DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12082015

Frame	: 213/5JM	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	: 83.7 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0637 kgm²
Design	: B		

Output		10 HP (7.5	10 HP (7.5	7.5 HP (5.5	7.5 HP (5.5	7.5 HP (5.5	10 HP (7.5	10 HP (7.5	10 HP (7.5
Poles		4	4	4	4	4	4	4	4
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		25.3/12.7 A	27.4 A	11.5 A	11.4 A	11.3 A	15.1 A	14.4 A	14.1 A
L. R. Amperes			176 A	86.2 A	91.5 A	96.1 A	90.9 A	93.6 A	98.8 A
LRC		162/81.1 A	6.4 Code H	7.5 Code J	8.0 Code K	8.5 Code L	6.0 Code G	6.5 Code H	7.0 Code H
No load current				5.60 A		6.35 A			
Rated speed		6.4 Code H	10.0 A	1470 rpm	6.00 A	1475 rpm	5.60 A	6.00 A	6.35 A
Slip			1765 rpm	2.00 %	1475 rpm	1.67 %	1450 rpm	1455 rpm	1460 rpm
Rated torque		11.6/5.80 A	1.94 %	3.70 kgfm	1.67 %	3.69 kgfm	3.33 %	3.00 %	2.67 %
Locked rotor torque			4.00 kgfm	200 %	3.69 kgfm	260 %	5.01 kgfm	4.99 kgfm	4.97 kgfm
Breakdown torque		1765 rpm	240 %	300 %	240 %	360 %	165 %	180 %	190 %
Service factor		1.94 %	295 %	1.15	340 %	1.15	220 %	250 %	270 %
Temperature rise		4.11 kgfm	1.25	80 K	1.15	80 K	1.15	1.15	1.15
Noise level		240 %	80 K	56 dB(A)	80 K	56 dB(A)	80 K	80 K	80 K
Locked rotor time		295 %	58.0 dB(A)	14 s (hot) 25 s (cold)	56 dB(A)	14 s (hot) 25 s (cold)	56 dB(A)	56 dB(A)	56 dB(A)
		1.25	17 s (hot) 31 s (cold)		14 s (hot) 25 s (cold)		14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)	0 s (hot) 0 s (cold)
		80 K							
		58 dB(A)							
		17 s (hot) 31 s (cold)							
Efficiency (%)	50%	91.0	91.0	90.0	89.2	88.7	88.0	90.3	90.3
	75%	91.7	91.7	90.0	89.9	89.8	88.5	90.2	90.2
	100%	91.7	91.7	89.8	90.1	90.3	88.5	89.5	90.2
Power Factor	Start	0.43	0.43	0.51	0.51	0.51	0.51	0.51	0.51
	50%	0.65	0.65	0.61	0.57	0.53	0.72	0.68	0.64
	75%	0.76	0.76	0.74	0.70	0.67	0.81	0.79	0.76
	100%	0.81	0.81	0.81	0.77	0.75	0.85	0.84	0.82
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		8.78	8.78	11.02	10.66	10.42	12.61	11.38	10.54
P2 (0,5;1,0)		7.32	7.32	9.19	8.89	8.69	10.51	9.49	8.79
P3 (0,25;1,0)		7.08	7.08	8.89	8.60	8.41	10.17	9.18	8.50
P4 (0,9;0,5)		4.57	4.57	5.74	5.55	5.43	6.57	5.93	5.49
P5 (0,5;0,5)		3.16	3.16	3.97	3.84	3.75	4.54	4.10	3.80
P6 (0,5;0,25)		2.23	2.23	2.80	2.71	2.65	3.20	2.89	2.68
P7 (0,25;0,25)		1.55	1.55	1.94	1.88	1.84	2.22	2.00	1.86

	Drive end	Non drive end
Bearing type	6309-Z-C3	6207-ZZ
Lubrication interval	20000 h	-
Lubricant amount	13 g	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 204 kgf
Max. compression : 287 kgf

Notes:

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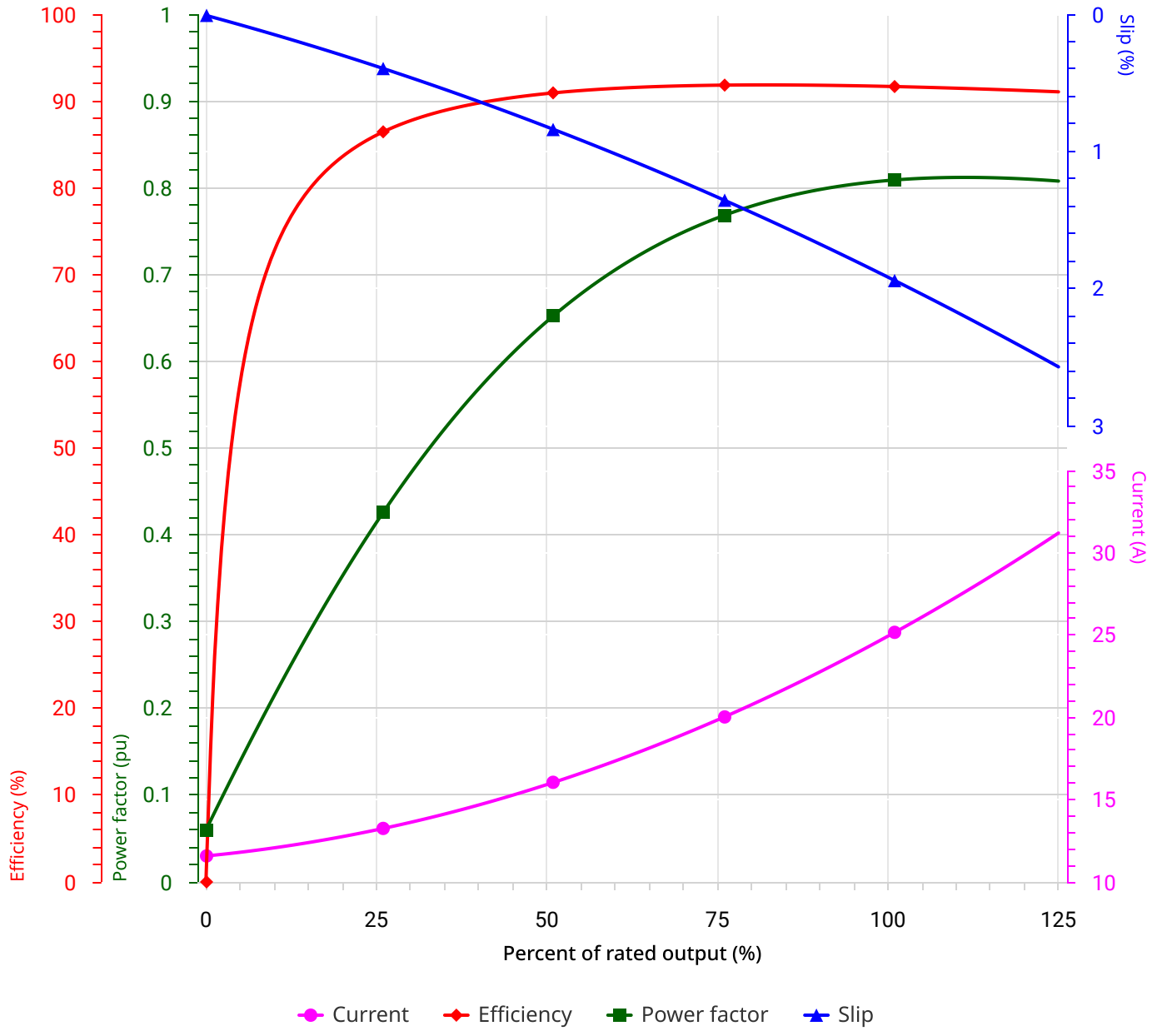
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12082015



Performance	: 10 HP (7.5 kW) 230/460V 60Hz 4P 213/5JM

Rated current	: 25.3/12.7 A	Moment of inertia (J)	: 0.0637 kgm²
LRC	: 6.4 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 4.11 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 295 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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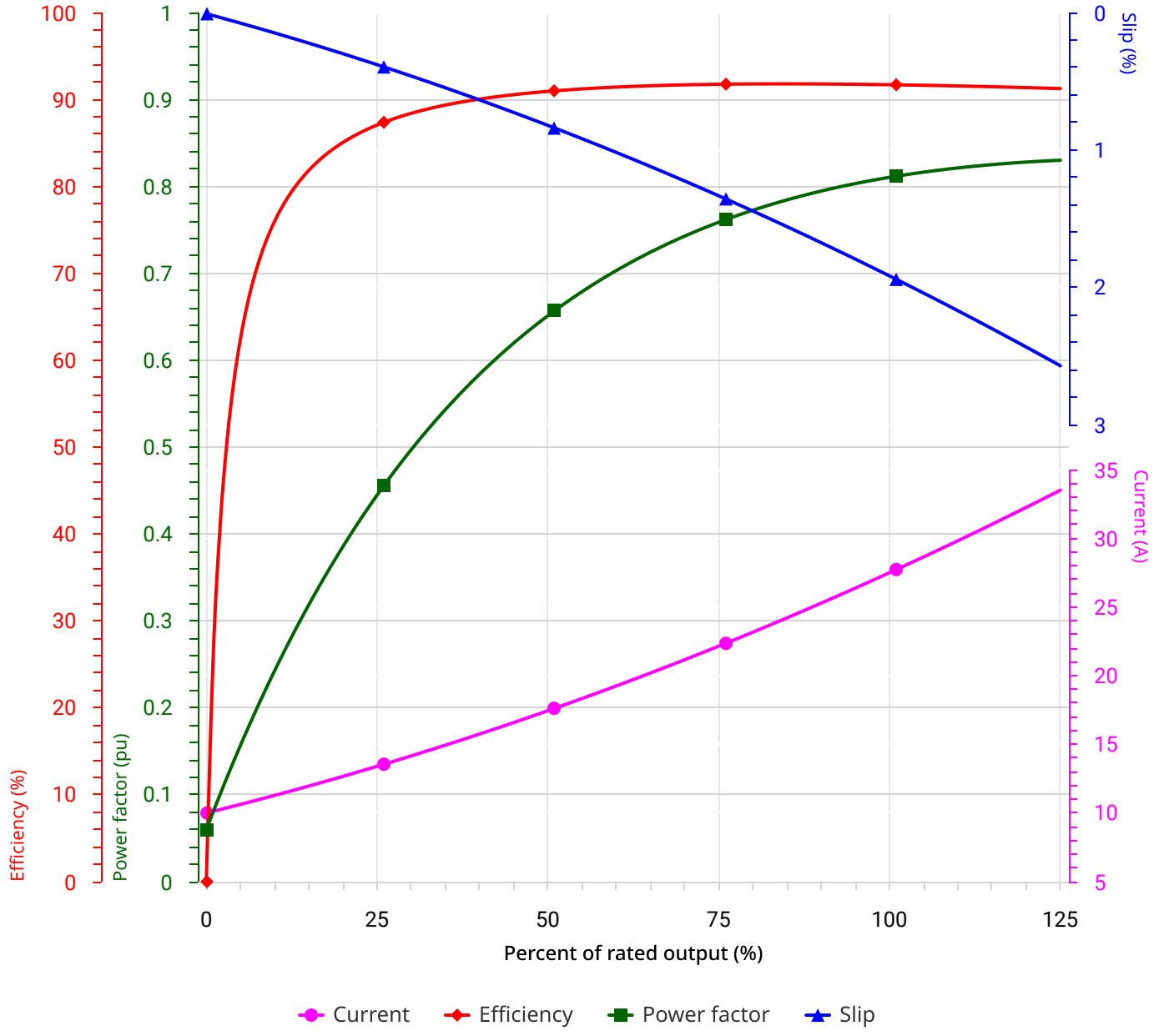
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12082015



Performance	: 10 HP (7.5 kW) 208V 60Hz 4P 213/5JM

Rated current	: 27.4 A	Moment of inertia (J)	: 0.0637 kgm²
LRC	: 6.4 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 4.00 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 295 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: 00002

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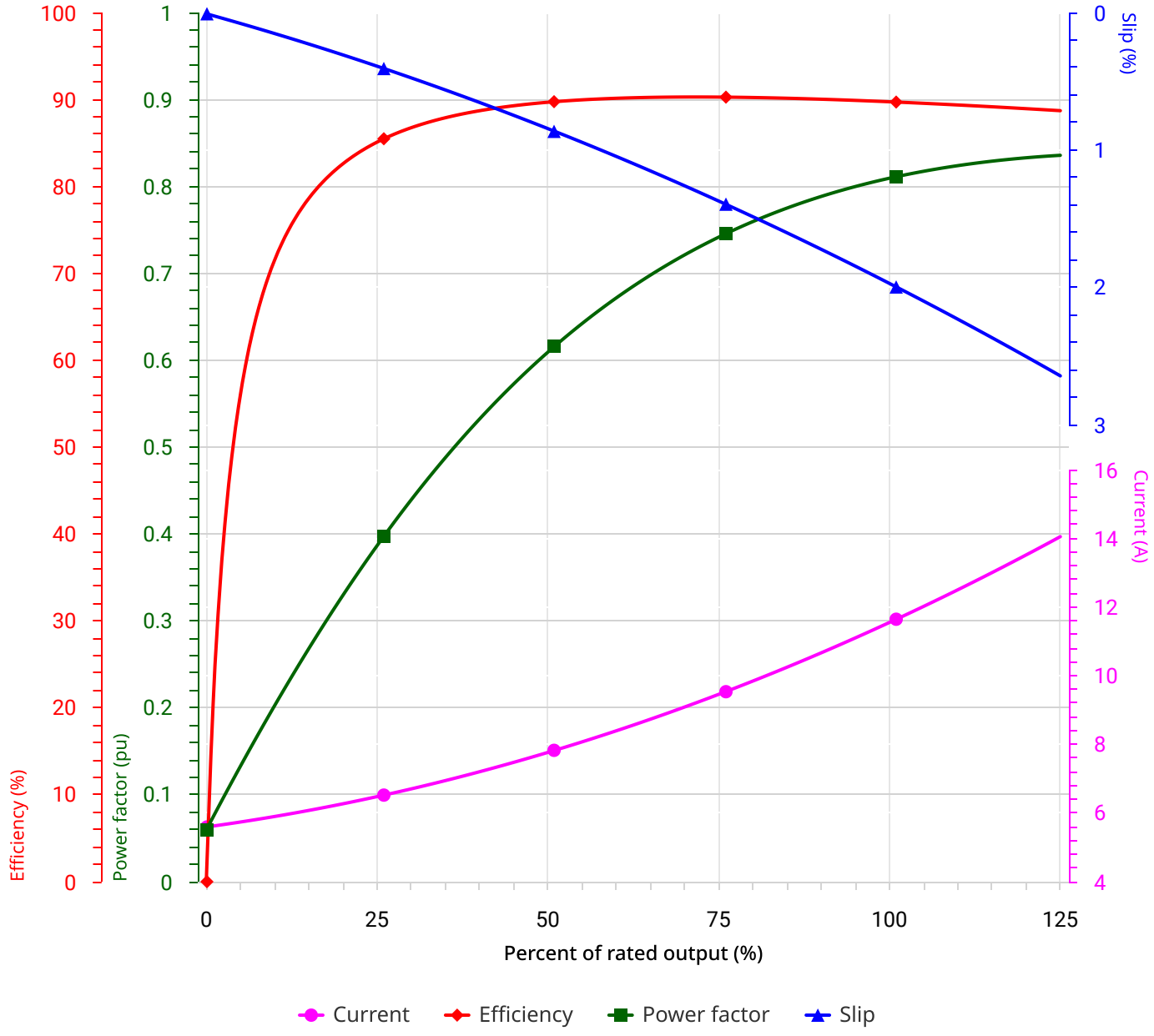
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12082015



Performance	: 7.5 HP (5.5 kW) 380V 50Hz 4P 213/5JM

Rated current	: 11.5 A	Moment of inertia (J)	: 0.0637 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 3.70 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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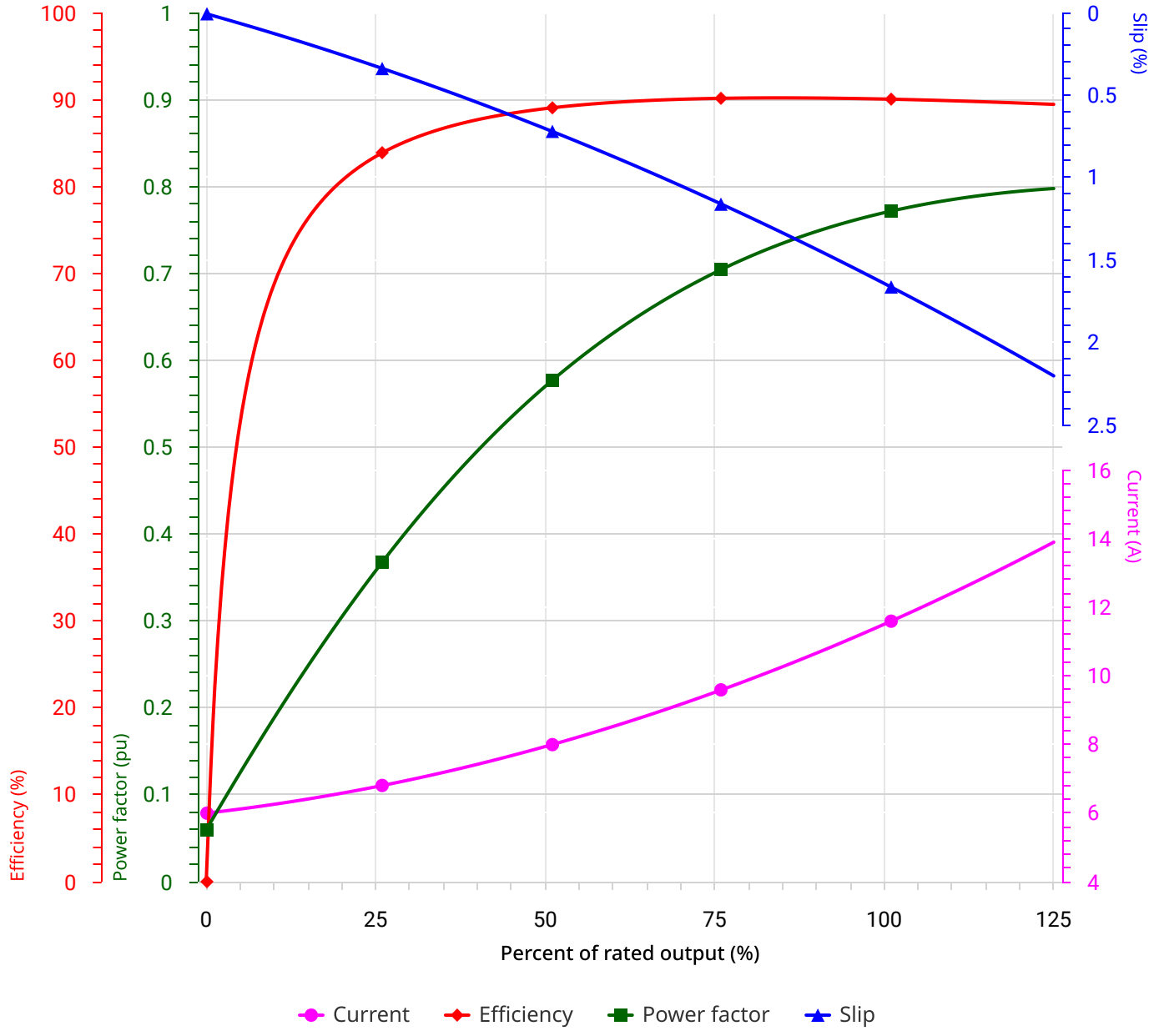
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12082015



Performance	: 7.5 HP (5.5 kW) 400V 50Hz 4P 213/5JM

Rated current	: 11.4 A	Moment of inertia (J)	: 0.0637 kgm²
LRC	: 8.0 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 3.69 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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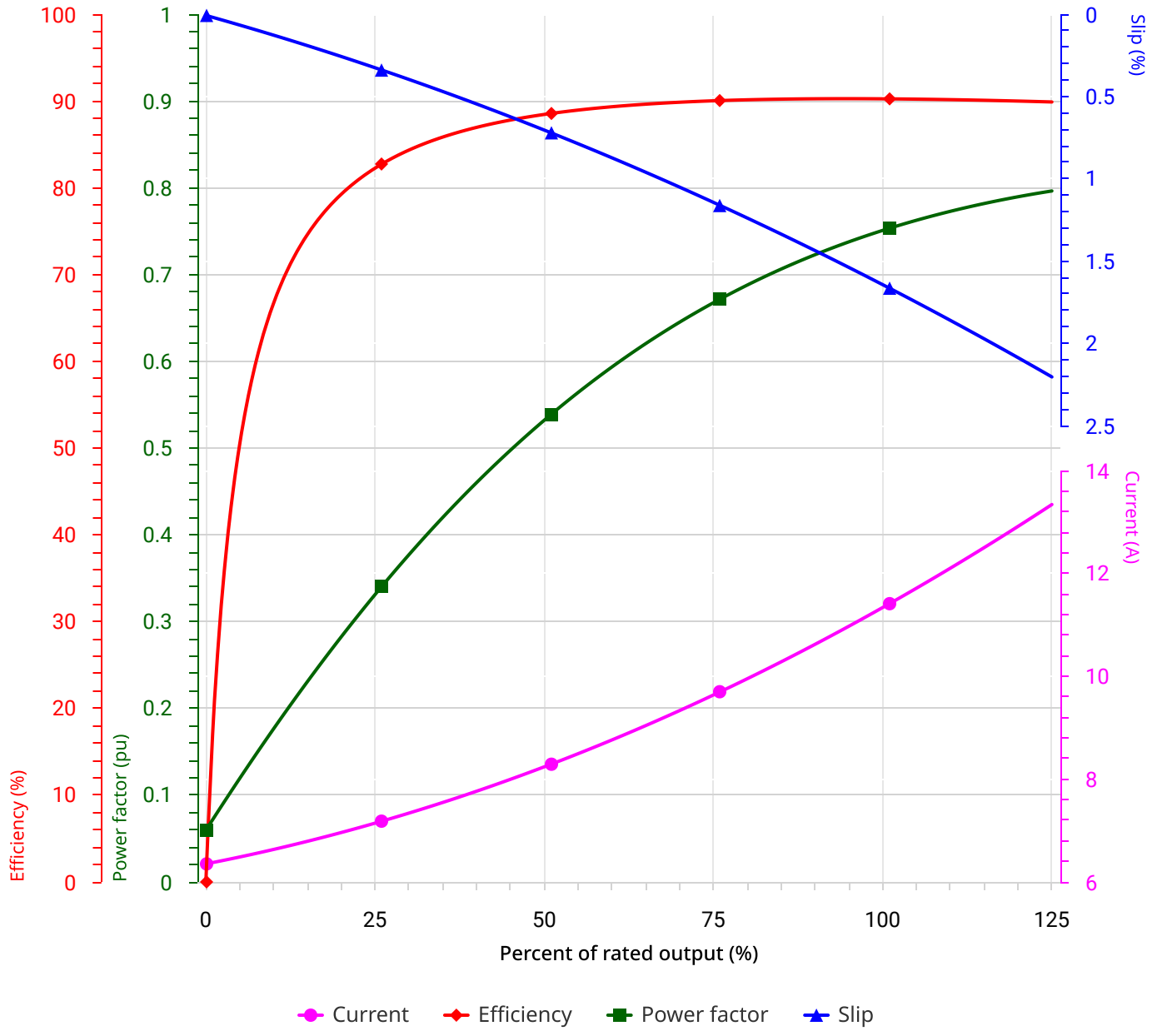
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12082015



Performance	: 7.5 HP (5.5 kW) 415V 50Hz 4P 213/5JM

Rated current	: 11.3 A	Moment of inertia (J)	: 0.0637 kgm²
LRC	: 8.5 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 3.69 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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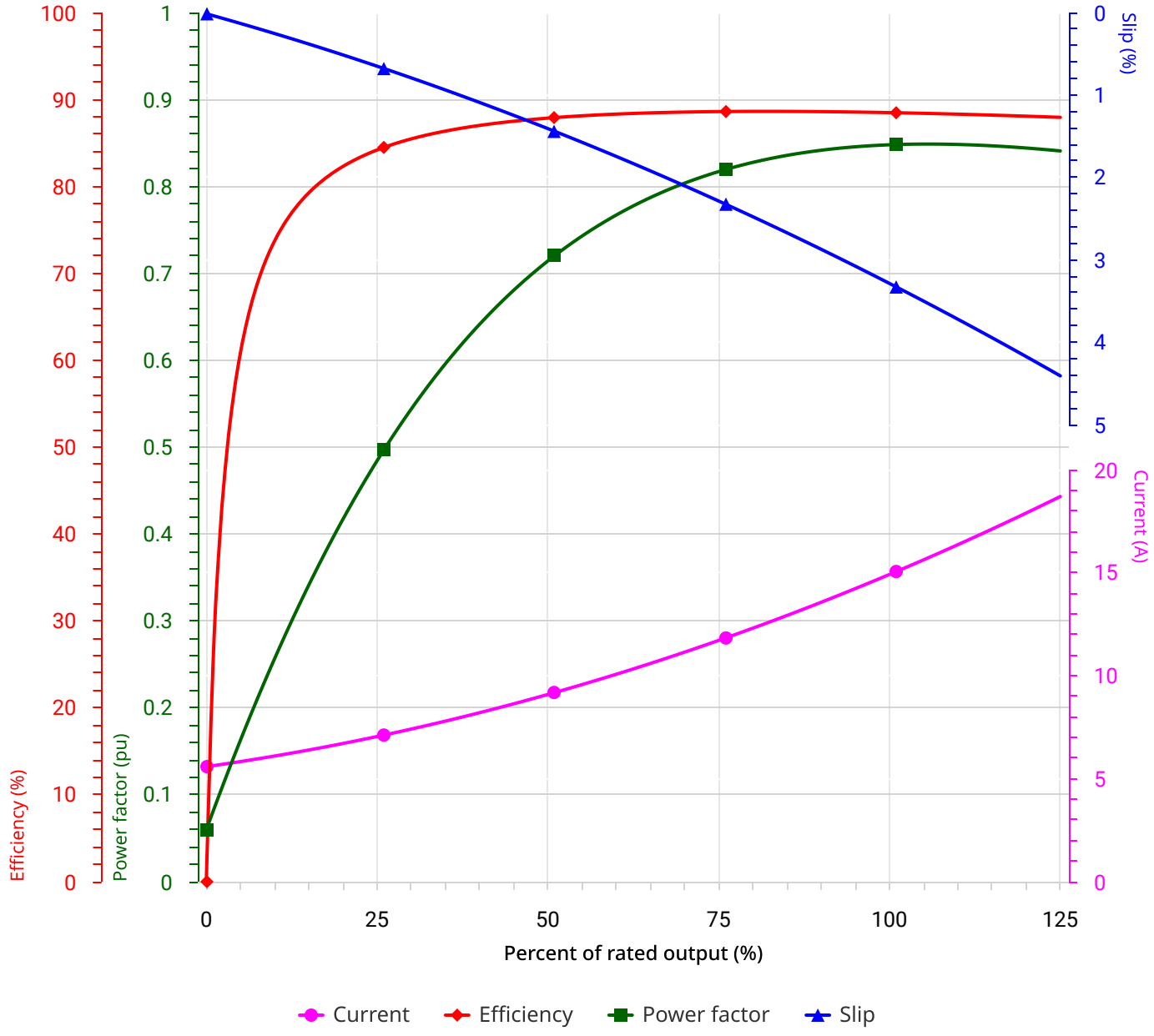
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Product code	: 12082015



Performance	: 10 HP (7.5 kW) 380V 50Hz 4P 213/5JM

Rated current	: 15.1 A	Moment of inertia (J)	: 0.0637 kgm²
LRC	: 6.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 5.01 kgfm	Insulation class	: F
Locked rotor torque	: 165 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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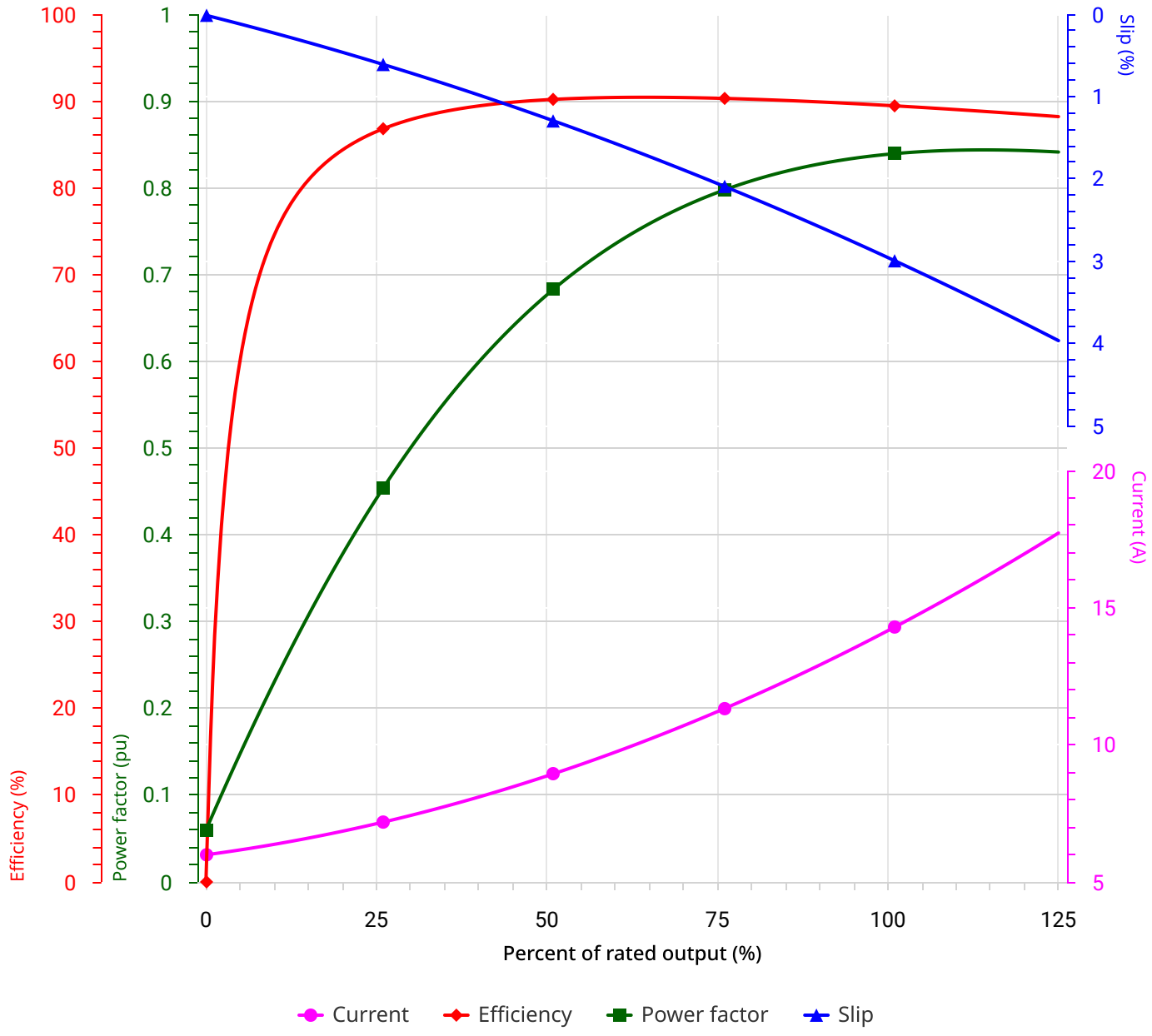
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Product code	: 12082015



Performance	: 10 HP (7.5 kW) 400V 50Hz 4P 213/5JM

Rated current	: 14.4 A	Moment of inertia (J)	: 0.0637 kgm²
LRC	: 6.5 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 4.99 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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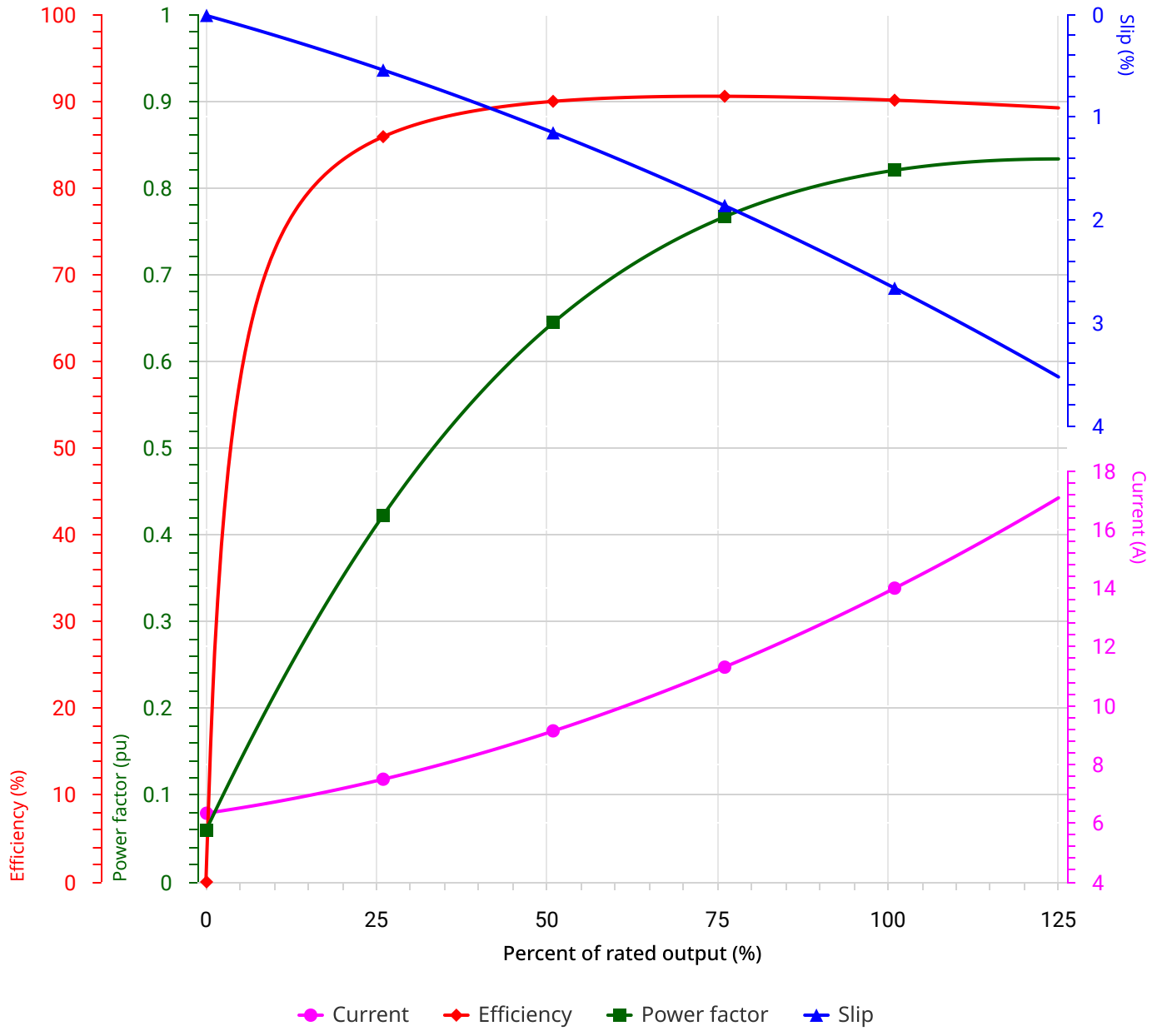
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Product code	: 12082015



Performance	: 10 HP (7.5 kW) 415V 50Hz 4P 213/5JM

Rated current	: 14.1 A	Moment of inertia (J)	: 0.0637 kgm²
LRC	: 7.0 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 4.97 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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