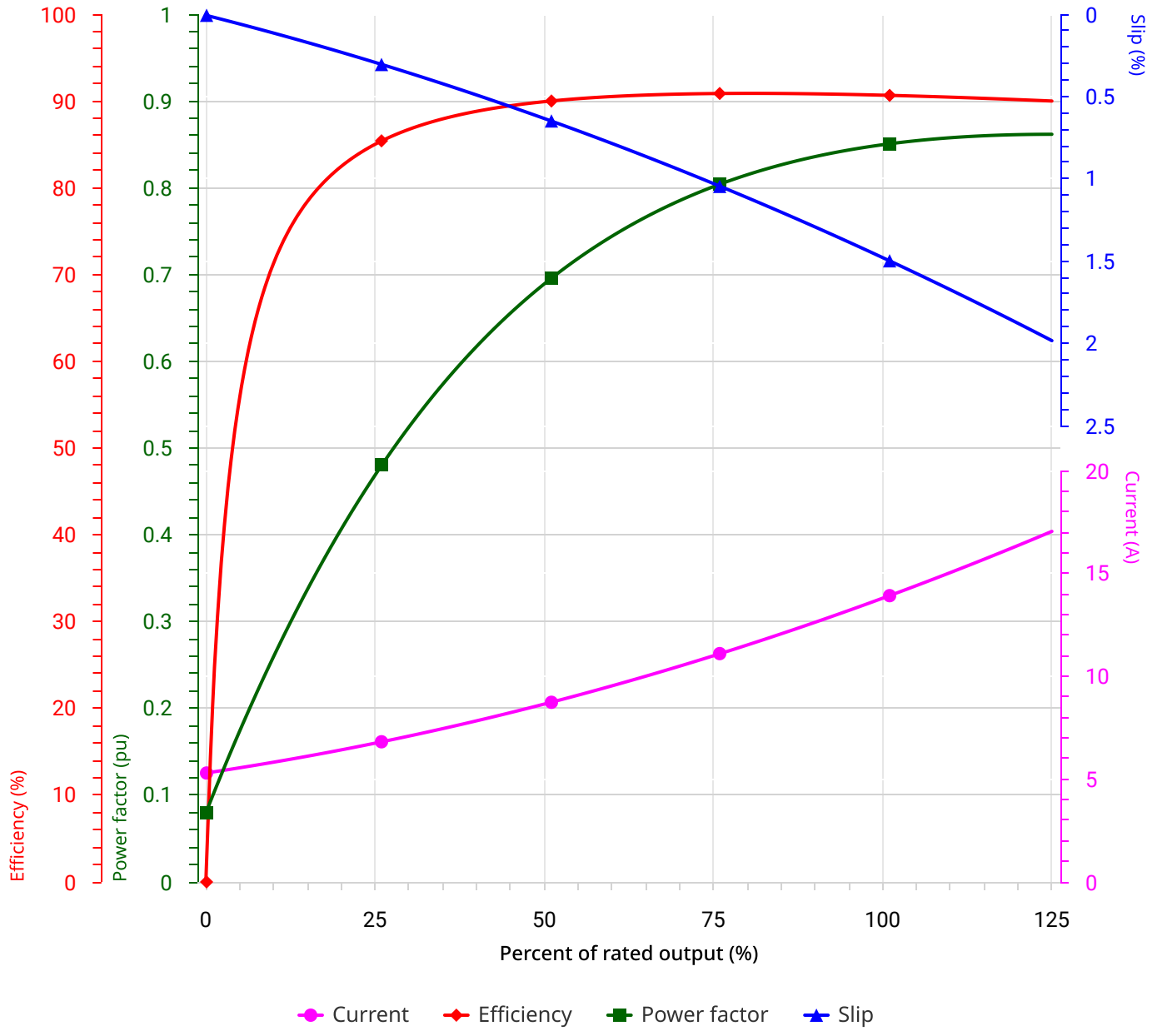
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12375663



Performance	: 10 HP (7.5 kW) 400V 50Hz 2P 254/6T

Rated current	: 14.0 A	Moment of inertia (J)	: 0.053 kgm²
LRC	: 8.3 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 2.46 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

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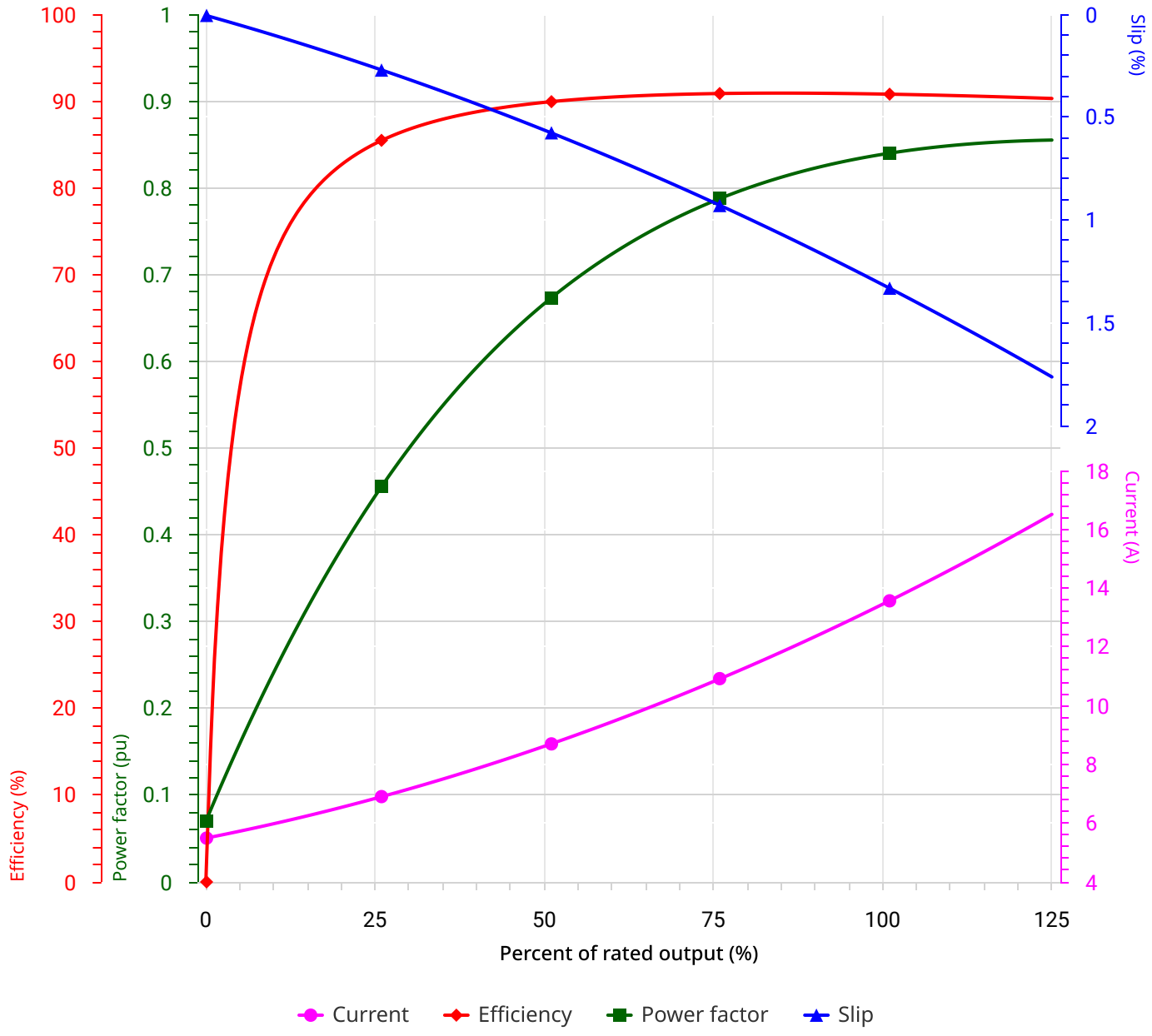
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 10 HP (7.5 kW) 415V 50Hz 2P 254/6T

Rated current	: 13.7 A	Moment of inertia (J)	: 0.053 kgm²
LRC	: 8.5 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 2.45 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

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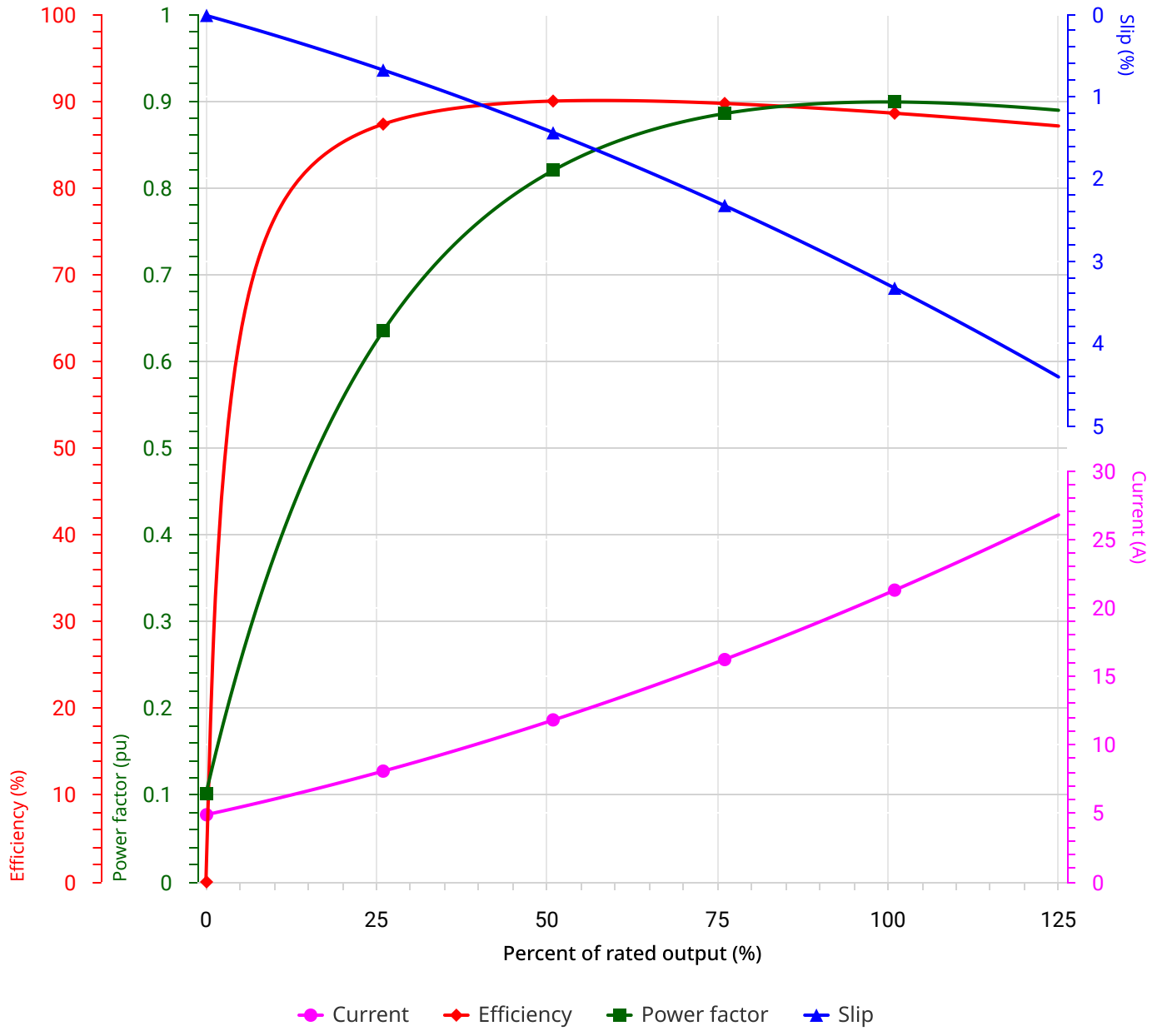
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Performance	: 15 HP (11 kW) 380V 50Hz 2P 254/6T

Rated current	: 21.0 A	Moment of inertia (J)	: 0.053 kgm²
LRC	: 5.1 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 3.75 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2900 rpm	Design	: B

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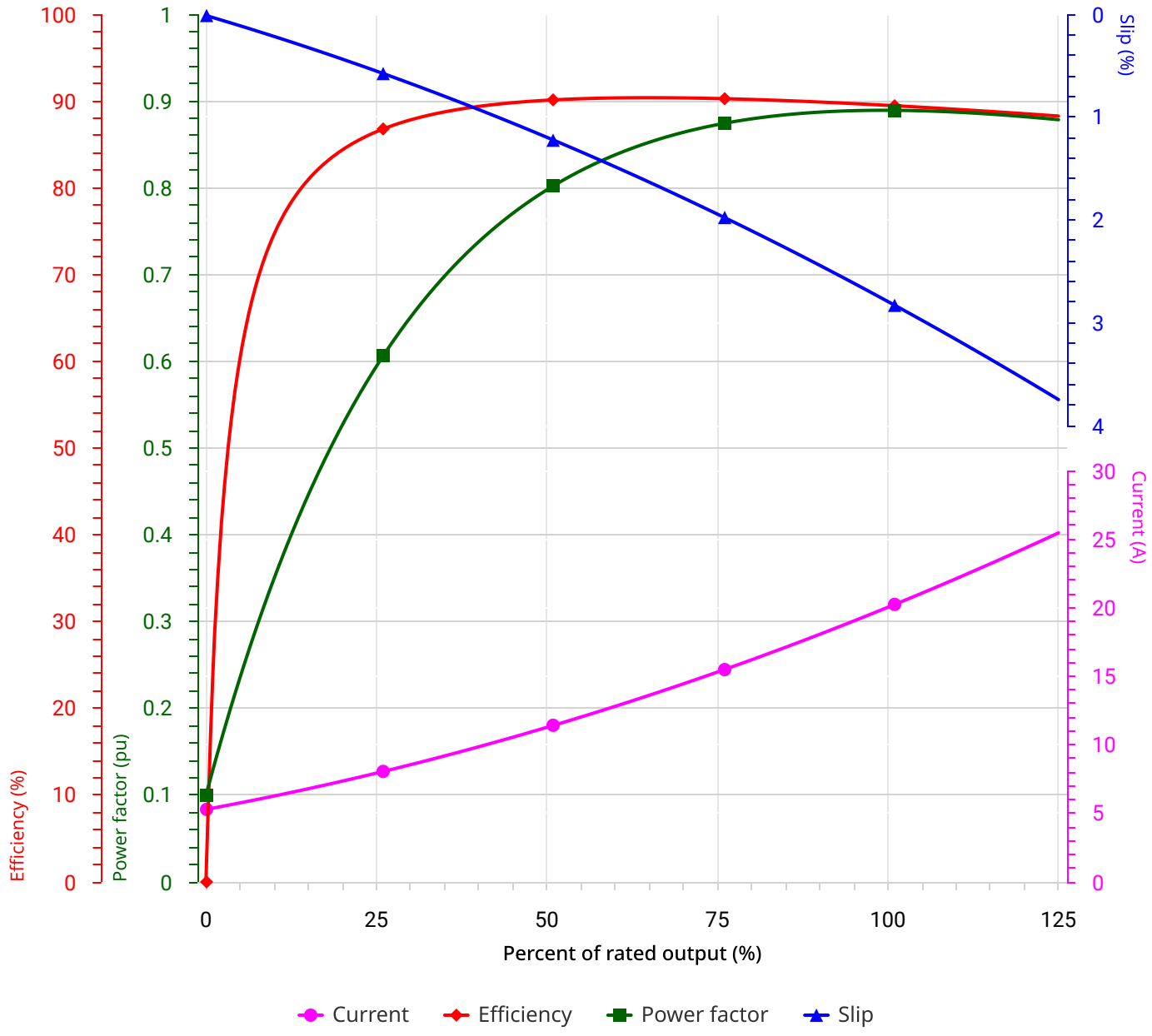
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Performance	: 15 HP (11 kW) 400V 50Hz 2P 254/6T

Rated current	: 19.9 A	Moment of inertia (J)	: 0.053 kgm²
LRC	: 5.6 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 3.73 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 230 %	Temperature rise	: 95 K
Rated speed	: 2915 rpm	Design	: B

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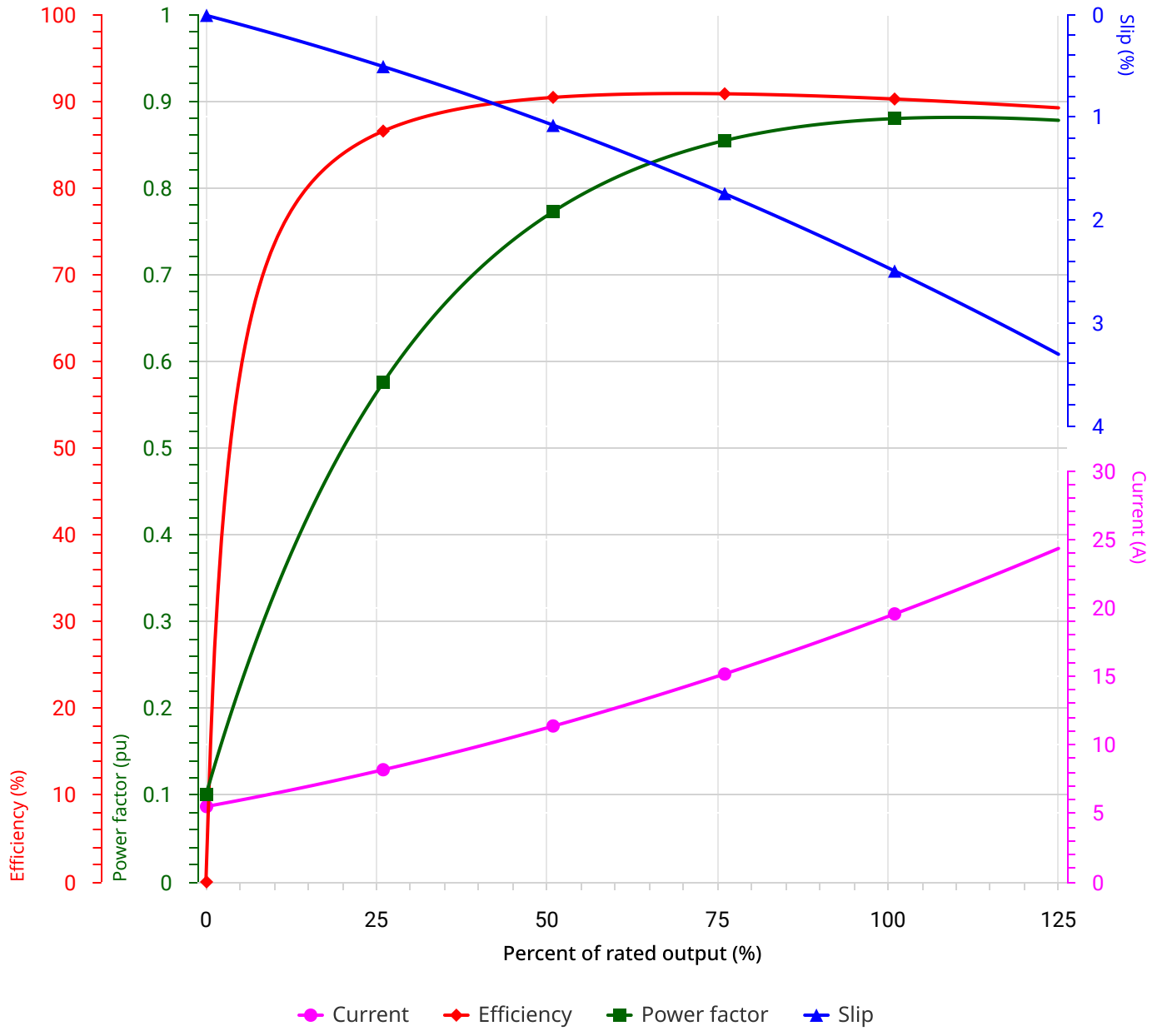
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Performance	: 15 HP (11 kW) 415V 50Hz 2P 254/6T

Rated current	: 19.3 A	Moment of inertia (J)	: 0.053 kgm²
LRC	: 6.1 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 3.72 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 95 K
Rated speed	: 2925 rpm	Design	: B

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