DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 14212553

Frame	: 286HP	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: V1
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 198 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.2467 kgm²
Design	: B		

Output		30 HP (22	30 HP (22	25 HP (18.5	25 HP (18.5	25 HP (18.5	30 HP (22	30 HP (22	30 HP (22
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		70.2/35.1 A	77.6 A	35.7 A	34.3 A	33.9 A	43.1 A	41.1 A	39.7 A
L. R. Amperes			474 A	214 A	230 A	247 A	228 A	247 A	238 A
LRC		428/214 A	6.1 Code G	6.0 Code G	6.7 Code H	7.3 Code J	5.3 Code F	6.0 Code G	6.0 Code G
No load current		6.1 Code G	21.2 A	12.2 A	13.1 A	13.8 A	12.2 A	13.1 A	13.8 A
Rated speed			1770 rpm	1465 rpm	1470 rpm	1475 rpm	1455 rpm	1460 rpm	1465 rpm
Slip		24.6/12.3 A	1.67 %	2.33 %	2.00 %	1.67 %	3.00 %	2.67 %	2.33 %
Rated torque			12.0 kgfm	12.4 kgfm	12.3 kgfm	12.3 kgfm	15.0 kgfm	14.9 kgfm	14.9 kgfm
Locked rotor torque		1770 rpm	240 %	200 %	230 %	260 %	170 %	190 %	220 %
Breakdown torque		1.67 %	240 %	230 %	260 %	280 %	200 %	220 %	240 %
Service factor		12.3 kgfm	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		240 %	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Noise level		240 %	63.0 dB(A)	61 dB(A)	61 dB(A)	61 dB(A)	61 dB(A)	61 dB(A)	61 dB(A)
Locked rotor time		1.25	20 s (hot) 36 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	13 s (hot) 23 s (cold)	13 s (hot) 23 s (cold)	12 s (hot) 22 s (cold)
		80 K							
		63 dB(A)							
		20 s (hot) 36 s (cold)							
Efficiency (%)	50%	93.0	93.0	92.1	92.1	91.6	90.0	90.5	91.2
	75%	93.0	93.0	92.5	92.8	92.5	90.2	91.0	91.7
	100%	93.6	93.6	92.6	92.7	92.6	90.2	91.0	91.7
Power Factor	Start	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
	50%	0.70	0.70	0.70	0.67	0.64	0.76	0.73	0.70
	75%	0.80	0.80	0.81	0.79	0.76	0.83	0.82	0.80
	100%	0.84	0.84	0.85	0.84	0.82	0.86	0.85	0.84
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		6.77	6.77	6.77	6.77	6.77	6.77	6.77	6.77
P2 (0,5;1,0)		5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80
P3 (0,25;1,0)		5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23
P4 (0,9;0,5)		3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09
P5 (0,5;0,5)		2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18
P6 (0,5;0,25)		1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
P7 (0,25;0,25)		0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95

	Drive end	Non drive end
Bearing type	6312-C3	6211-C3
Lubrication interval	14000 h	17000 h
Lubricant amount	21 g	11 g
Lubricant type	MOBIL POLYREX EM	

Notes:

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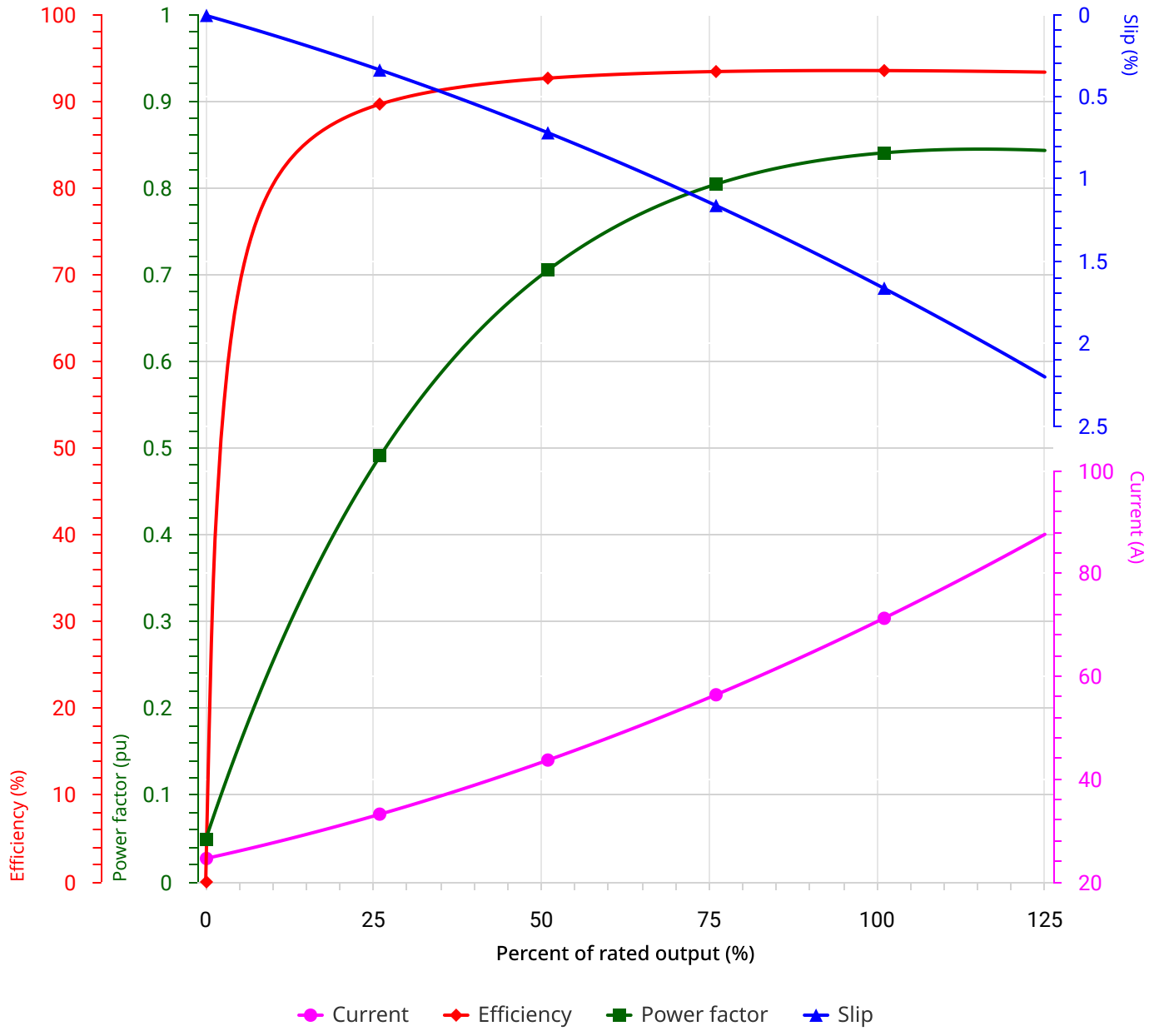
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 14212553



Performance	: 30 HP (22 kW) 230/460V 60Hz 4P 286HP

Rated current	: 70.2/35.1 A	Moment of inertia (J)	: 0.2467 kgm²
LRC	: 6.1 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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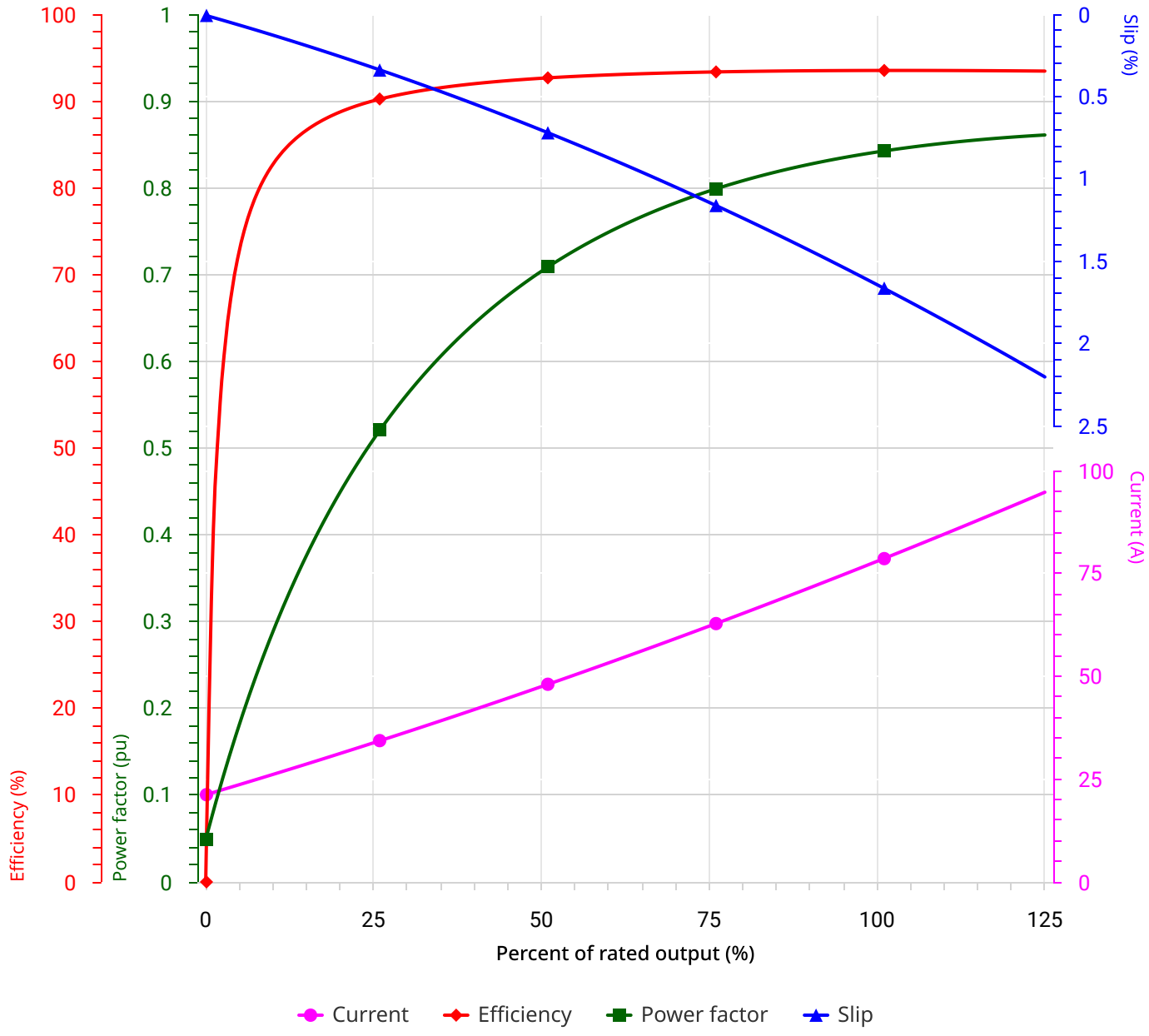
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 14212553



Performance	: 30 HP (22 kW) 208V 60Hz 4P 286HP

Rated current	: 77.6 A	Moment of inertia (J)	: 0.2467 kgm²
LRC	: 6.1 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 12.0 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: 00002

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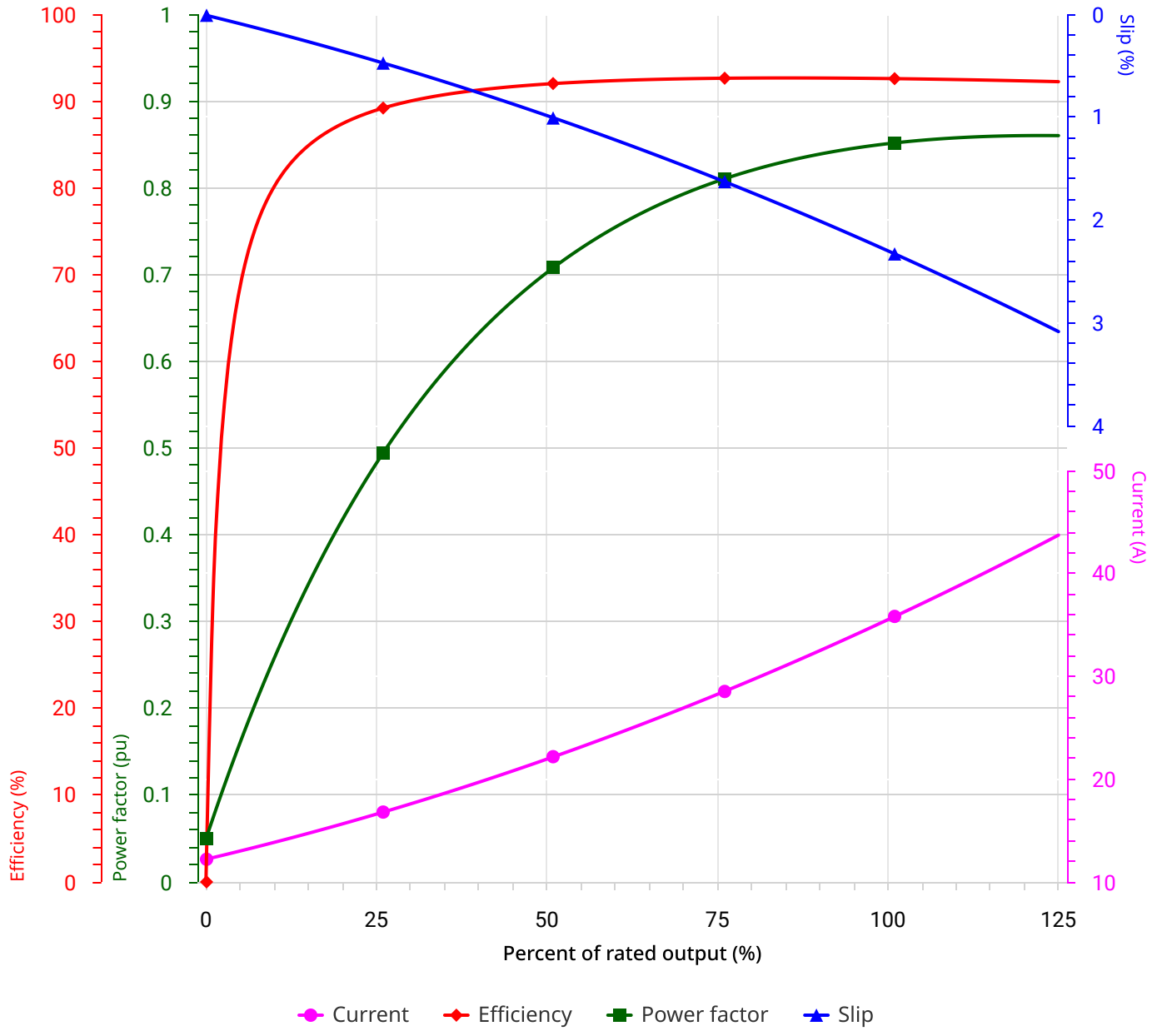
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 14212553



Performance	: 25 HP (18.5 kW) 380V 50Hz 4P 286HP

Rated current	: 35.7 A	Moment of inertia (J)	: 0.2467 kgm²
LRC	: 6.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 12.4 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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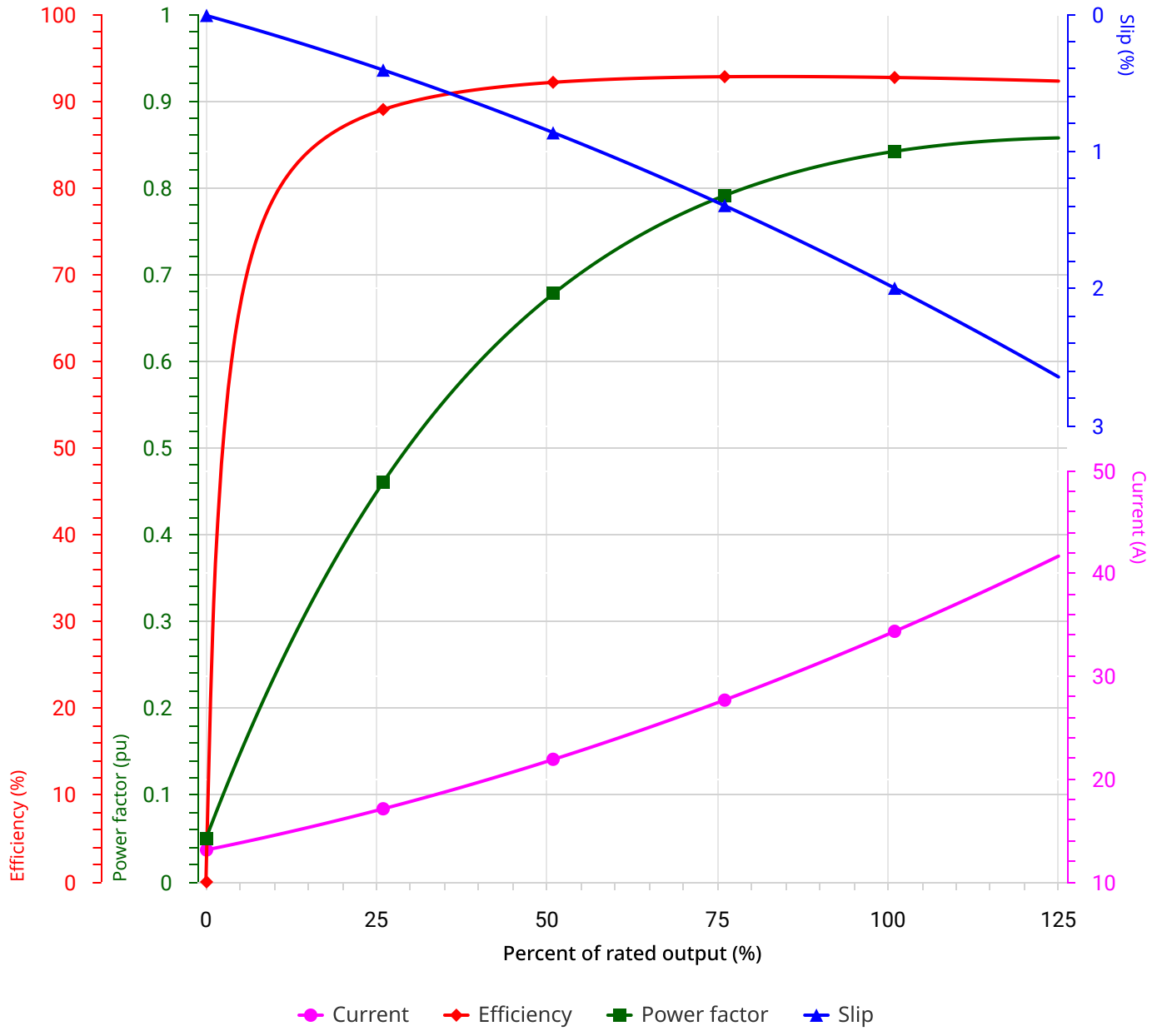
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 14212553



Performance	: 25 HP (18.5 kW) 400V 50Hz 4P 286HP

Rated current	: 34.3 A	Moment of inertia (J)	: 0.2467 kgm²
LRC	: 6.7 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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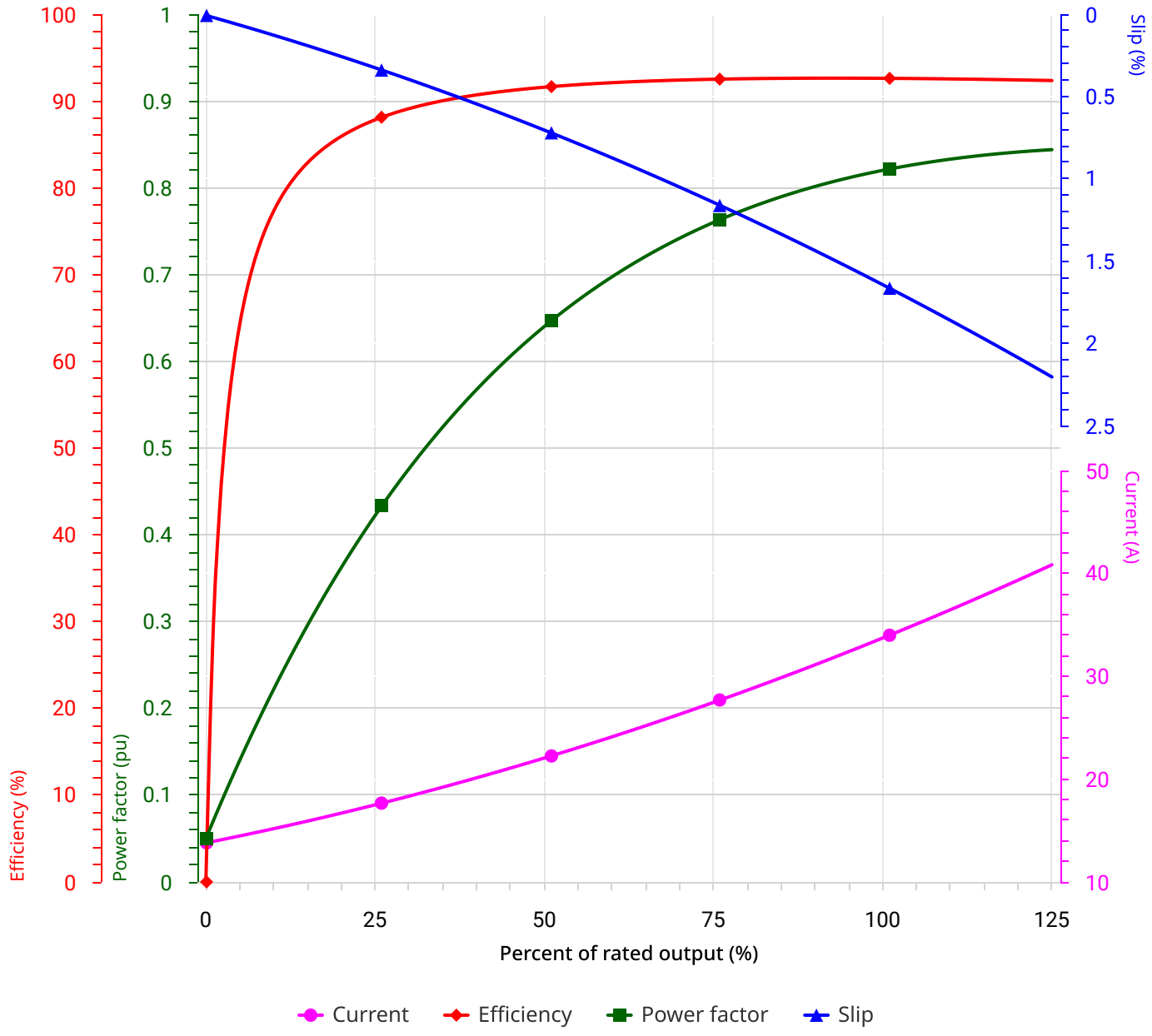
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 14212553



Performance	: 25 HP (18.5 kW) 415V 50Hz 4P 286HP

Rated current	: 33.9 A	Moment of inertia (J)	: 0.2467 kgm²
LRC	: 7.3 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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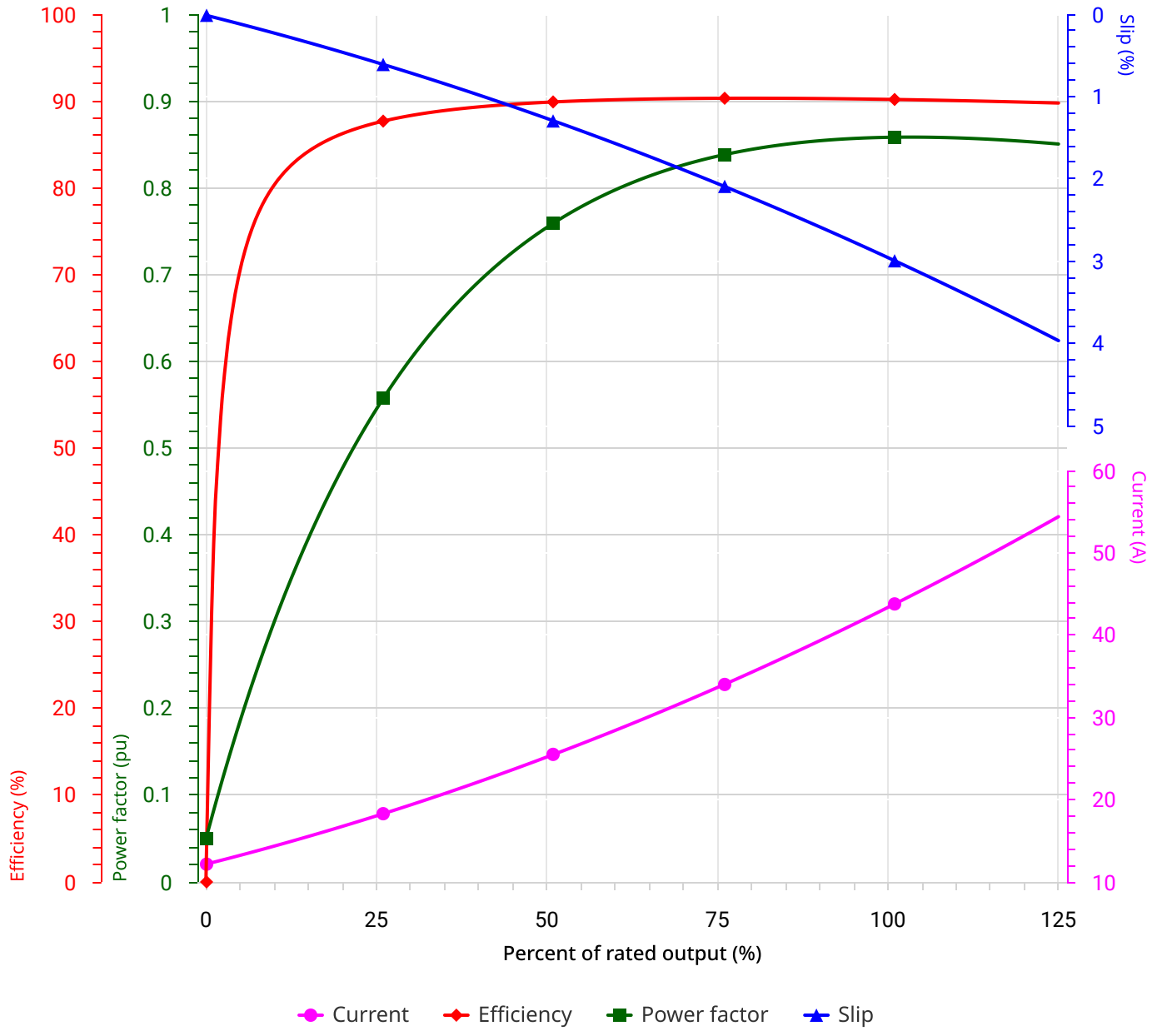
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 14212553



Performance	: 30 HP (22 kW) 380V 50Hz 4P 286HP

Rated current	: 43.1 A	Moment of inertia (J)	: 0.2467 kgm²
LRC	: 5.3 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 15.0 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1455 rpm	Design	: B

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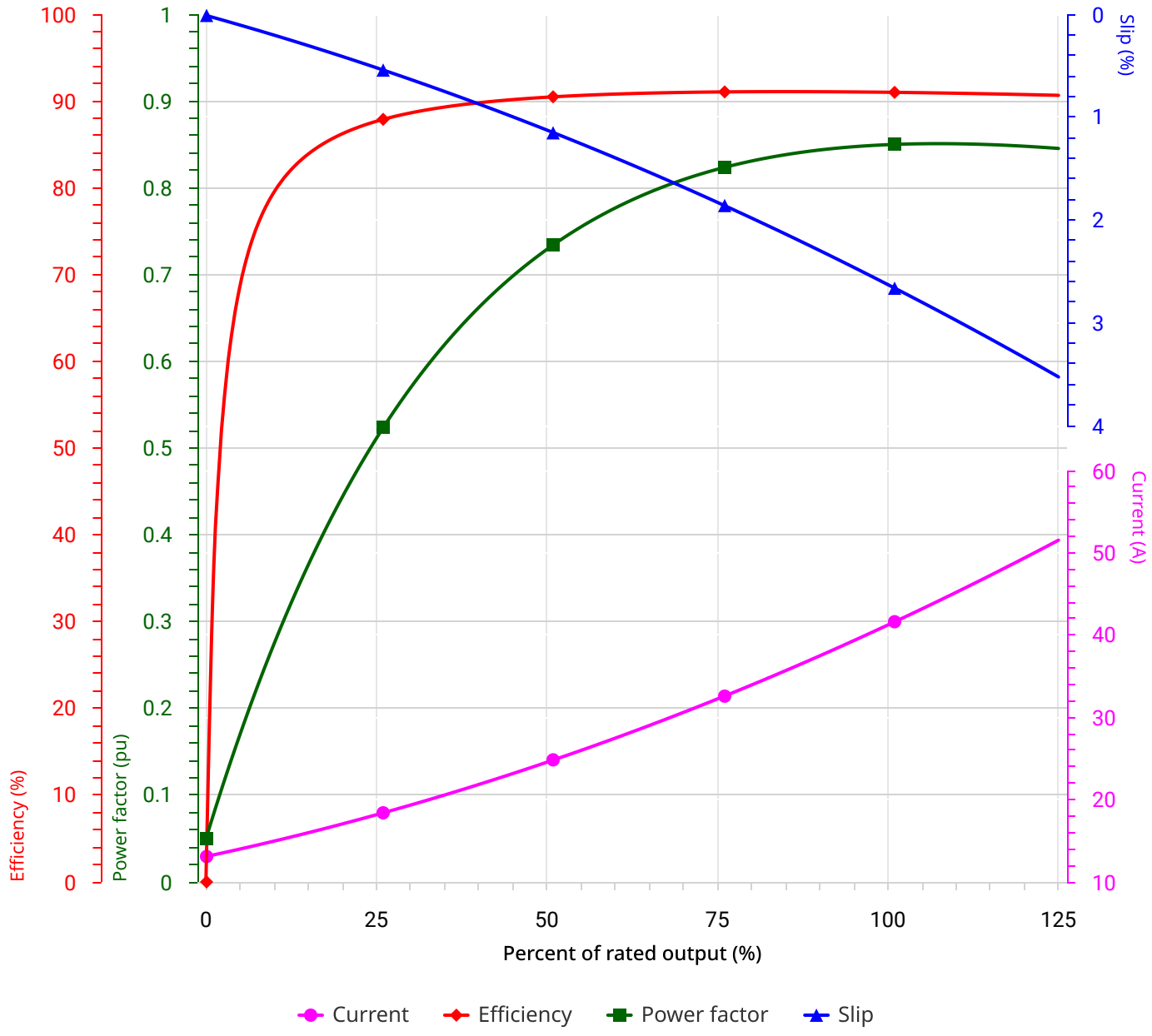
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 14212553



Performance	: 30 HP (22 kW) 400V 50Hz 4P 286HP

Rated current	: 41.1 A	Moment of inertia (J)	: 0.2467 kgm²
LRC	: 6.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 14.9 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 1460 rpm	Design	: B

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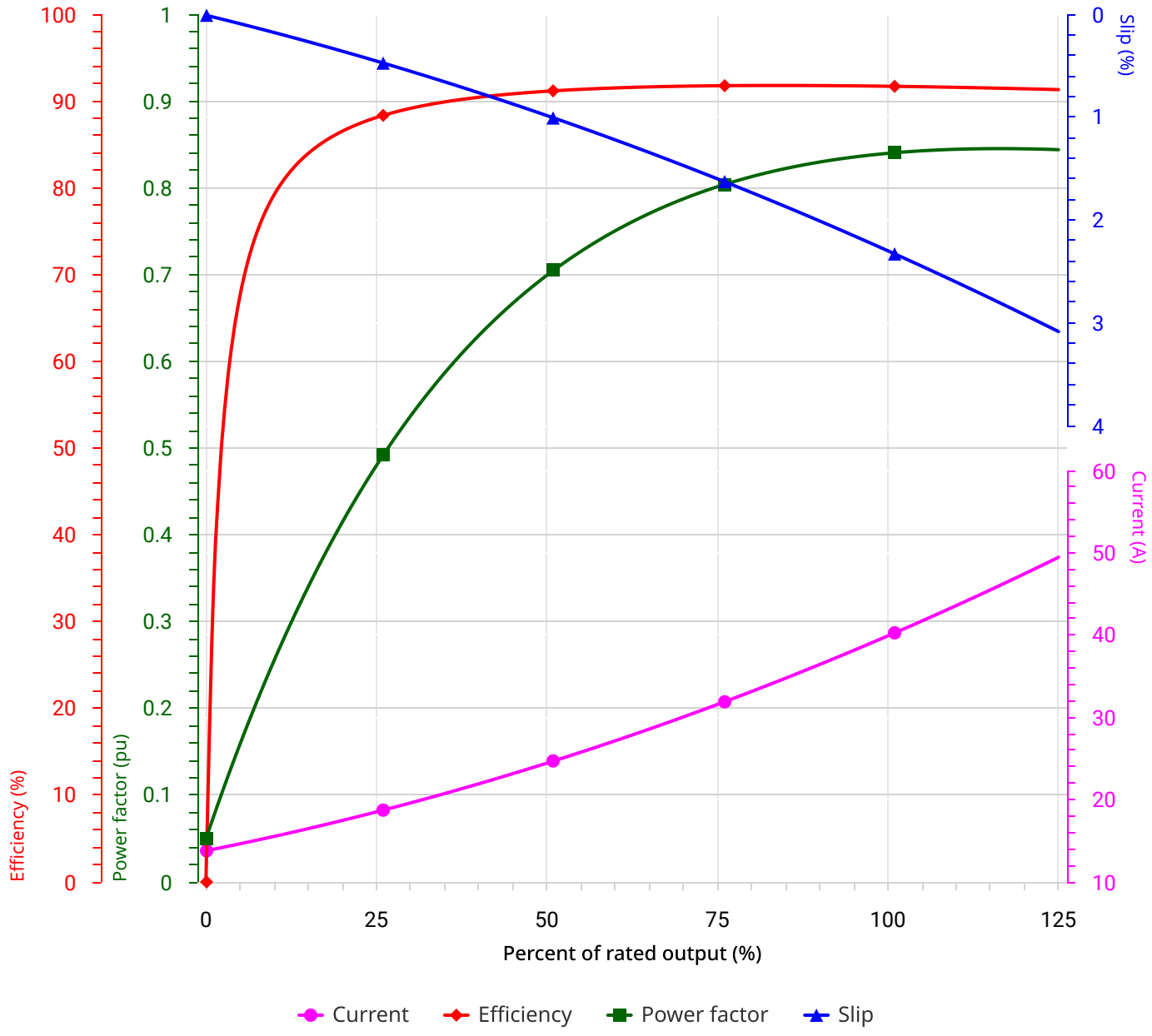
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 14212553



Performance	: 30 HP (22 kW) 415V 50Hz 4P 286HP

Rated current	: 39.7 A	Moment of inertia (J)	: 0.2467 kgm²
LRC	: 6.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 14.9 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 1465 rpm	Design	: B

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