DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 12636472

Frame	: 254/6T	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	: 96.7 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0939 kgm²
Design	: B		

Output		20 HP (15 kW)	20 HP (15 kW)	20 HP (15 kW)	20 HP (15 kW)
Poles		4	4	4	4
Frequency		60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		208-230/460 V	380 V	190/220 V	415 V
Rated current		55.3-50.0/25.0 A	29.9 A	59.8/51.6 A	28.1 A
L. R. Amperes		315/158 A	155 A	311/269 A	174 A
LRC		6.3 Code G	5.2 Code F	5.2 Code F	6.2 Code G
No load current		22.9/11.4 A	11.2 A	22.4/19.4 A	13.5 A
Rated speed		1770 rpm	1460 rpm	1460 rpm	1465 rpm
Slip		1.67 %	2.67 %	2.67 %	2.33 %
Rated torque		8.20 kgfm	9.94 kgfm	7.00 kgfm	9.91 kgfm
Locked rotor torque		240 %	180 %	180 %	220 %
Breakdown torque		290 %	220 %	220 %	270 %
Service factor		1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K
Noise level		64 dB(A)	62 dB(A)	62.0 dB(A)	62 dB(A)
Locked rotor time		15 s (hot) 27 s (cold)	0 s (hot) 0 s (cold)	0 s (hot) 0 s (cold)	0 s (hot) 0 s (cold)
Efficiency (%)	50%	92.4	91.8	91.8	90.9
	75%	92.4	91.2	91.2	91.3
	100%	93.0	89.7	89.7	90.5
Power Factor	Start	0.51	0.53	0.53	0.53
	50%	0.63	0.72	0.72	0.64
	75%	0.74	0.82	0.82	0.76
	100%	0.81	0.85	0.85	0.82
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		0.00	0.00	0.00	0.00
P2 (0,5;1,0)		0.00	0.00	0.00	0.00
P3 (0,25;1,0)		0.00	0.00	0.00	0.00
P4 (0,9;0,5)		0.00	0.00	0.00	0.00
P5 (0,5;0,5)		0.00	0.00	0.00	0.00
P6 (0,5;0,25)		0.00	0.00	0.00	0.00
P7 (0,25;0,25)		0.00	0.00	0.00	0.00

	Drive end	Non drive end
Bearing type	6309-Z-C3	6208-Z-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	8 g
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/13

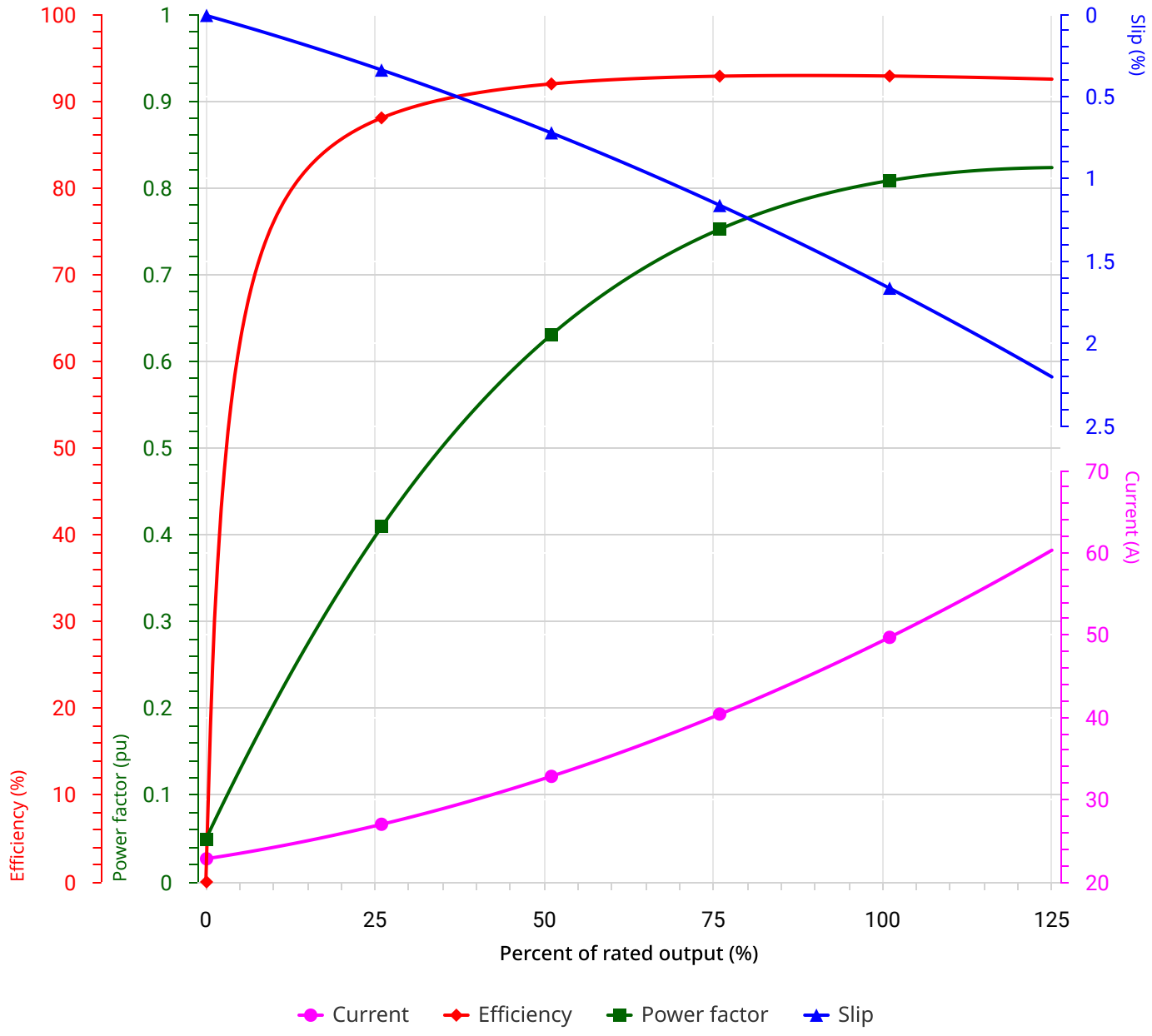
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Performance	: 20 HP (15 kW) 208/230/460V 60Hz 4P 254/6T

Rated current	: 55.3/50.0/25.0 A	Moment of inertia (J)	: 0.0939 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 8.20 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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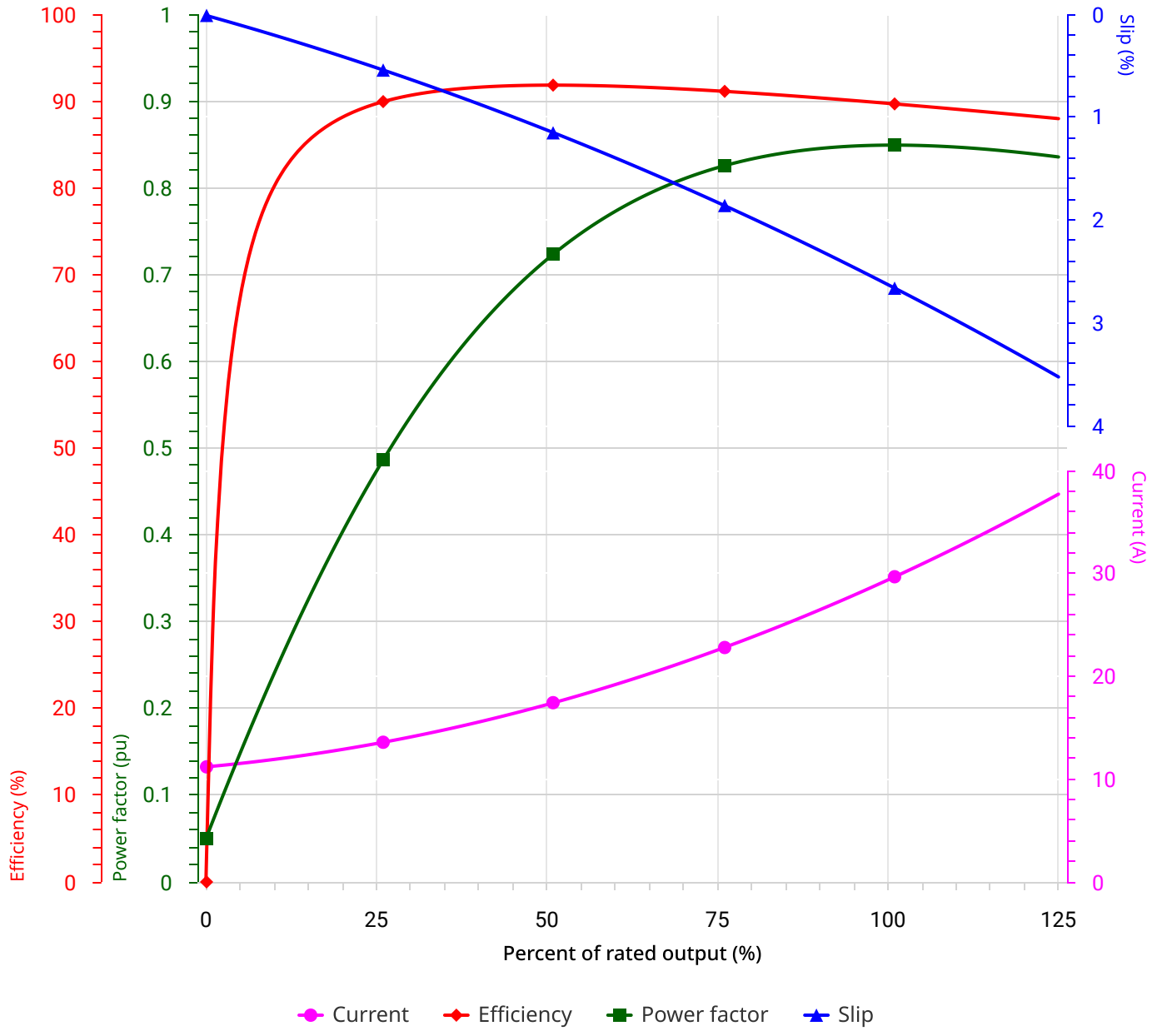
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 20 HP (15 kW) 380V 50Hz 4P 254/6T

Rated current	: 29.9 A	Moment of inertia (J)	: 0.0939 kgm²
LRC	: 5.2 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 9.94 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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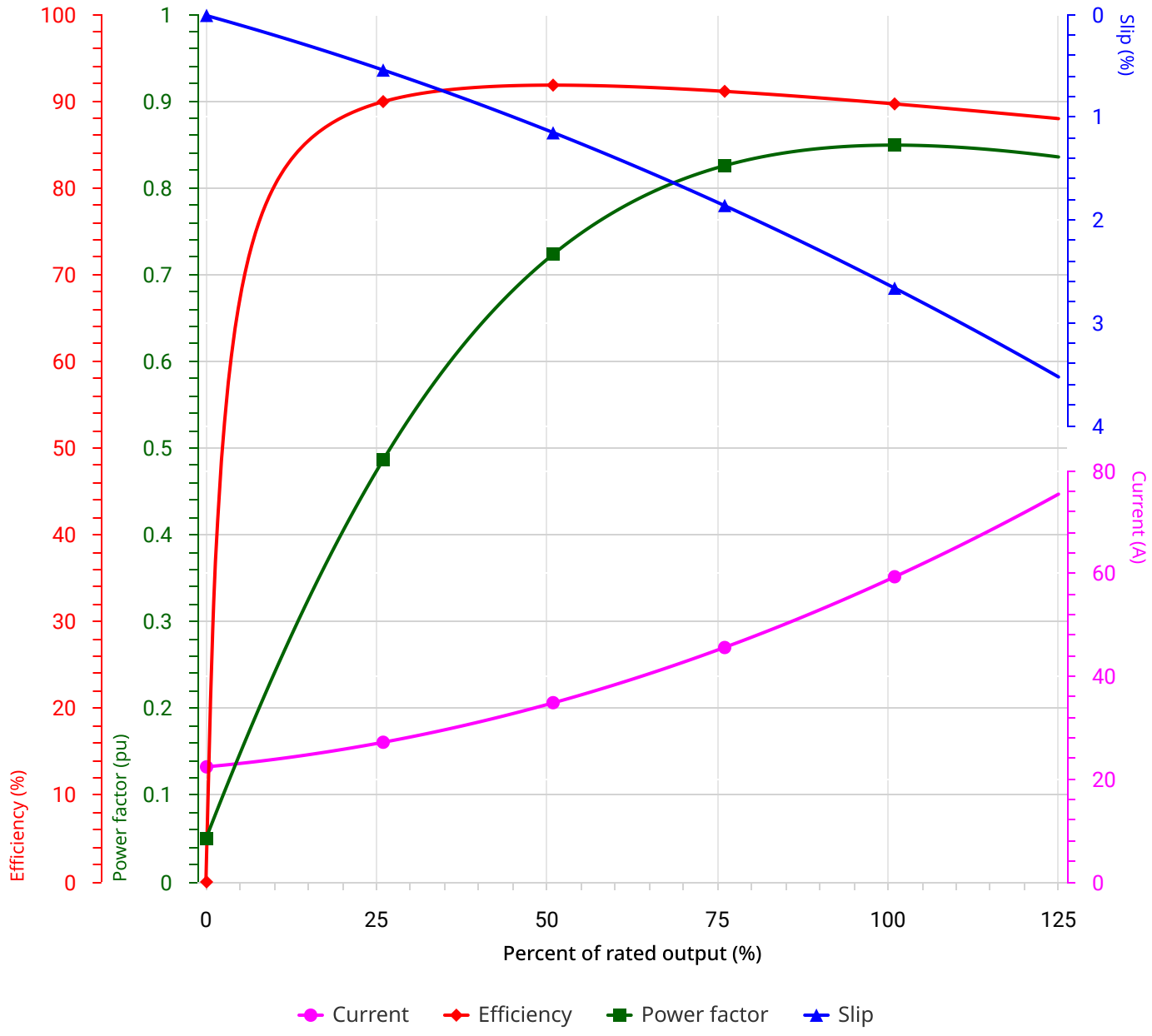
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Performance	: 20 HP (15 kW) 190/220V 50Hz 4P 254/6T

Rated current	: 59.8/51.6 A	Moment of inertia (J)	: 0.0939 kgm²
LRC	: 5.2 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 7.00 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: 00002

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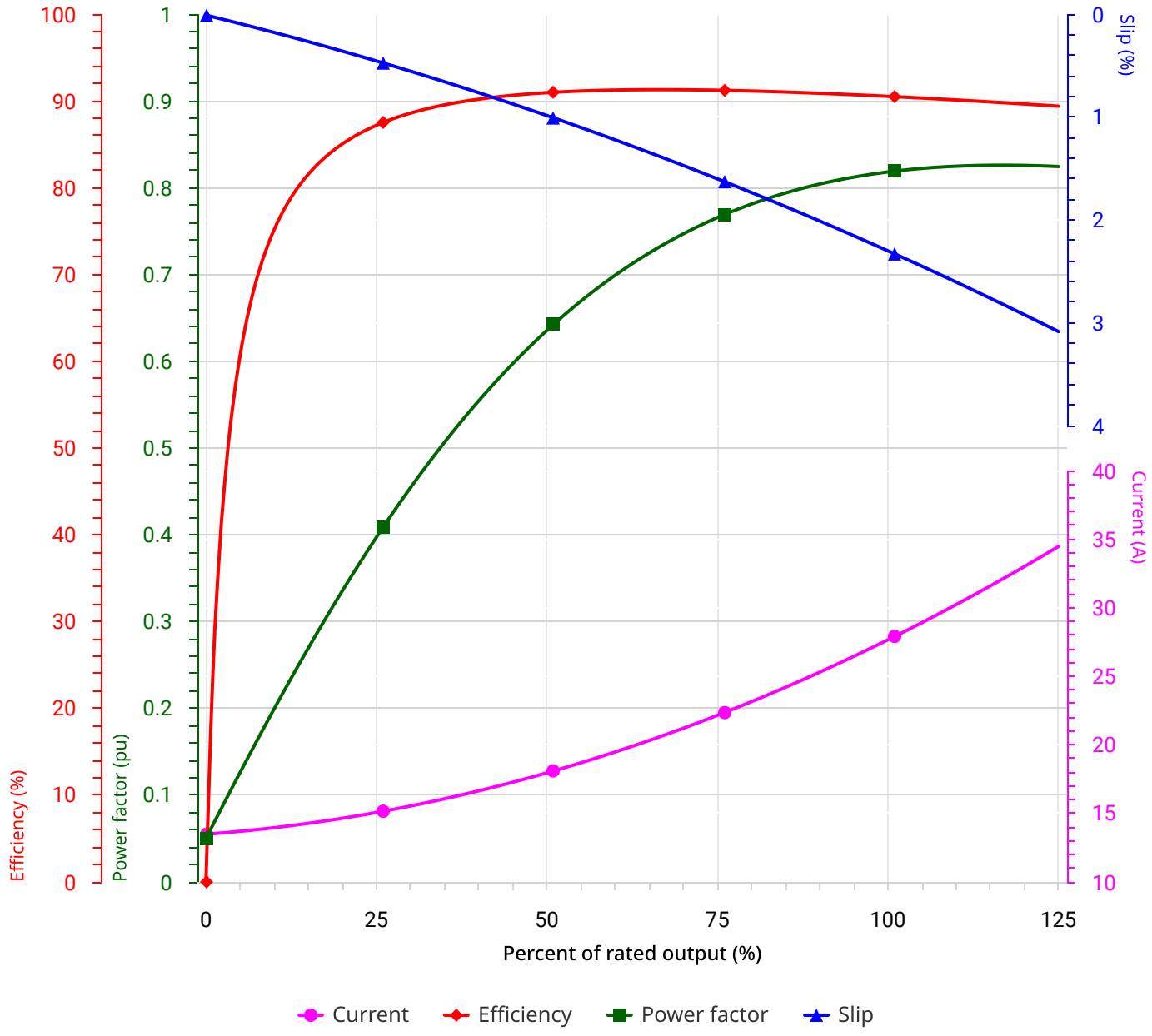
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Performance	: 20 HP (15 kW) 415V 50Hz 4P 254/6T

Rated current	: 28.1 A	Moment of inertia (J)	: 0.0939 kgm²
LRC	: 6.2 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 9.91 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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