DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency - Derating
Product code	: 14605782

Frame	: 404/5HPH	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	: 500 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.5561 kgm²
Design	: B		

Output		100 HP (75 kW)	100 HP (75 kW)	75 HP (55 kW)	75 HP (55 kW)	75 HP (55 kW)
Poles		2	2	2	2	2
Frequency		60 Hz	60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	208 V	380 V	400 V	415 V
Rated current		224/112 A	243 A	99.6 A	94.6 A	92.2 A
L. R. Amperes		1456/728 A	1581 A	677 A	719 A	756 A
LRC		6.5 Code G	6.5 Code G	6.8 Code G	7.6 Code H	8.2 Code J
No load current		52.0/26.0 A	44.8 A	25.7 A	27.5 A	29.1 A
Rated speed		3545 rpm	3545 rpm	2955 rpm	2960 rpm	2965 rpm
Slip		1.53 %	1.53 %	1.50 %	1.33 %	1.17 %
Rated torque		20.5 kgfm	20.0 kgfm	18.4 kgfm	18.4 kgfm	18.4 kgfm
Locked rotor torque		240 %	240 %	250 %	280 %	300 %
Breakdown torque		260 %	260 %	280 %	310 %	330 %
Service factor		1.25	1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K
Noise level		79 dB(A)	79.0 dB(A)	74 dB(A)	74 dB(A)	74 dB(A)
Locked rotor time		14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)	10 s (hot) 18 s (cold)	10 s (hot) 18 s (cold)	10 s (hot) 18 s (cold)
Efficiency (%)	50%	93.0	93.0	93.0	93.1	93.5
	75%	94.1	94.1	93.8	93.8	94.0
	100%	94.1	94.1	94.3	94.3	94.3
Power Factor	Start	0.39	0.39	0.39	0.39	0.39
	50%	0.83	0.83	0.82	0.80	0.78
	75%	0.88	0.88	0.88	0.86	0.85
	100%	0.89	0.89	0.89	0.89	0.88
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)		5.94	5.94	5.94	5.94	5.94
P2 (0,5;1,0)		4.64	4.64	4.64	4.64	4.64
P3 (0,25;1,0)		4.38	4.38	4.38	4.38	4.38
P4 (0,9;0,5)		2.79	2.79	2.79	2.79	2.79
P5 (0,5;0,5)		1.63	1.63	1.63	1.63	1.63
P6 (0,5;0,25)		0.94	0.94	0.94	0.94	0.94
P7 (0,25;0,25)		0.54	0.54	0.54	0.54	0.54

	Drive end	Non drive end
Bearing type	6316-C3	6314-C3
Lubrication interval	2000 h	3000 h
Lubricant amount	34 g	27 g
Lubricant type	ISOFLEX NBU-15	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
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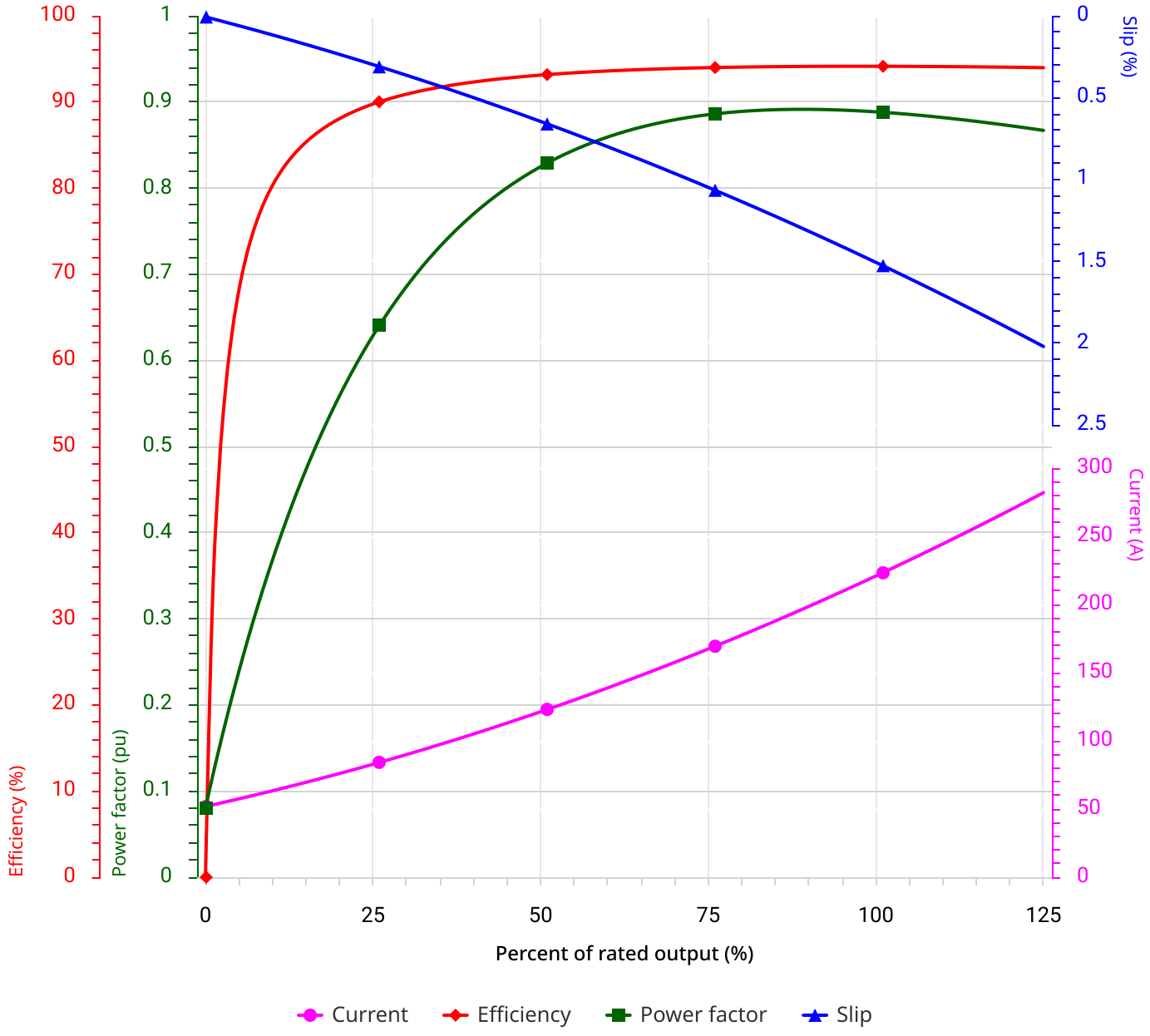

Performance	: 100 HP (75 kW) 230/460V 60Hz 2P 404/5HPH

Rated current	: 224/112 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 20.5 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3545 rpm	Design	: B

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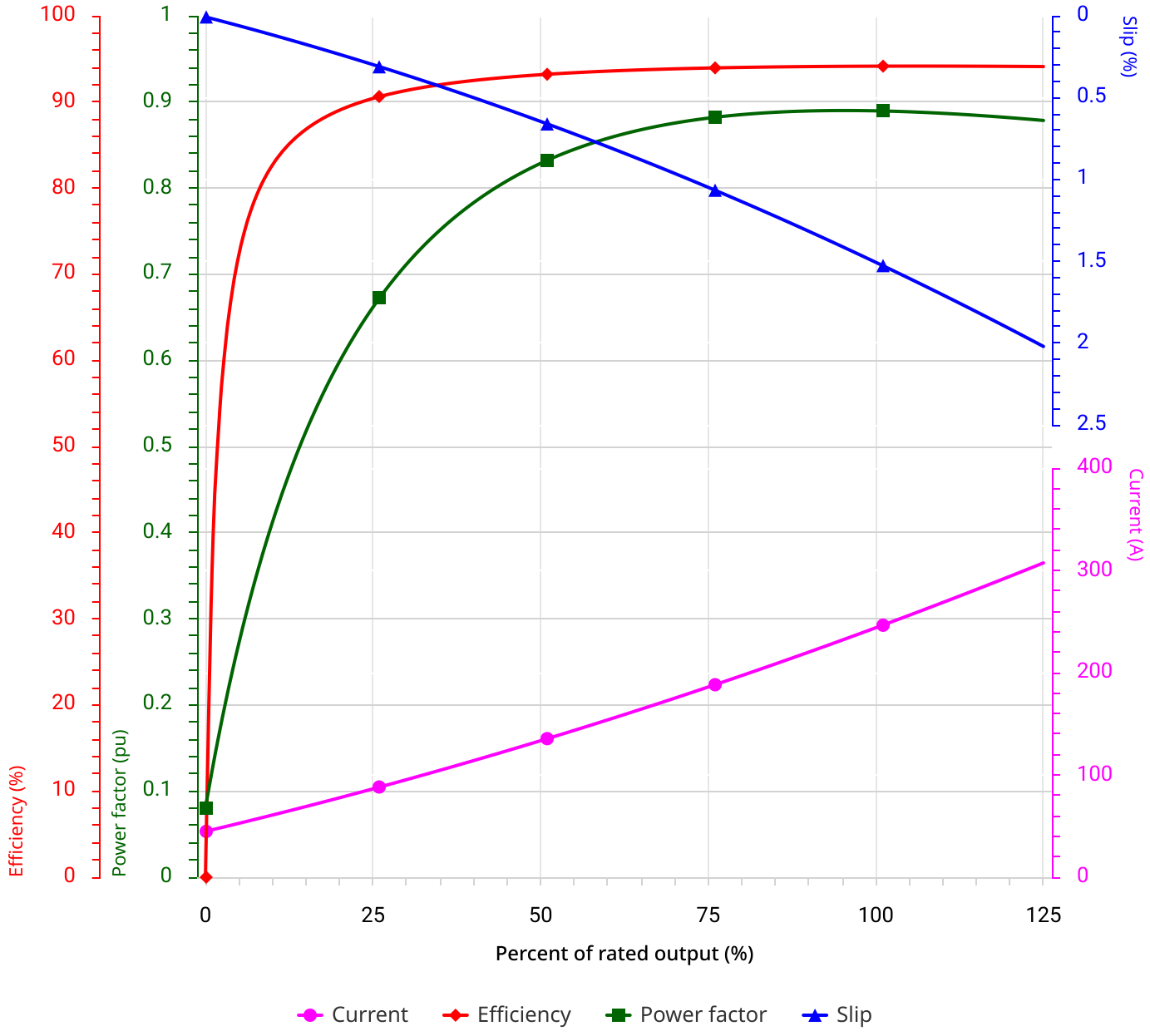

Performance	: 100 HP (75 kW) 208V 60Hz 2P 404/5HPH

Rated current	: 243 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 20.0 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3545 rpm	Design	: 00002

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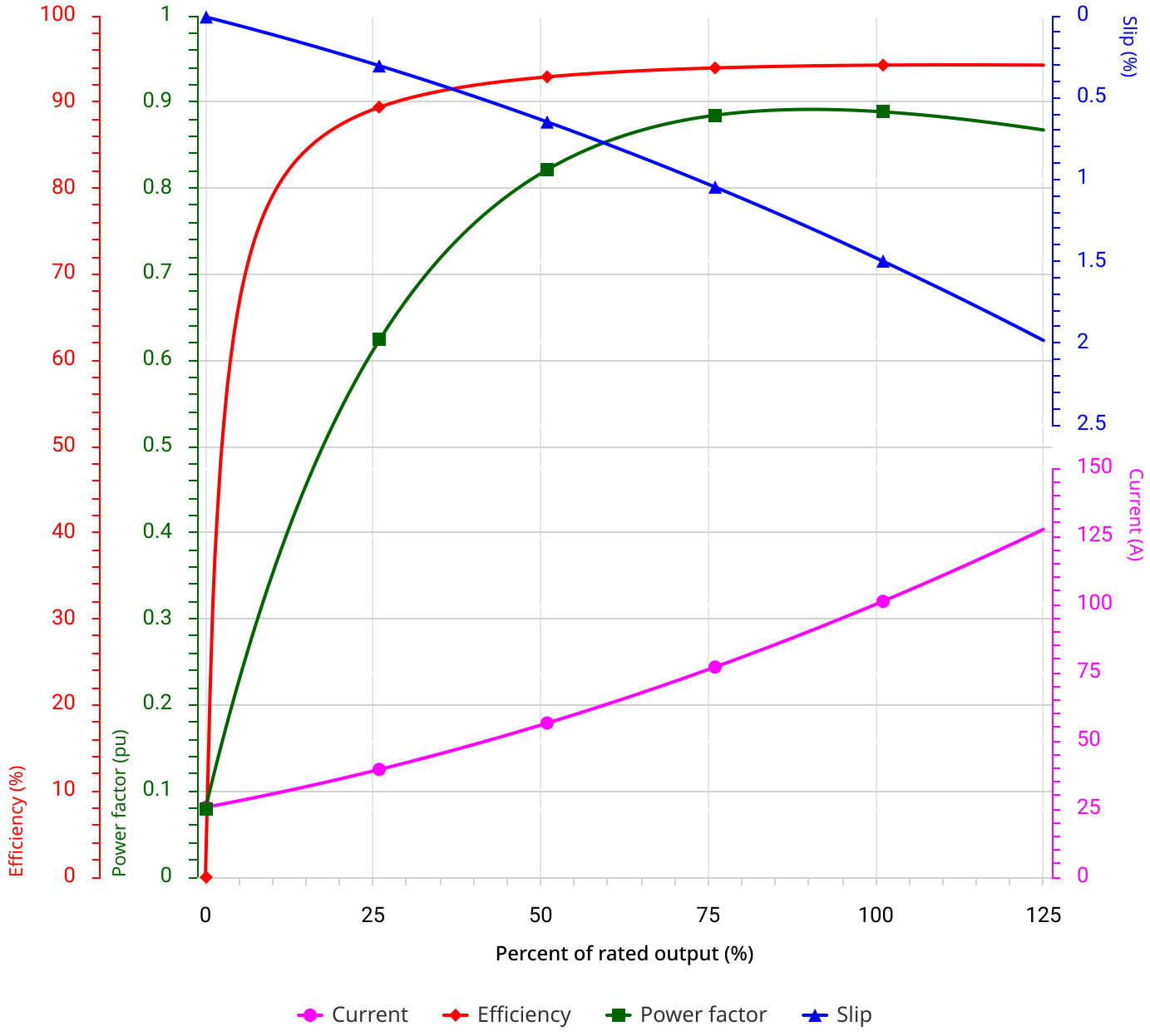

Performance	: 75 HP (55 kW) 380V 50Hz 2P 404/5HPH

Rated current	: 99.6 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.8 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 18.4 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

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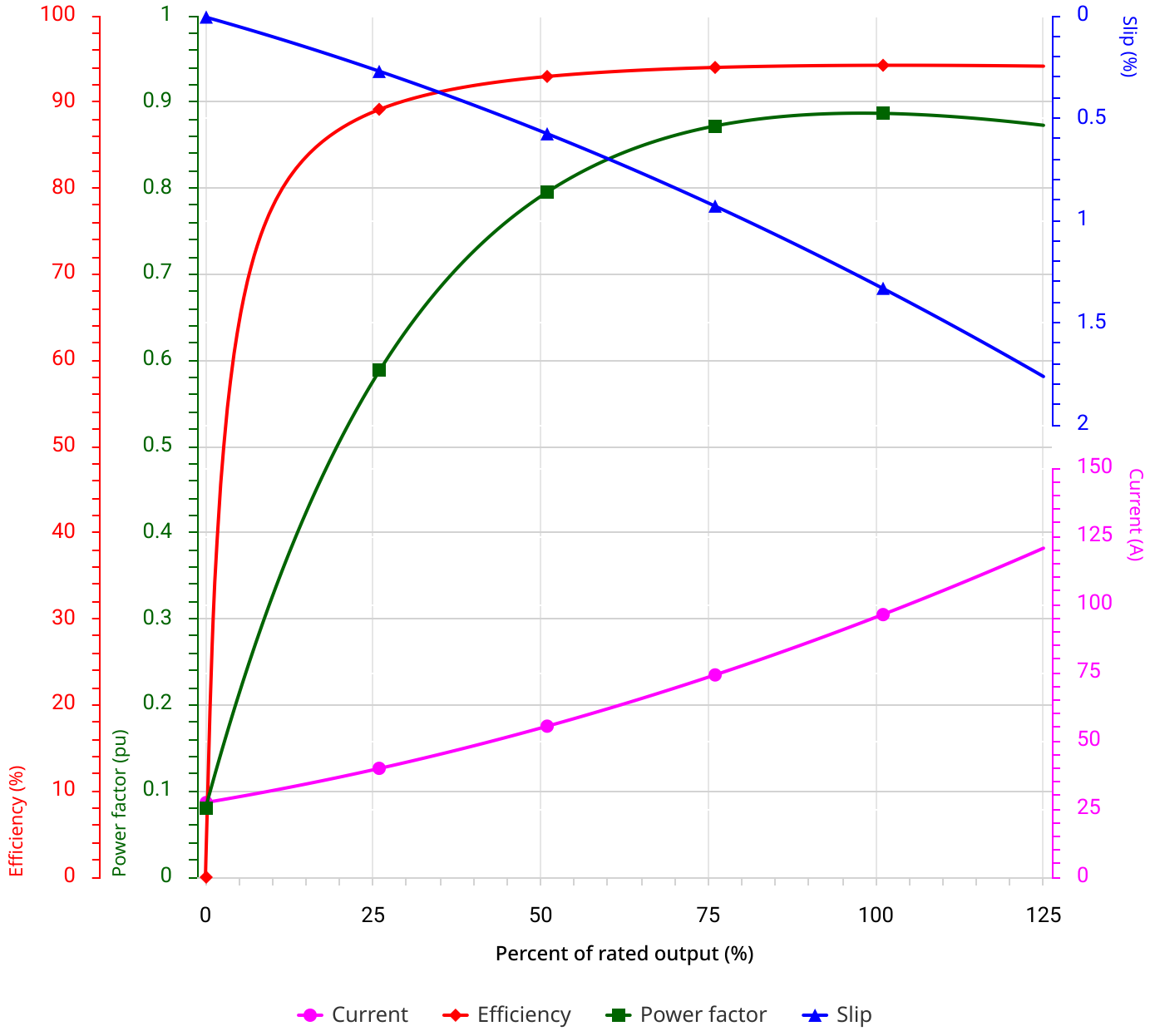

Performance	: 75 HP (55 kW) 400V 50Hz 2P 404/5HPH

Rated current	: 94.6 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 7.6 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 18.4 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

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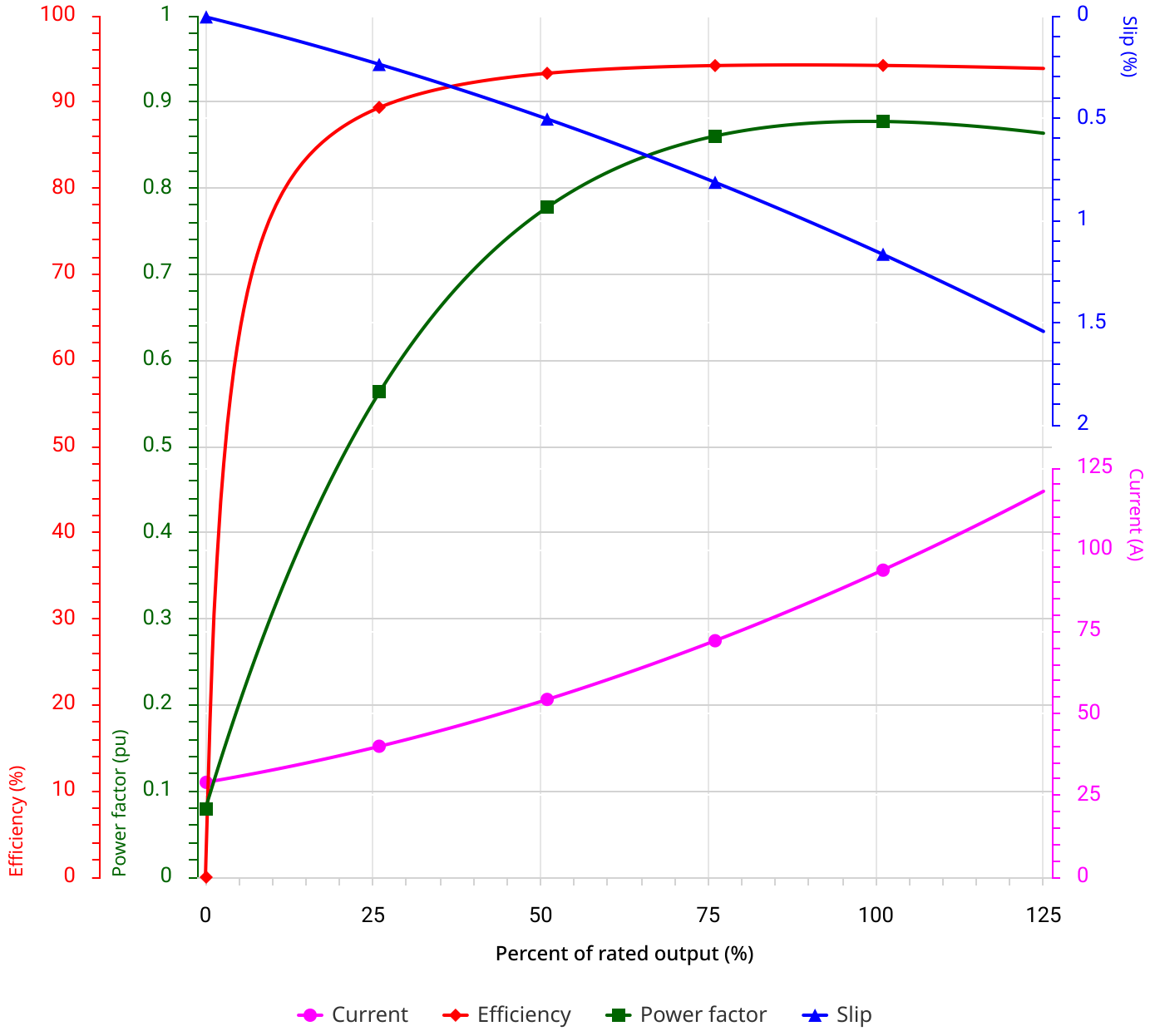

Performance	: 75 HP (55 kW) 415V 50Hz 2P 404/5HPH

Rated current	: 92.2 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 8.2 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 18.4 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

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