DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 12751144

Frame	: 182/4T	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1/B3R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 31.7 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0077 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		19.2-17.9/8.97 A	16.0/8.02 A	13.9 A	14.9/7.90 A
L. R. Amperes		133/66.4 A	128/64.2 A	111 A	134/71.1 A
LRC		7.4 Code H	8.0 Code J	8.0 Code J	9.0 Code L
No load current		7.80/3.90 A	7.60/3.80 A	6.56 A	9.05/4.80 A
Rated speed		3500 rpm	2915 rpm	2915 rpm	2930 rpm
Slip		2.78 %	2.83 %	2.83 %	2.33 %
Rated torque		1.56 kgfm	1.37 kgfm	1.00 kgfm	1.36 kgfm
Locked rotor torque		200 %	210 %	210 %	250 %
Breakdown torque		300 %	320 %	320 %	400 %
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Noise level		65 dB(A)	63 dB(A)	63.0 dB(A)	63 dB(A)
Locked rotor time		11 s (hot) 20 s (cold)	11 s (hot) 20 s (cold)	11 s (hot) 20 s (cold)	10 s (hot) 18 s (cold)
Efficiency (%)	50%	88.5	87.0	87.0	86.0
	75%	88.5	87.9	87.9	87.4
	100%	88.5	88.1	88.1	88.1
Power Factor	Start	0.56	0.57	0.57	0.58
	50%	0.72	0.68	0.68	0.60
	75%	0.82	0.80	0.80	0.71
	100%	0.87	0.86	0.86	0.8
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		13.05	12.56	12.56	12.83
P2 (0,5;1,0)		10.87	10.47	10.47	10.69
P3 (0,25;1,0)		10.37	9.98	9.98	10.19
P4 (0,9;0,5)		7.60	7.32	7.32	7.47
P5 (0,5;0,5)		5.13	4.94	4.94	5.04
P6 (0,5;0,25)		3.99	3.84	3.84	3.92
P7 (0,25;0,25)		2.81	2.71	2.71	2.77

	Drive end	Non drive end
Bearing type	6206-ZZ	6205-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/22

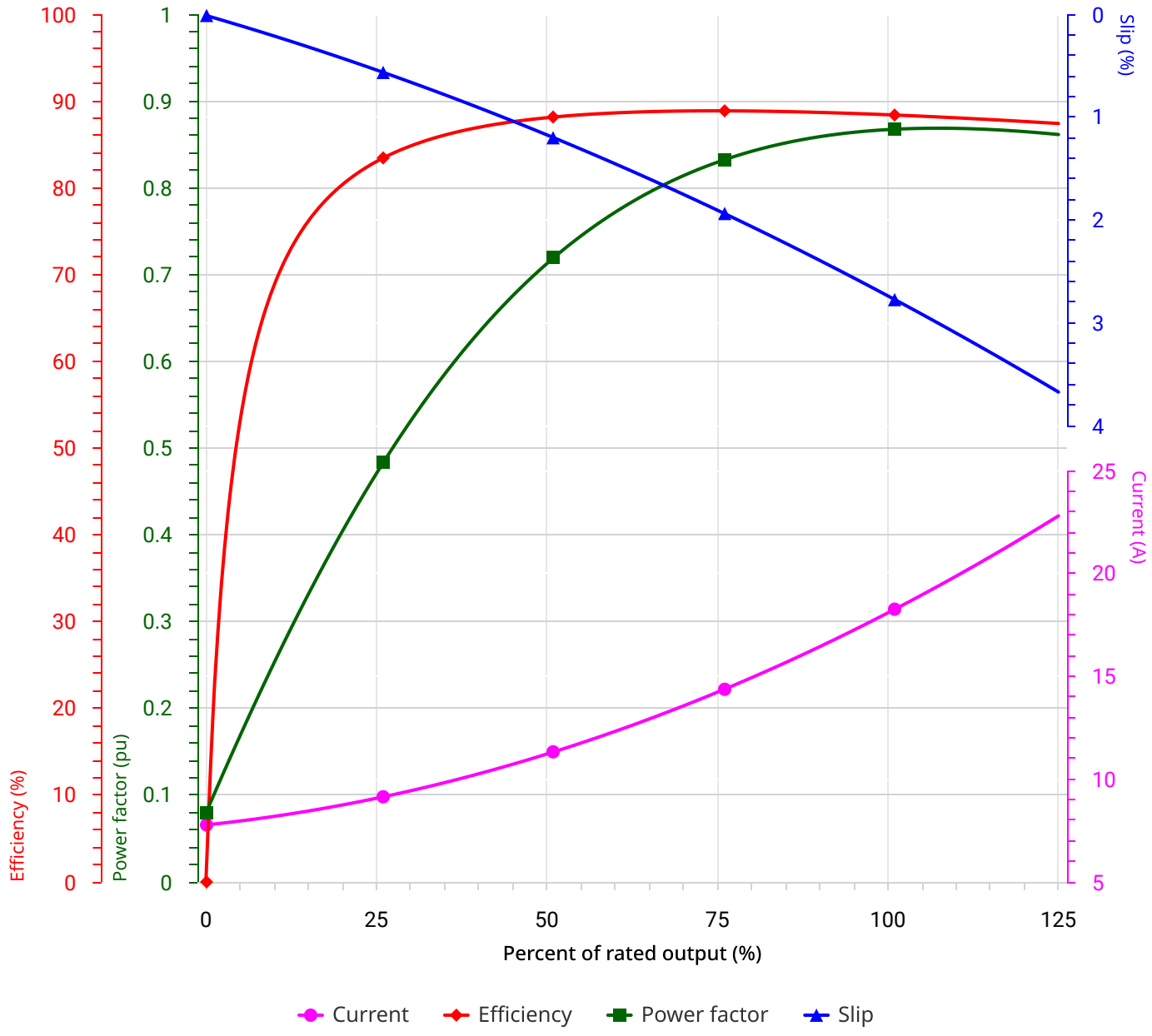
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LOAD PERFORMANCE CURVE

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Customer	:
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Product code	: 12751144



Performance	: 7.5 HP (5.5 kW) 208/230/460V 60Hz 2P 182/4T

Rated current	: 19.2/17.9/8.97 A	Moment of inertia (J)	: 0.0077 kgm²
LRC	: 7.4 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.56 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm	Design	: B

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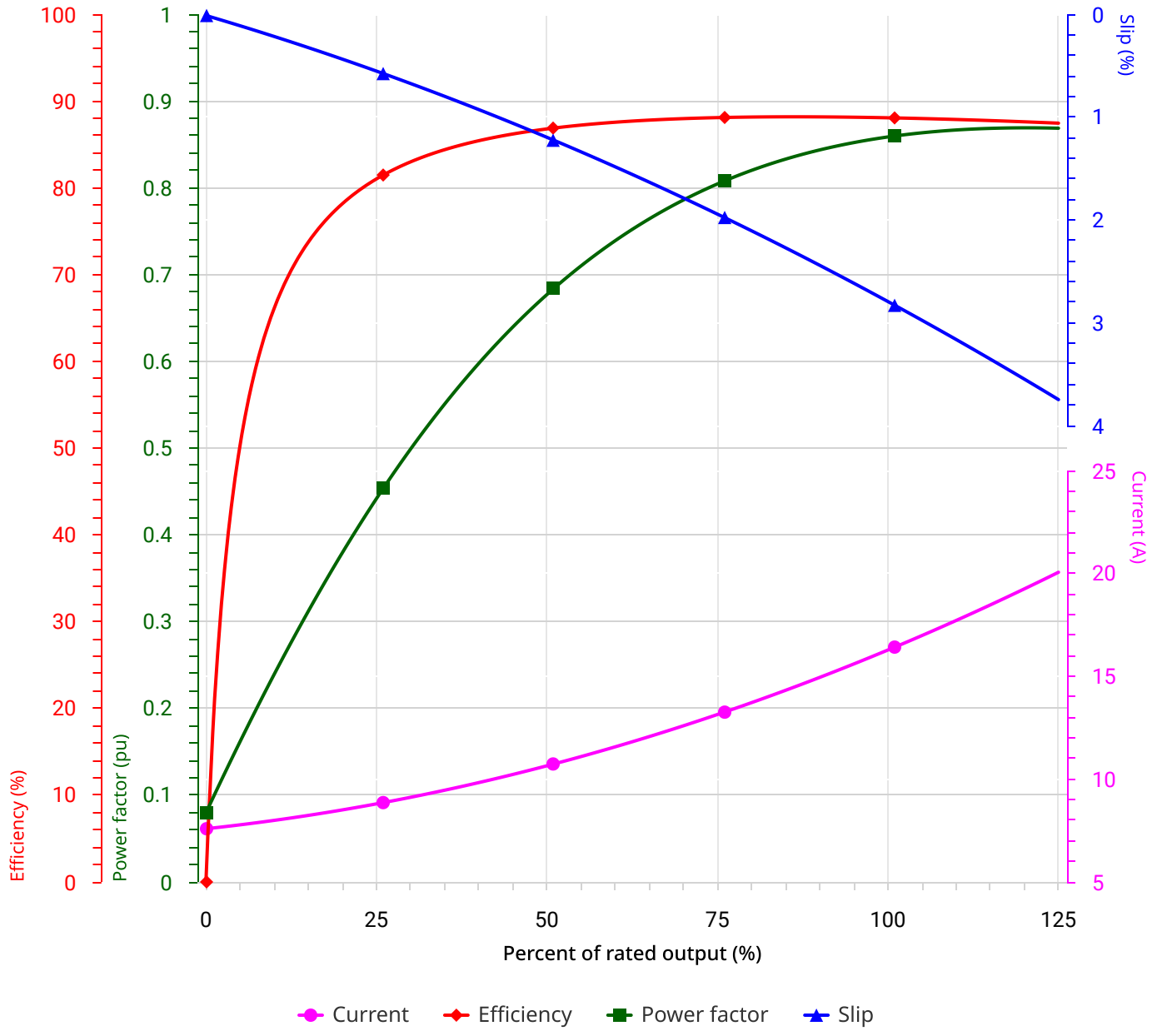
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 12751144



Performance	: 5.5 HP (4 kW) 190/380V 50Hz 2P 182/4T

Rated current	: 16.0/8.02 A	Moment of inertia (J)	: 0.0077 kgm²
LRC	: 8.0 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.37 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: B

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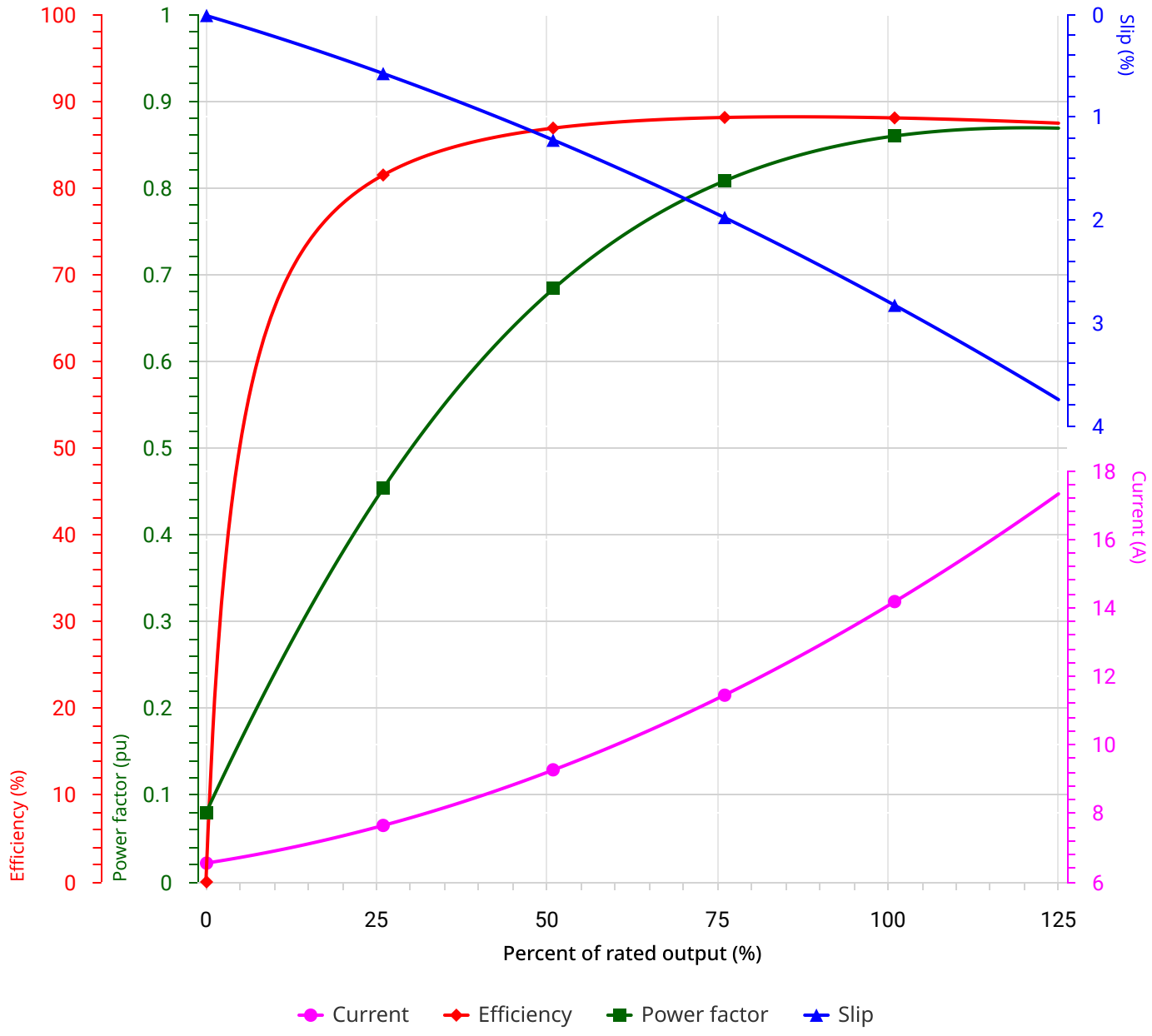
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 12751144



Performance	: 5.5 HP (4 kW) 220V 50Hz 2P 182/4T

Rated current	: 13.9 A	Moment of inertia (J)	: 0.0077 kgm²
LRC	: 8.0 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.00 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: 00002

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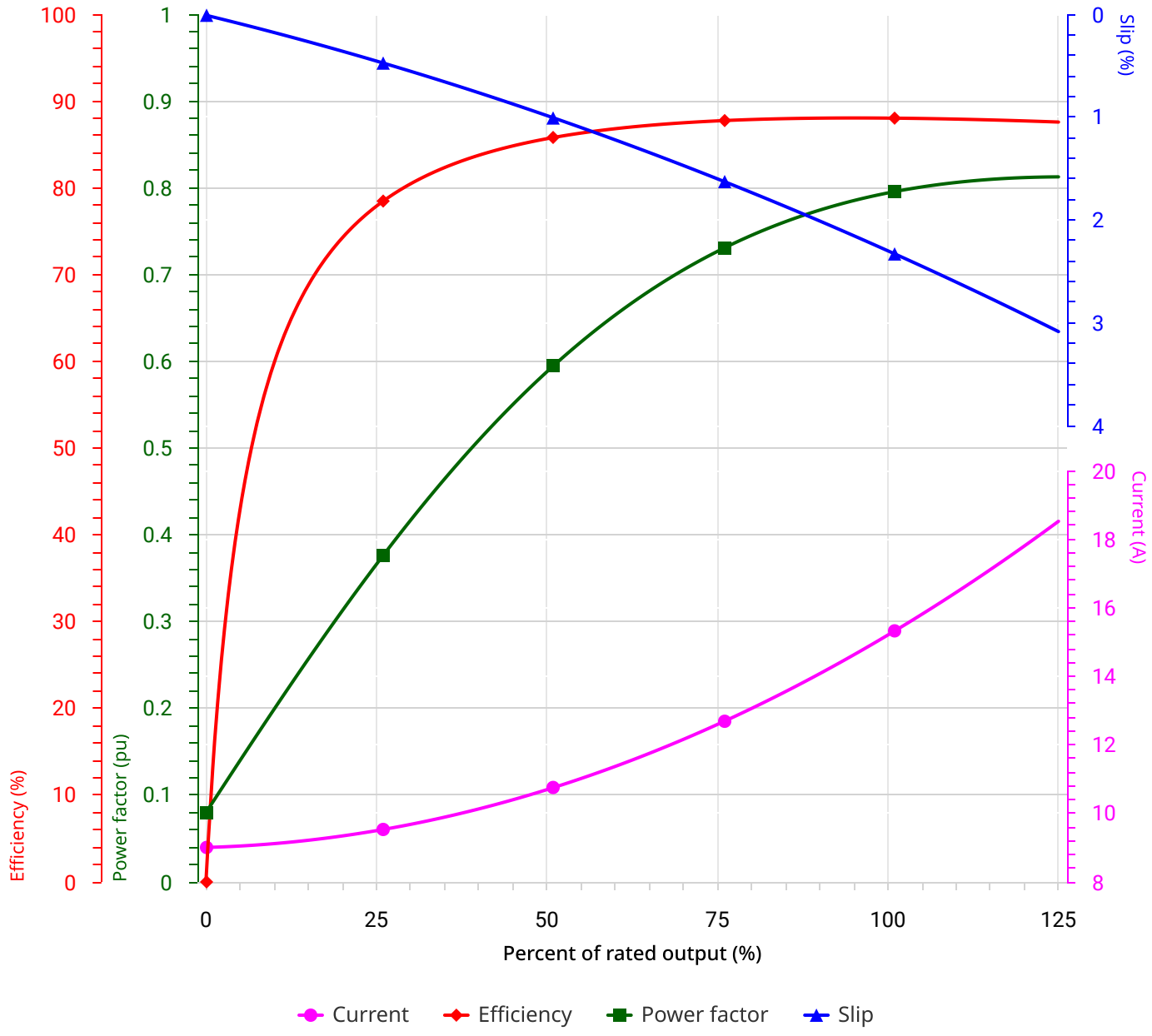
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Three Phase Induction Motor - Squirrel Cage

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Performance	: 5.5 HP (4 kW) 220/415V 50Hz 2P 182/4T

Rated current	: 14.9/7.90 A	Moment of inertia (J)	: 0.0077 kgm²
LRC	: 9.0 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 1.36 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B

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