DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12447129

Frame	: 324/6TC	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	: 223 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.3861 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		4	4	4	4	4	4	4	4
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		94.2/47.1 A	104 A	42.8 A	41.6 A	41.1 A	57.4 A	54.1 A	52.8 A
L. R. Amperes			635 A	291 A	307 A	316 A	287 A	303 A	317 A
LRC		574/287 A	6.1 Code G	6.8 Code H	7.4 Code J	7.7 Code J	5.0 Code E	5.6 Code F	6.0 Code G
No load current		6.1 Code G	29.8 A	16.8 A	18.0 A	19.0 A	16.8 A	18.0 A	19.0 A
Rated speed			1775 rpm	1477 rpm	1480 rpm	1480 rpm	1460 rpm	1465 rpm	1470 rpm
Slip		34.6/17.3 A	1.39 %	1.53 %	1.33 %	1.33 %	2.67 %	2.33 %	2.00 %
Rated torque			16.0 kgfm	14.7 kgfm	14.7 kgfm	14.7 kgfm	19.9 kgfm	19.8 kgfm	19.7 kgfm
Locked rotor torque		1775 rpm	225 %	240 %	270 %	280 %	170 %	190 %	210 %
Breakdown torque		1.39 %	240 %	260 %	290 %	310 %	200 %	210 %	230 %
Service factor		16.4 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	95 K
Noise level		240 %	66.0 dB(A)	63 dB(A)	63 dB(A)	63 dB(A)	63 dB(A)	63 dB(A)	63 dB(A)
Locked rotor time		1.25	20 s (hot) 36 s (cold)	14 s (hot) 25 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	11 s (hot) 20 s (cold)	12 s (hot) 22 s (cold)	13 s (hot) 23 s (cold)
		80 K							
		66 dB(A)							
		20 s (hot) 36 s (cold)							
Efficiency (%)	50%	93.6	93.6	92.9	92.4	91.7	93.6	93.6	93.0
	75%	94.1	94.1	93.1	93.0	92.6	93.0	93.0	93.0
	100%	94.1	94.1	93.0	93.2	93.1	92.4	93.0	93.0
Power Factor	Start	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
	50%	0.72	0.72	0.68	0.64	0.62	0.77	0.74	0.72
	75%	0.80	0.80	0.78	0.75	0.73	0.84	0.82	0.80
	100%	0.85	0.85	0.84	0.82	0.8	0.86	0.86	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		6.24	6.24	7.49	7.26	7.37	8.18	7.49	7.49
P2 (0,5;1,0)		5.43	5.43	6.52	6.32	6.42	7.12	6.52	6.52
P3 (0,25;1,0)		4.92	4.92	5.91	5.73	5.82	6.46	5.91	5.91
P4 (0,9;0,5)		2.79	2.79	3.35	3.25	3.30	3.66	3.35	3.35
P5 (0,5;0,5)		2.02	2.02	2.43	2.36	2.39	2.66	2.43	2.43
P6 (0,5;0,25)		1.26	1.26	1.51	1.46	1.49	1.65	1.51	1.51
P7 (0,25;0,25)		0.90	0.90	1.08	1.05	1.06	1.18	1.08	1.08

	Drive end	Non drive end
Bearing type	6312-C3	6212-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	21 g	13 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 456 kgf
Max. compression : 679 kgf

Notes:

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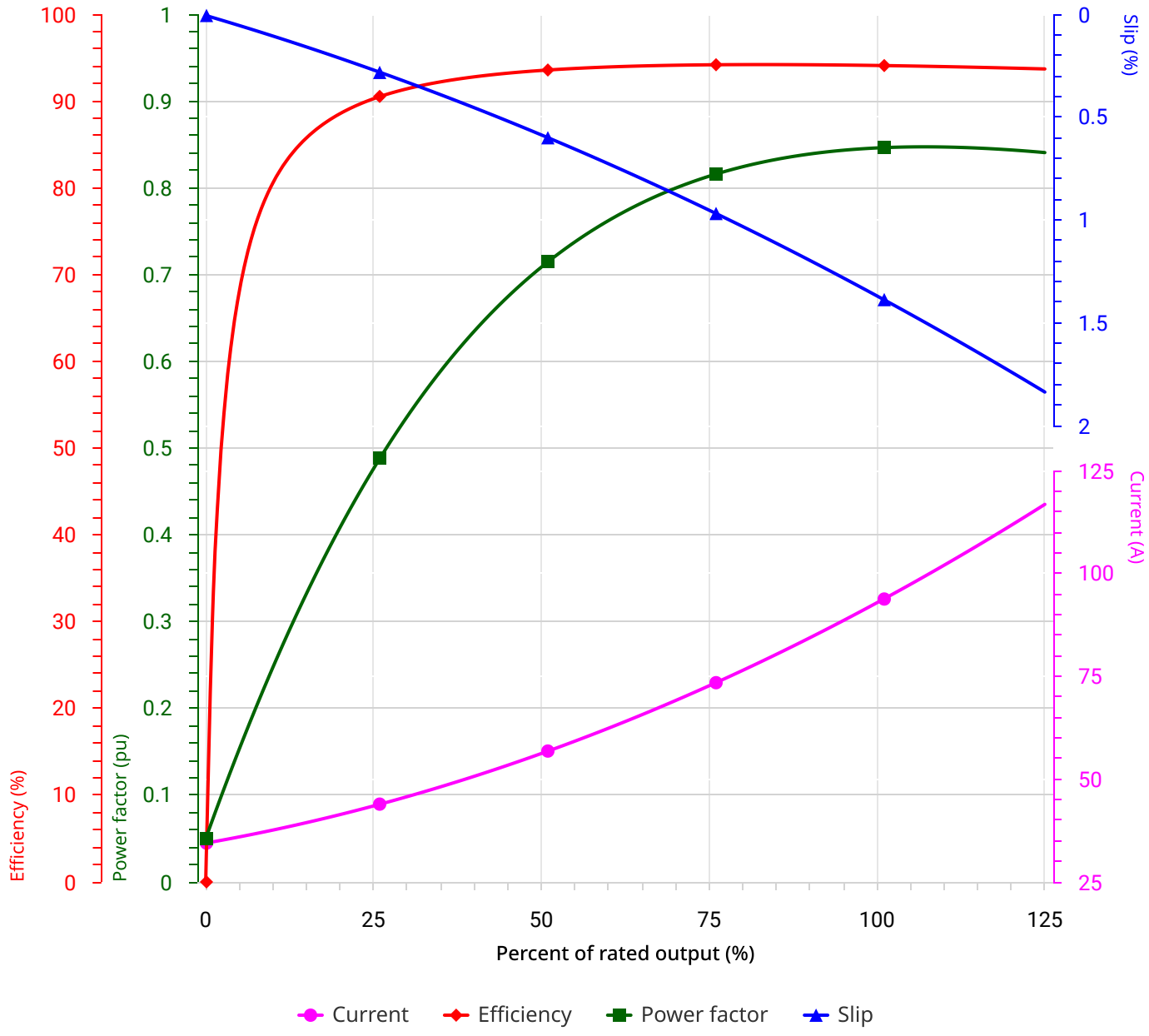
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12447129



Performance	: 40 HP (30 kW) 230/460V 60Hz 4P 324/6TC

Rated current	: 94.2/47.1 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 6.1 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 16.4 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

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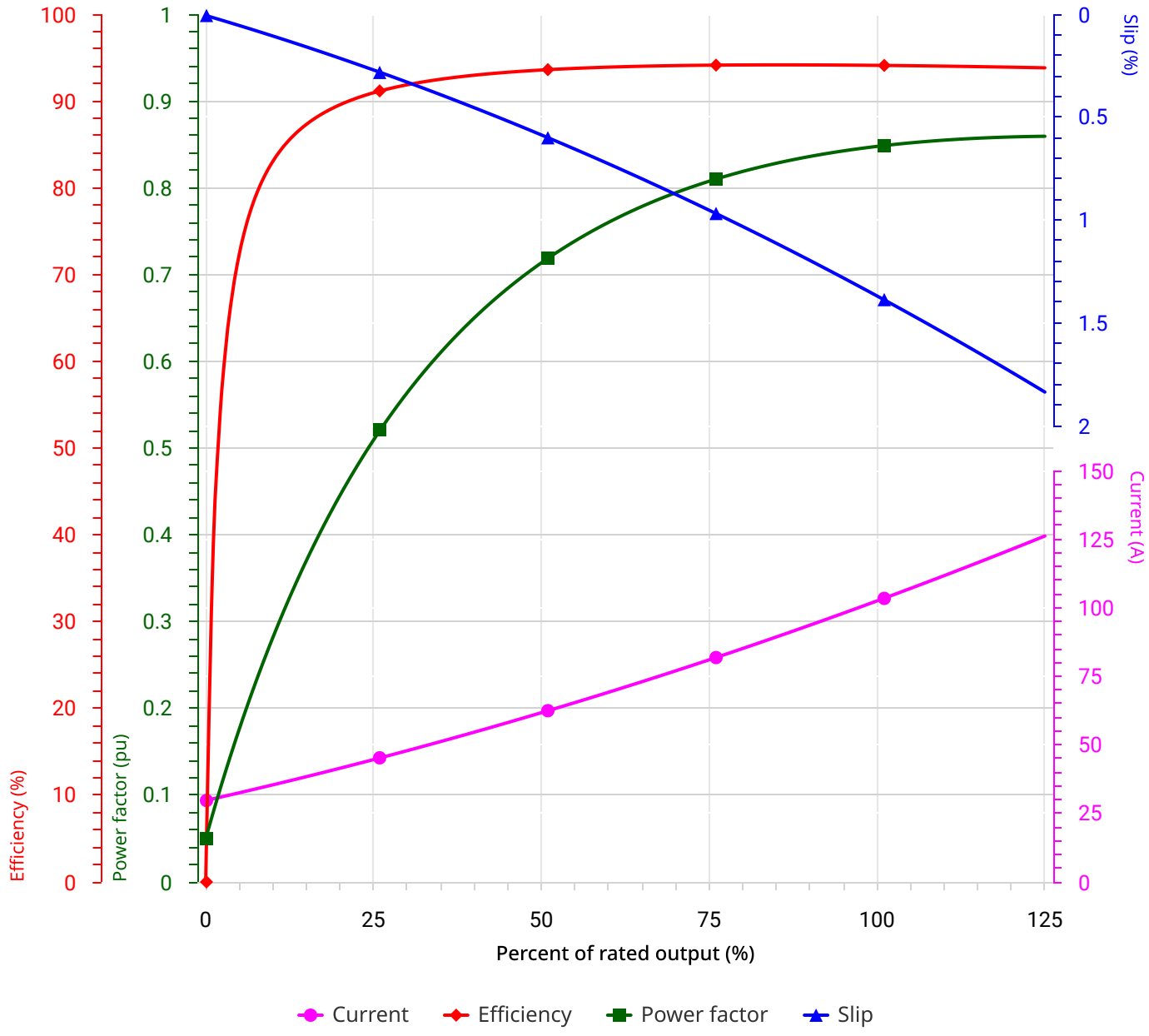
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12447129



Performance	: 40 HP (30 kW) 208V 60Hz 4P 324/6TC

Rated current	: 104 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 6.1 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 16.0 kgfm	Insulation class	: F
Locked rotor torque	: 225 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: 00002

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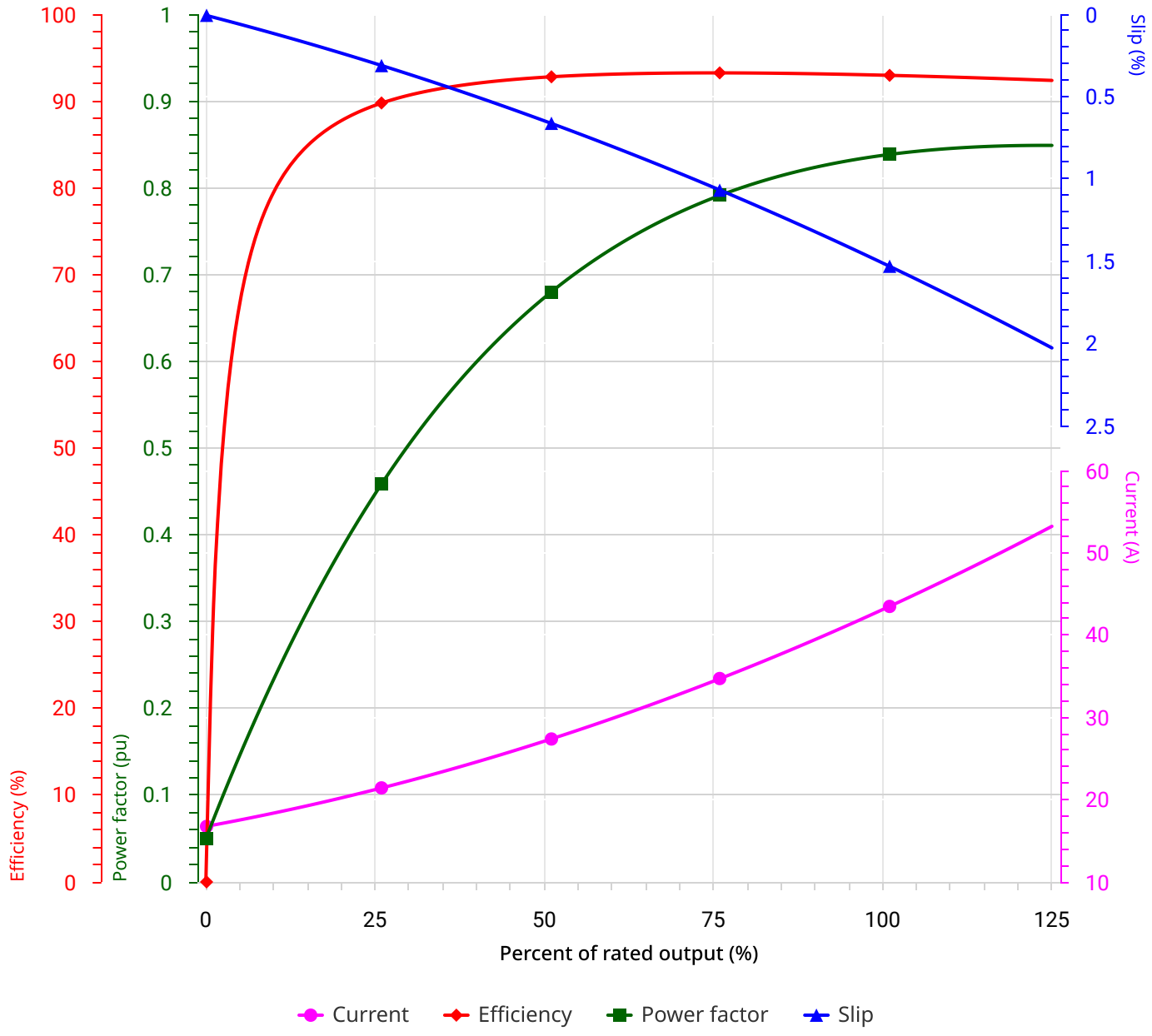
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12447129



Performance	: 30 HP (22 kW) 380V 50Hz 4P 324/6TC

Rated current	: 42.8 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 6.8 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 14.7 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1477 rpm	Design	: B

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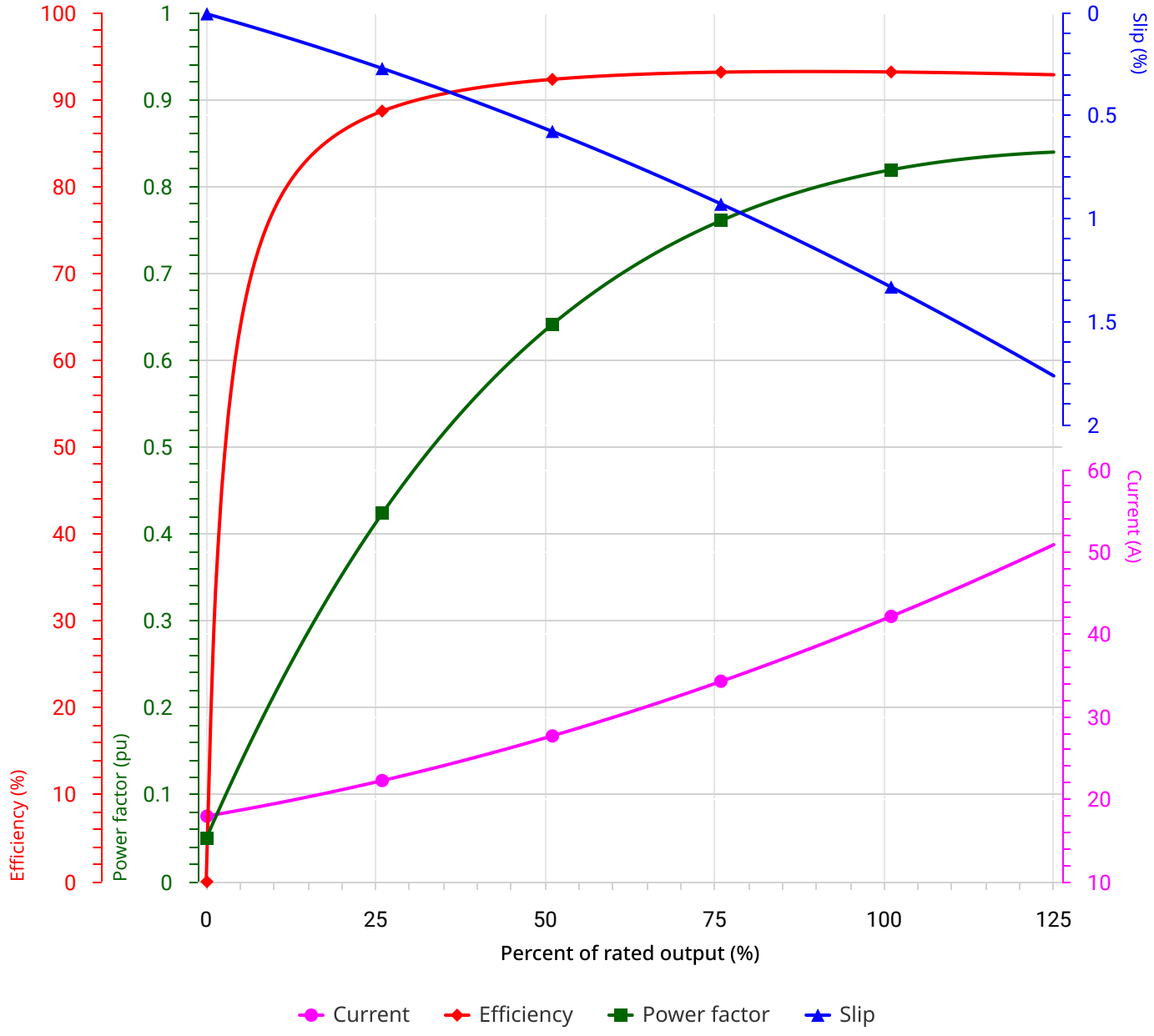
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 12447129



Performance	: 30 HP (22 kW) 400V 50Hz 4P 324/6TC

Rated current	: 41.6 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 7.4 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 14.7 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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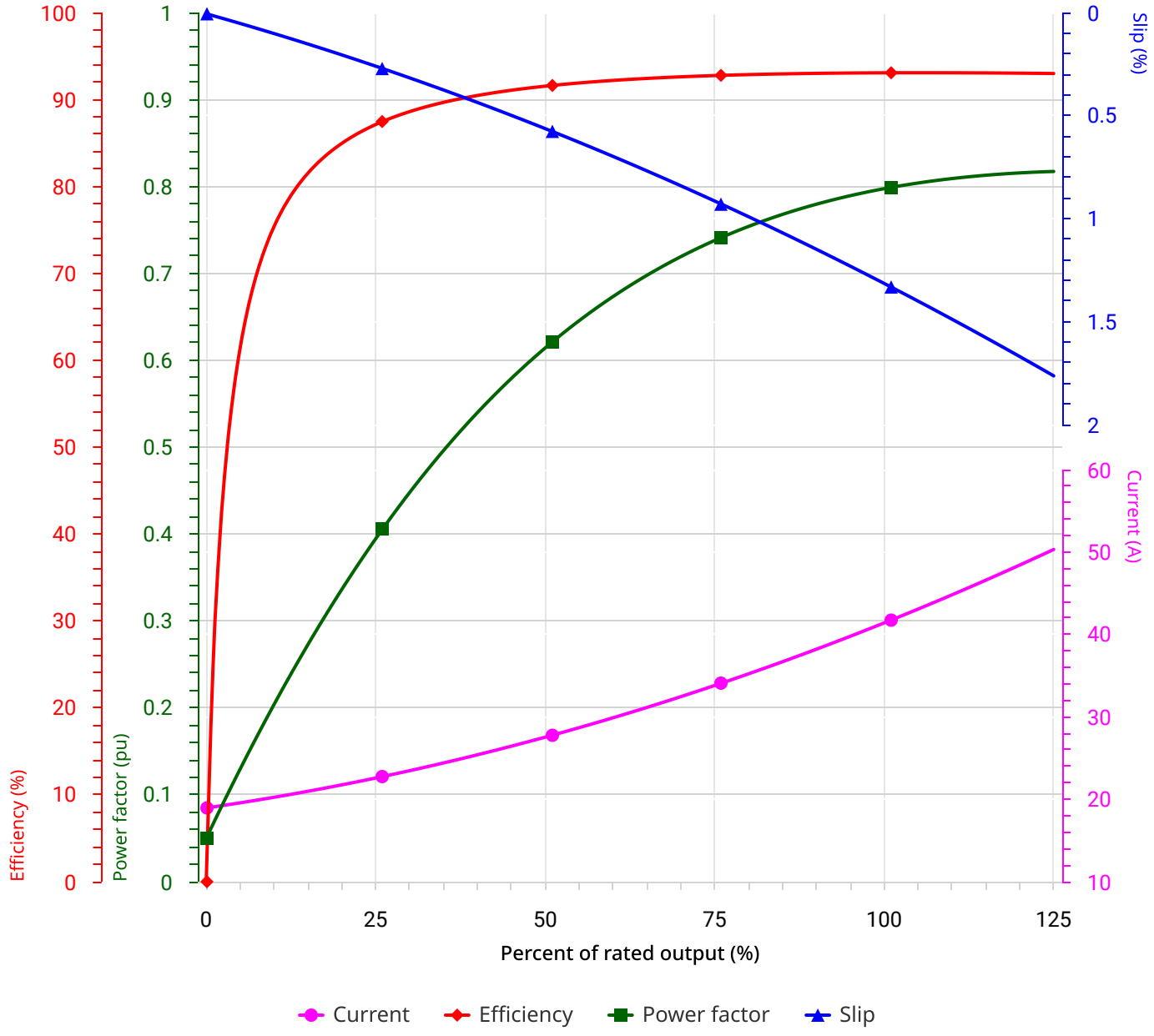
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12447129



Performance	: 30 HP (22 kW) 415V 50Hz 4P 324/6TC

Rated current	: 41.1 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 7.7 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 14.7 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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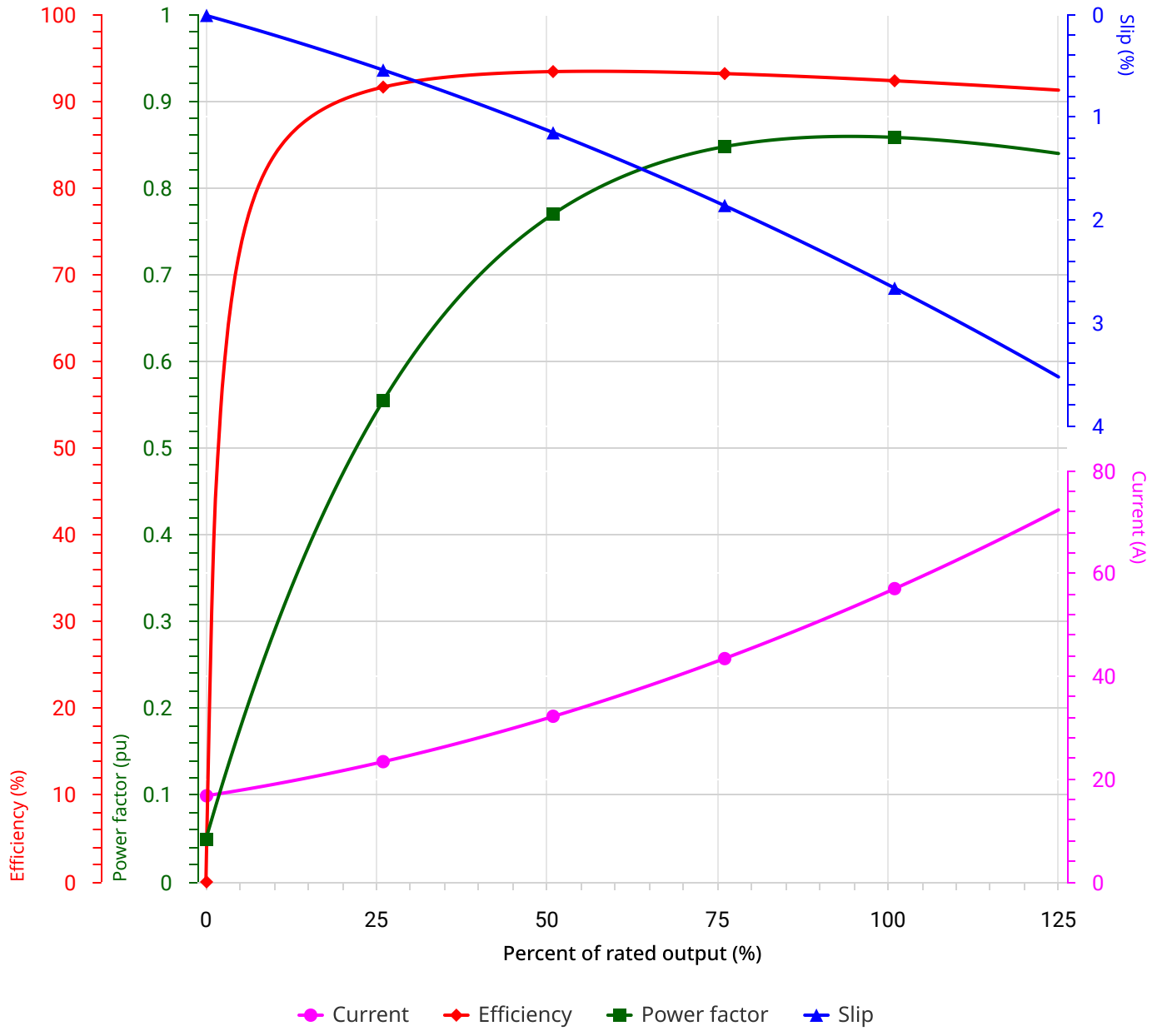
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Customer	:
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Performance	: 40 HP (30 kW) 380V 50Hz 4P 324/6TC

Rated current	: 57.4 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 5.0 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 19.9 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1460 rpm	Design	: B

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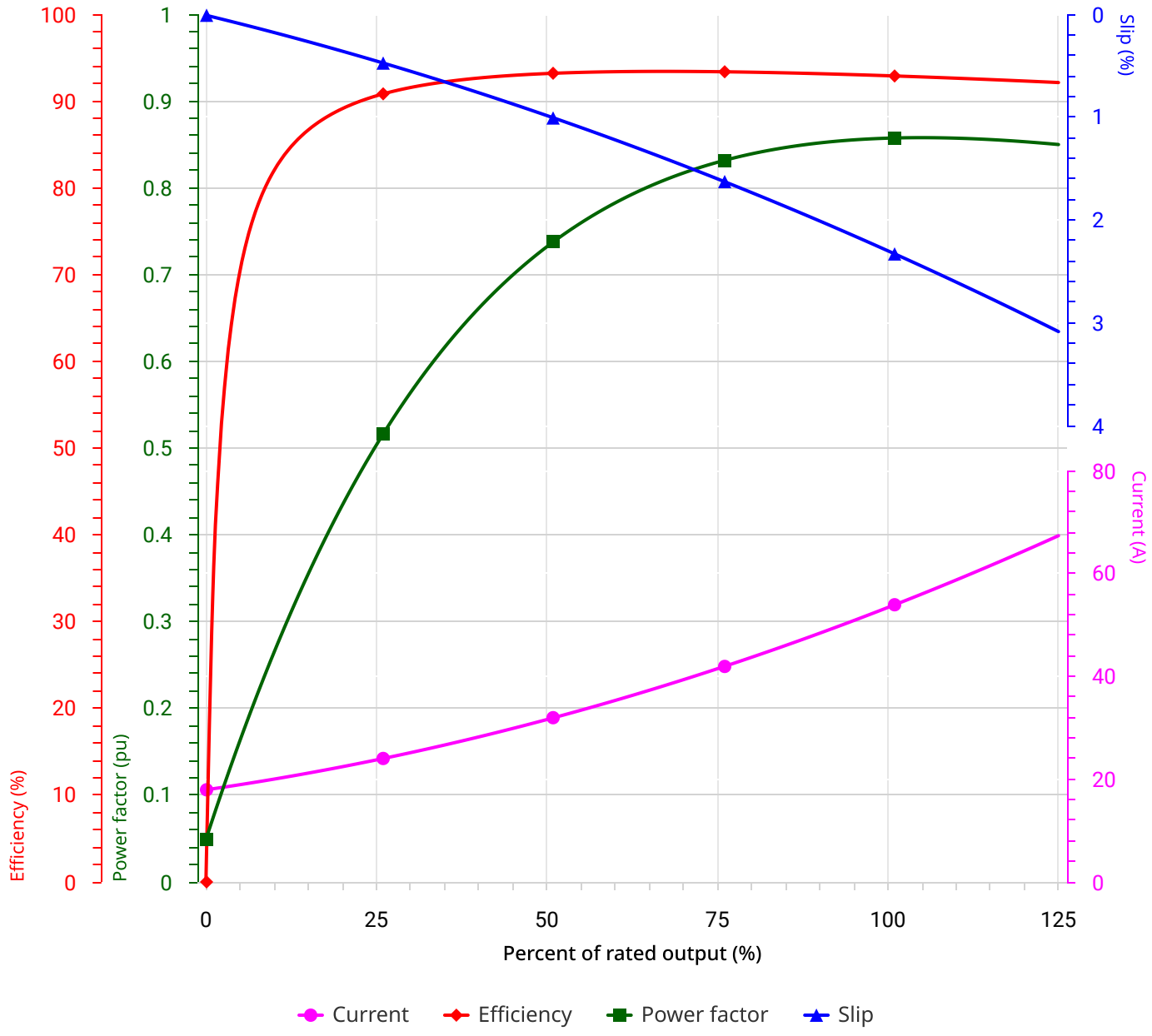
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Product code	: 12447129



Performance	: 40 HP (30 kW) 400V 50Hz 4P 324/6TC

Rated current	: 54.1 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 5.6 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 19.8 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1465 rpm	Design	: B

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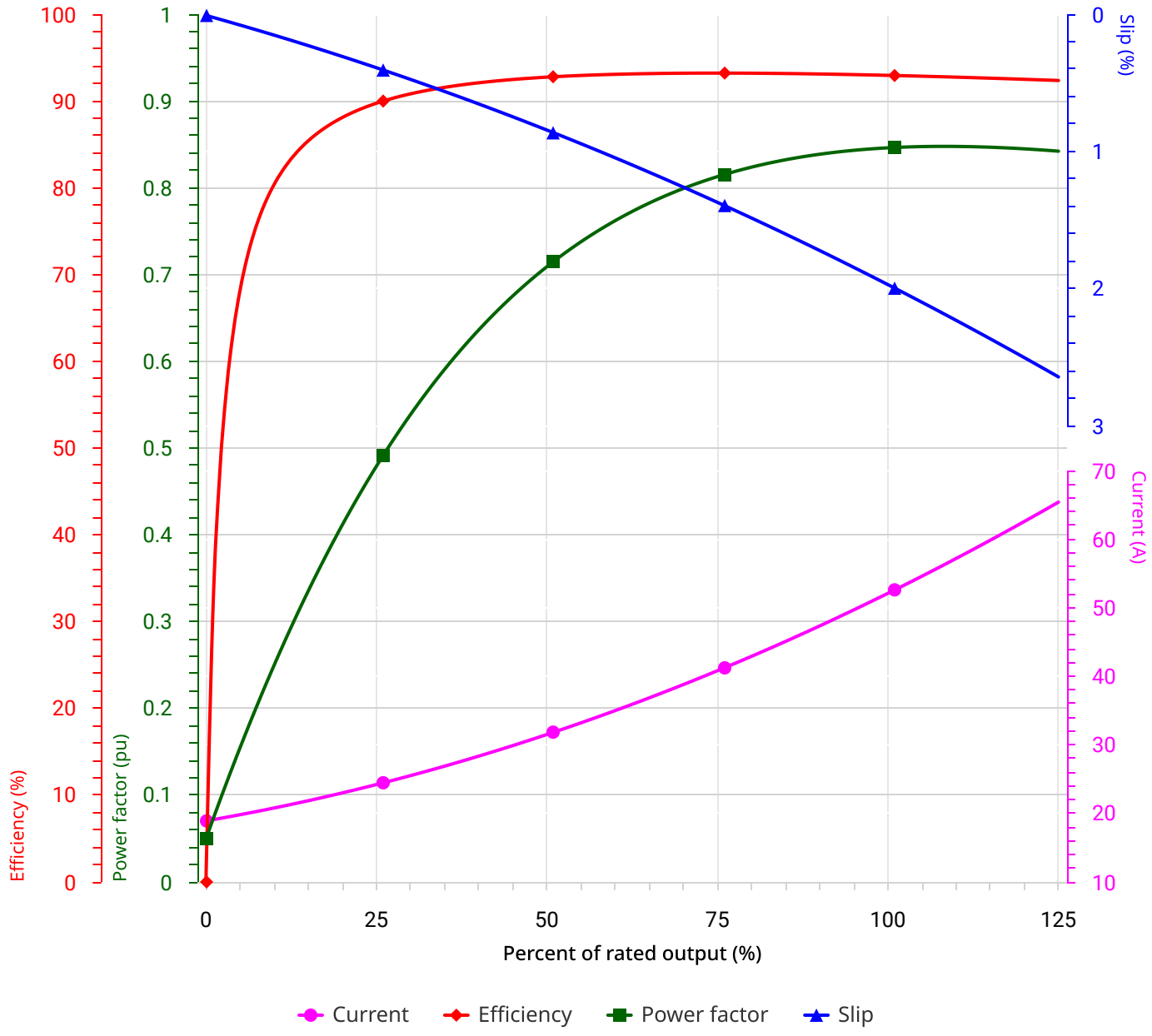
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Product code	: 12447129



Performance	: 40 HP (30 kW) 415V 50Hz 4P 324/6TC

Rated current	: 52.8 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 6.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 19.7 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 230 %	Temperature rise	: 95 K
Rated speed	: 1470 rpm	Design	: B

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