DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12598733

Frame	: 213/5JM	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	: 78.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0566 kgm²
Design	: B		

Output		7.5 HP (5.5 kW)	7.5 HP (5.5 kW)	7.5 HP (5.5 kW)	7.5 HP (5.5 kW)
Poles		4	4	4	4
Frequency		60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	380 V	400 V	415 V
Rated current		18.4/9.18 A	11.0 A	10.6 A	10.4 A
L. R. Amperes		130/65.2 A	61.4 A	65.7 A	69.3 A
LRC		7.1 Code H	5.6 Code F	6.2 Code G	6.7 Code H
No load current		7.80/3.90 A	3.90 A	4.10 A	4.40 A
Rated speed		1765 rpm	1455 rpm	1460 rpm	1465 rpm
Slip		1.94 %	3.00 %	2.67 %	2.33 %
Rated torque		3.08 kgfm	3.74 kgfm	3.73 kgfm	3.72 kgfm
Locked rotor torque		220 %	180 %	190 %	210 %
Breakdown torque		280 %	220 %	240 %	260 %
Service factor		1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K
Noise level		58 dB(A)	56 dB(A)	56 dB(A)	56 dB(A)
Locked rotor time		20 s (hot) 36 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)
Efficiency (%)	50%	89.5	89.5	89.5	89.5
	75%	91.0	89.5	90.2	90.2
	100%	91.7	89.6	90.2	90.2
Power Factor	Start	0.51	0.51	0.51	0.51
	50%	0.66	0.72	0.69	0.66
	75%	0.76	0.81	0.78	0.76
	100%	0.82	0.85	0.83	0.82
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		10.21	10.33	10.21	10.71
P2 (0,5;1,0)		9.02	9.12	9.02	9.46
P3 (0,25;1,0)		8.45	8.55	8.45	8.87
P4 (0,9;0,5)		4.85	4.90	4.85	5.09
P5 (0,5;0,5)		3.56	3.61	3.56	3.74
P6 (0,5;0,25)		2.38	2.40	2.38	2.49
P7 (0,25;0,25)		1.74	1.76	1.74	1.82

	Drive end	Non drive end
Bearing type	6309-Z-C3	6207-ZZ
Lubrication interval	20000 h	-
Lubricant amount	13 g	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 138 kgf
Max. compression : 216 kgf

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/09

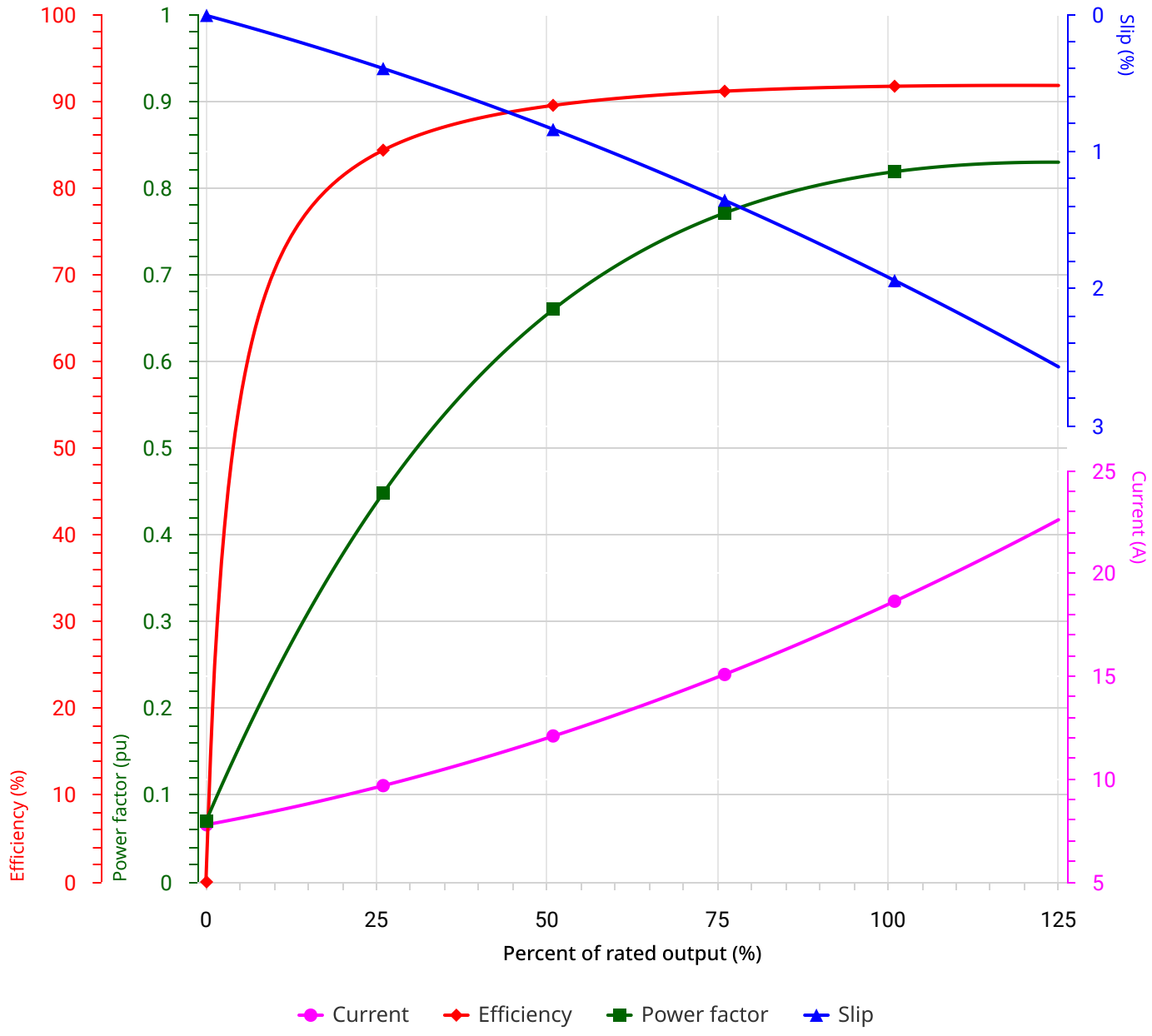
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12598733



Performance	: 7.5 HP (5.5 kW) 208/230/460V 60Hz 4P 213/5JM

Rated current	: 19.9/18.4/9.18 A	Moment of inertia (J)	: 0.0566 kgm²
LRC	: 7.1 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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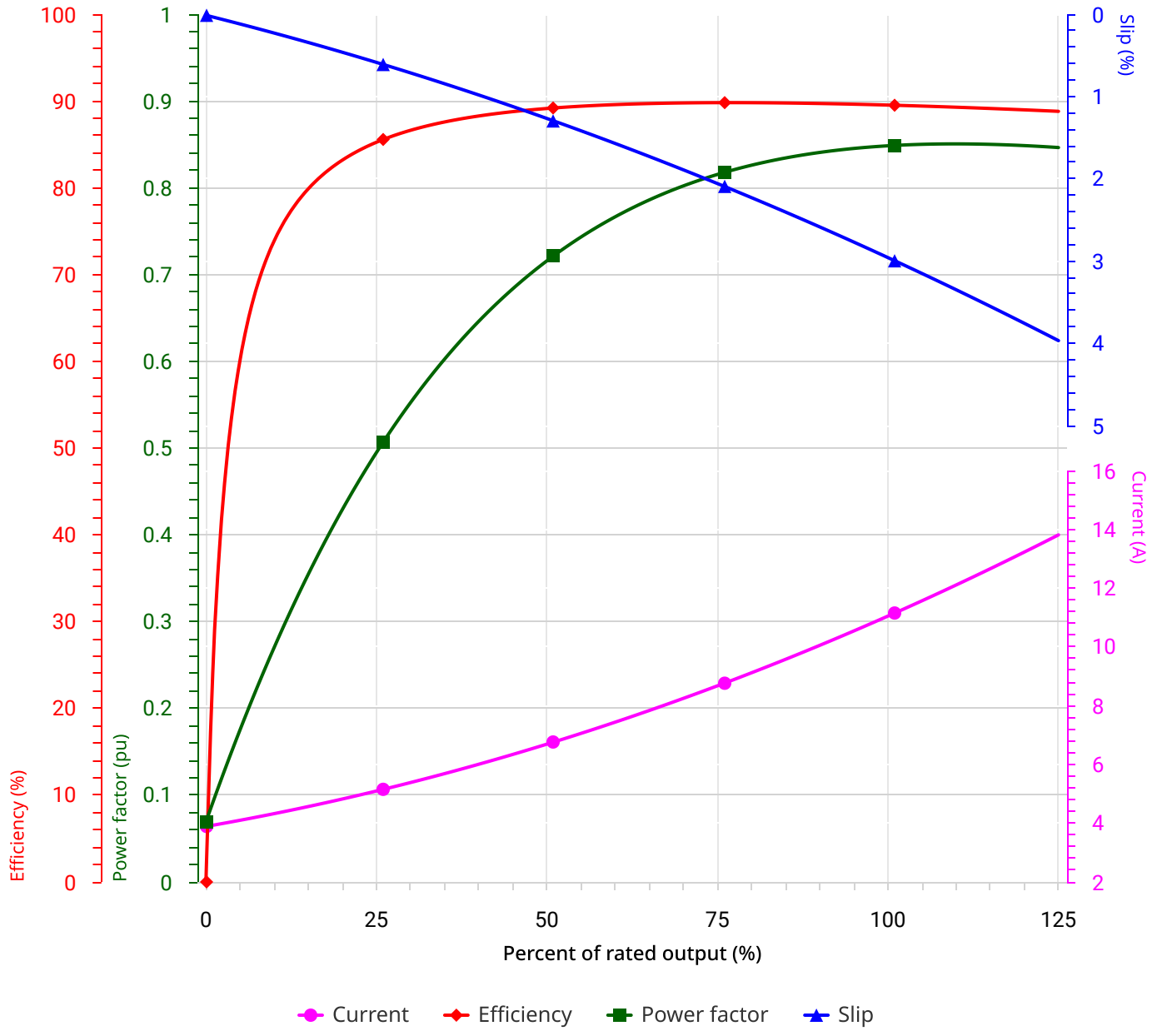
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12598733



Performance	: 7.5 HP (5.5 kW) 380V 50Hz 4P 213/5JM

Rated current	: 11.0 A	Moment of inertia (J)	: 0.0566 kgm²
LRC	: 5.6 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 3.74 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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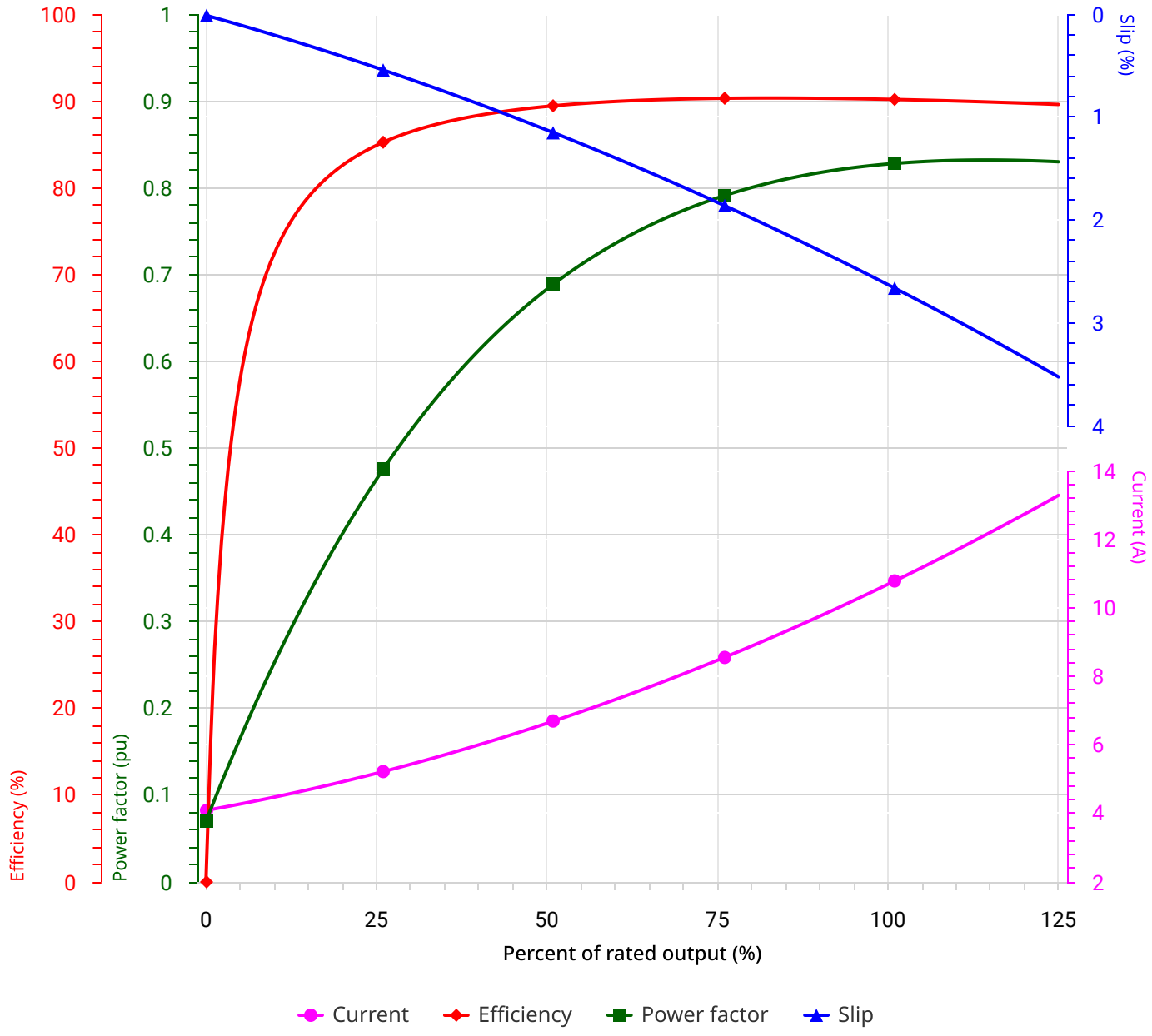
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Performance	: 7.5 HP (5.5 kW) 400V 50Hz 4P 213/5JM

Rated current	: 10.6 A	Moment of inertia (J)	: 0.0566 kgm²
LRC	: 6.2 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 3.73 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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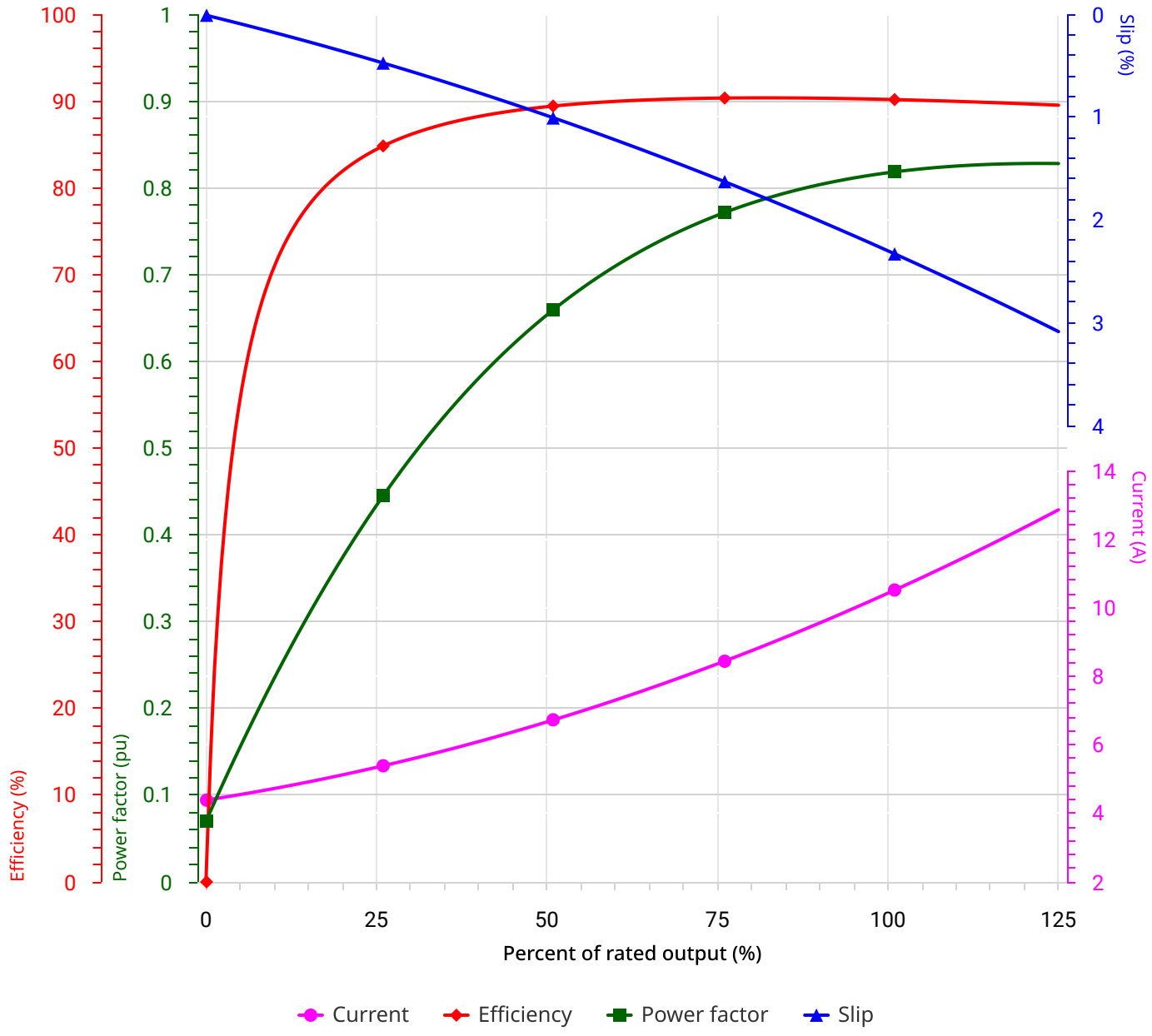
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Performance	: 7.5 HP (5.5 kW) 415V 50Hz 4P 213/5JM

Rated current	: 10.4 A	Moment of inertia (J)	: 0.0566 kgm²
LRC	: 6.7 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 3.72 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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