DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13420899

Frame	: 213/5JM	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1/B34R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 60.1 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0232 kgm²
Design	: B		

Output		7.5 HP (5.5 kW)	5.5 HP (4 kW)	5.5 HP (4 kW)	5.5 HP (4 kW)
Poles		2	2	2	2
Frequency		60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		208-230/460 V	190/380 V	220 V	220/415 V
Rated current		19.2-17.7/8.87 A	16.0/7.98 A	13.8 A	14.4/7.63 A
L. R. Amperes		135/67.4 A	120/59.8 A	103 A	124/65.6 A
LRC		7.6 Code J	7.5 Code J	7.5 Code J	8.6 Code K
No load current		7.00/3.50 A	7.00/3.50 A	6.05 A	7.55/4.00 A
Rated speed		3530 rpm	2935 rpm	2935 rpm	2945 rpm
Slip		1.94 %	2.17 %	2.17 %	1.83 %
Rated torque		1.54 kgfm	1.36 kgfm	1.00 kgfm	1.36 kgfm
Locked rotor torque		260 %	240 %	240 %	280 %
Breakdown torque		300 %	300 %	300 %	360 %
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Noise level		70 dB(A)	67 dB(A)	67.0 dB(A)	67 dB(A)
Locked rotor time		19 s (hot) 34 s (cold)	26 s (hot) 47 s (cold)	26 s (hot) 47 s (cold)	23 s (hot) 41 s (cold)
Efficiency (%)	50%	87.5	88.0	88.0	88.5
	75%	88.5	88.1	88.1	89.0
	100%	89.5	88.5	88.5	89.0
Power Factor	Start	0.56	0.59	0.59	0.59
	50%	0.72	0.70	0.70	0.62
	75%	0.82	0.80	0.80	0.74
	100%	0.87	0.86	0.86	0.82
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		12.93	14.64	14.64	14.51
P2 (0,5;1,0)		11.95	13.53	13.53	13.41
P3 (0,25;1,0)		11.23	12.72	12.72	12.61
P4 (0,9;0,5)		5.76	6.52	6.52	6.46
P5 (0,5;0,5)		4.10	4.65	4.65	4.60
P6 (0,5;0,25)		2.49	2.82	2.82	2.80
P7 (0,25;0,25)		1.81	2.05	2.05	2.03

	Drive end	Non drive end
Bearing type	6209-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/14

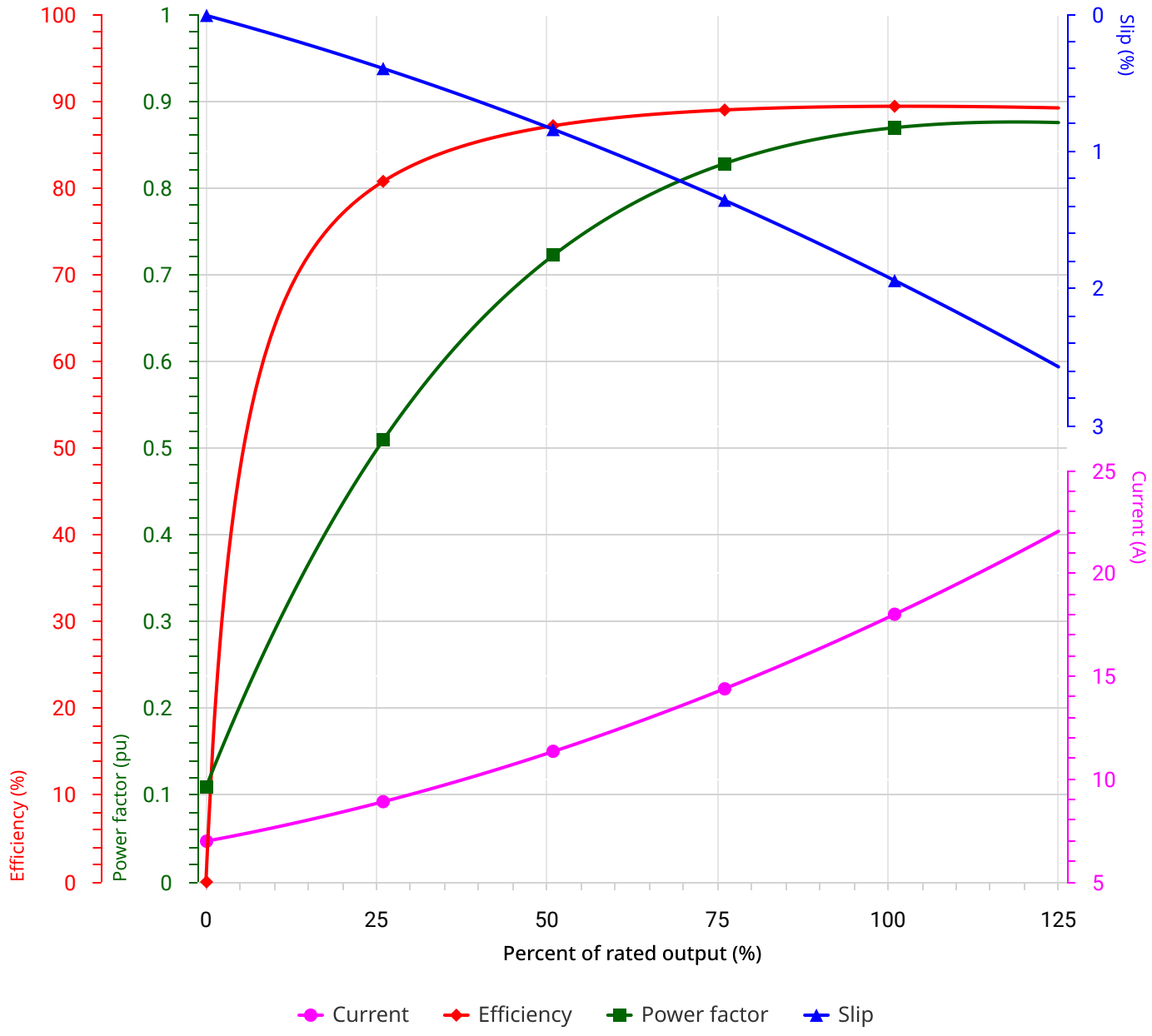
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LOAD PERFORMANCE CURVE

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Product code	: 13420899



Performance	: 7.5 HP (5.5 kW) 208/230/460V 60Hz 2P 213/5JM

Rated current	: 19.2/17.7/8.87 A	Moment of inertia (J)	: 0.0232 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.54 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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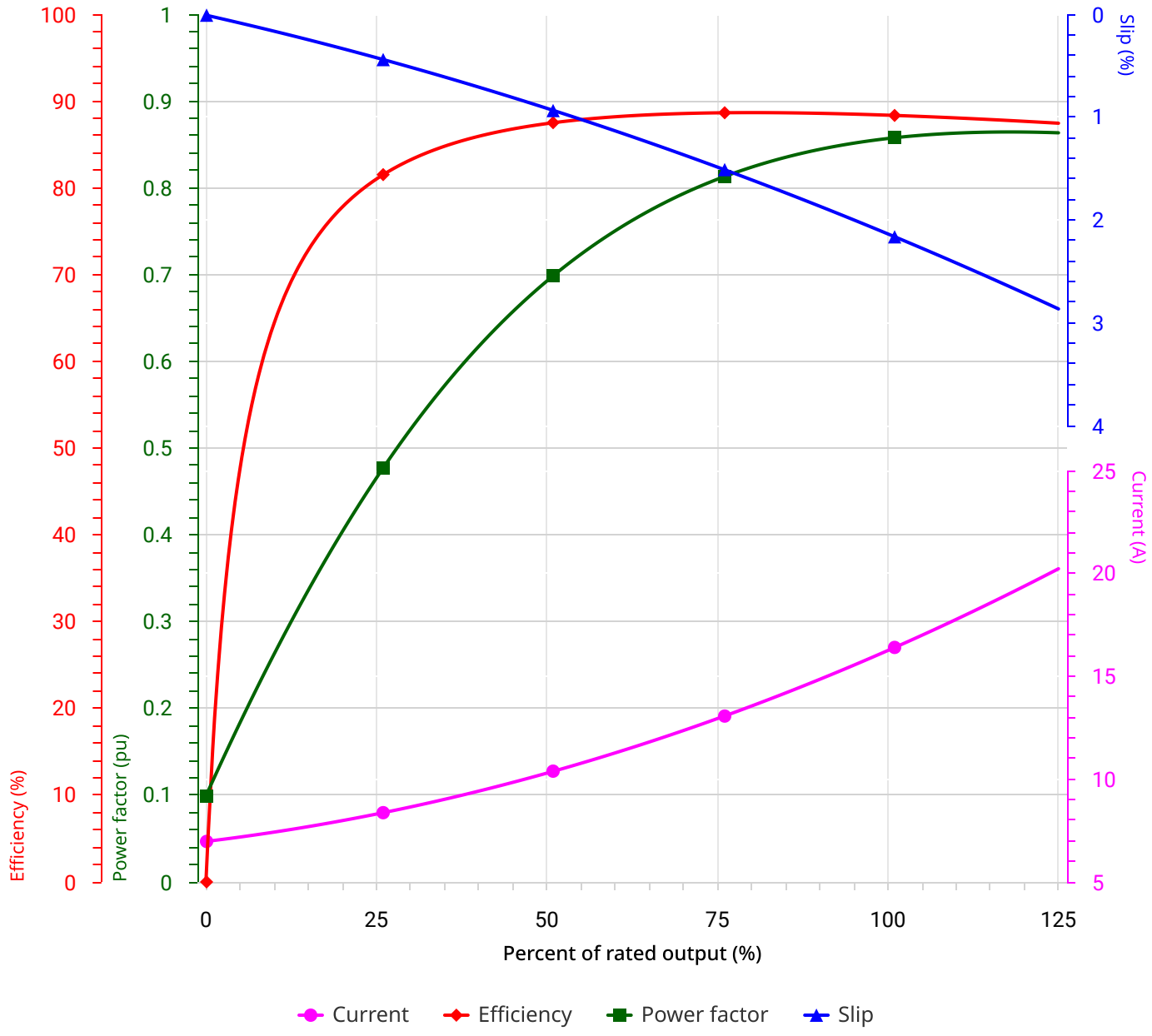
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13420899



Performance	: 5.5 HP (4 kW) 190/380V 50Hz 2P 213/5JM

Rated current	: 16.0/7.98 A	Moment of inertia (J)	: 0.0232 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.36 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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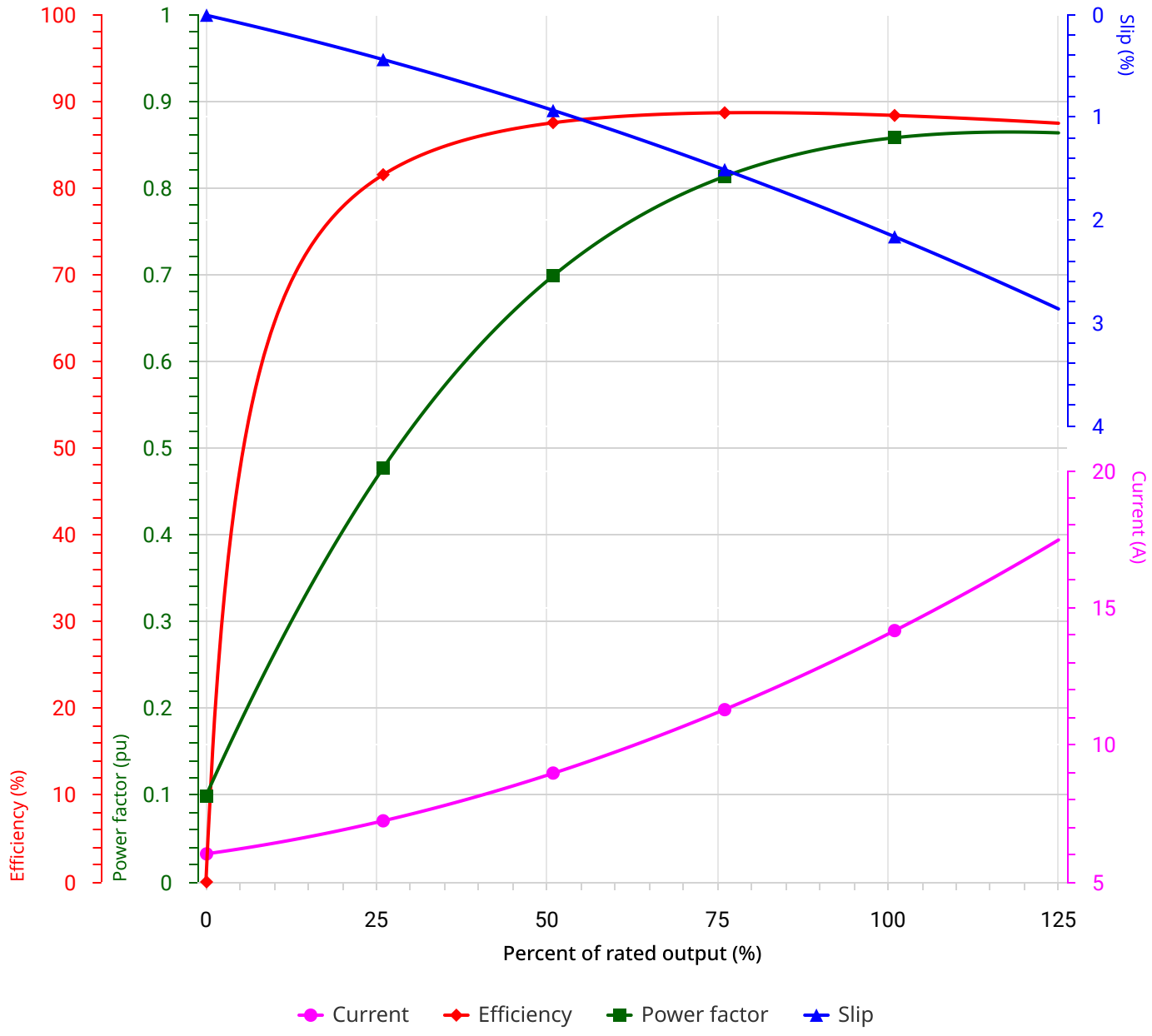
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Three Phase Induction Motor - Squirrel Cage

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Performance	: 5.5 HP (4 kW) 220V 50Hz 2P 213/5JM

Rated current	: 13.8 A	Moment of inertia (J)	: 0.0232 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.00 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: 00002

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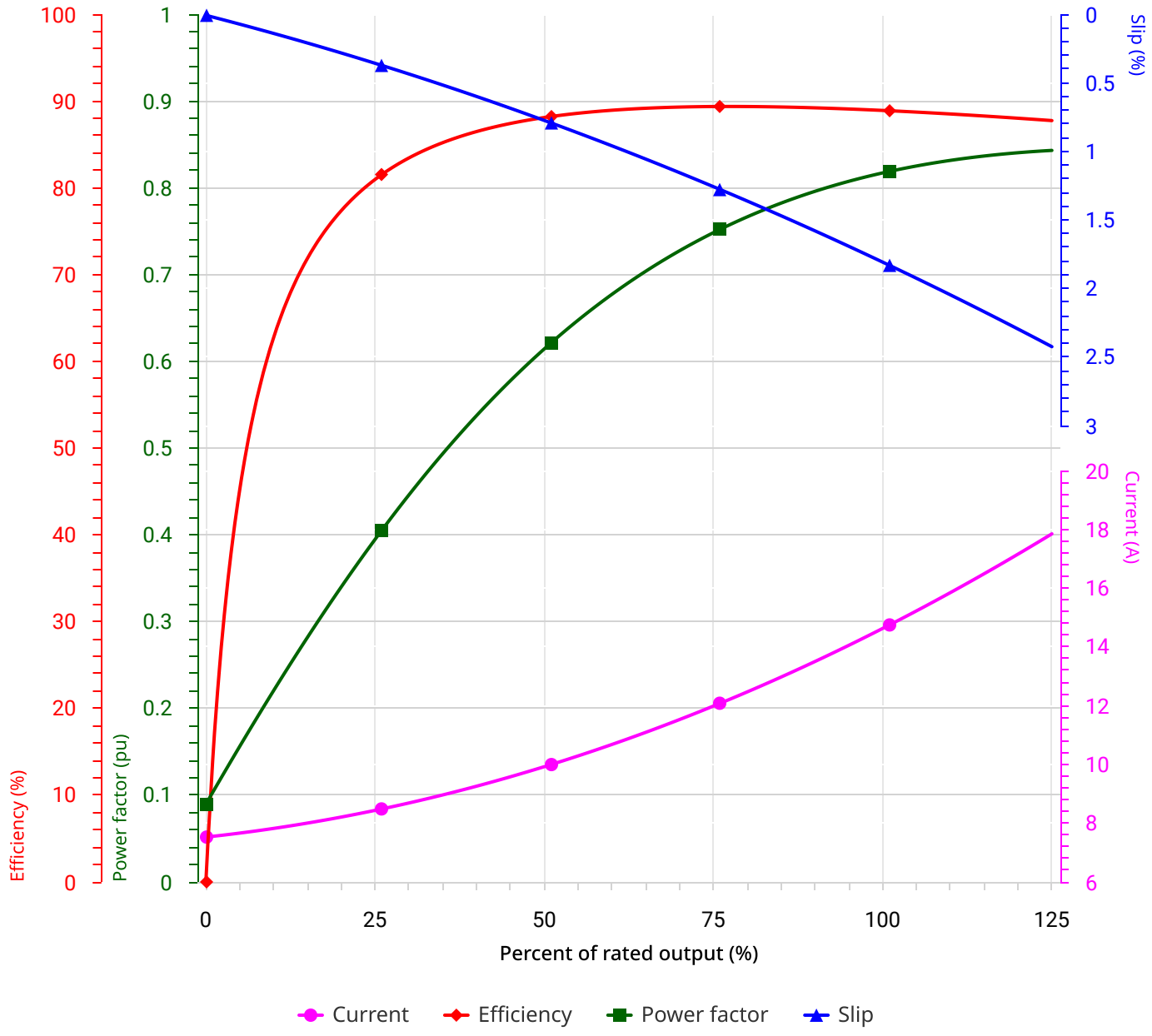
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Performance	: 5.5 HP (4 kW) 220/415V 50Hz 2P 213/5JM

Rated current	: 14.4/7.63 A	Moment of inertia (J)	: 0.0232 kgm²
LRC	: 8.6 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.36 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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