DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12448181

Frame	: 324/6TS	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	: 248 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.2063 kgm²
Design	: B		

Output		40 HP (30	40 HP (30	30 HP (22	30 HP (22	30 HP (22	40 HP (30	40 HP (30	40 HP (30
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		95.9/47.9 A	101 A	42.4 A	41.3 A	41.8 A	57.6 A	54.9 A	53.6 A
L. R. Amperes			638 A	297 A	310 A	334 A	288 A	302 A	321 A
LRC		604/302 A	6.3 Code G	7.0 Code H	7.5 Code J	8.0 Code K	5.0 Code E	5.5 Code F	6.0 Code G
No load current		6.3 Code G	26.7 A	14.4 A	16.5 A	18.2 A	14.4 A	16.5 A	18.2 A
Rated speed			3560 rpm	2965 rpm	2970 rpm	2970 rpm	2940 rpm	2950 rpm	2955 rpm
Slip		31.0/15.5 A	1.11 %	1.17 %	1.00 %	1.00 %	2.00 %	1.67 %	1.50 %
Rated torque			8.00 kgfm	7.34 kgfm	7.33 kgfm	7.33 kgfm	9.87 kgfm	9.84 kgfm	9.82 kgfm
Locked rotor torque		3560 rpm	225 %	240 %	270 %	290 %	180 %	200 %	210 %
Breakdown torque		1.11 %	250 %	270 %	290 %	310 %	200 %	220 %	240 %
Service factor		8.15 kgfm	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		230 %	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Noise level		250 %	76.0 dB(A)	72 dB(A)	72 dB(A)	72 dB(A)	72 dB(A)	72 dB(A)	72 dB(A)
Locked rotor time		1.25	22 s (hot) 40 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)
		80 K							
		76 dB(A)							
		22 s (hot) 40 s (cold)							
Efficiency (%)	50%	91.7	91.7	90.9	90.3	90.7	91.7	91.7	91.7
	75%	92.4	92.4	91.8	91.7	92.1	91.7	91.7	92.4
	100%	92.4	92.4	92.7	92.7	92.7	91.0	91.7	91.7
Power Factor	Start	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
	50%	0.74	0.74	0.73	0.68	0.63	0.80	0.76	0.73
	75%	0.82	0.82	0.82	0.78	0.75	0.86	0.84	0.82
	100%	0.85	0.85	0.85	0.83	0.79	0.87	0.86	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		7.87	7.87	7.41	7.40	7.21	7.62	7.53	7.51
P2 (0,5;1,0)		5.34	5.34	5.03	5.03	4.90	5.17	5.12	5.10
P3 (0,25;1,0)		4.44	4.44	4.18	4.18	4.07	4.30	4.25	4.24
P4 (0,9;0,5)		5.31	5.31	5.00	5.00	4.87	5.14	5.09	5.07
P5 (0,5;0,5)		2.89	2.89	2.72	2.72	2.65	2.80	2.77	2.76
P6 (0,5;0,25)		2.34	2.34	2.20	2.20	2.14	2.26	2.24	2.23
P7 (0,25;0,25)		1.40	1.40	1.32	1.32	1.28	1.35	1.34	1.33

	Drive end	Non drive end
Bearing type	6312-C3	6212-C3
Lubrication interval	12000 h	15000 h
Lubricant amount	21 g	13 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 169 kgf
Max. compression : 417 kgf

Notes:

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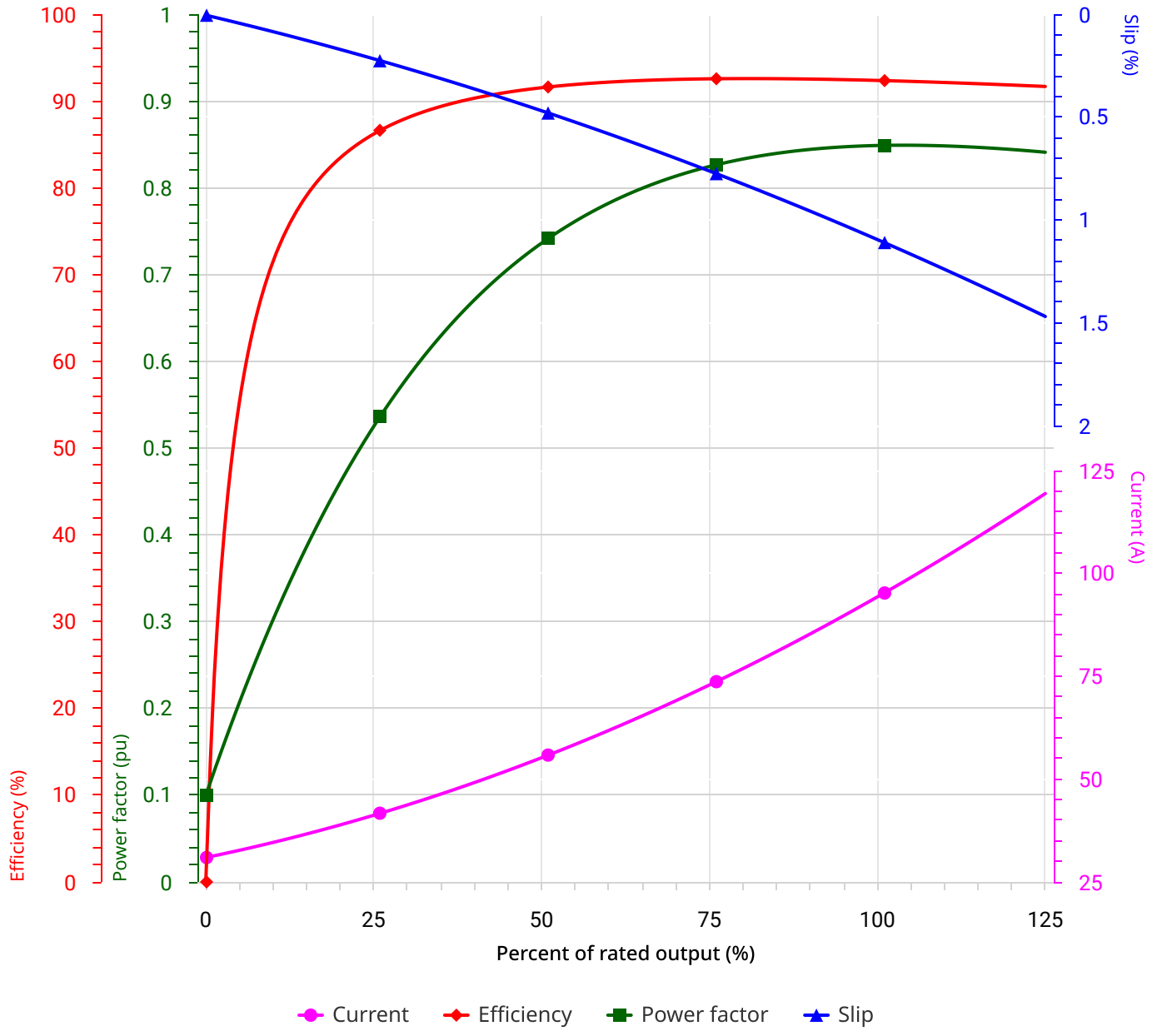
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12448181



Performance	: 40 HP (30 kW) 230/460V 60Hz 2P 324/6TS

Rated current	: 95.9/47.9 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 8.15 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: B

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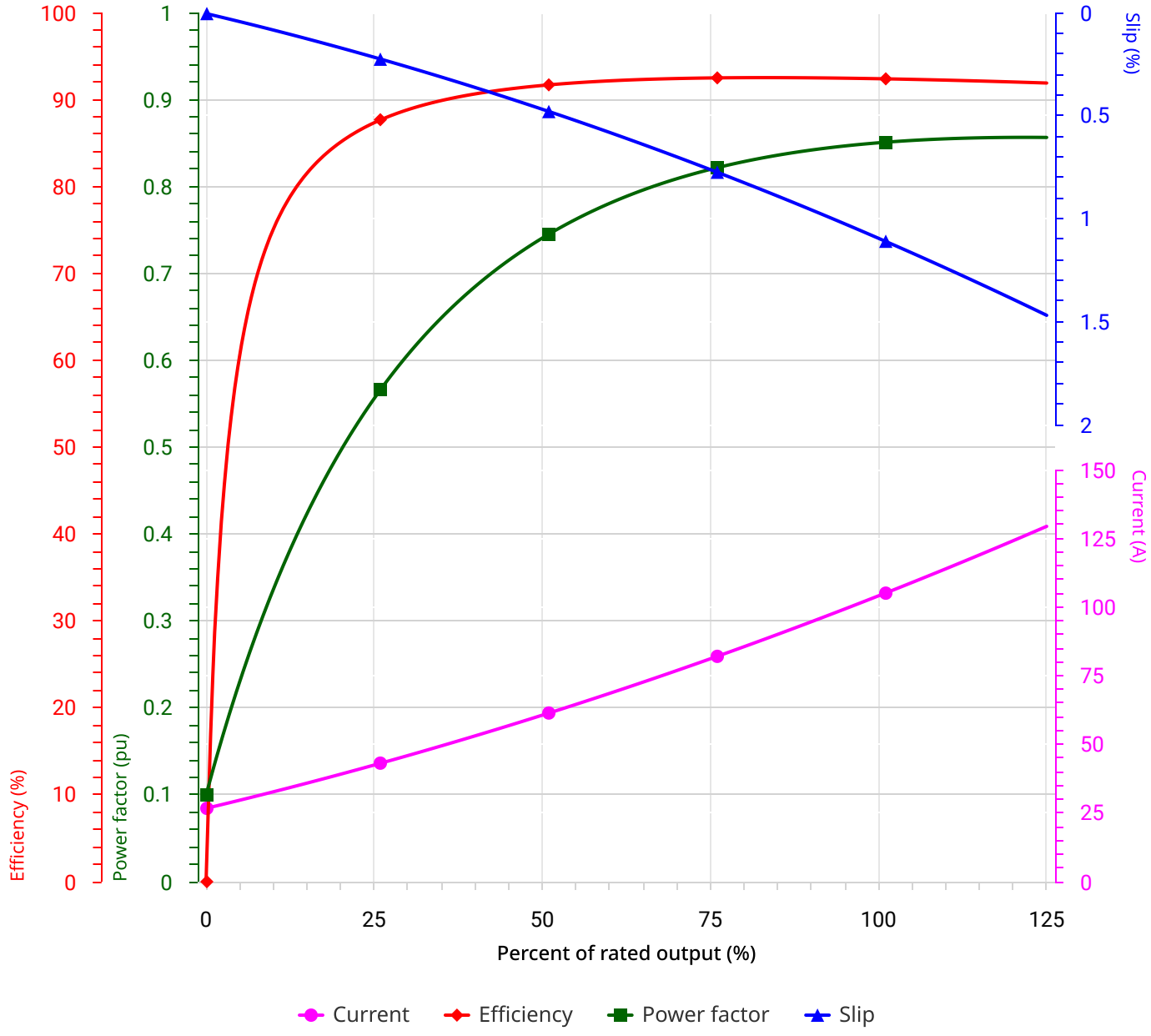
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12448181



Performance	: 40 HP (30 kW) 208V 60Hz 2P 324/6TS

Rated current	: 101 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 8.00 kgfm	Insulation class	: F
Locked rotor torque	: 225 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: 00002

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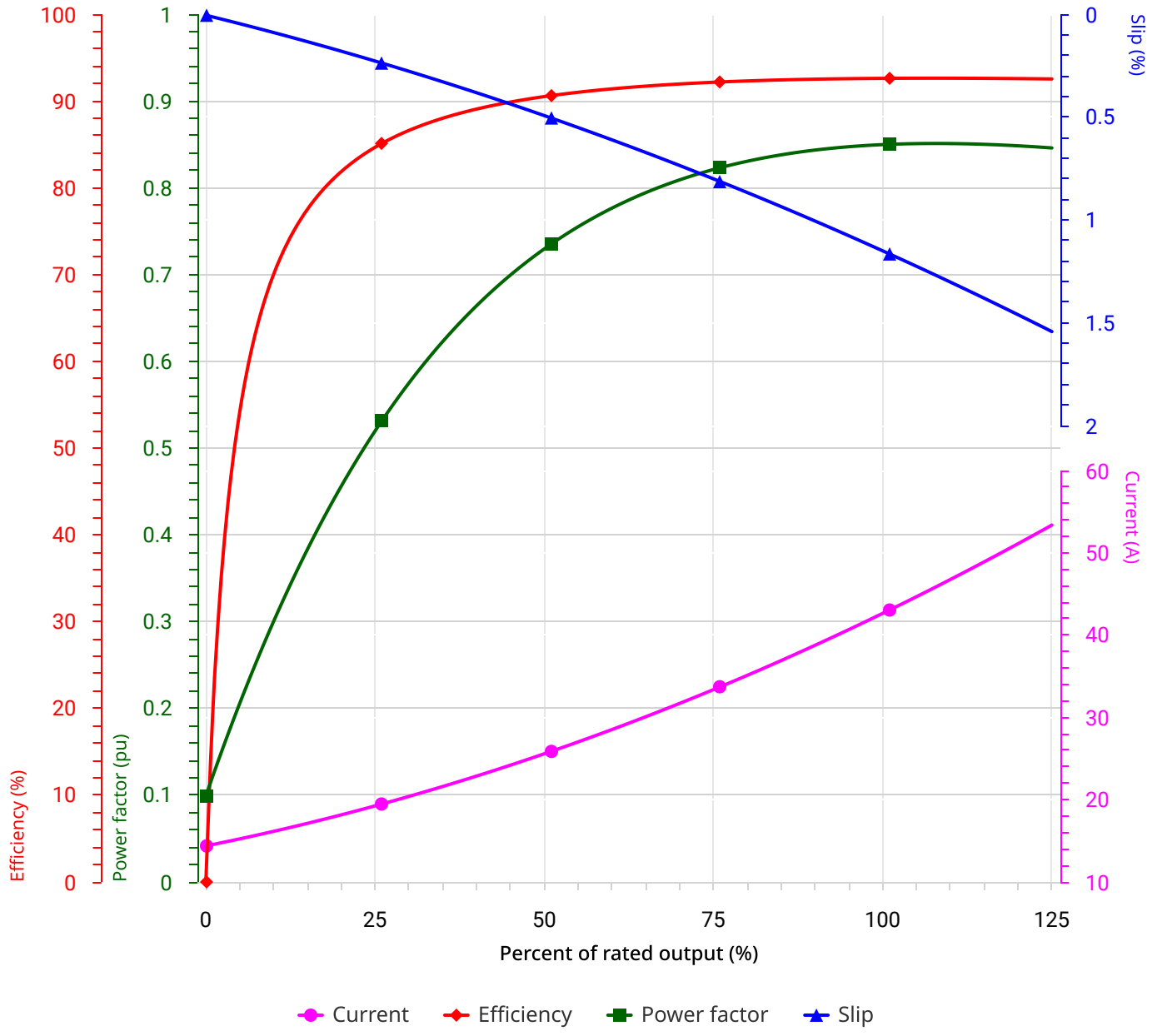
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12448181



Performance	: 30 HP (22 kW) 380V 50Hz 2P 324/6TS

Rated current	: 42.4 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 7.0 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 7.34 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

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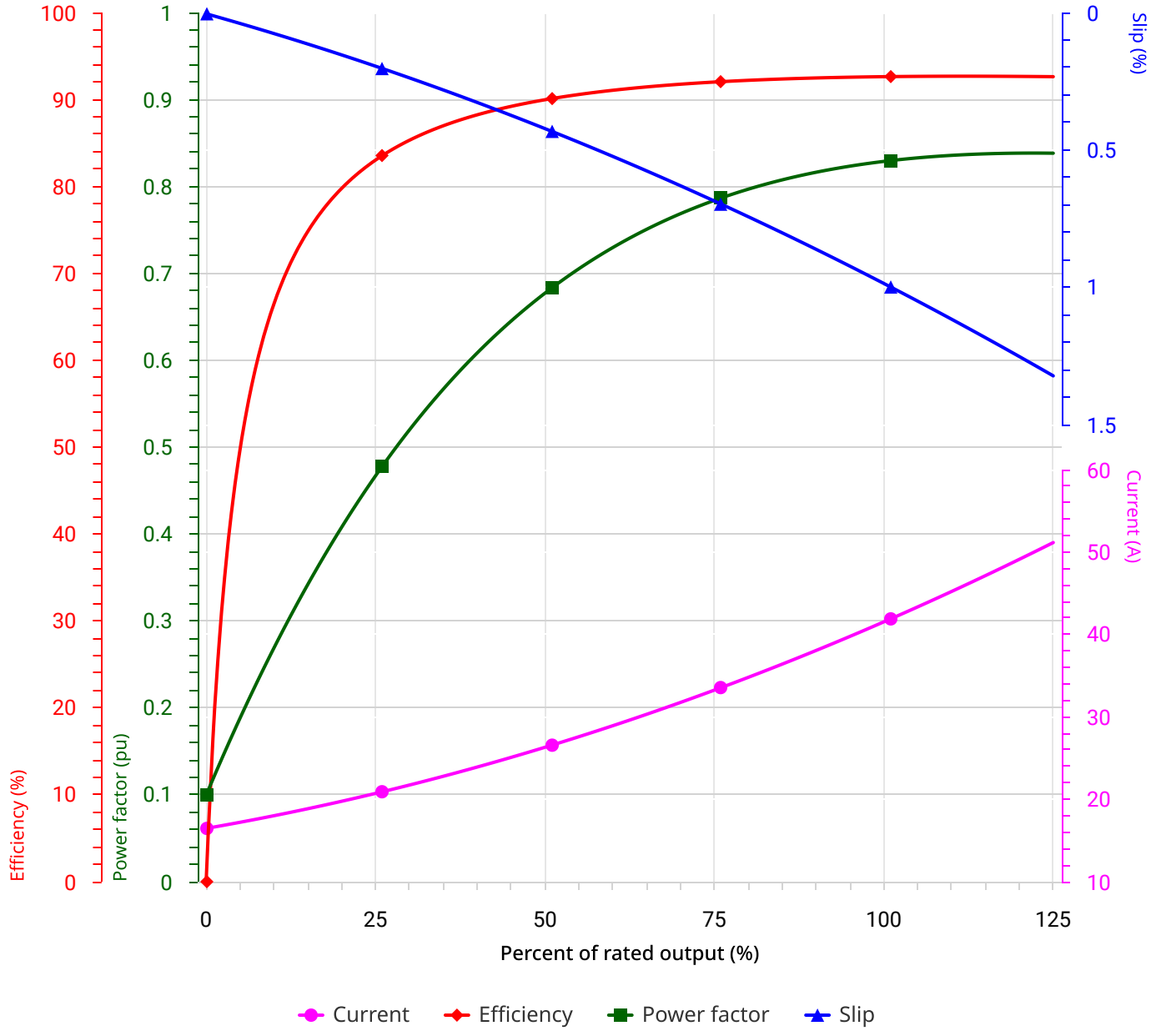
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 30 HP (22 kW) 400V 50Hz 2P 324/6TS

Rated current	: 41.3 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 7.33 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: B

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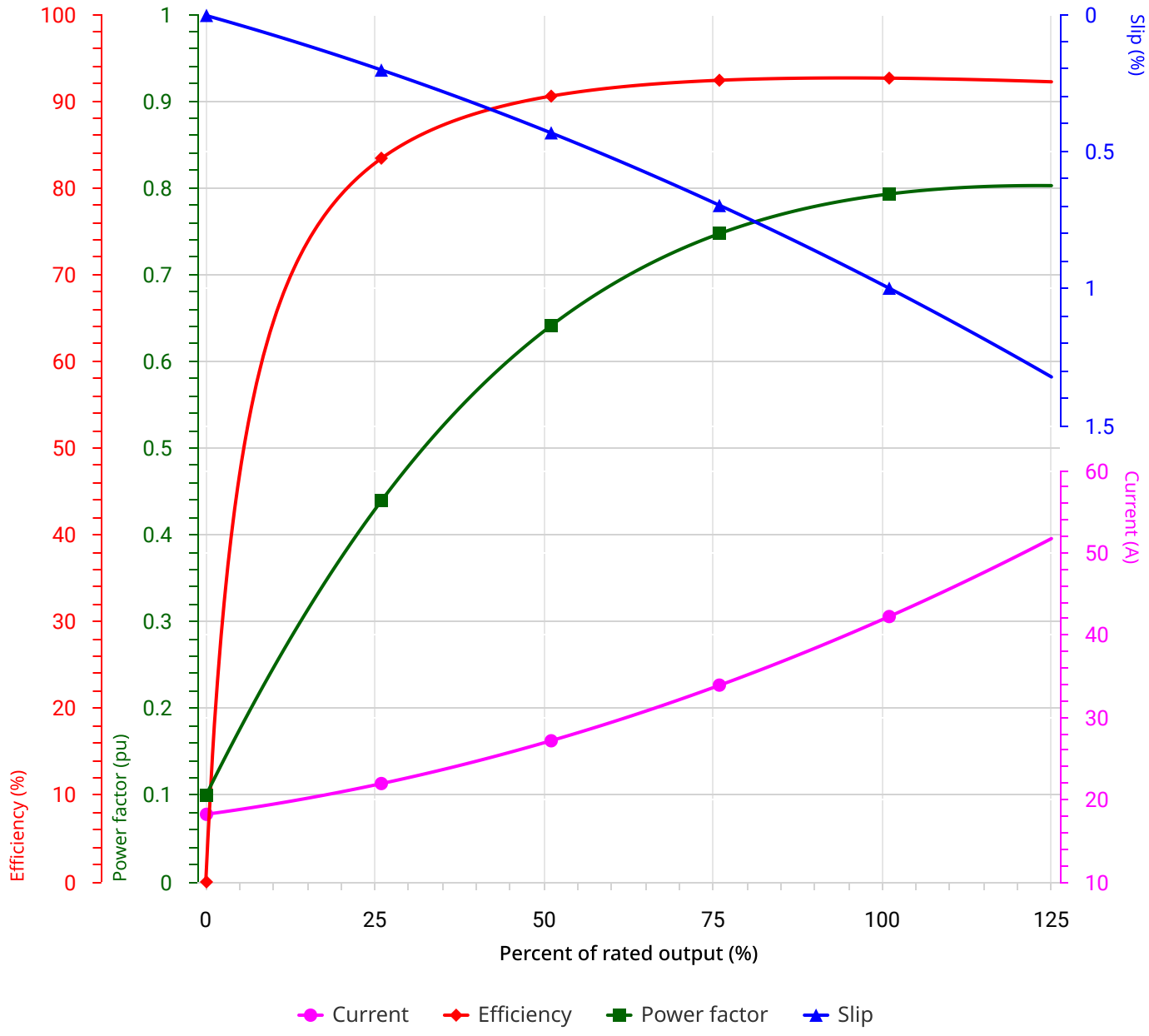
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12448181



Performance	: 30 HP (22 kW) 415V 50Hz 2P 324/6TS

Rated current	: 41.8 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 8.0 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 7.33 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: B

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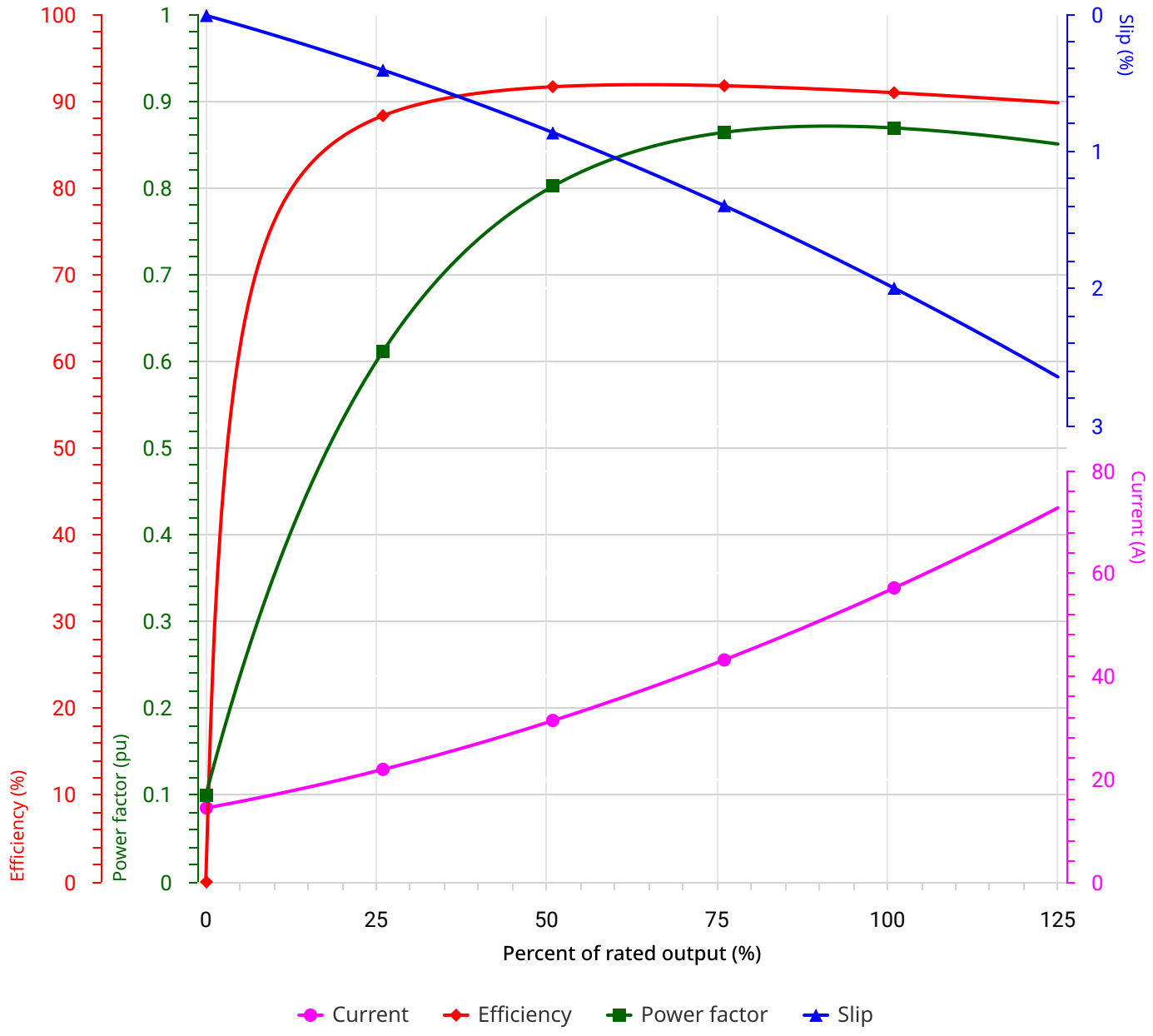
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Performance	: 40 HP (30 kW) 380V 50Hz 2P 324/6TS

Rated current	: 57.6 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 5.0 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 9.87 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2940 rpm	Design	: B

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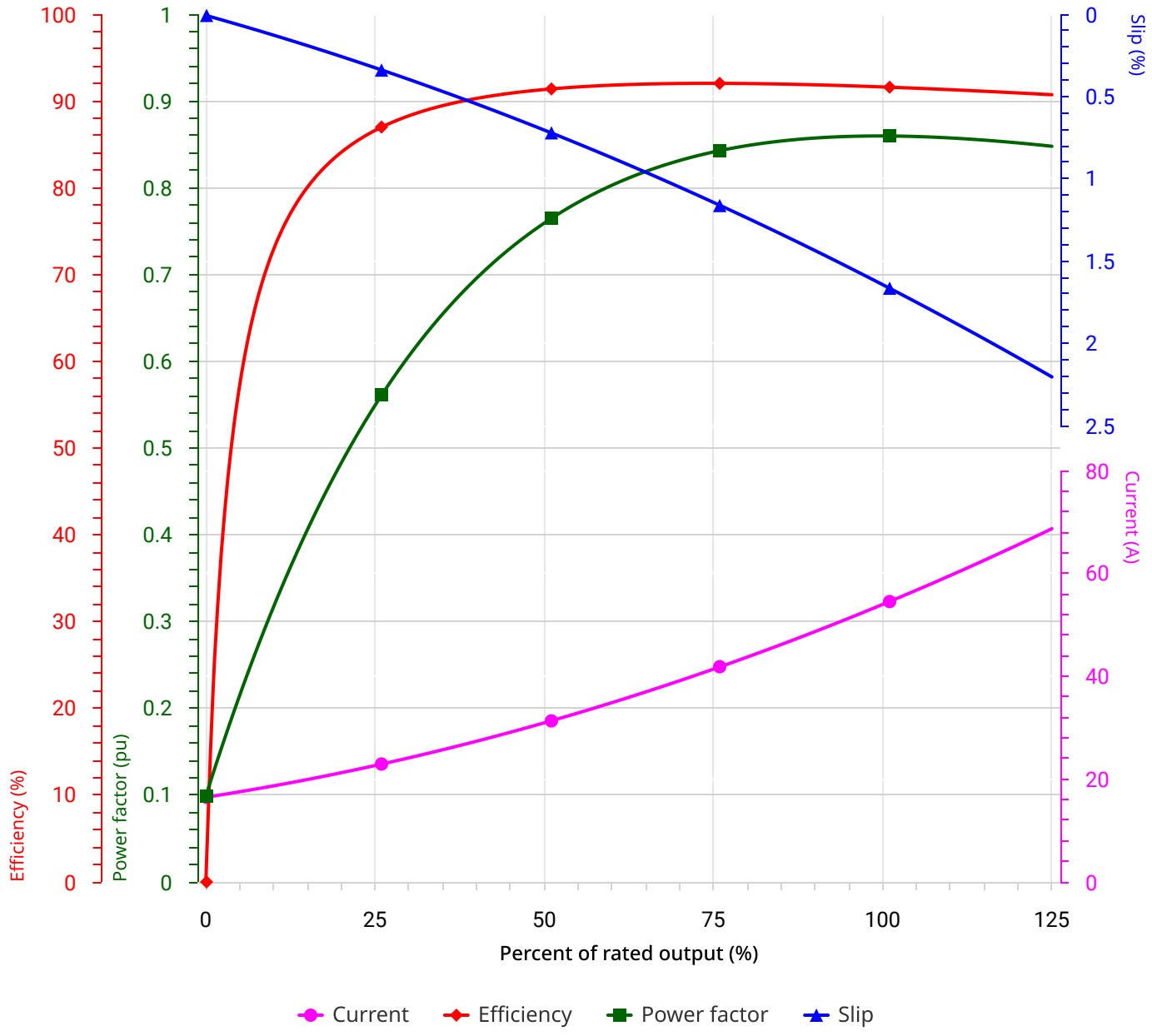
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Performance	: 40 HP (30 kW) 400V 50Hz 2P 324/6TS

Rated current	: 54.9 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 5.5 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 9.84 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2950 rpm	Design	: B

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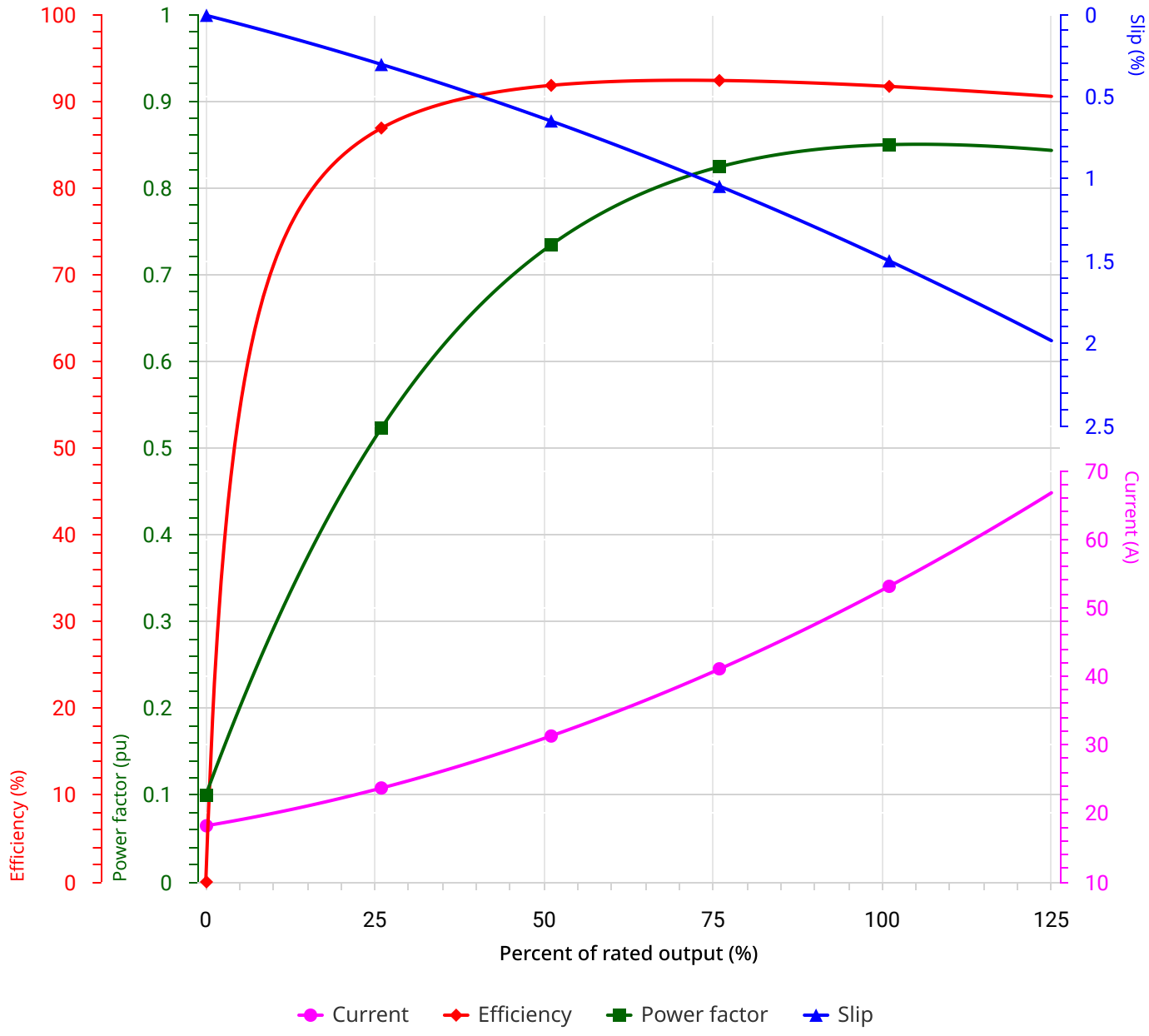
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Product code	: 12448181



Performance	: 40 HP (30 kW) 415V 50Hz 2P 324/6TS

Rated current	: 53.6 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 6.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 9.82 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2955 rpm	Design	: B

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