DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11413120

Frame	: 284/6TS	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	: 178 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1419 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		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		68.4/34.2 A	76.7 A	34.2 A	32.8 A	32.0 A	42.0 A	39.6 A	38.2 A
L. R. Amperes			483 A	202 A	220 A	231 A	206 A	218 A	229 A
LRC		431/216 A	6.3 Code G	5.9 Code F	6.7 Code G	7.2 Code H	4.9 Code E	5.5 Code F	6.0 Code F
No load current		6.3 Code G	15.7 A	9.00 A	10.0 A	10.5 A	9.00 A	10.0 A	10.5 A
Rated speed		18.2/9.10 A	3545 rpm	2940 rpm	2950 rpm	2955 rpm	2910 rpm	2930 rpm	2935 rpm
Slip		3545 rpm	1.53 %	2.00 %	1.67 %	1.50 %	3.00 %	2.33 %	2.17 %
Rated torque		1.53 %	6.00 kgfm	6.17 kgfm	6.15 kgfm	6.14 kgfm	7.48 kgfm	7.43 kgfm	7.42 kgfm
Locked rotor torque		6.14 kgfm	200 %	190 %	220 %	230 %	160 %	180 %	190 %
Breakdown torque		200 %	250 %	230 %	270 %	290 %	200 %	220 %	240 %
Service factor		250 %	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		1.25	80 K	95 K	80 K	80 K	105 K	105 K	105 K
Noise level		80 K	72.0 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)
Locked rotor time		72 dB(A)	15 s (hot) 27 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)
		15 s (hot) 27 s (cold)							
Efficiency (%)	50%	91.7	91.7	91.0	91.1	91.2	91.7	91.7	91.7
	75%	91.7	91.7	91.5	91.5	91.8	90.2	91.0	91.7
	100%	91.7	91.7	92.4	92.4	92.4	89.5	90.2	91.0
Power Factor	Start	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
	50%	0.80	0.80	0.80	0.78	0.76	0.84	0.82	0.80
	75%	0.86	0.86	0.87	0.85	0.84	0.88	0.87	0.86
	100%	0.88	0.88	0.89	0.88	0.87	0.89	0.89	0.88
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		8.61	8.61	7.82	7.82	7.82	11.16	10.33	9.41
P2 (0,5;1,0)		6.74	6.74	6.13	6.13	6.13	8.74	8.10	7.37
P3 (0,25;1,0)		5.87	5.87	5.33	5.33	5.33	7.61	7.04	6.41
P4 (0,9;0,5)		4.17	4.17	3.79	3.79	3.79	5.41	5.01	4.56
P5 (0,5;0,5)		2.48	2.48	2.25	2.25	2.25	3.21	2.97	2.71
P6 (0,5;0,25)		1.51	1.51	1.38	1.38	1.38	1.96	1.82	1.66
P7 (0,25;0,25)		0.91	0.91	0.82	0.82	0.82	1.18	1.09	0.99

	Drive end	Non drive end
Bearing type	6311-C3	6211-C3
Lubrication interval	14000 h	17000 h
Lubricant amount	18 g	11 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 163 kgf
Max. compression : 341 kgf

Notes:

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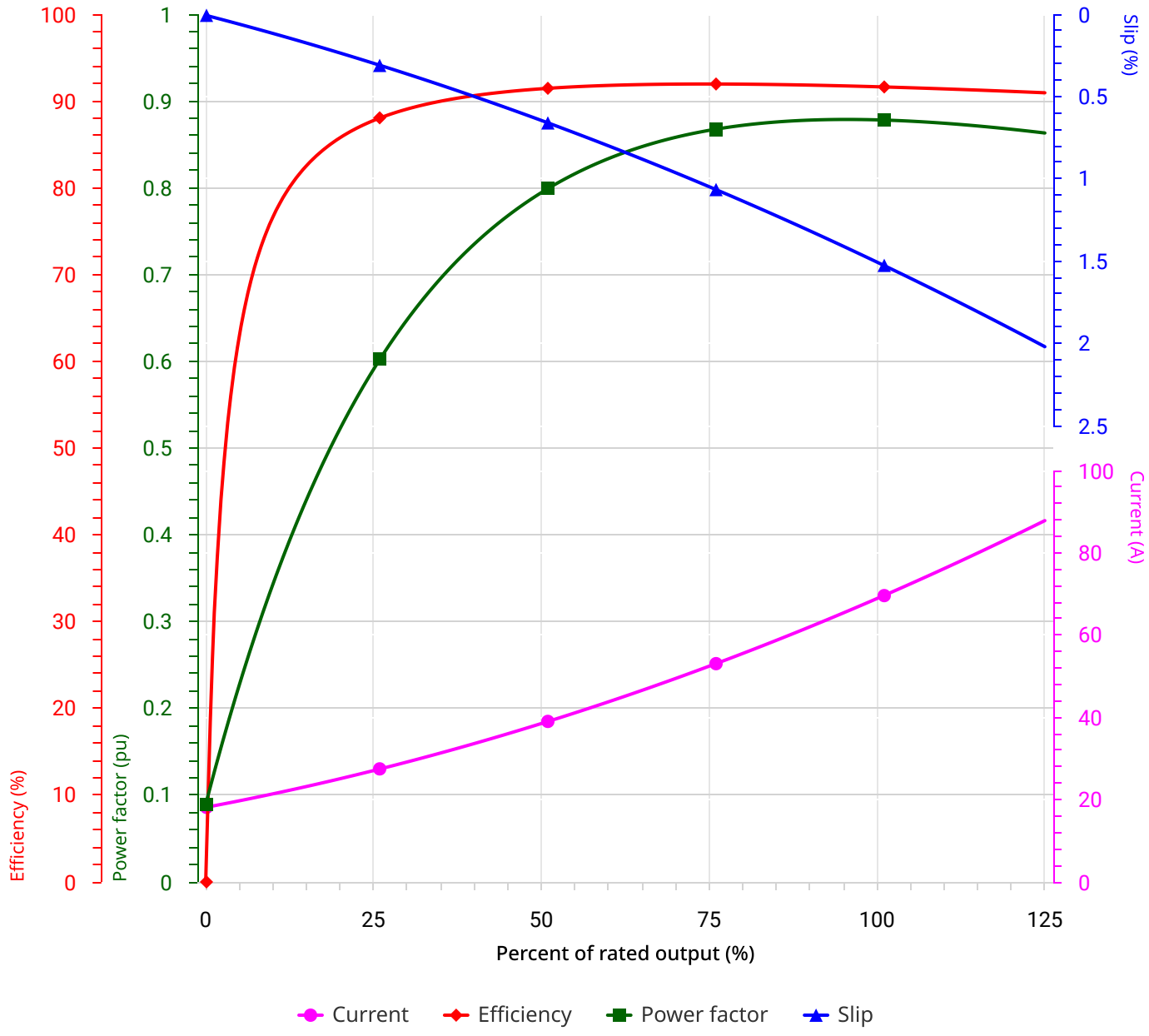
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11413120



Performance	: 30 HP (22 kW) 230/460V 60Hz 2P 284/6TS

Rated current	: 68.4/34.2 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.14 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3545 rpm	Design	: B

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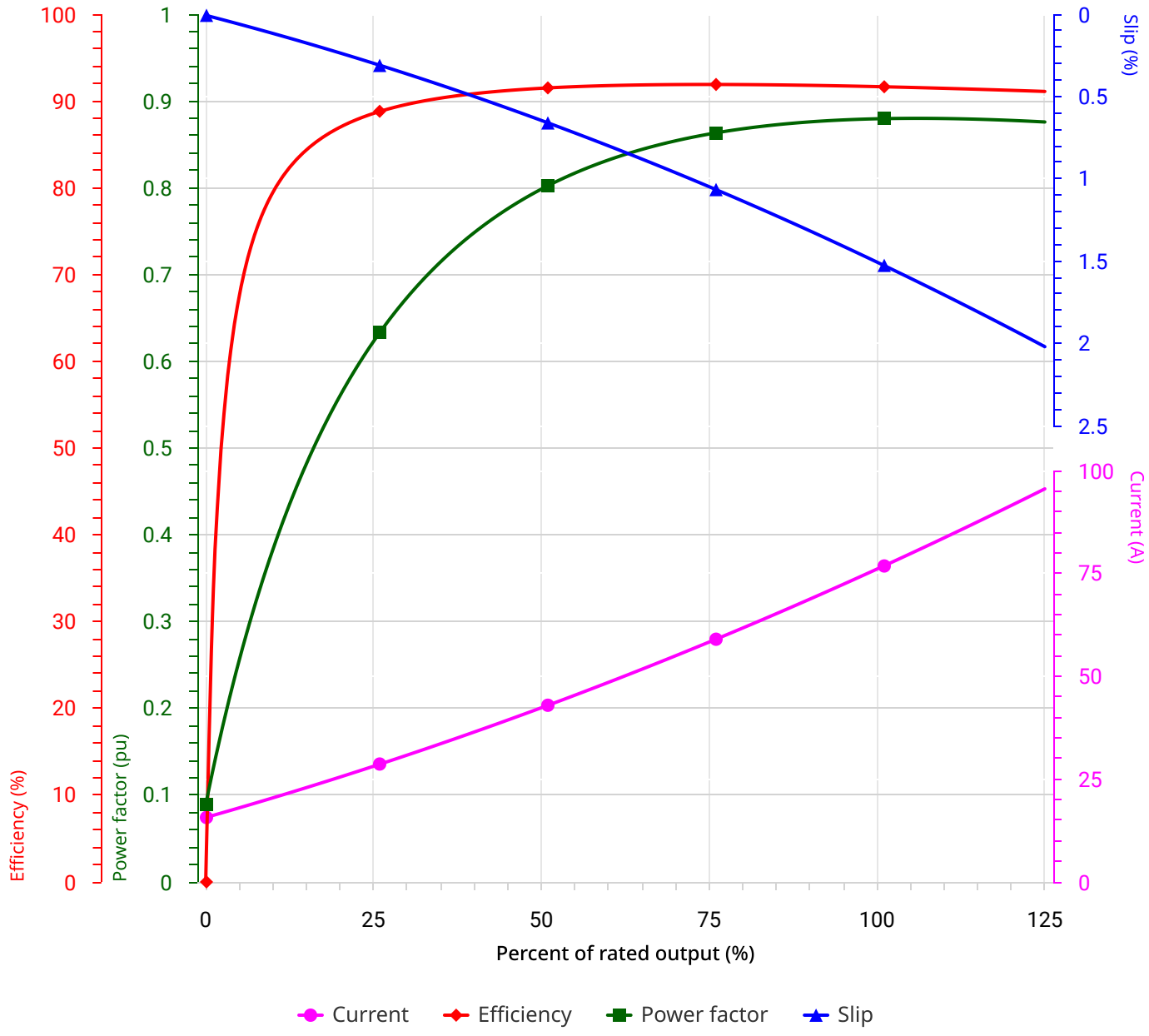
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11413120



Performance	: 30 HP (22 kW) 208V 60Hz 2P 284/6TS

Rated current	: 76.7 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.00 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3545 rpm	Design	: 00002

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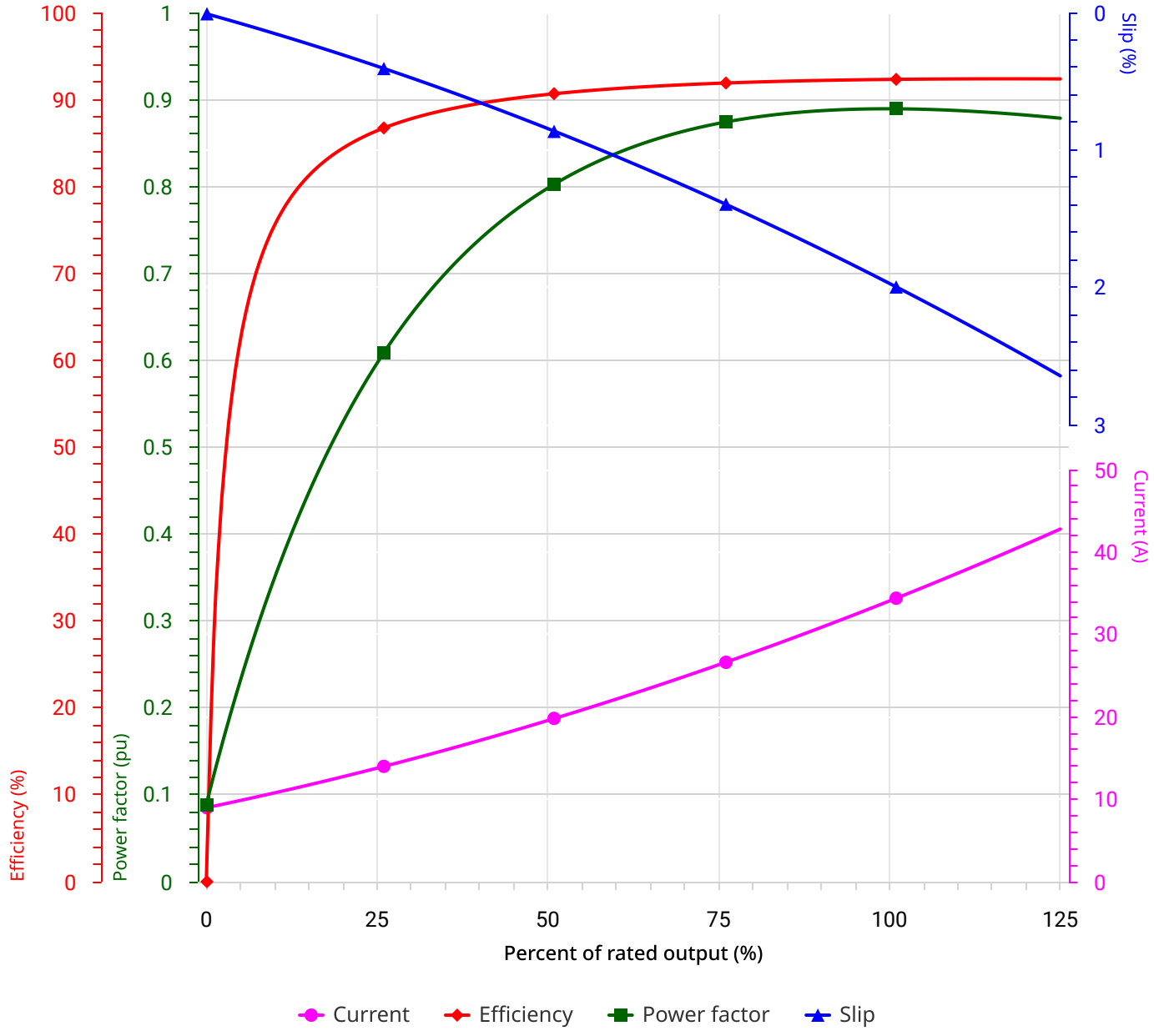
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11413120



Performance	: 25 HP (18.5 kW) 380V 50Hz 2P 284/6TS

Rated current	: 34.2 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 5.9 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 6.17 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 230 %	Temperature rise	: 95 K
Rated speed	: 2940 rpm	Design	: B

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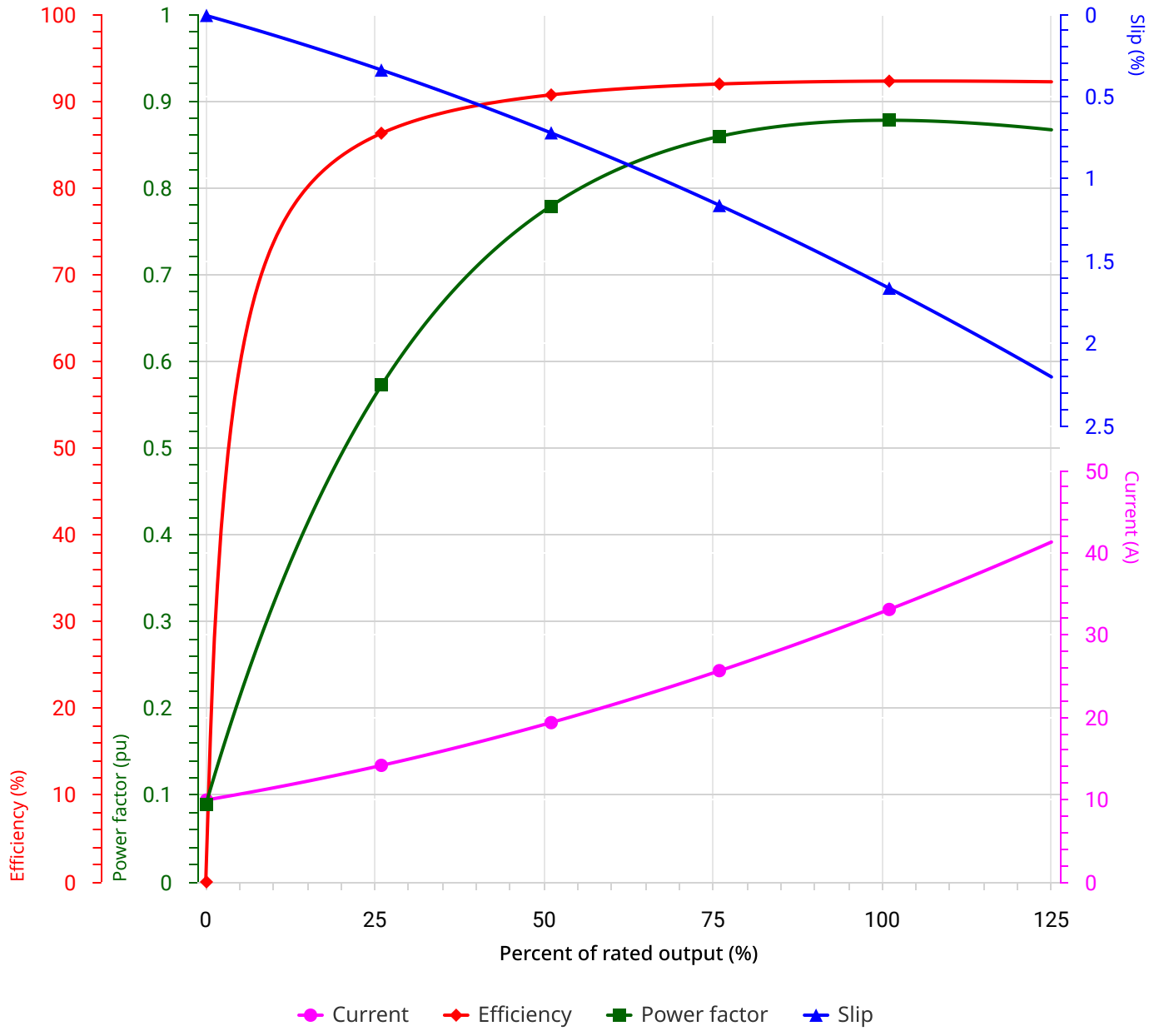
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 11413120



Performance	: 25 HP (18.5 kW) 400V 50Hz 2P 284/6TS

Rated current	: 32.8 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 6.7 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.15 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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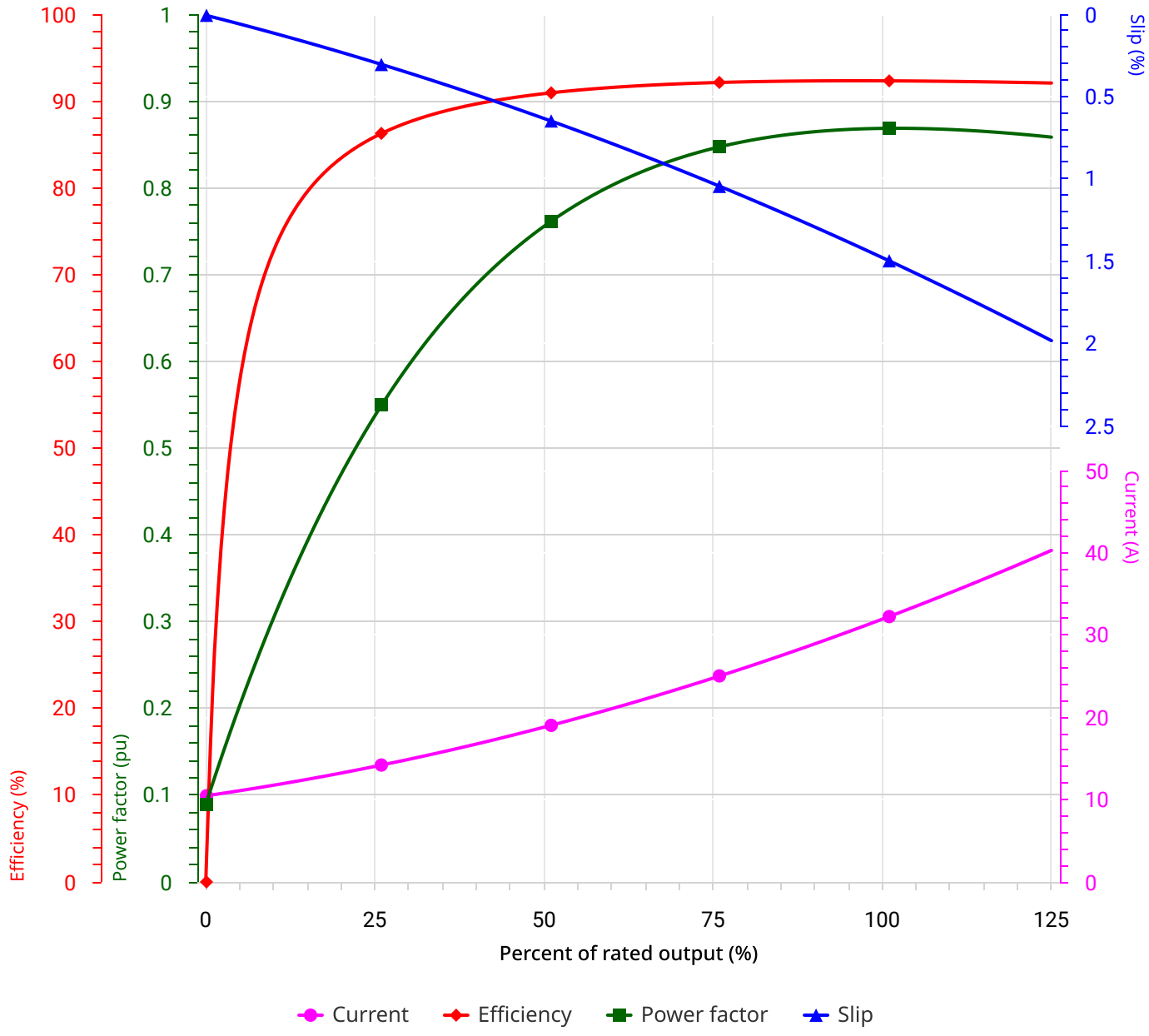
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11413120



Performance	: 25 HP (18.5 kW) 415V 50Hz 2P 284/6TS

Rated current	: 32.0 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 7.2 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 6.14 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

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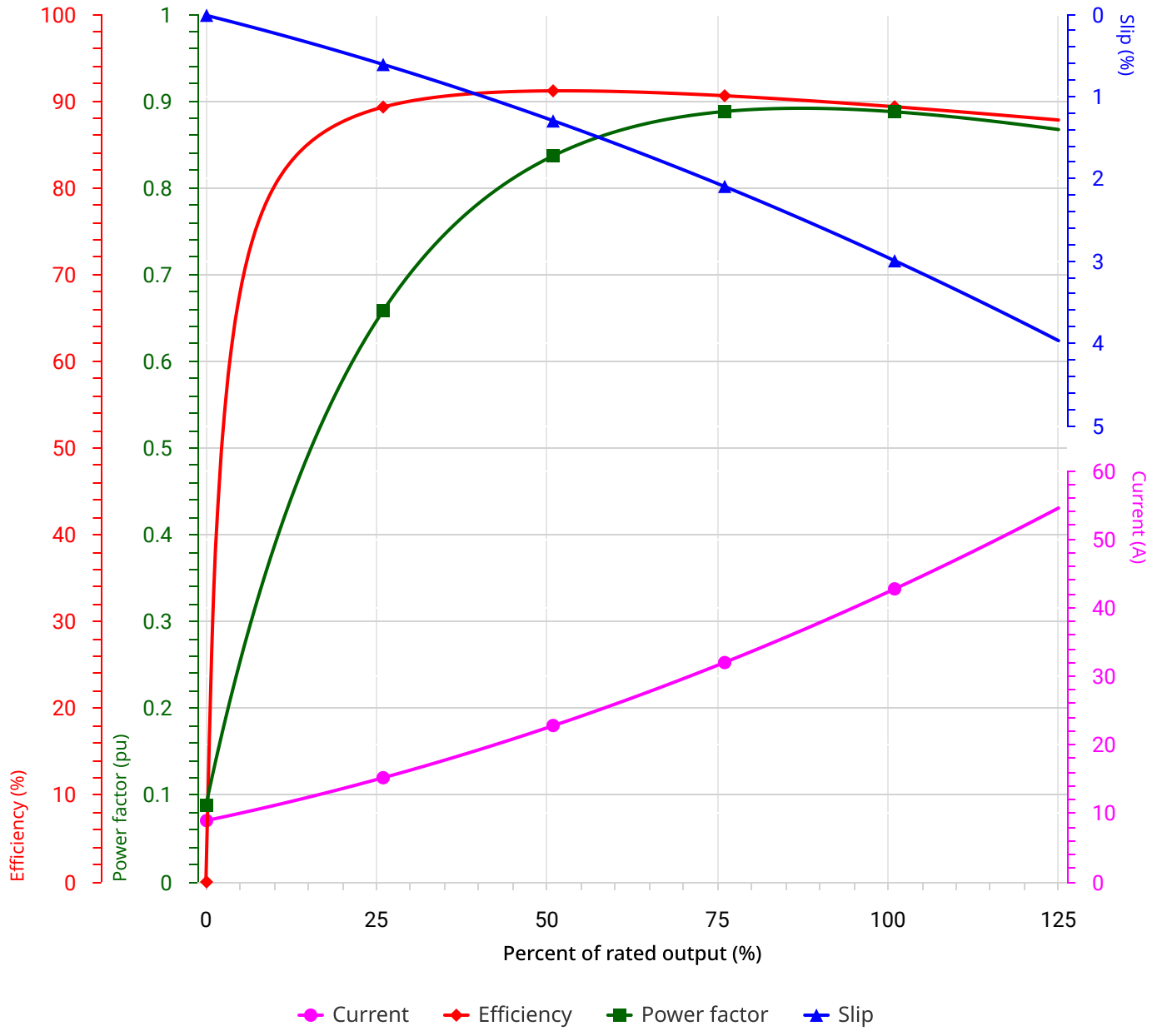
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Performance	: 30 HP (22 kW) 380V 50Hz 2P 284/6TS

Rated current	: 42.0 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 4.9 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 7.48 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2910 rpm	Design	: B

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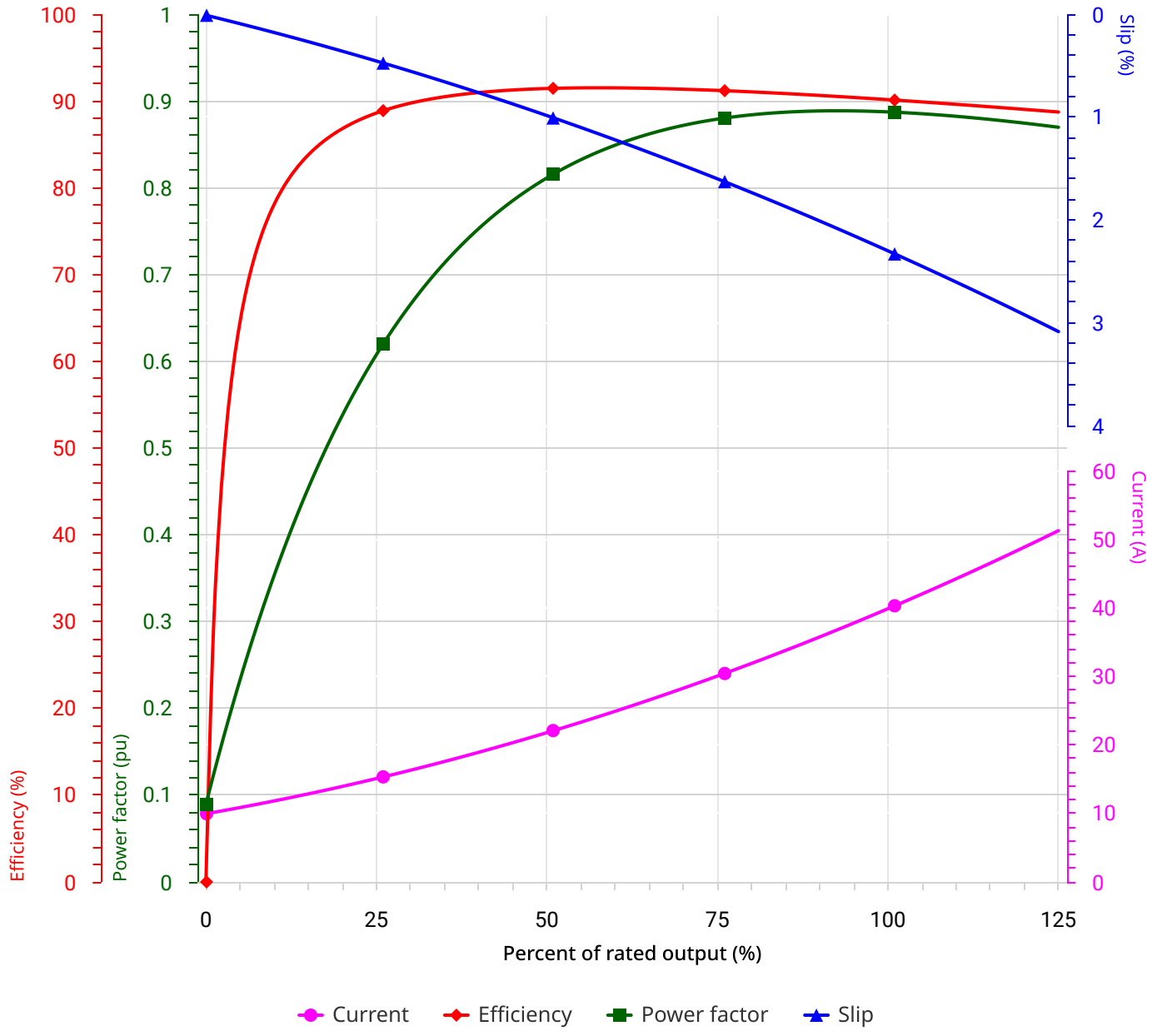
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Performance	: 30 HP (22 kW) 400V 50Hz 2P 284/6TS

Rated current	: 39.6 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 5.5 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 7.43 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2930 rpm	Design	: B

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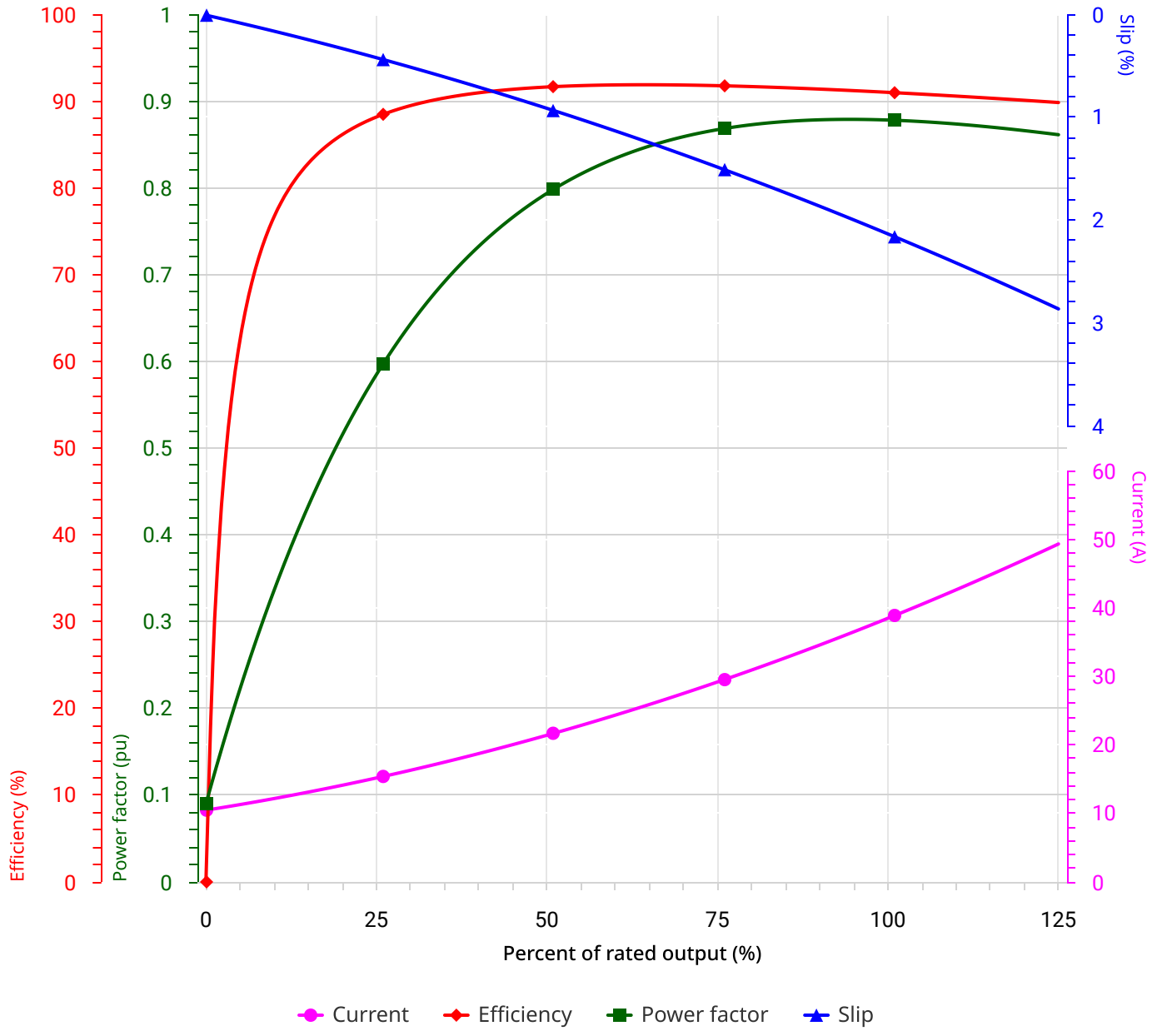
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Product code	: 11413120



Performance	: 30 HP (22 kW) 415V 50Hz 2P 284/6TS

Rated current	: 38.2 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 6.0 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 7.42 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2935 rpm	Design	: B

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