DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12034382

Frame	: 182/4JM	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B34R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 46.1 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0094 kgm²
Design	: B		

Output		5 HP (3.7	5 HP (3.7	4 HP (3 kW)	4 HP (3 kW)	4 HP (3 kW)	5 HP (3.7	5 HP (3.7	5 HP (3.7
Poles		2	2	2	2	2	2	2	2
Frequency		60 Hz	60 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	208 V	380 V	400 V	415 V	380 V	400 V	415 V
Rated current		11.8/5.90 A	13.1 A	5.85 A	5.57 A	5.43 A	7.14 A	6.78 A	6.61 A
L. R. Amperes			99.3 A	44.5 A	46.8 A	50.5 A	42.8 A	46.1 A	49.6 A
LRC		89.7/44.8 A	7.6 Code J	7.6 Code J	8.4 Code K	9.3 Code L	6.0 Code G	6.8 Code H	7.5 Code J
No load current			3.45 A	1.90 A		2.10 A			2.10 A
Rated speed		7.6 Code J	3500 rpm	2900 rpm	2.00 A	2920 rpm	1.90 A	2.00 A	2895 rpm
Slip		4.00/2.00 A	2.78 %	3.33 %	2915 rpm	2.67 %	2860 rpm	2880 rpm	3.50 %
Rated torque			1.00 kgfm	1.00 kgfm	2.83 %	0.994 kgfm	4.67 %	4.00 %	1.25 kgfm
Locked rotor torque		3500 rpm	225 %	220 %	0.996 kgfm		1.27 kgfm	1.26 kgfm	220 %
Breakdown torque		2.78 %	350 %	310 %		270 %	180 %	200 %	300 %
Service factor		1.04 kgfm	1.25	1.25	250 %	380 %	240 %	270 %	1.25
Temperature rise		230 %	80 K	80 K	350 %	1.25	1.25	1.25	80 K
Noise level		350 %	66.0 dB(A)	62 dB(A)	1.25	80 K	80 K	80 K	62 dB(A)
Locked rotor time		1.25	17 s (hot) 31 s (cold)	18 s (hot) 32 s (cold)	80 K	62 dB(A)	62 dB(A)	62 dB(A)	13 s (hot) 23 s (cold)
		80 K			62 dB(A)	16 s (hot) 29 s (cold)	13 s (hot) 23 s (cold)	14 s (hot) 25 s (cold)	
		66 dB(A)			18 s (hot) 32 s (cold)				
		17 s (hot) 31 s (cold)							
Efficiency (%)	50%	86.5	86.5	86.3	86.3	86.1	87.5	87.5	87.5
	75%	88.3	88.3	87.7	88.2	88.2	87.5	88.5	88.5
	100%	88.5	88.5	87.5	88.3	88.3	86.5	87.5	87.5
Power Factor	Start	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
	50%	0.76	0.76	0.74	0.71	0.68	0.81	0.78	0.76
	75%	0.85	0.85	0.85	0.83	0.81	0.88	0.87	0.85
	100%	0.89	0.89	0.89	0.88	0.87	0.91	0.9	0.89
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		12.45	12.45	13.68	12.69	12.69	14.95	13.68	13.68
P2 (0,5;1,0)		10.27	10.27	11.29	10.47	10.47	12.34	11.29	11.29
P3 (0,25;1,0)		9.84	9.84	10.81	10.03	10.03	11.81	10.81	10.81
P4 (0,9;0,5)		6.23	6.23	6.84	6.35	6.35	7.48	6.84	6.84
P5 (0,5;0,5)		3.90	3.90	4.29	3.98	3.98	4.68	4.29	4.29
P6 (0,5;0,25)		2.50	2.50	2.75	2.55	2.55	3.00	2.75	2.75
P7 (0,25;0,25)		1.60	1.60	1.76	1.64	1.64	1.93	1.76	1.76

	Drive end	Non drive end
Bearing type	6307-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads
Max. traction : 55 kgf
Max. compression : 101 kgf

Notes:

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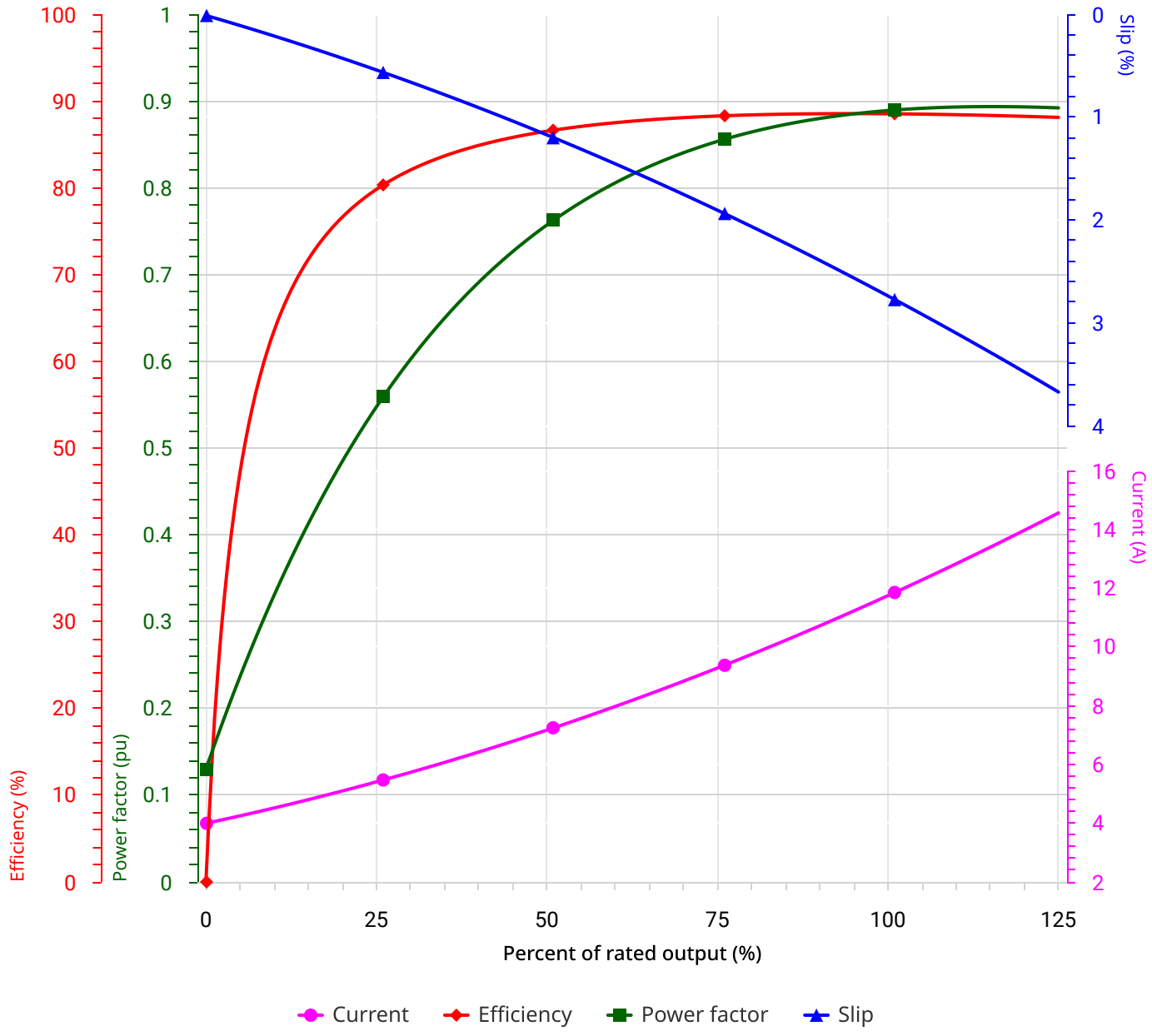
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12034382



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

Rated current	: 11.8/5.90 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.04 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm	Design	: B

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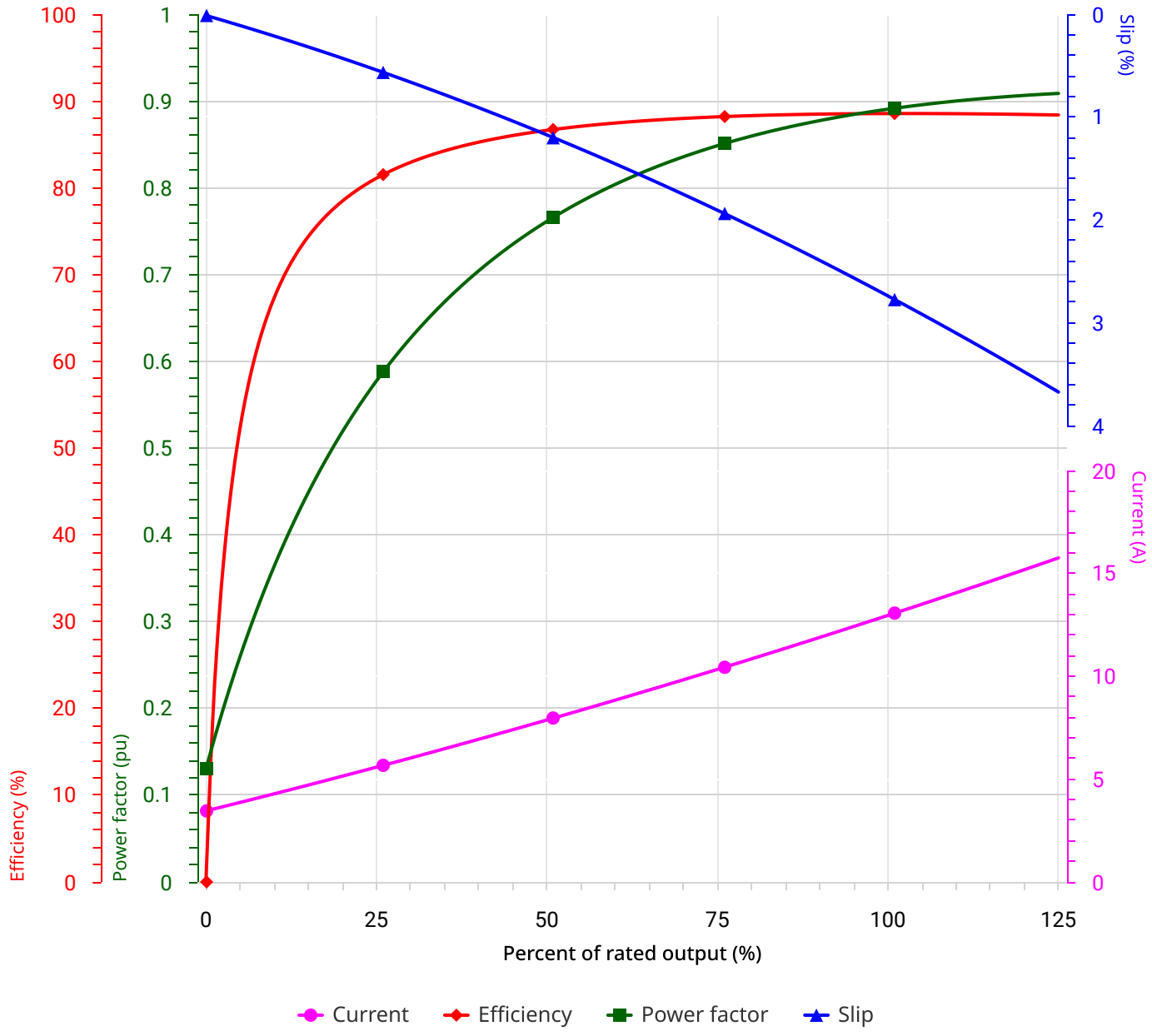
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12034382



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

Rated current	: 13.1 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.00 kgfm	Insulation class	: F
Locked rotor torque	: 225 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm	Design	: 00002

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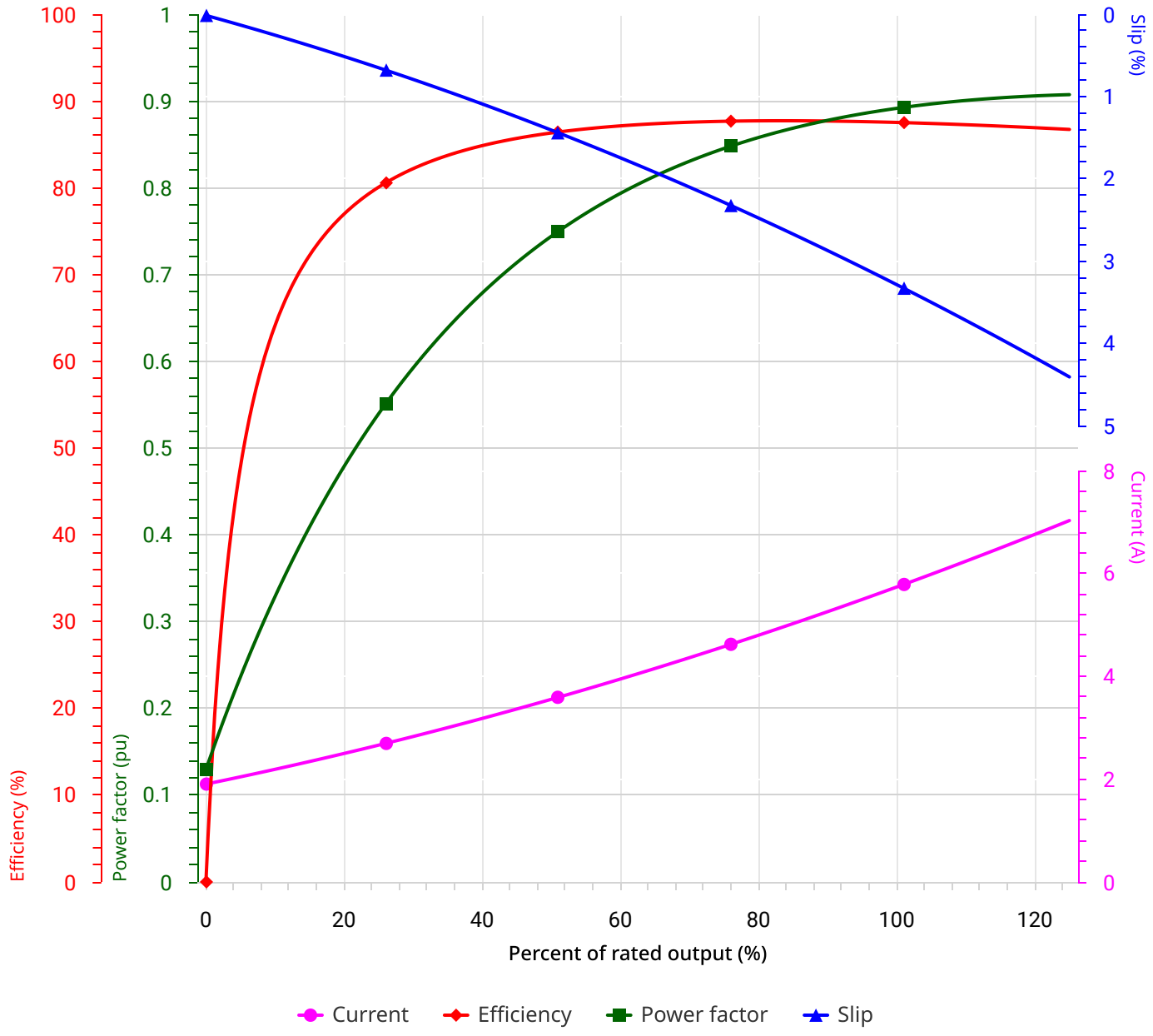
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12034382



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

Rated current	: 5.85 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.00 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

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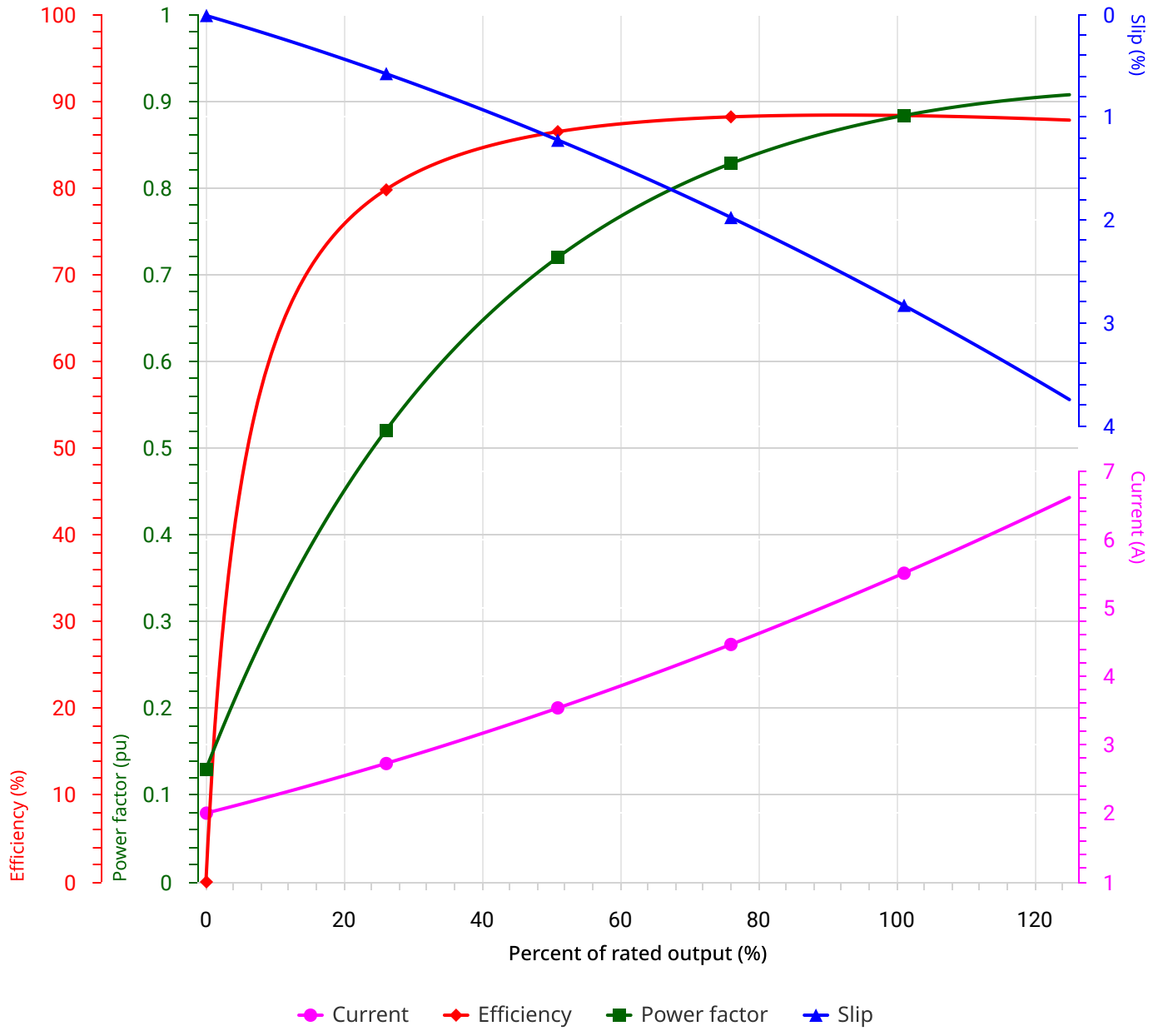
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12034382



Performance	: 4 HP (3 kW) 400V 50Hz 2P 182/4JM

Rated current	: 5.57 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 8.4 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.996 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: B

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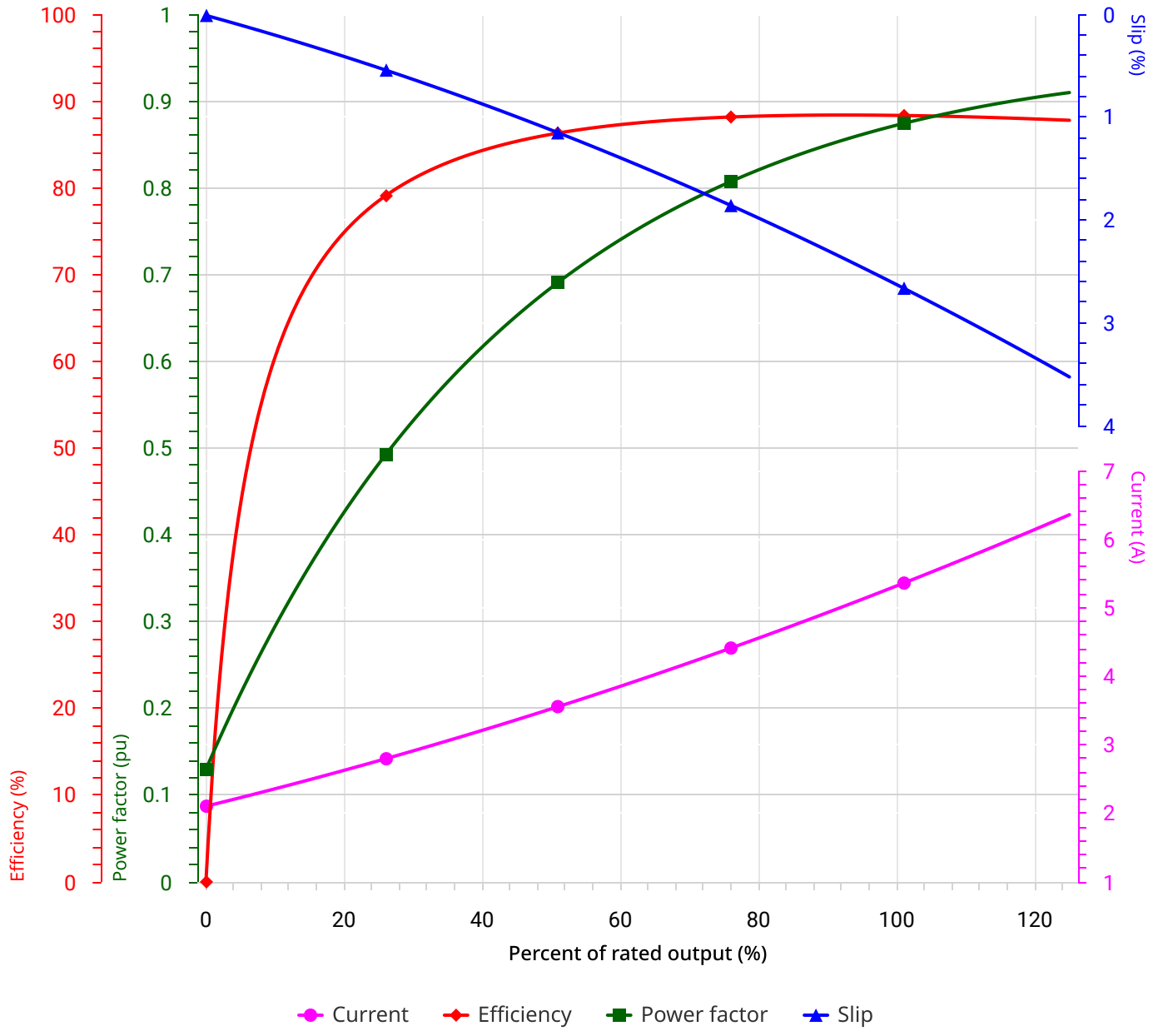
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12034382



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

Rated current	: 5.43 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 9.3 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 0.994 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B

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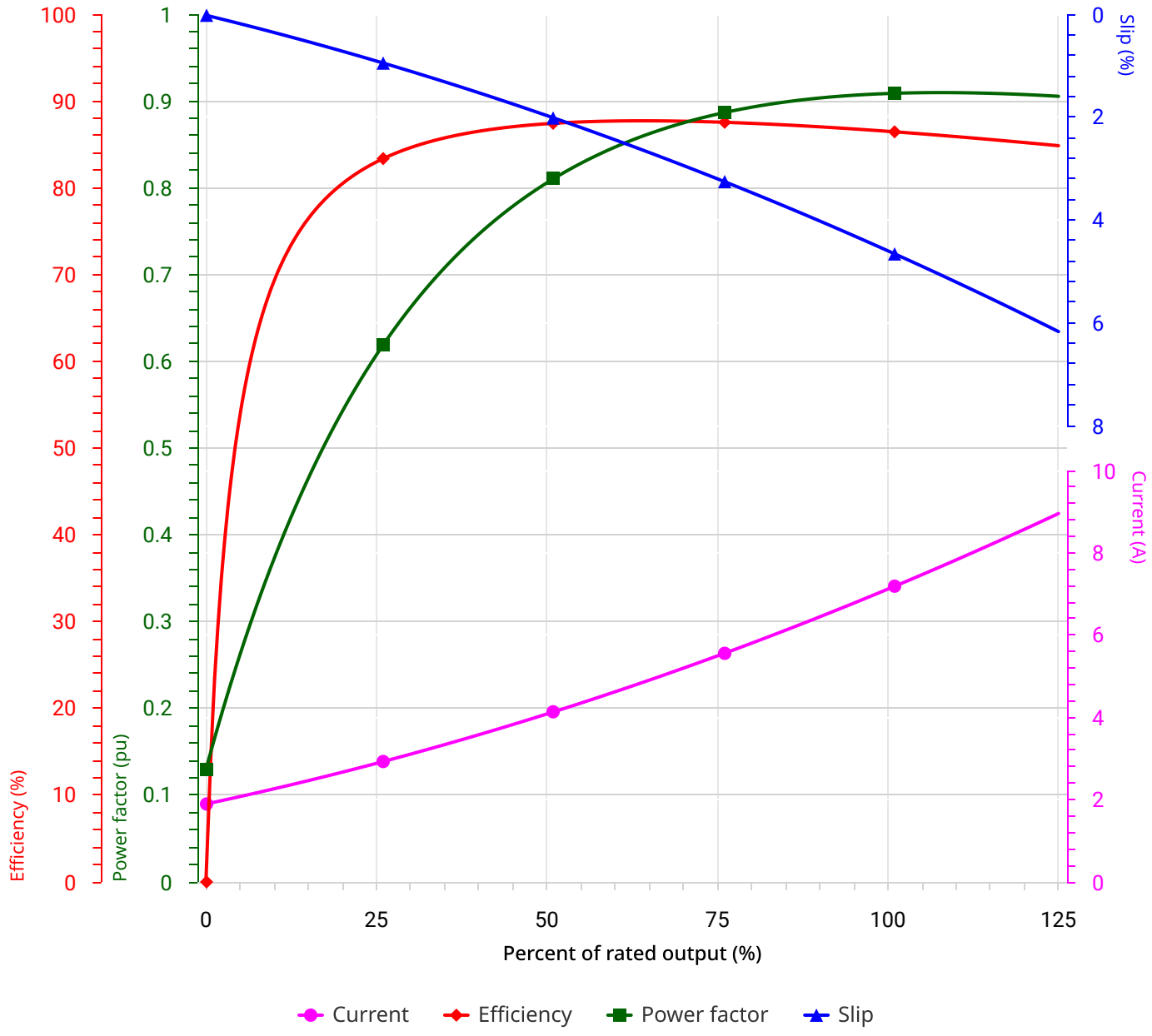
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Performance	: 5 HP (3.7 kW) 380V 50Hz 2P 182/4JM

Rated current	: 7.14 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 6.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 1.27 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2860 rpm	Design	: B

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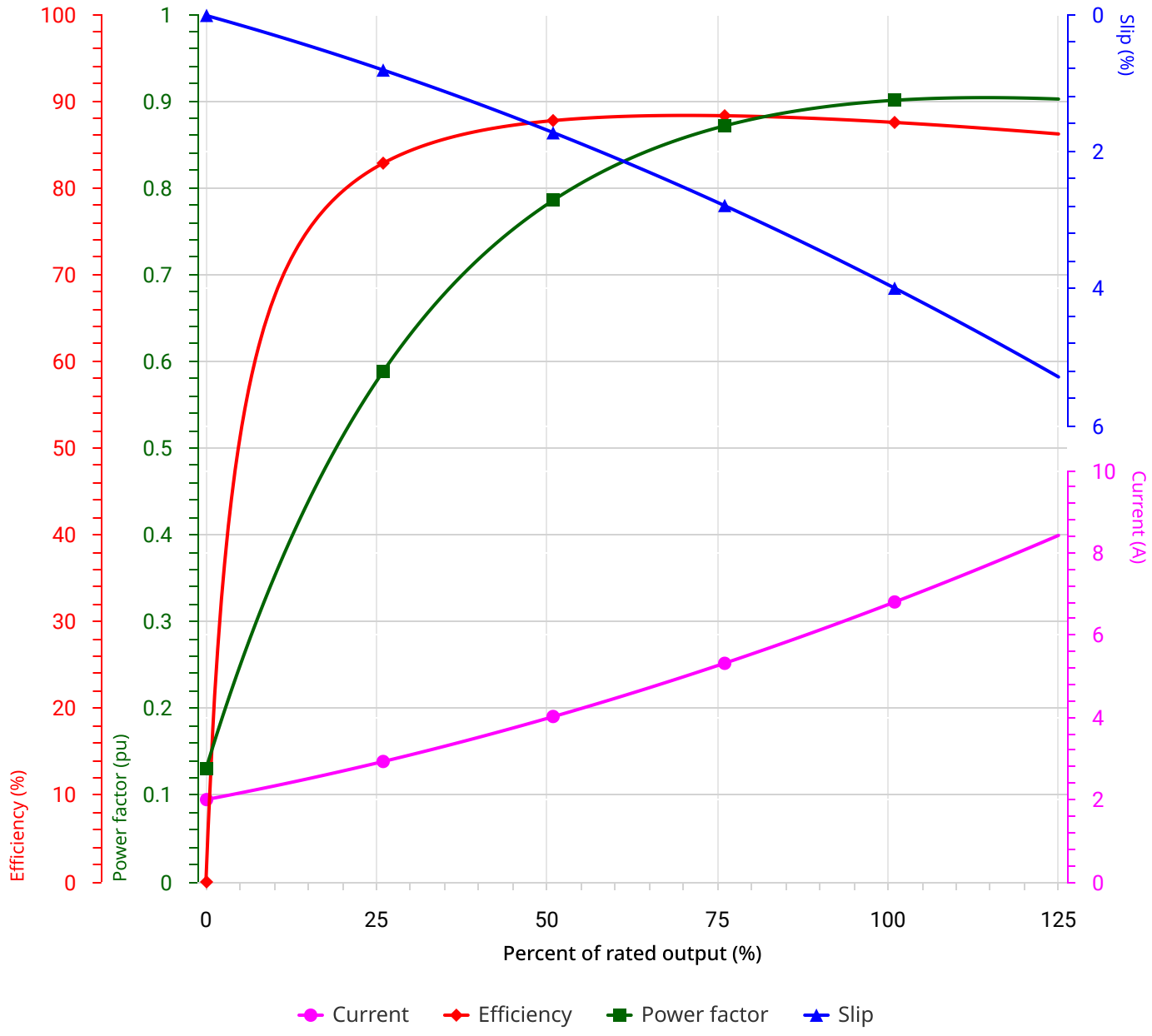
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Product code	: 12034382



Performance	: 5 HP (3.7 kW) 400V 50Hz 2P 182/4JM

Rated current	: 6.78 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 6.8 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.26 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2880 rpm	Design	: B

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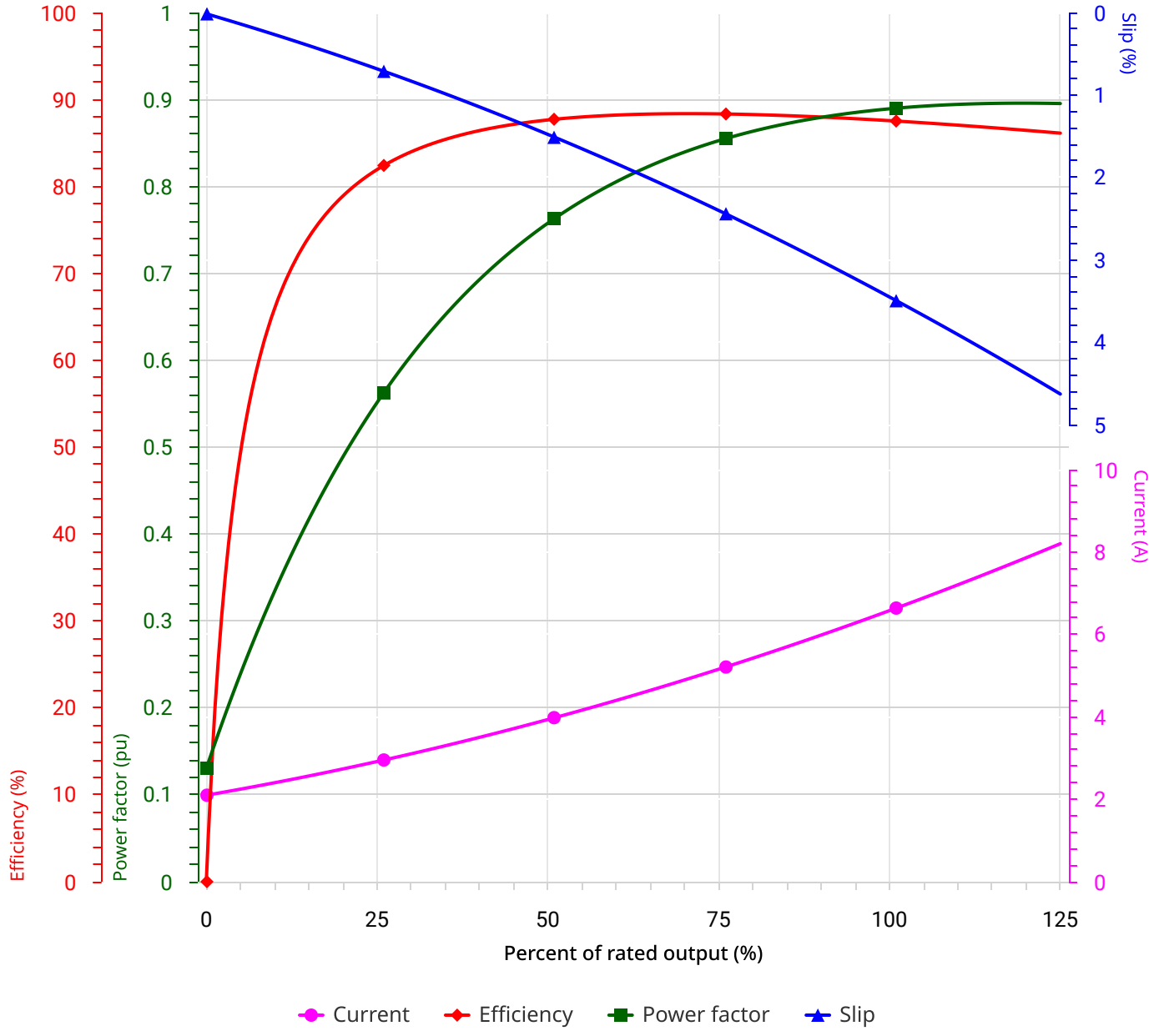
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Three Phase Induction Motor - Squirrel Cage

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Product code	: 12034382



Performance	: 5 HP (3.7 kW) 415V 50Hz 2P 182/4JM

Rated current	: 6.61 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.25 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2895 rpm	Design	: B

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