DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - ODP - Premium Efficiency (DOE) Jet Pump - Forma C Derating
Product code	: 14156820

Frame	: 56C	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1/B14R(D)
Duty cycle	: S1	Rotation	: Counter clockwise
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 16.7 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0049 kgm²
Design	: A		

Output		2 HP (1.5 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 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		5.35-4.84/2.42 A	4.44/2.22 A	3.83 A	4.02/2.13 A
L. R. Amperes		43.1/21.5 A	30.2/15.1 A	26.1 A	30.9/16.4 A
LRC		8.9 Code K	6.8 Code H	6.8 Code H	7.7 Code J
No load current		1.84/0.920 A	1.68/0.840 A	1.45 A	1.83/0.970 A
Rated speed		3510 rpm	2910 rpm	2910 rpm	2925 rpm
Slip		2.50 %	3.00 %	3.00 %	2.50 %
Rated torque		0.414 kgfm	0.374 kgfm	0 kgfm	0.372 kgfm
Locked rotor torque		220 %	250 %	250 %	300 %
Breakdown torque		330 %	310 %	310 %	380 %
Service factor		1.20	1.20	1.15	1.20
Temperature rise		80 K	80 K	80 K	80 K
Noise level		62 dB(A)	60 dB(A)	60.0 dB(A)	60 dB(A)
Locked rotor time		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%	84.0	82.4	82.4	81.2
	75%	85.5	83.5	83.5	83.3
	100%	85.5	82.7	82.7	82.7
Power Factor	Start	0.67	0.72	0.72	0.73
	50%	0.77	0.76	0.76	0.68
	75%	0.86	0.86	0.86	0.80
	100%	0.91	0.91	0.91	0.87
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		19.50	23.08	23.08	23.87
P2 (0,5;1,0)		17.90	21.18	21.18	21.91
P3 (0,25;1,0)		16.15	19.11	19.11	19.77
P4 (0,9;0,5)		9.05	10.71	10.71	11.08
P5 (0,5;0,5)		6.12	7.24	7.24	7.49
P6 (0,5;0,25)		3.82	4.52	4.52	4.68
P7 (0,25;0,25)		2.59	3.07	3.07	3.17

	Drive end	Non drive end
Bearing type	6203-2RS	6202-2RS
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 37 kgf
Max. compression : 53 kgf

Notes:

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

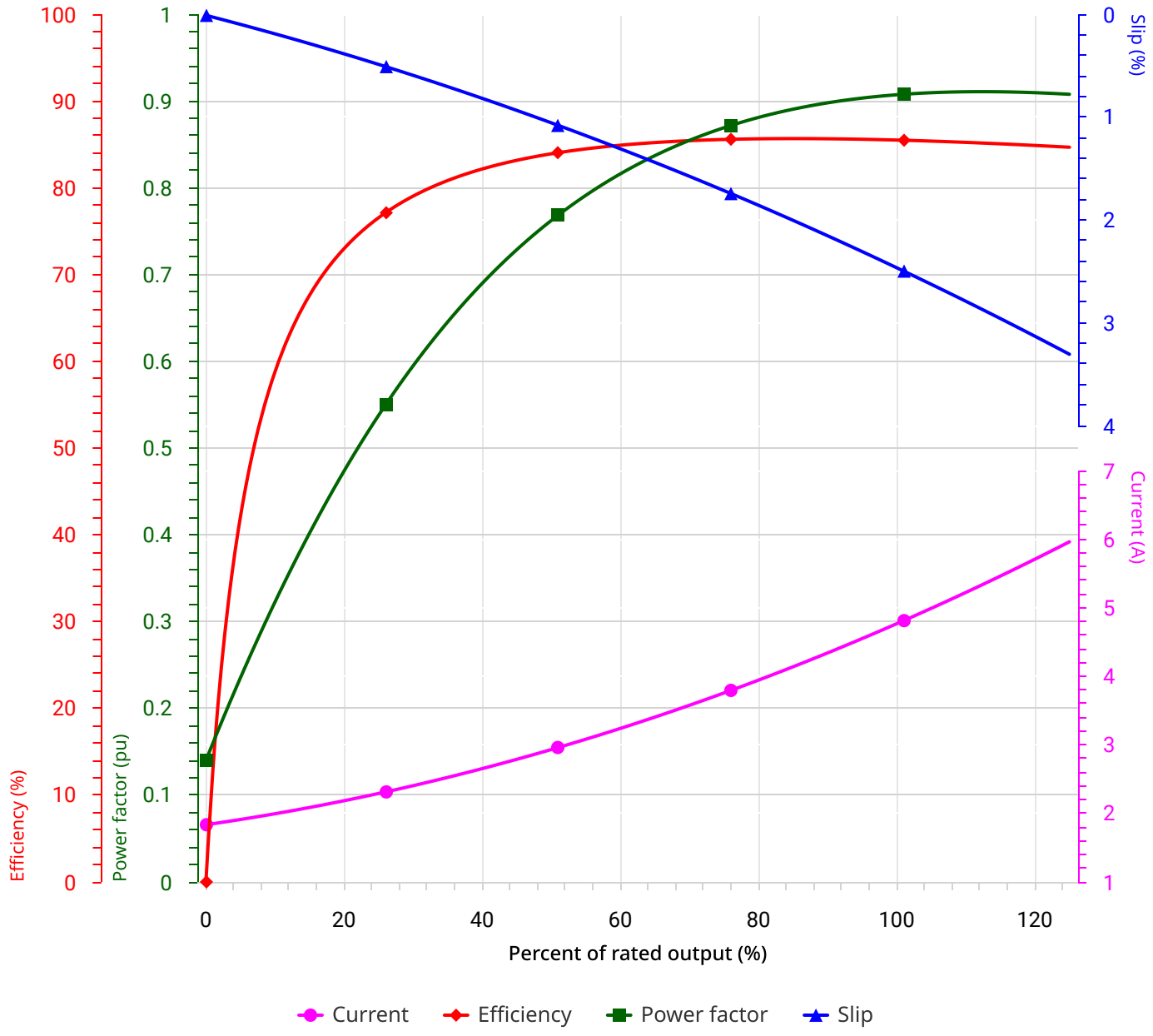
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LOAD PERFORMANCE CURVE

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Performance	: 2 HP (1.5 kW) 208/230/460V 60Hz 2P 56C

Rated current	: 5.35/4.84/2.42 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 8.9 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.414 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.20
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: A

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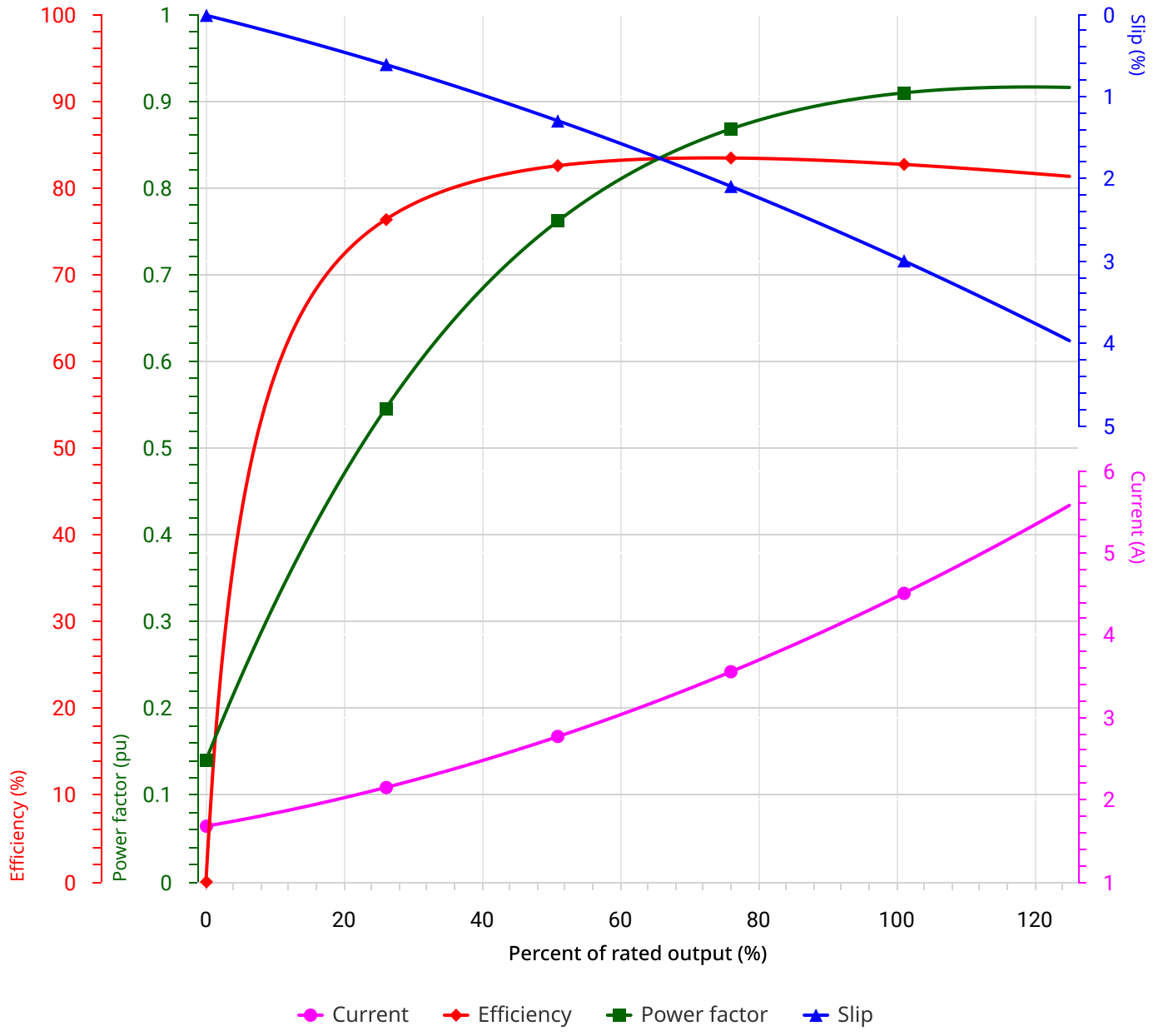
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Premium Efficiency (DOE) Jet Pump - Forma C Derating
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Performance	: 1.5 HP (1.1 kW) 190/380V 50Hz 2P 56C

Rated current	: 4.44/2.22 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 6.8 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 0.374 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.20
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: A

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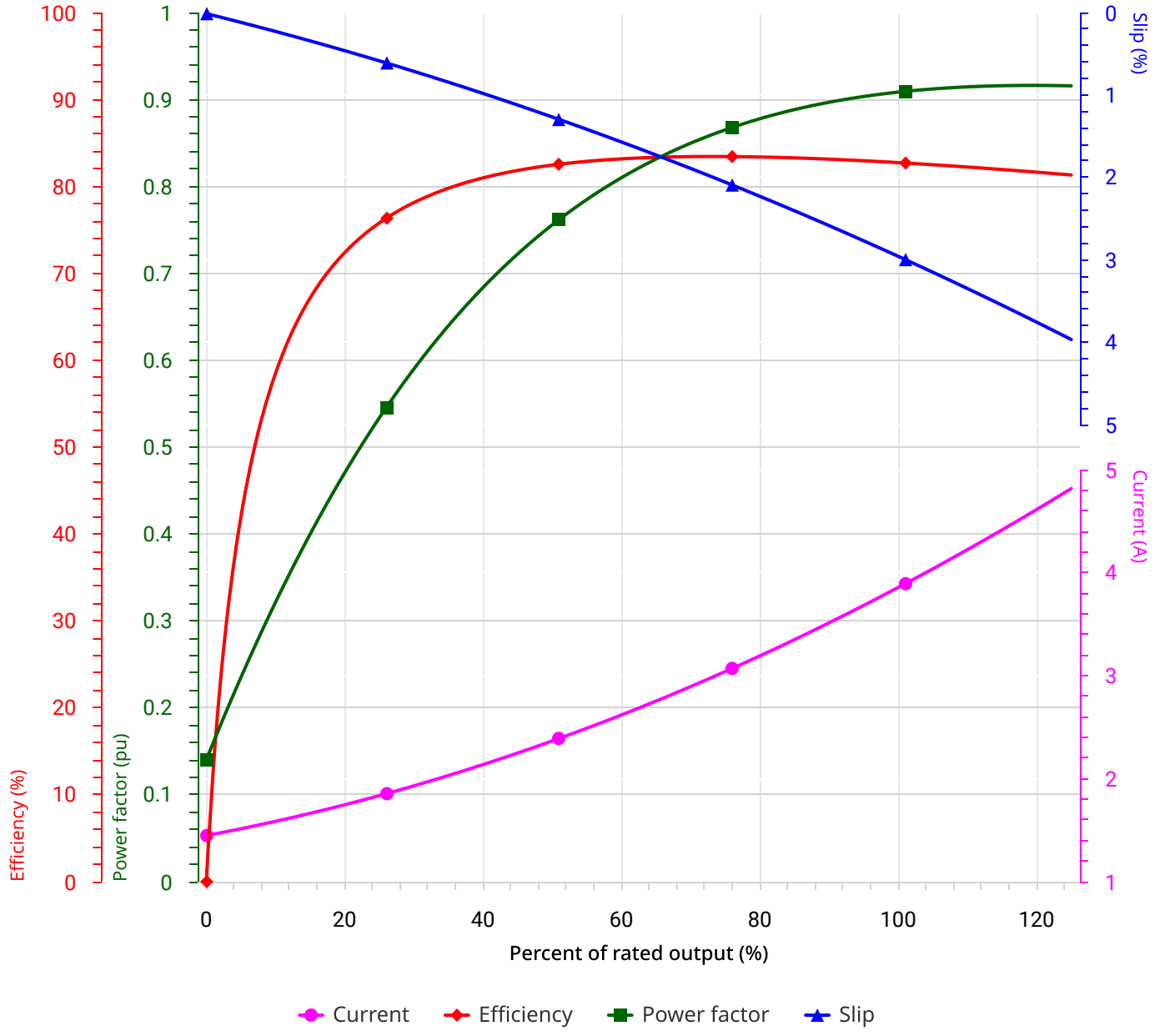
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Performance	: 1.5 HP (1.1 kW) 220V 50Hz 2P 56C

Rated current	: 3.83 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 6.8 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: 00001

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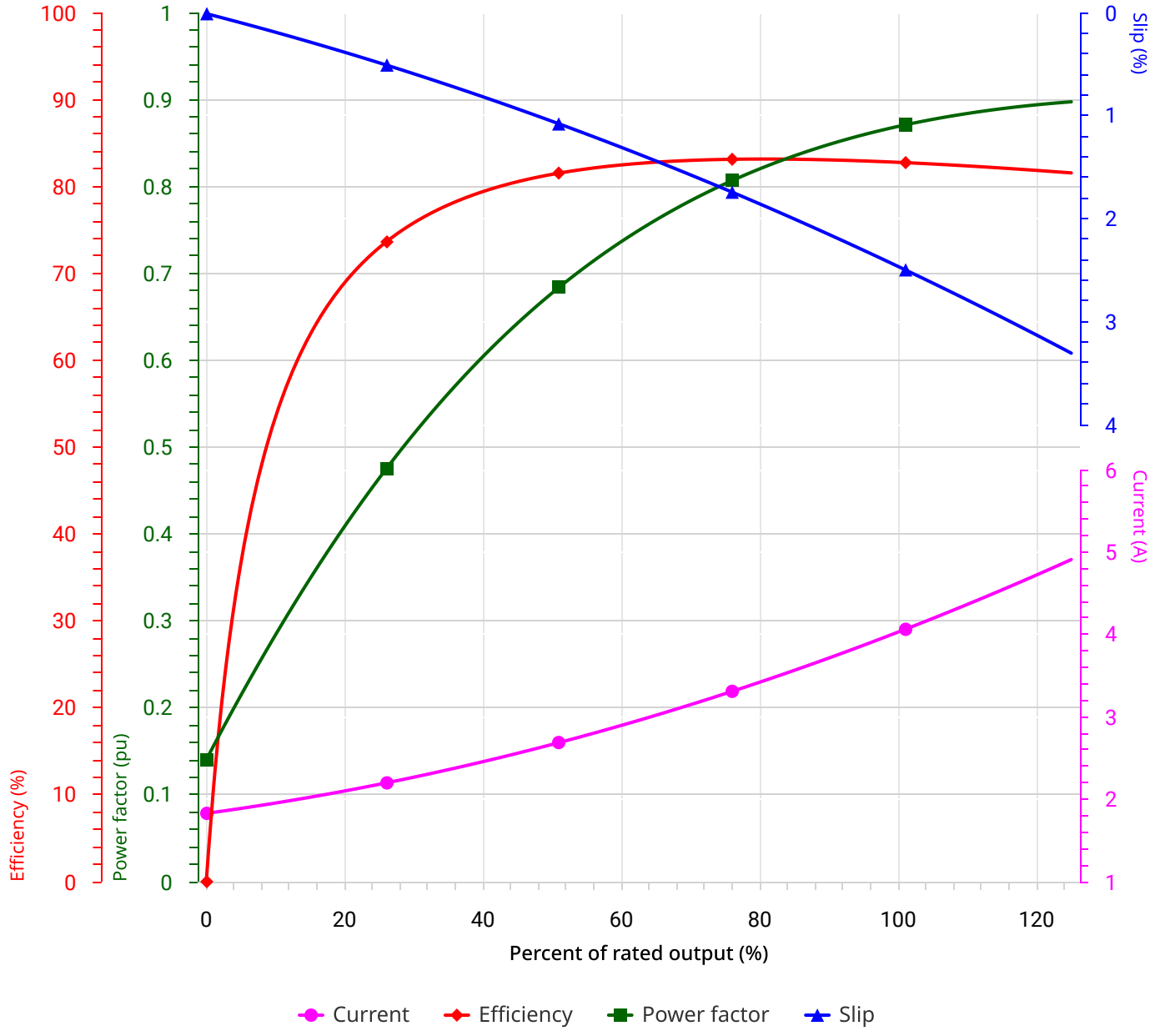
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Performance	: 1.5 HP (1.1 kW) 220/415V 50Hz 2P 56C		
Rated current	: 4.02/2.13 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 7.7 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.372 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.20
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2925 rpm	Design	: A

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