DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13393200

Frame	: 182/4JM	Cooling method	: IC411 - TEFC
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	: 40.7 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0088 kgm²
Design	: B		

Output		5 HP (3.7 kW)	4 HP (3 kW)	4 HP (3 kW)	4 HP (3 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		13.1-11.8/5.90 A	11.9/5.95 A	10.3 A	10.5/5.57 A
L. R. Amperes		92.0/46.0 A	95.2/47.6 A	82.2 A	98.8/52.4 A
LRC		7.8 Code J	8.0 Code J	8.0 Code J	9.4 Code L
No load current		4.40/2.20 A	4.60/2.30 A	3.97 A	5.09/2.70 A
Rated speed		3500 rpm	2890 rpm	2890 rpm	2915 rpm
Slip		2.78 %	3.67 %	3.67 %	2.83 %
Rated torque		1.04 kgfm	1.00 kgfm	1.00 kgfm	0.996 kgfm
Locked rotor torque		220 %	250 %	250 %	300 %
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		68 dB(A)	65 dB(A)	65.0 dB(A)	65 dB(A)
Locked rotor time		19 s (hot) 34 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)	17 s (hot) 31 s (cold)
Efficiency (%)	50%	87.5	86.9	86.9	87.7
	75%	88.5	87.0	87.0	88.0
	100%	88.5	87.1	87.1	88.2
Power Factor	Start	0.57	0.58	0.58	0.59
	50%	0.76	0.73	0.73	0.66
	75%	0.85	0.83	0.83	0.78
	100%	0.89	0.88	0.88	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		12.47	12.95	12.95	12.80
P2 (0,5;1,0)		10.54	10.94	10.94	10.81
P3 (0,25;1,0)		10.07	10.46	10.46	10.33
P4 (0,9;0,5)		6.59	6.84	6.84	6.76
P5 (0,5;0,5)		4.41	4.58	4.58	4.53
P6 (0,5;0,25)		3.06	3.17	3.17	3.13
P7 (0,25;0,25)		2.17	2.25	2.25	2.22

	Drive end	Non drive end
Bearing type	6207-ZZ	6205-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

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

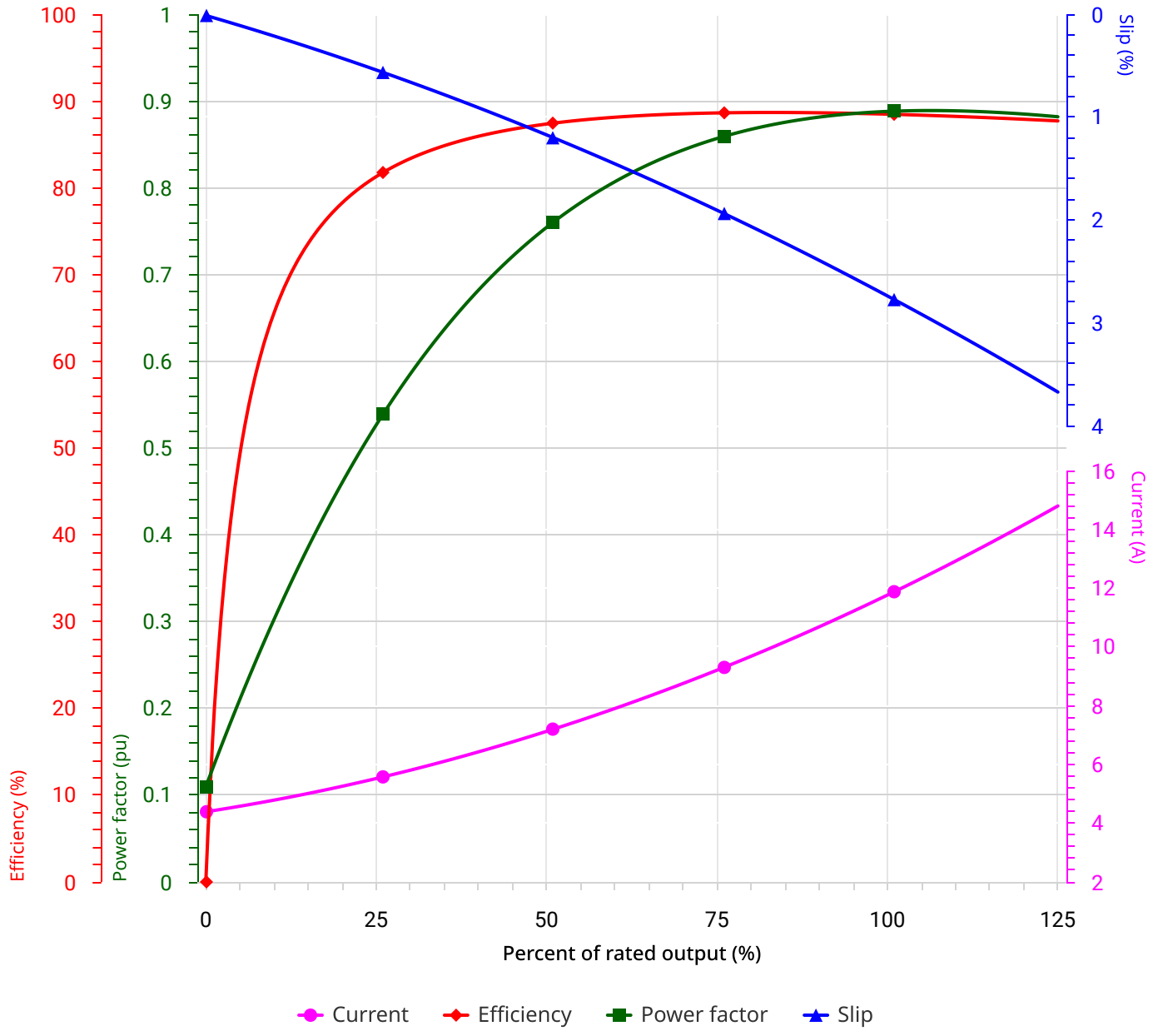
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13393200



Performance	: 5 HP (3.7 kW) 208/230/460V 60Hz 2P 182/4JM

Rated current	: 13.1/11.8/5.90 A	Moment of inertia (J)	: 0.0088 kgm²
LRC	: 7.8 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.04 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm	Design	: B

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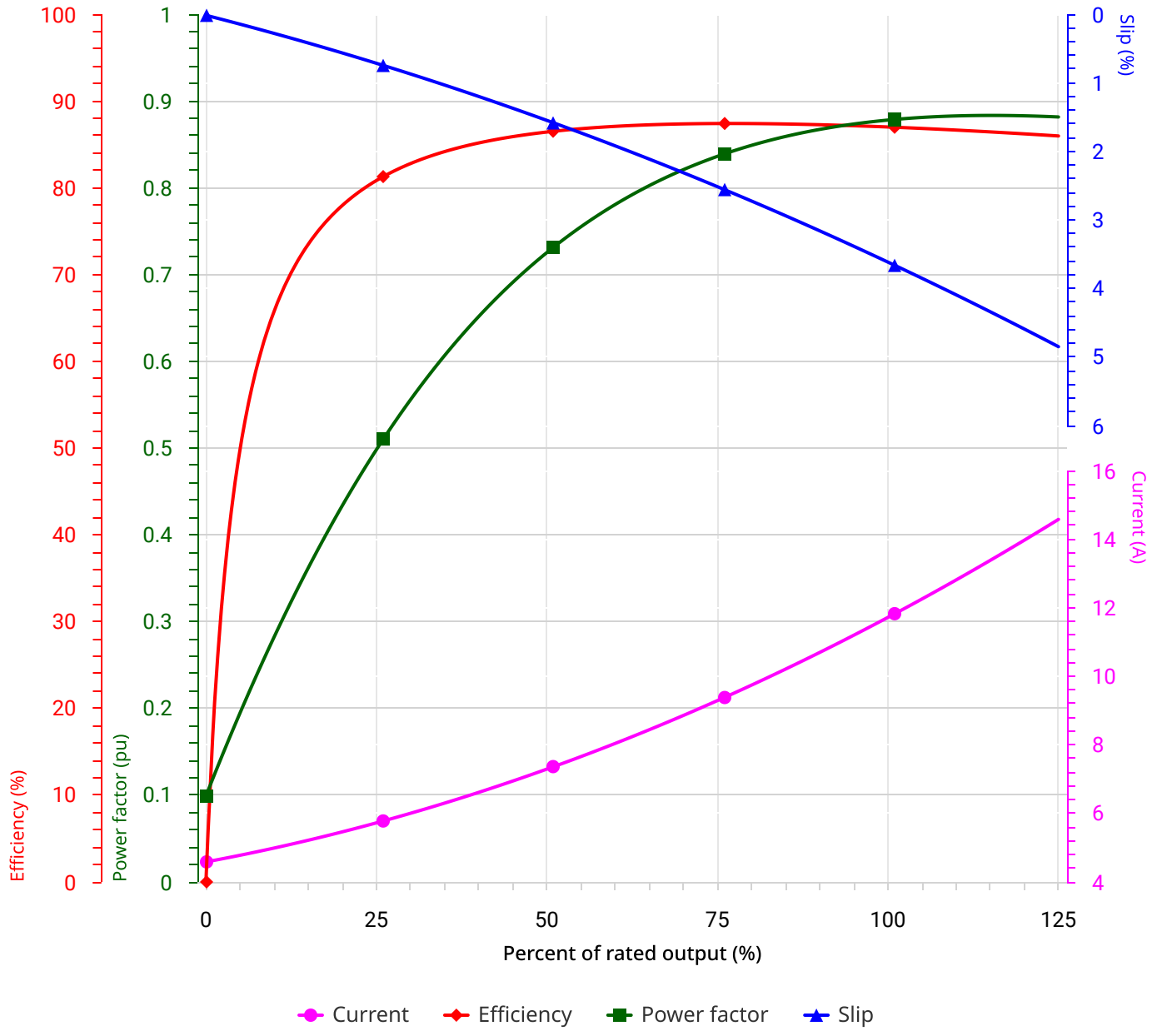
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13393200



Performance	: 4 HP (3 kW) 190/380V 50Hz 2P 182/4JM

Rated current	: 11.9/5.95 A	Moment of inertia (J)	: 0.0088 kgm²
LRC	: 8.0 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.00 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

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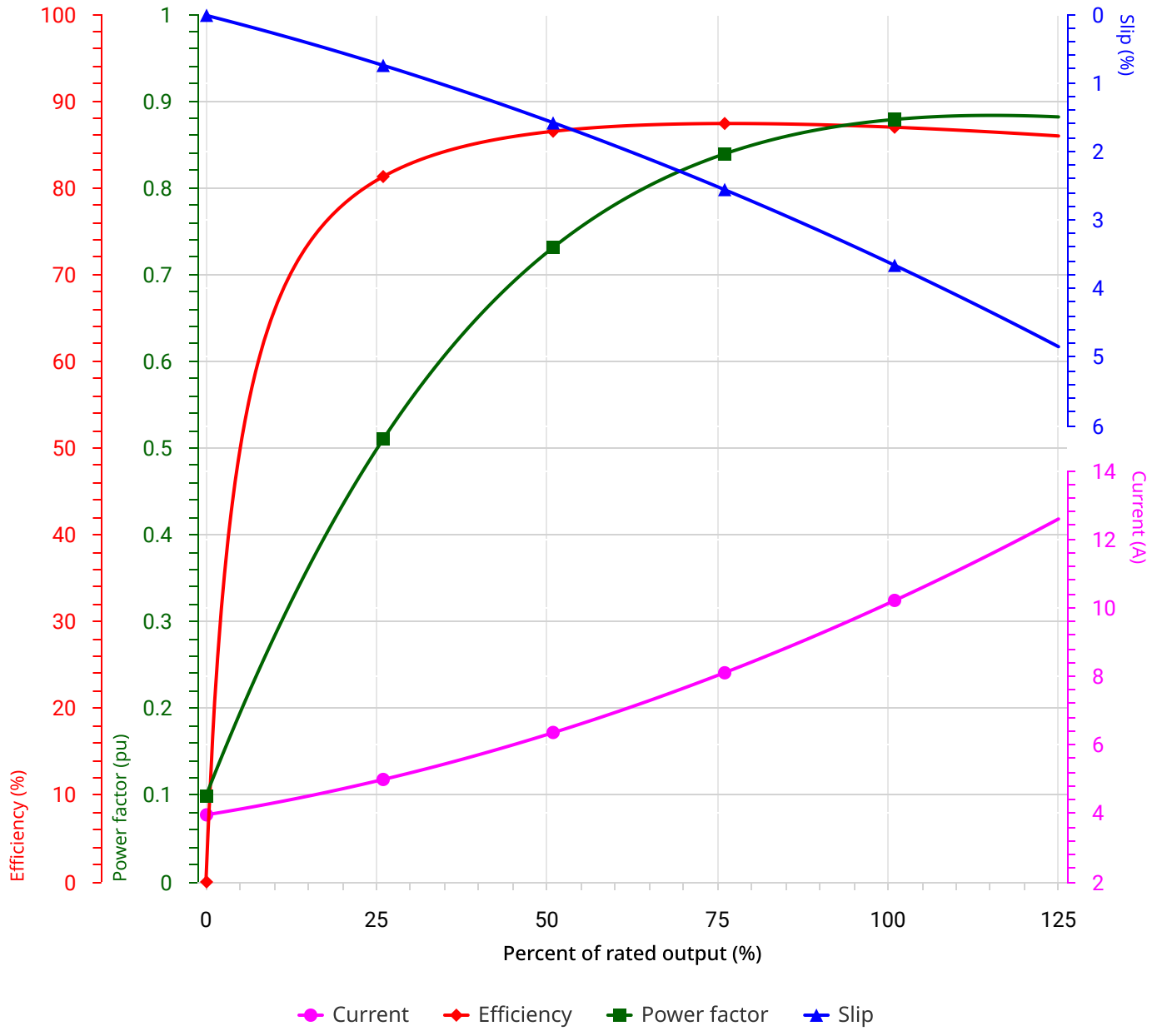
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13393200



Performance	: 4 HP (3 kW) 220V 50Hz 2P 182/4JM

Rated current	: 10.3 A	Moment of inertia (J)	: 0.0088 kgm²
LRC	: 8.0 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.00 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: 00002

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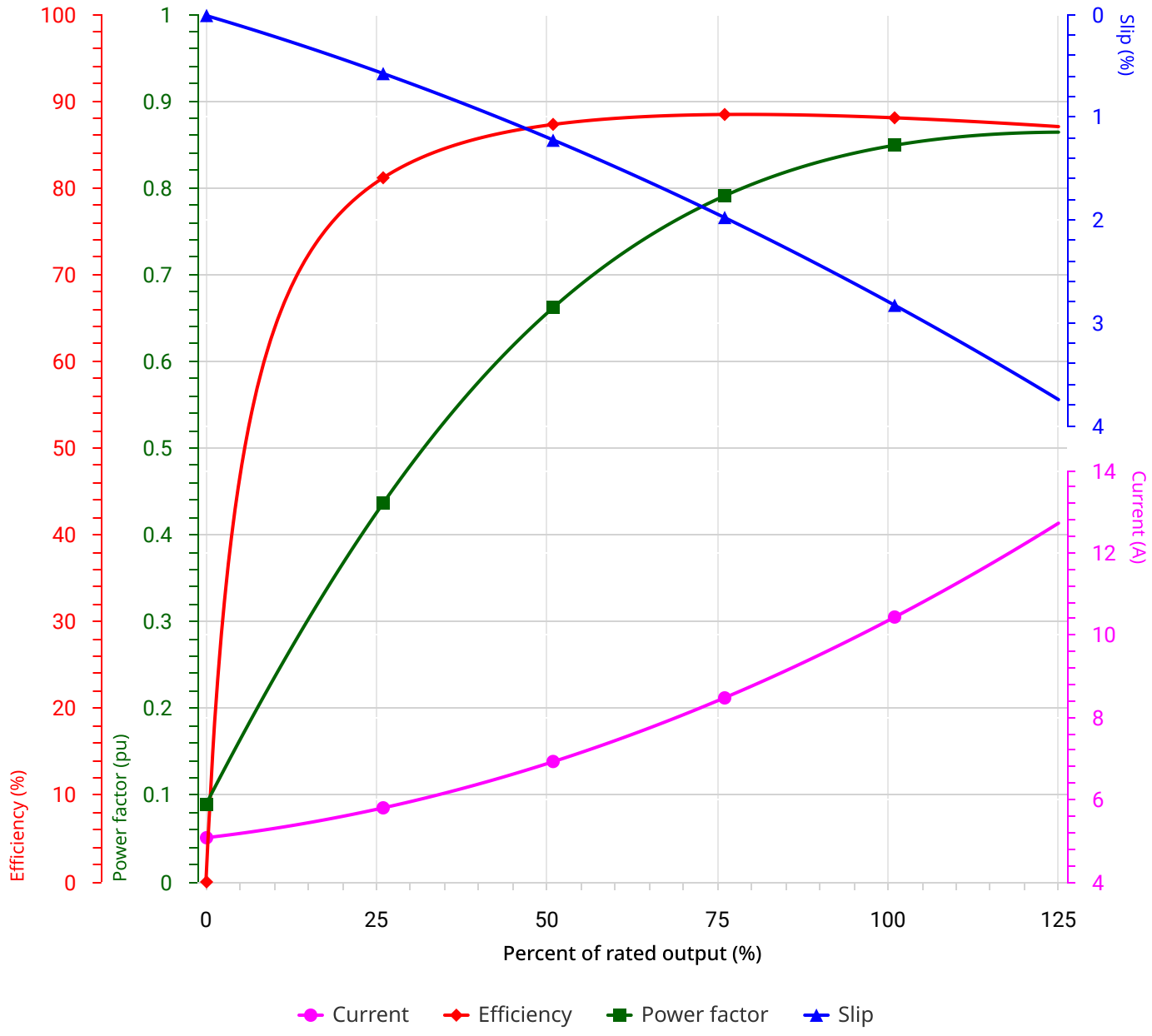
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Three Phase Induction Motor - Squirrel Cage

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Product code	: 13393200



Performance	: 4 HP (3 kW) 220/415V 50Hz 2P 182/4JM

Rated current	: 10.5/5.57 A	Moment of inertia (J)	: 0.0088 kgm²
LRC	: 9.4 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 0.996 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: B

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