DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 12676980

Frame	: 213/5JM	Cooling method	: IC01 - ODP
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	: 57.1 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0433 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		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		20.5-18.3/9.14 A	16.7/8.37 A	14.5 A	15.5/8.23 A
L. R. Amperes		133/66.7 A	127/63.6 A	110 A	130/69.1 A
LRC		7.3 Code H	7.6 Code J	7.6 Code J	8.4 Code L
No load current		8.78/4.39 A	8.60/4.30 A	7.43 A	9.62/5.10 A
Rated speed		1770 rpm	1475 rpm	1475 rpm	1480 rpm
Slip		1.67 %	1.67 %	1.67 %	1.33 %
Rated torque		3.08 kgfm	2.71 kgfm	3.00 kgfm	2.70 kgfm
Locked rotor torque		200 %	210 %	210 %	250 %
Breakdown torque		300 %	310 %	310 %	380 %
Service factor		1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K
Noise level		59 dB(A)	56 dB(A)	56.0 dB(A)	56 dB(A)
Locked rotor time		13 s (hot) 23 s (cold)	24 s (hot) 43 s (cold)	24 s (hot) 43 s (cold)	21 s (hot) 38 s (cold)
Efficiency (%)	50%	89.5	88.0	88.0	87.0
	75%	90.2	88.5	88.5	88.2
	100%	91.0	88.6	88.6	89.0
Power Factor	Start	0.57	0.60	0.60	0.61
	50%	0.65	0.62	0.62	0.54
	75%	0.78	0.74	0.74	0.66
	100%	0.83	0.82	0.82	0.76
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		9.53	12.40	12.40	11.91
P2 (0,5;1,0)		8.17	10.63	10.63	10.21
P3 (0,25;1,0)		7.75	10.09	10.09	9.69
P4 (0,9;0,5)		4.87	6.34	6.34	6.09
P5 (0,5;0,5)		3.40	4.43	4.43	4.25
P6 (0,5;0,25)		2.40	3.12	3.12	3.00
P7 (0,25;0,25)		1.74	2.26	2.26	2.17

	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

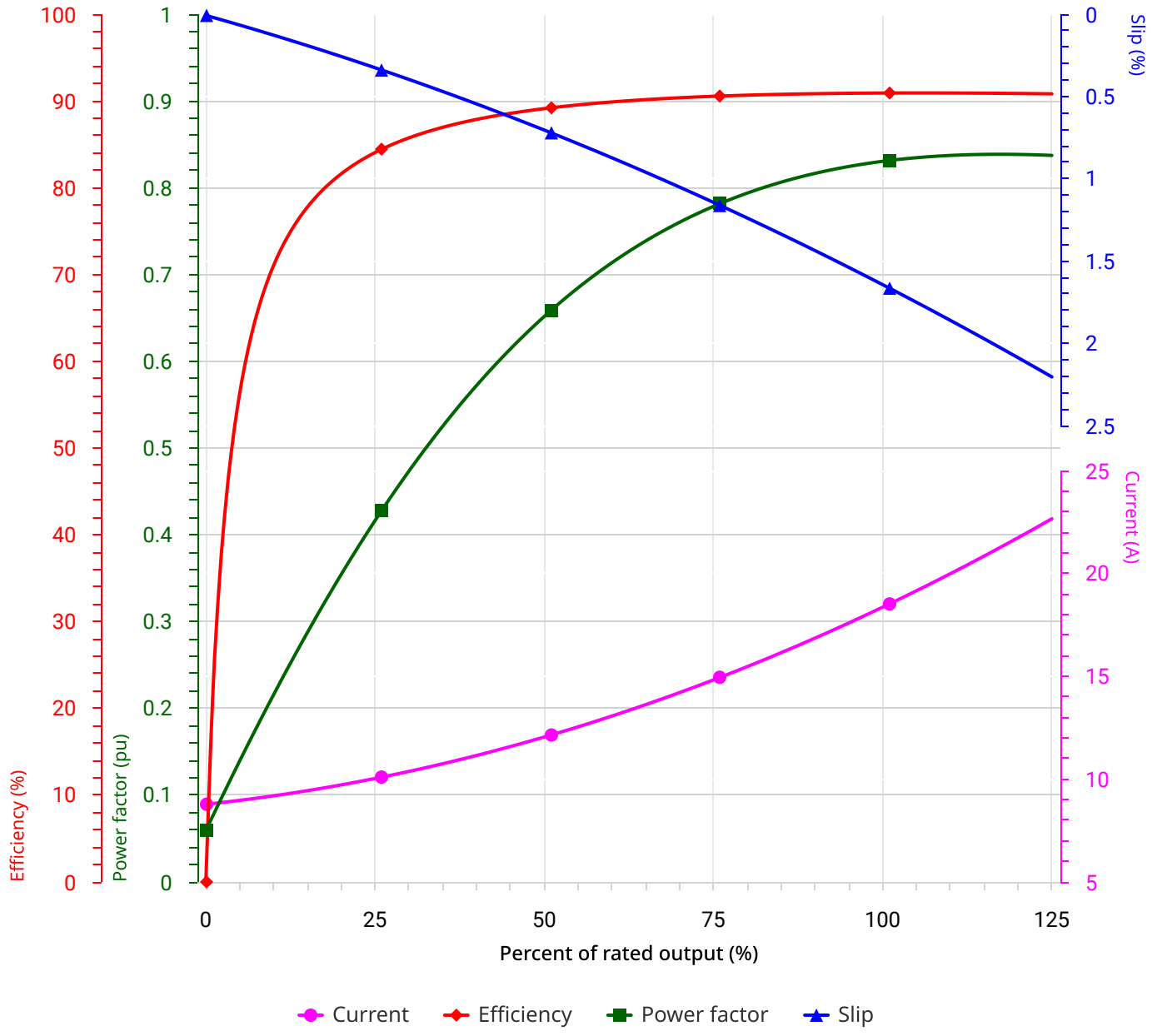
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LOAD PERFORMANCE CURVE

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Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 12676980



Performance	: 7.5 HP (5.5 kW) 208/230/460V 60Hz 4P 213/5JM

Rated current	: 20.5/18.3/9.14 A	Moment of inertia (J)	: 0.0433 kgm²
LRC	: 7.3 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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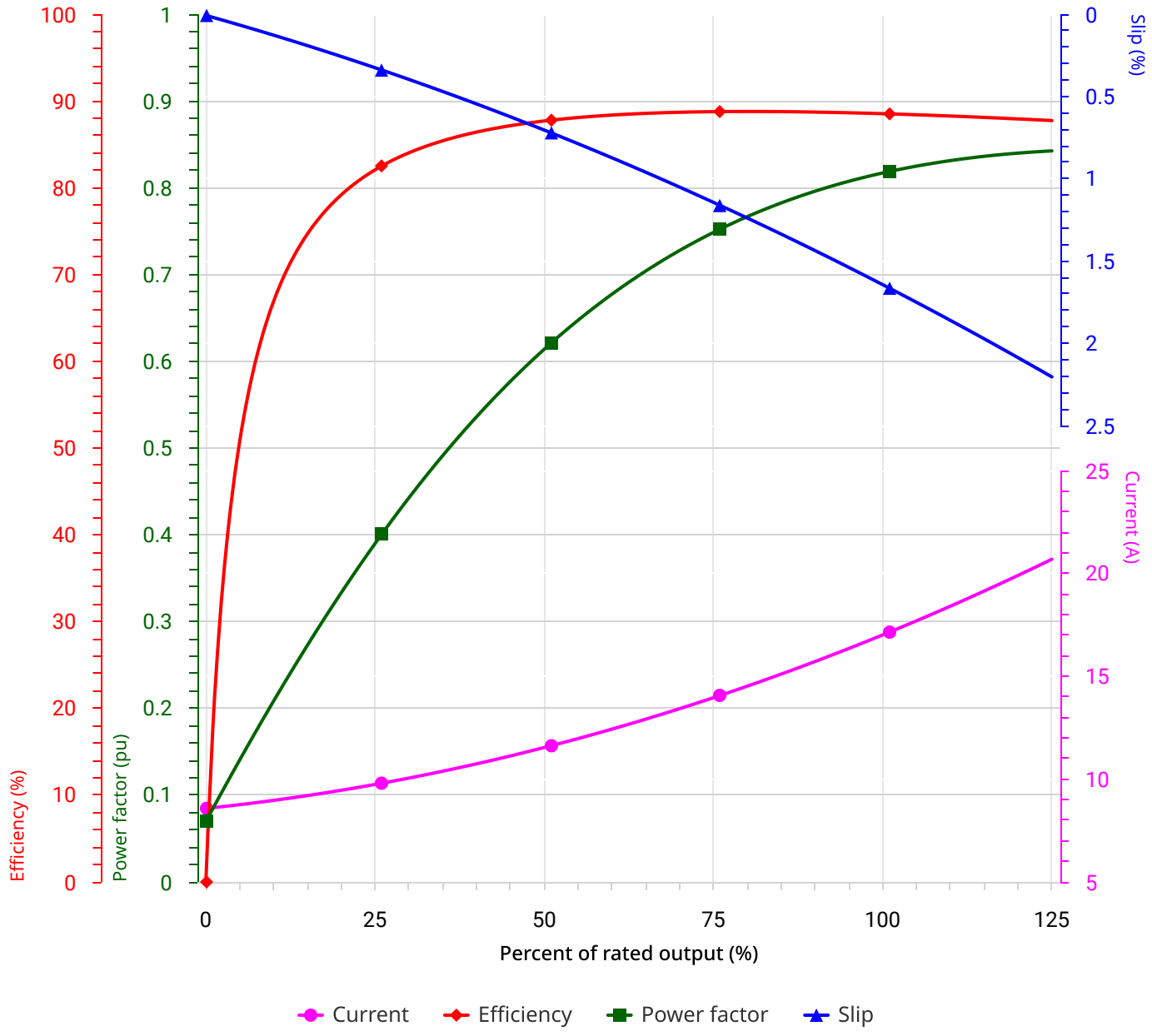
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 12676980



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

Rated current	: 16.7/8.37 A	Moment of inertia (J)	: 0.0433 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.71 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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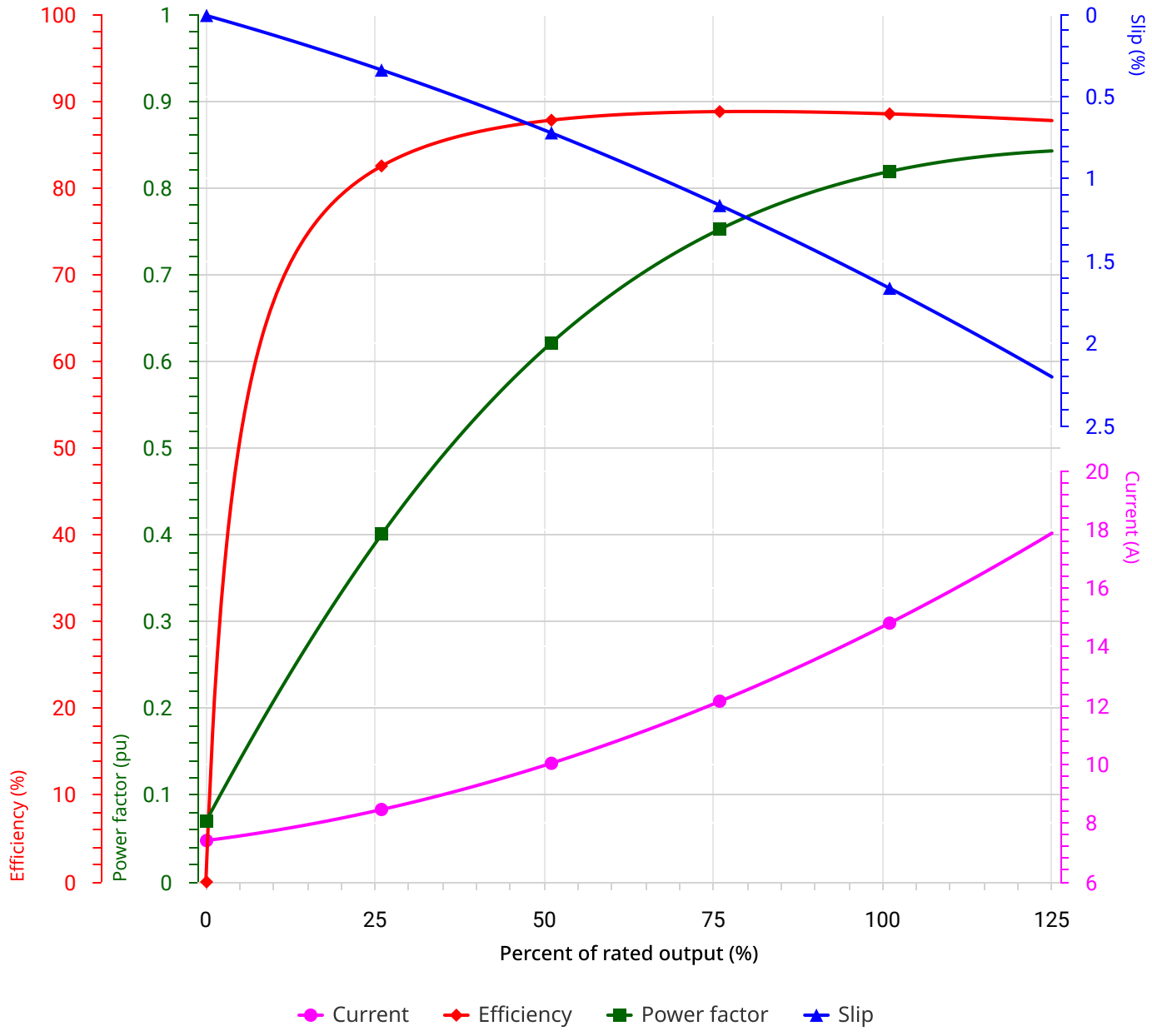
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 12676980



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

Rated current	: 14.5 A	Moment of inertia (J)	: 0.0433 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 3.00 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: 00002

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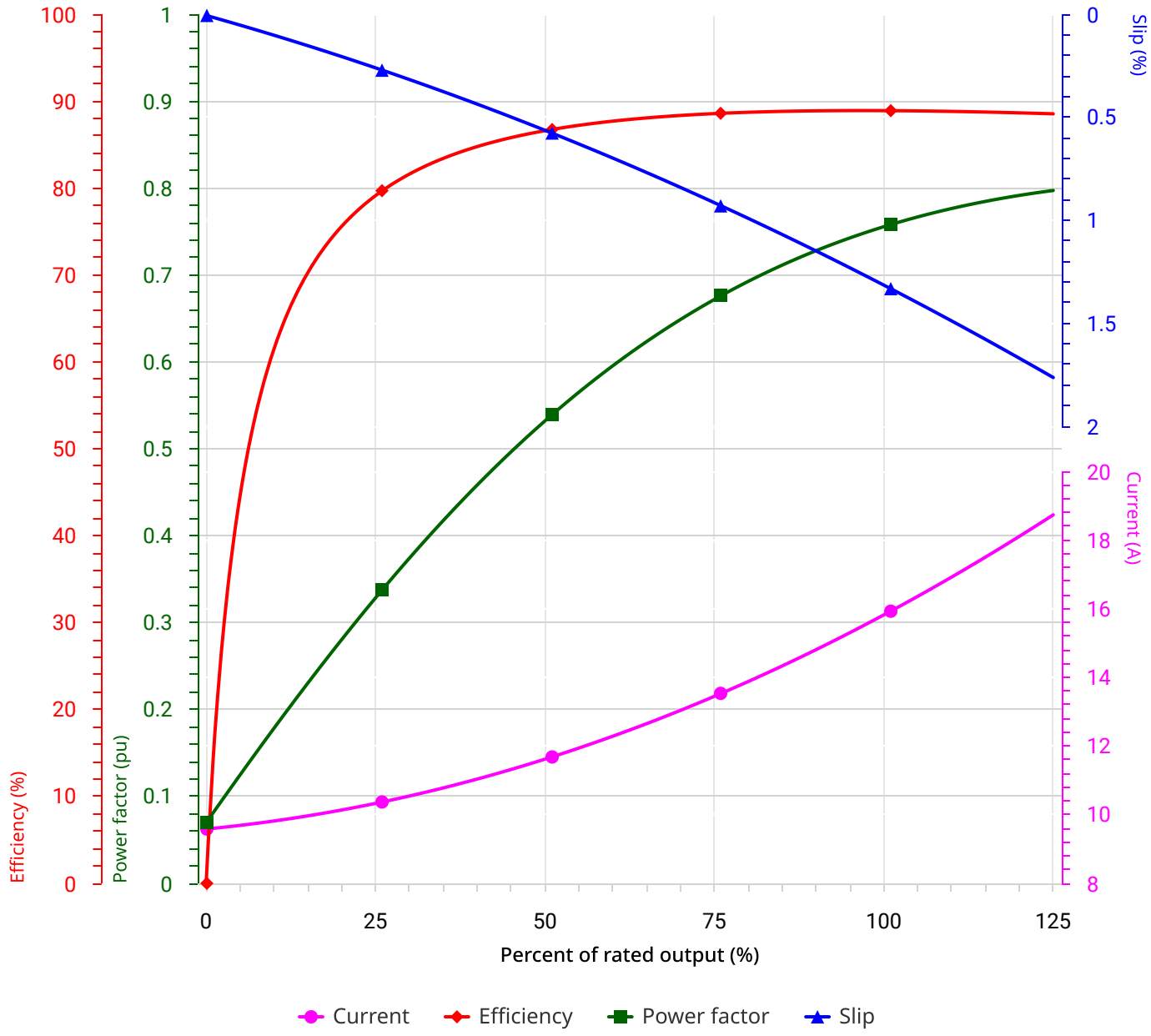
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Three Phase Induction Motor - Squirrel Cage

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

Rated current	: 15.5/8.23 A	Moment of inertia (J)	: 0.0433 kgm²
LRC	: 8.4 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 2.70 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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