DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - TEFC - Standard Efficiency Derating
Product code	: 12630184

Frame	: 56	Cooling method	: IC411 - TEFC
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	: 9.7 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0025 kgm²
Design	: NONE		

Output		0.5 HP (0.37 kW)	0.5 HP (0.37 kW)	0.5 HP (0.37 kW)	0.5 HP (0.37 kW)
Poles		4	4	4	4
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		1.91-1.72/0.862 A	1.90/0.950 A	1.64 A	1.81/0.962 A
L. R. Amperes		12.1/6.03 A	11.0/5.51 A	9.52 A	11.4/6.06 A
LRC		7.0 Code L	5.8 Code J	5.8 Code J	6.3 Code K
No load current		1.20/0.600 A	1.24/0.618 A	1.07 A	1.39/0.737 A
Rated speed		1760 rpm	1445 rpm	1445 rpm	1460 rpm
Slip		2.22 %	3.67 %	3.67 %	2.67 %
Rated torque		0.206 kgfm	0.251 kgfm	0 kgfm	0.249 kgfm
Locked rotor torque		240 %	180 %	180 %	220 %
Breakdown torque		300 %	250 %	250 %	310 %
Service factor		1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K
Noise level		52 dB(A)	49 dB(A)	49.0 dB(A)	49 dB(A)
Locked rotor time		20 s (hot) 36 s (cold)	0 s (hot) 0 s (cold)	0 s (hot) 0 s (cold)	0 s (hot) 0 s (cold)
Efficiency (%)	50%	68.0	70.7	70.7	67.2
	75%	74.0	75.0	75.0	73.1
	100%	77.0	75.9	75.9	75.4
Power Factor	Start	0.70	0.74	0.74	0.76
	50%	0.48	0.56	0.56	0.48
	75%	0.61	0.69	0.69	0.61
	100%	0.7	0.78	0.78	0.71
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	6203-ZZ	6202-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 20 kgf
Max. compression : 29 kgf

Notes:

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

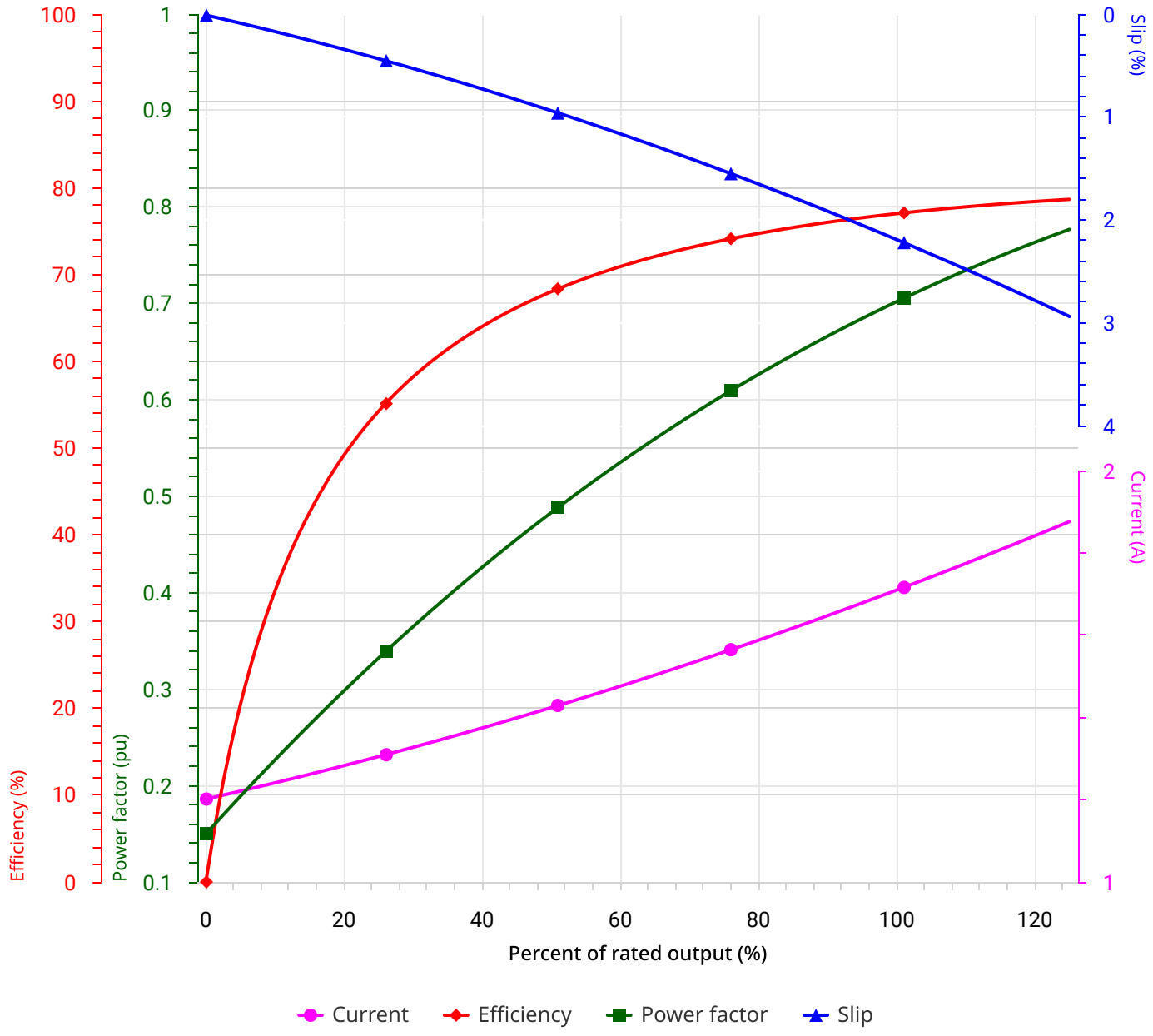
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Standard Efficiency Derating
Product code	: 12630184



Performance	: 0.5 HP (0.37 kW) 208/230/460V 60Hz 4P 56

Rated current	: 1.91/1.72/0.862 A	Moment of inertia (J)	: 0.0025 kgm²
LRC	: 7.0 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 0.206 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm		

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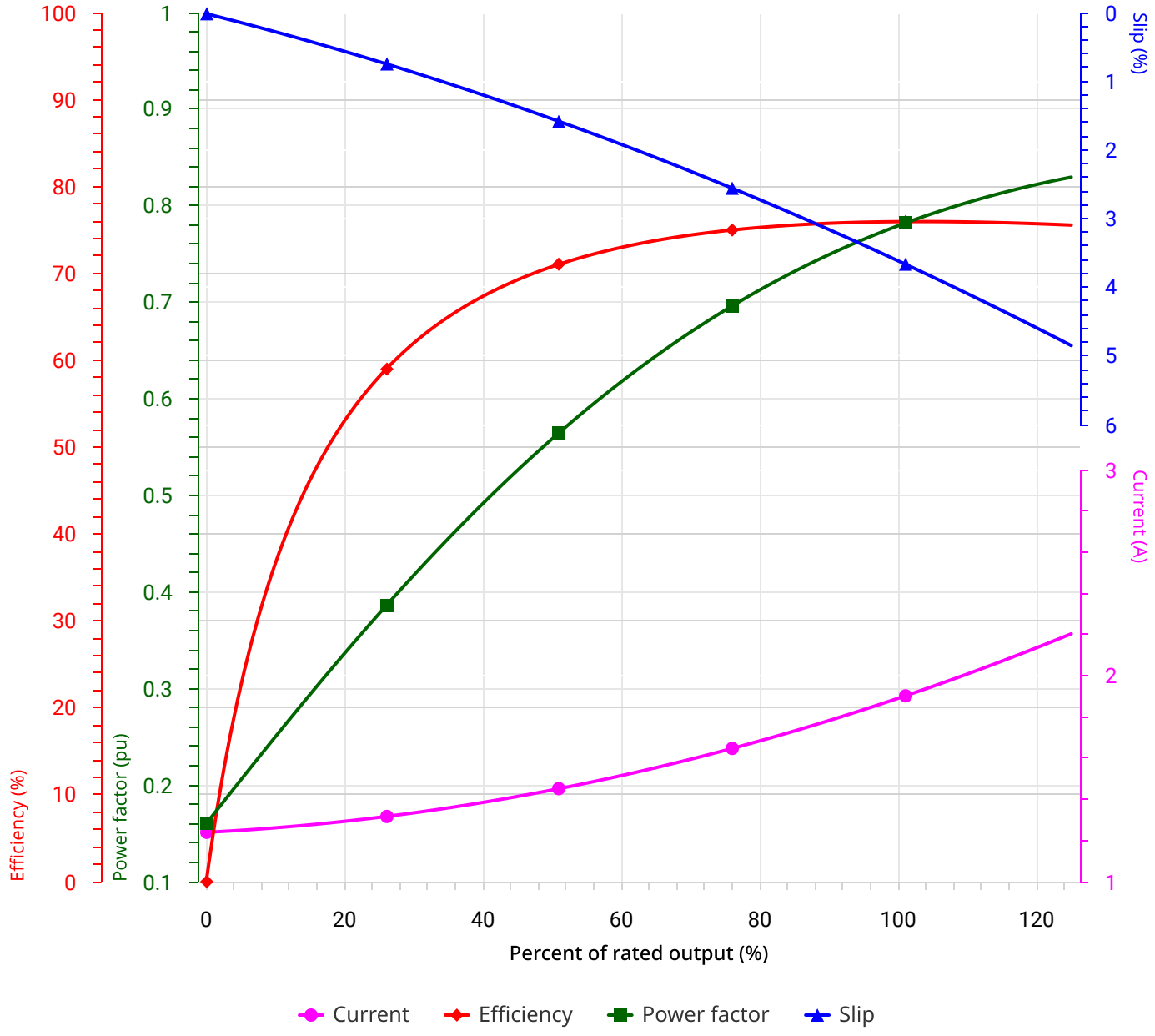
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 0.5 HP (0.37 kW) 190/380V 50Hz 4P 56		
Rated current	: 1.90/0.950 A	Moment of inertia (J)	: 0.0025 kgm²
LRC	: 5.8 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.251 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1445 rpm		

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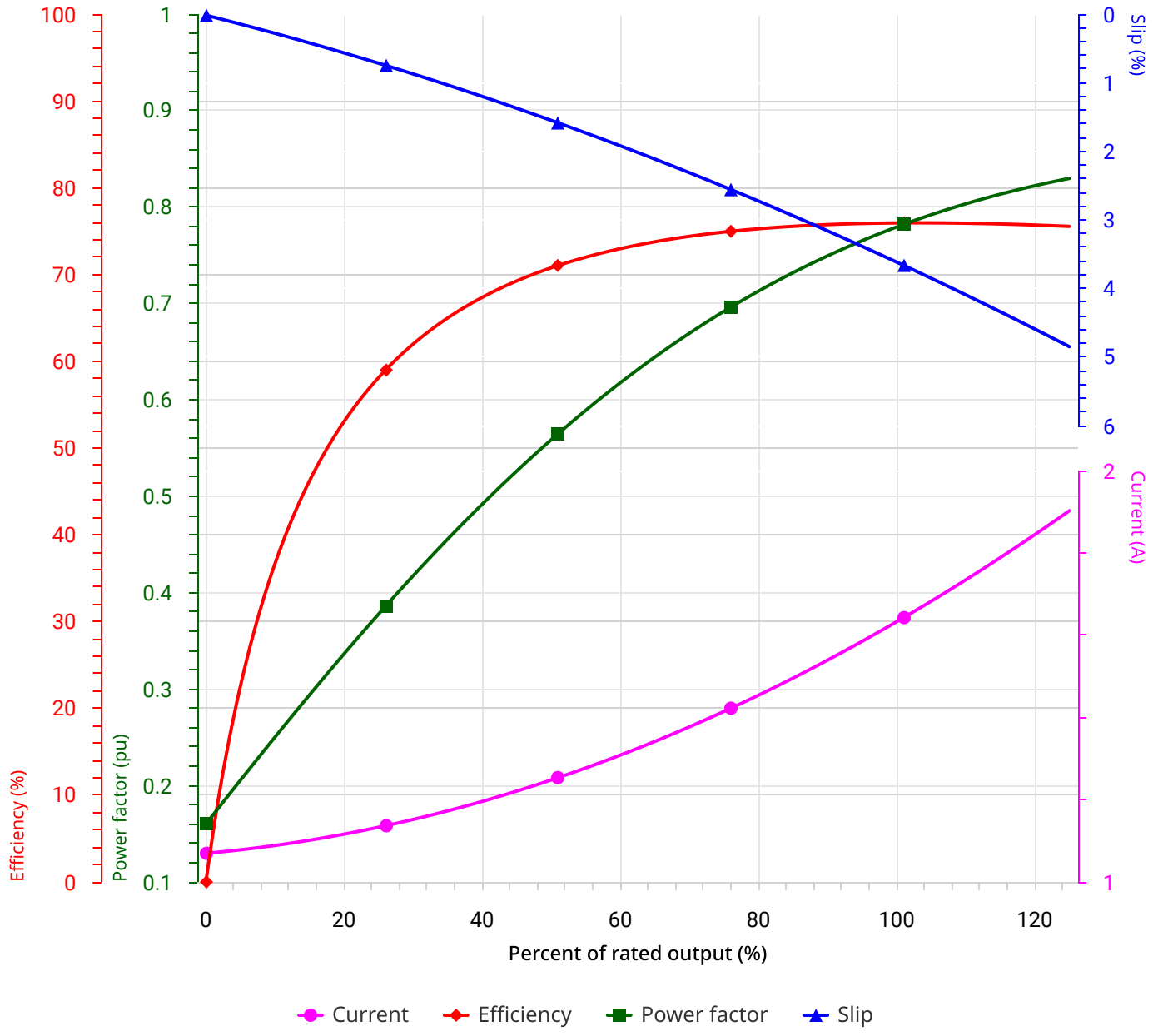
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Standard Efficiency Derating
Product code	: 12630184



Performance	: 0.5 HP (0.37 kW) 220V 50Hz 4P 56

Rated current	: 1.64 A	Moment of inertia (J)	: 0.0025 kgm²
LRC	: 5.8 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1445 rpm	Design	: 00001

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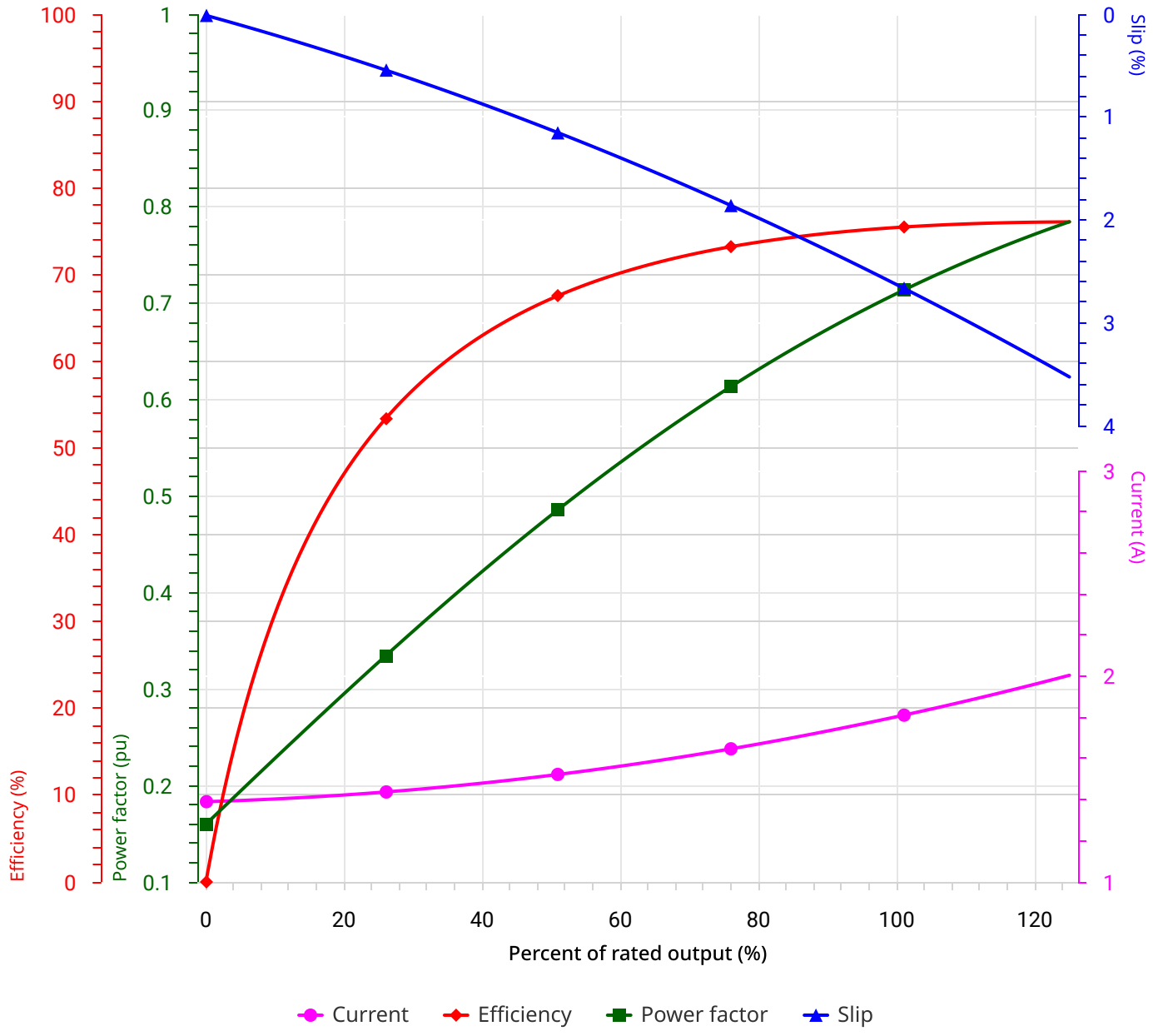
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Performance	: 0.5 HP (0.37 kW) 220/415V 50Hz 4P 56

Rated current	: 1.81/0.962 A	Moment of inertia (J)	: 0.0025 kgm²
LRC	: 6.3 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.249 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm		

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