DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12037974

Frame	: 182JM	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	: 41.7 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.008 kgm²
Design	: B		

Output		3 HP (2.2 kW)	2 HP (1.5 kW)	2 HP (1.5 kW)	2 HP (1.5 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)
Poles		2	2	2	2	2	2	2
Frequency		60 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	380 V	400 V	415 V	380 V	400 V	415 V
Rated current		7.42/3.71 A	3.20 A	3.15 A	3.11 A	4.39 A	4.27 A	4.16 A
L. R. Amperes		63.8/31.9 A	30.7 A	33.7 A	34.5 A	29.9 A	32.5 A	33.7 A
LRC		8.6 Code K	9.6 Code M	10.7 Code N	11.1 Code N	6.8 Code H	7.6 Code J	8.1 Code K
No load current		2.90/1.45 A	1.40 A	1.50 A	1.60 A	1.40 A	1.50 A	1.60 A
Rated speed		3515 rpm	2930 rpm	2935 rpm	2940 rpm	2890 rpm	2890 rpm	2910 rpm
Slip		2.36 %	2.33 %	2.17 %	2.00 %	3.67 %	3.67 %	3.00 %
Rated torque		0.619 kgfm	0.495 kgfm	0.495 kgfm	0.494 kgfm	0.753 kgfm	0.753 kgfm	0.748 kgfm
Locked rotor torque		220 %	250 %	290 %	310 %	170 %	200 %	210 %
Breakdown torque		350 %	380 %	430 %	460 %	250 %	290 %	310 %
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Noise level		66 dB(A)	62 dB(A)	62 dB(A)	62 dB(A)	62 dB(A)	62 dB(A)	62 dB(A)
Locked rotor time		21 s (hot) 38 s (cold)	26 s (hot) 47 s (cold)	22 s (hot) 40 s (cold)	21 s (hot) 38 s (cold)	19 s (hot) 34 s (cold)	18 s (hot) 32 s (cold)	17 s (hot) 31 s (cold)
Efficiency (%)	50%	82.5	81.0	80.6	79.7	84.0	84.0	84.0
	75%	86.5	84.5	84.5	84.1	86.5	86.5	86.5
	100%	86.5	85.8	85.8	85.9	85.5	85.5	85.5
Power Factor	Start	0.52	0.52	0.52	0.52	0.52	0.52	0.52
	50%	0.72	0.68	0.65	0.59	0.77	0.74	0.71
	75%	0.82	0.79	0.73	0.70	0.85	0.83	0.81
	100%	0.86	0.83	0.8	0.78	0.89	0.87	0.86
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)		14.57	15.45	15.45	15.32	15.83	15.83	15.83
P2 (0,5;1,0)		10.93	11.59	11.59	11.49	11.87	11.87	11.87
P3 (0,25;1,0)		9.88	10.47	10.47	10.39	10.73	10.73	10.73
P4 (0,9;0,5)		8.51	9.03	9.03	8.96	9.25	9.25	9.25
P5 (0,5;0,5)		4.81	5.10	5.10	5.06	5.23	5.23	5.23
P6 (0,5;0,25)		3.47	3.68	3.68	3.65	3.77	3.77	3.77
P7 (0,25;0,25)		2.11	2.24	2.24	2.22	2.30	2.30	2.30

	Drive end	Non drive end
Bearing type	6307-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 27 kgf
Max. compression : 69 kgf

Notes:

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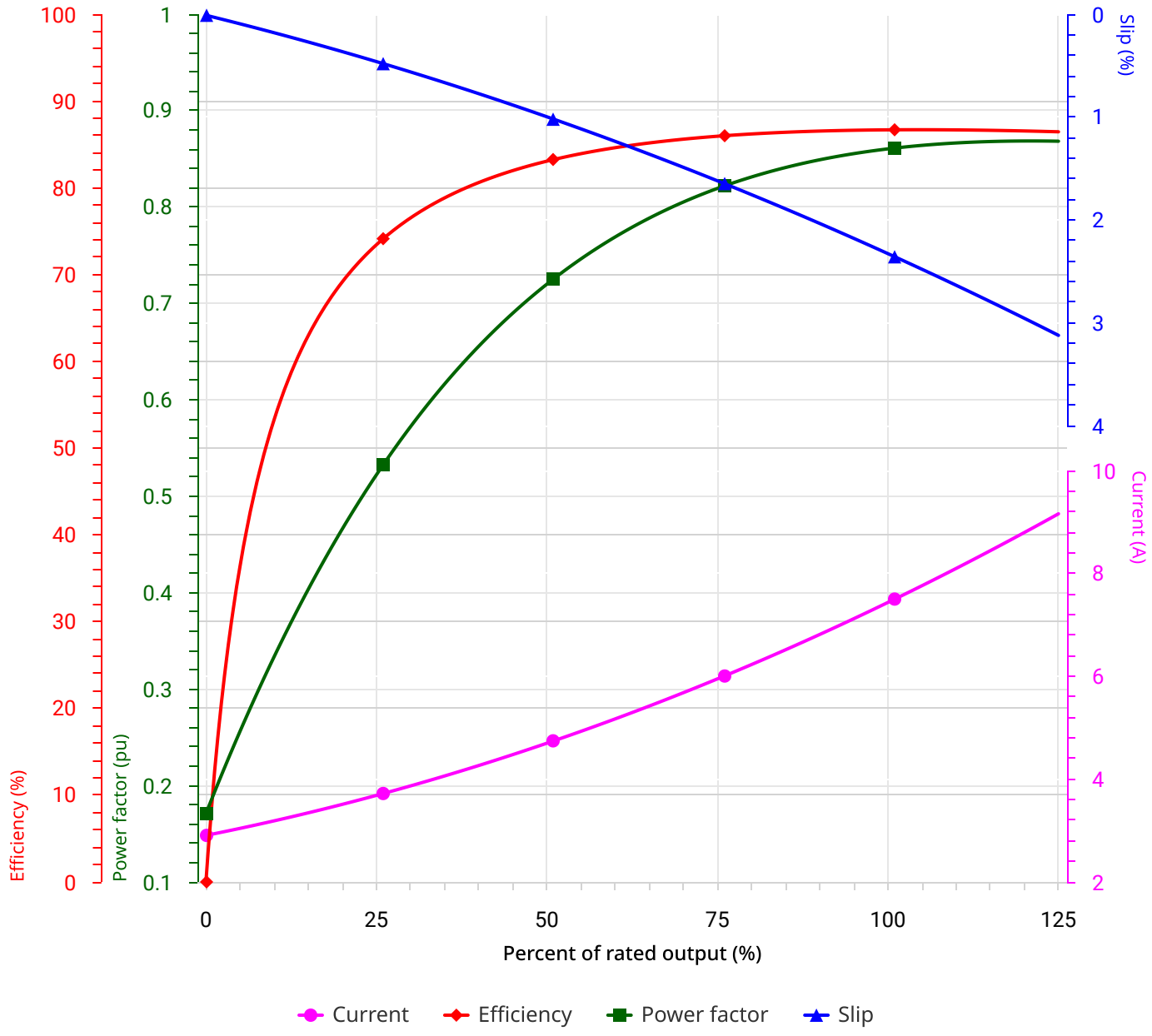
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12037974



Performance	: 3 HP (2.2 kW) 208/230/460V 60Hz 2P 182JM

Rated current	: 8.01/7.42/3.71 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 8.6 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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				2026/11/14

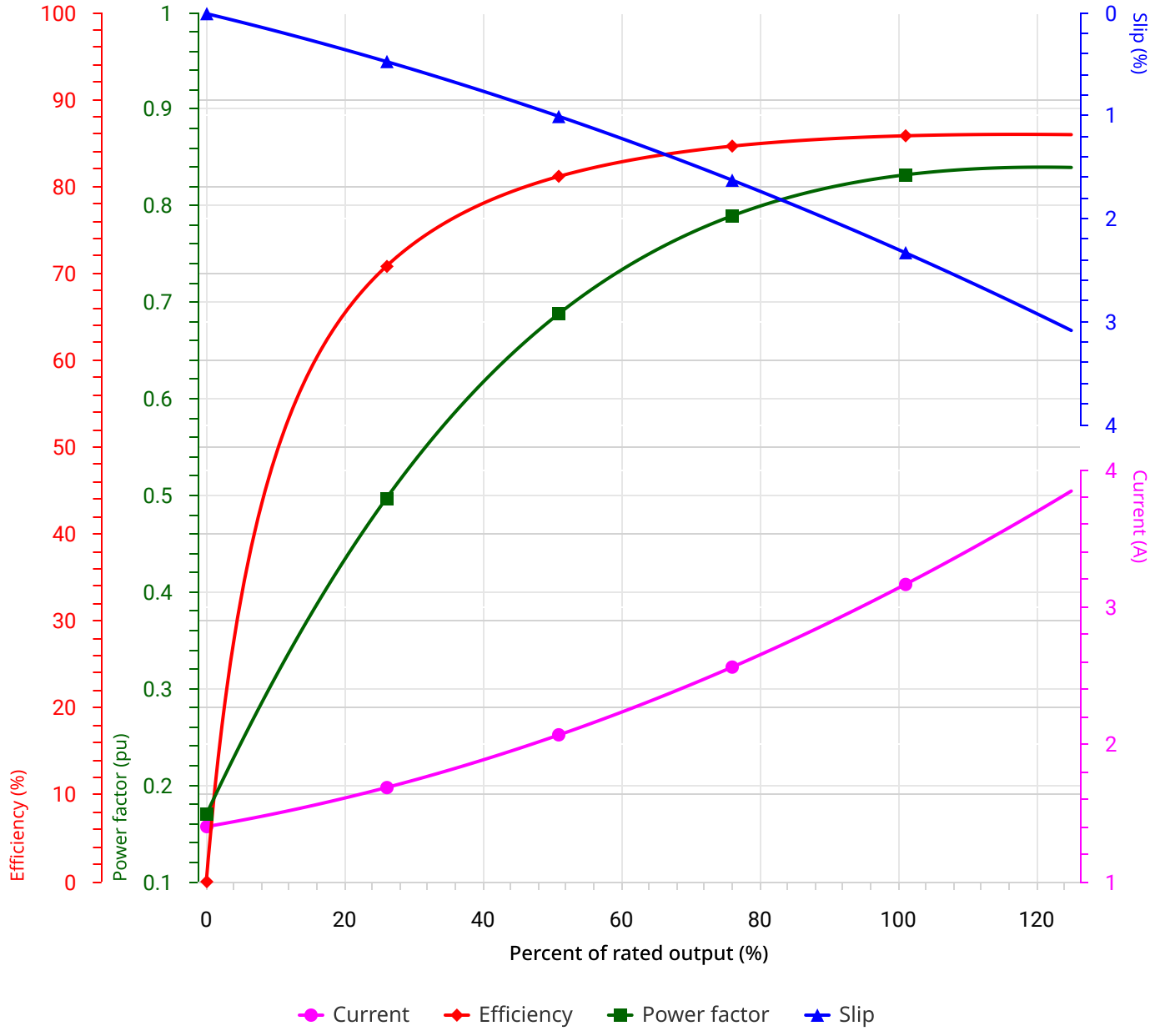
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12037974



Performance	: 2 HP (1.5 kW) 380V 50Hz 2P 182JM		
Rated current	: 3.20 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 9.6 Code M	Duty cycle	: Cont.(S1)
Rated torque	: 0.495 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B

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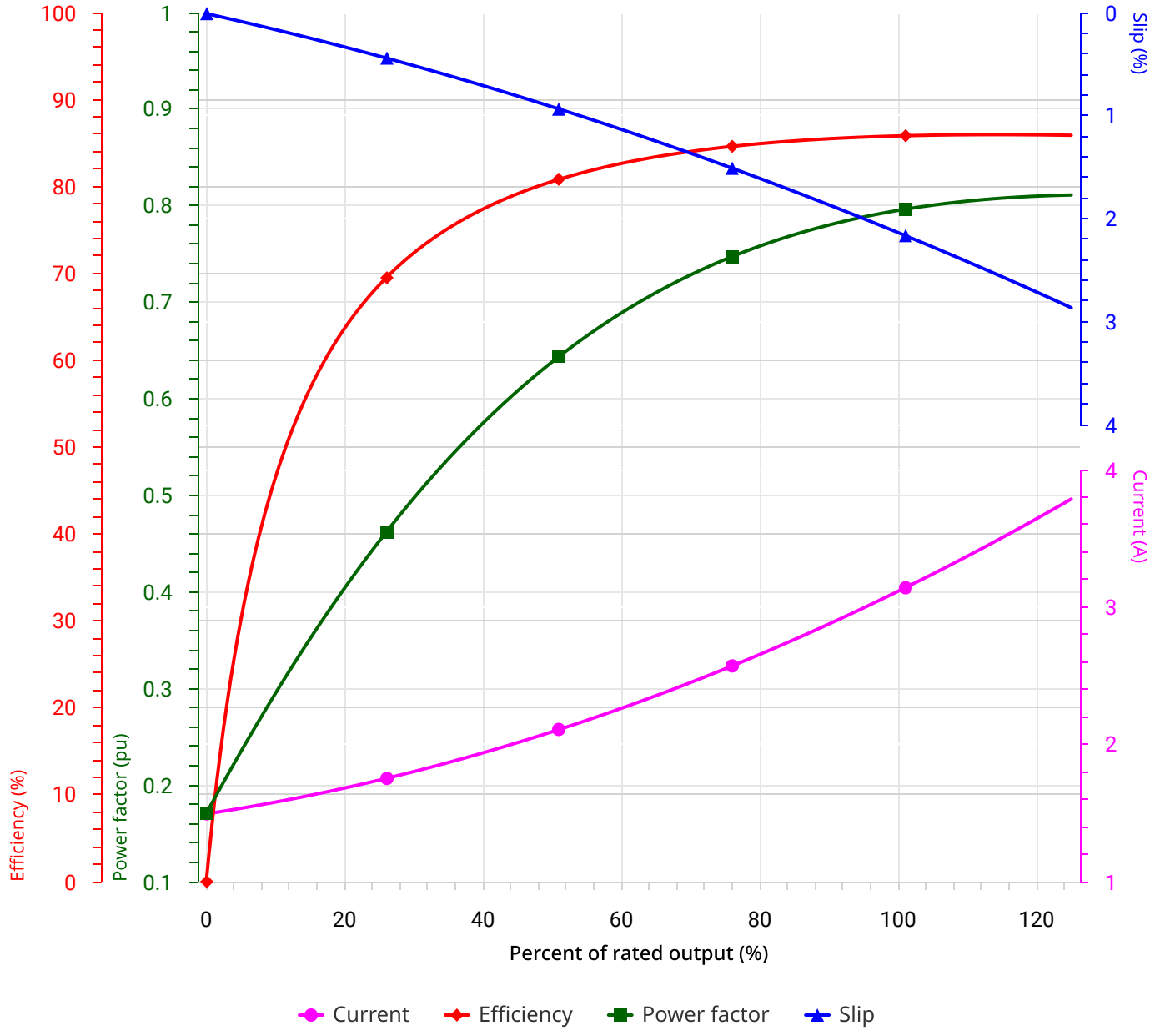
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Three Phase Induction Motor - Squirrel Cage

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Product code	: 12037974



Performance	: 2 HP (1.5 kW) 400V 50Hz 2P 182JM

Rated current	: 3.15 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 10.7 Code N	Duty cycle	: Cont.(S1)
Rated torque	: 0.495 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.25
Breakdown torque	: 430 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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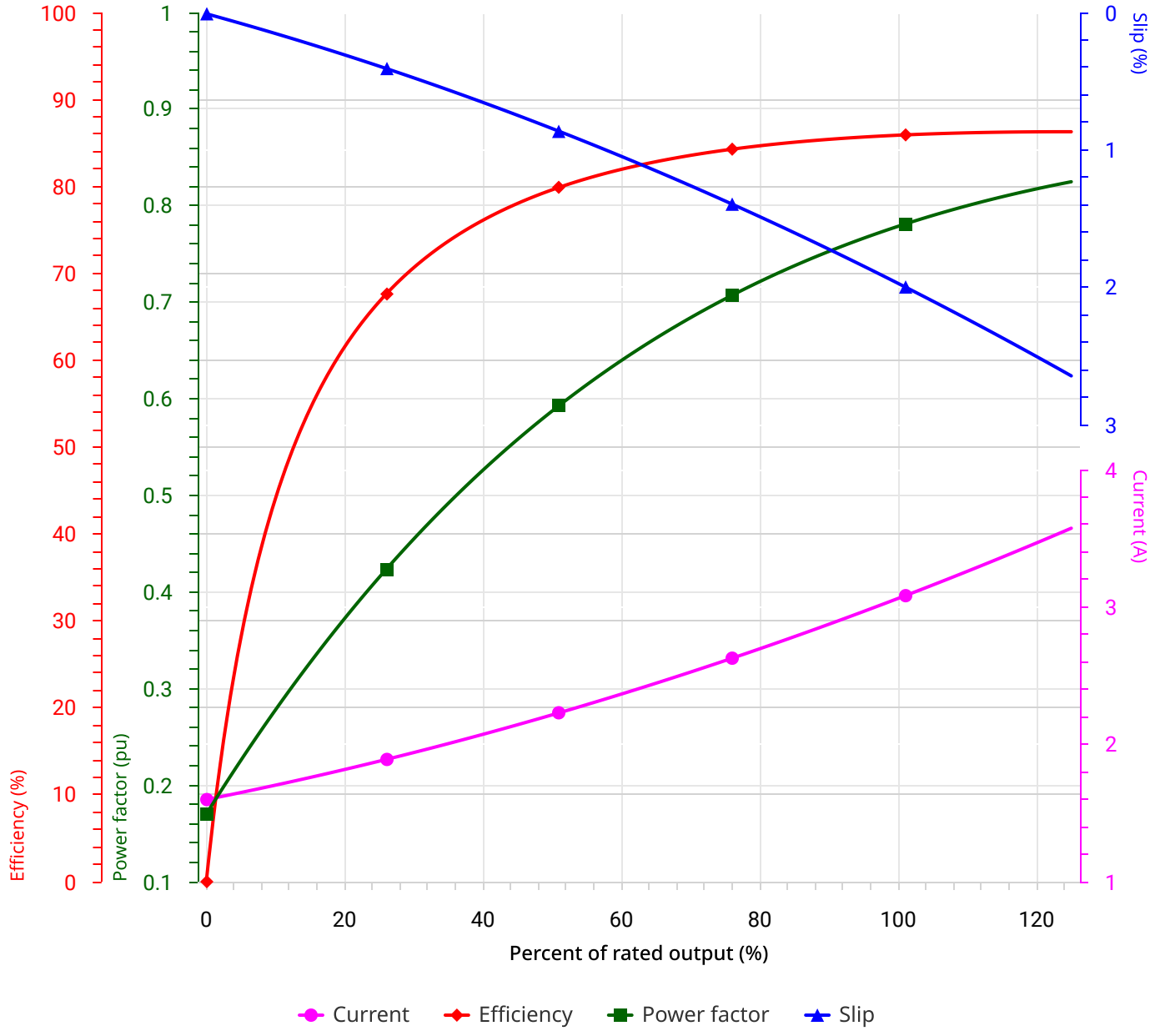
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Performance	: 2 HP (1.5 kW) 415V 50Hz 2P 182JM		
Rated current	: 3.11 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 11.1 Code N	Duty cycle	: Cont.(S1)
Rated torque	: 0.494 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 460 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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				2026/11/14

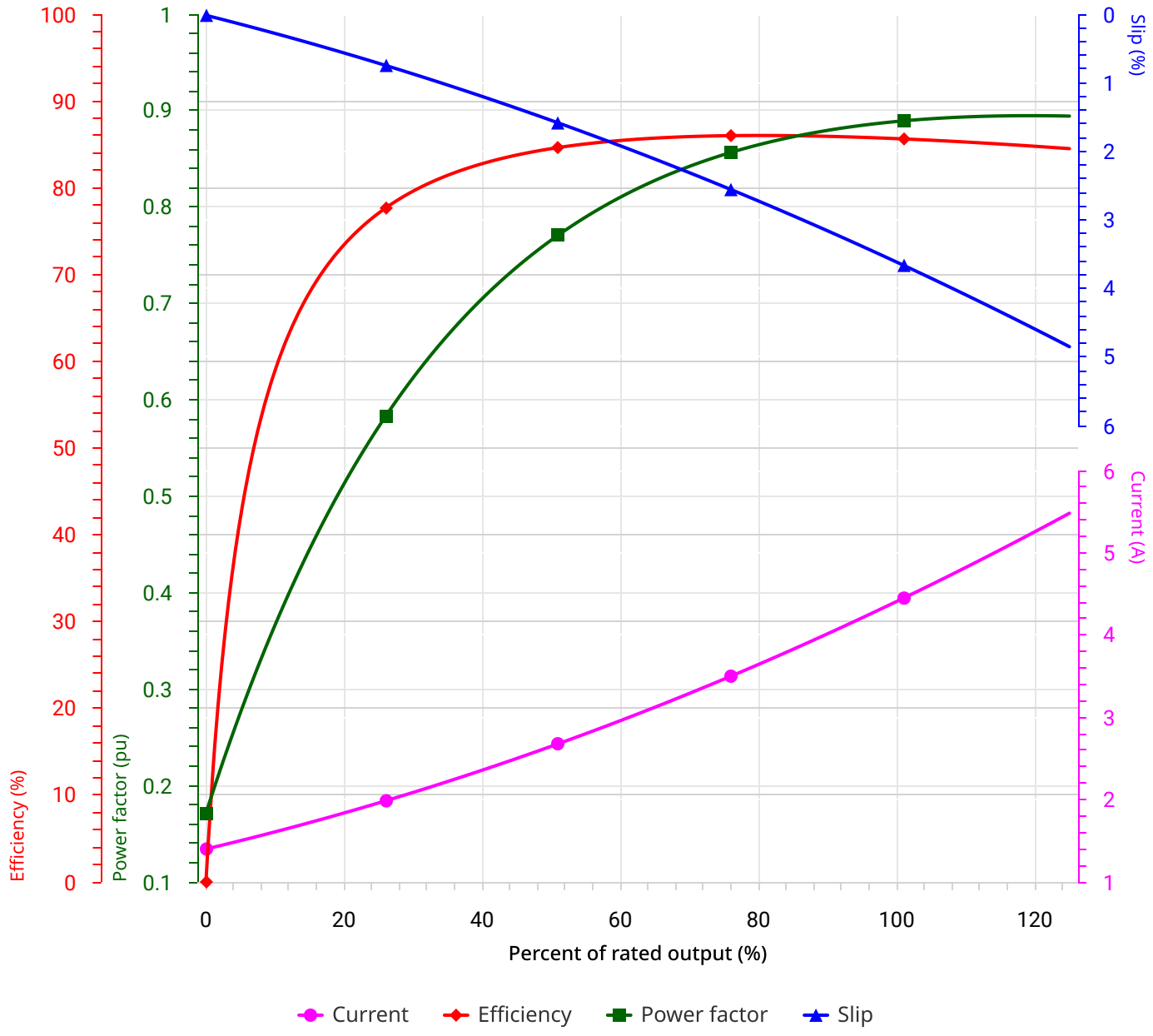
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Performance	: 3 HP (2.2 kW) 380V 50Hz 2P 182JM		
Rated current	: 4.39 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 6.8 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 0.753 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

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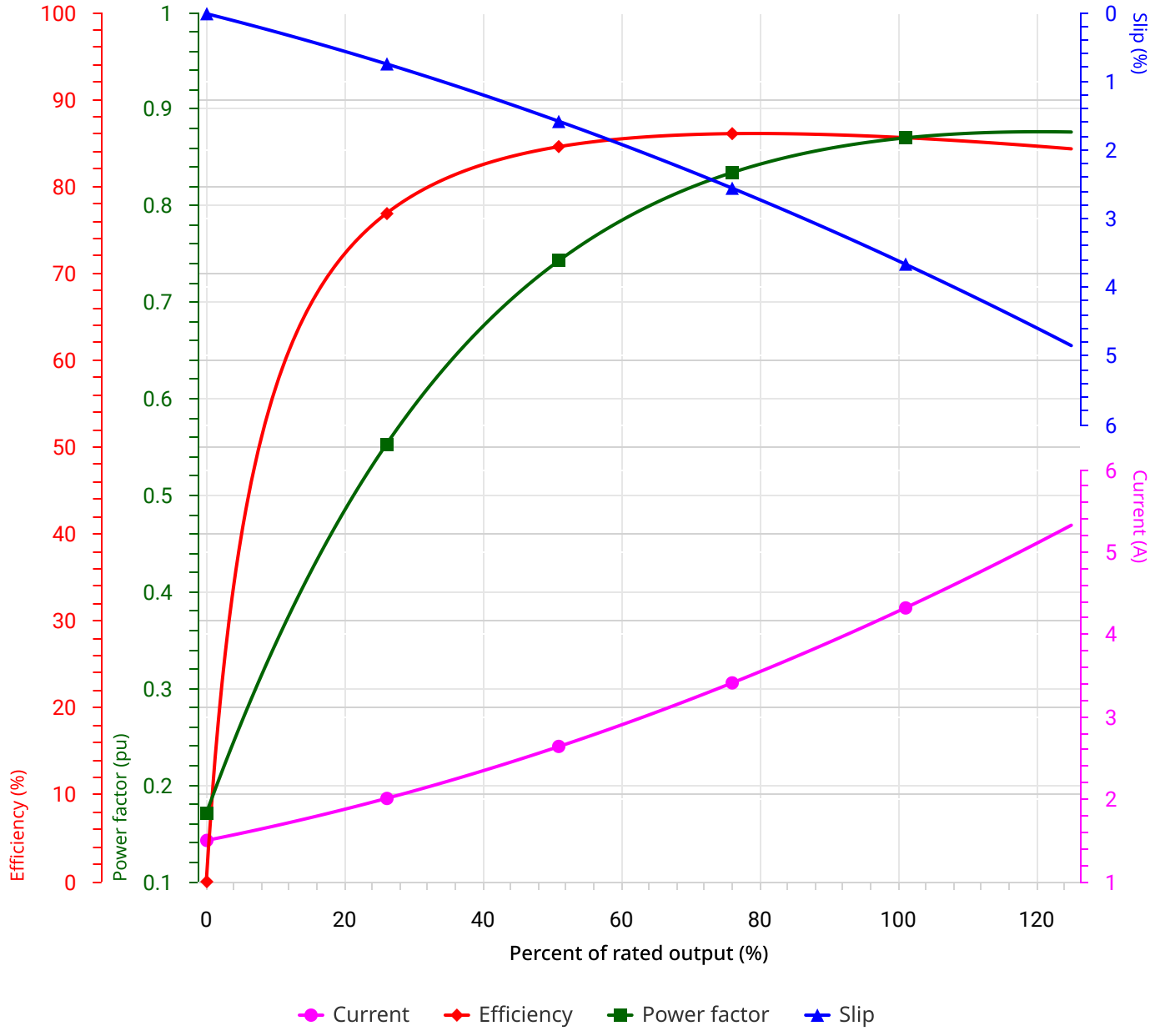
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Performance	: 3 HP (2.2 kW) 400V 50Hz 2P 182JM

Rated current	: 4.27 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.753 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

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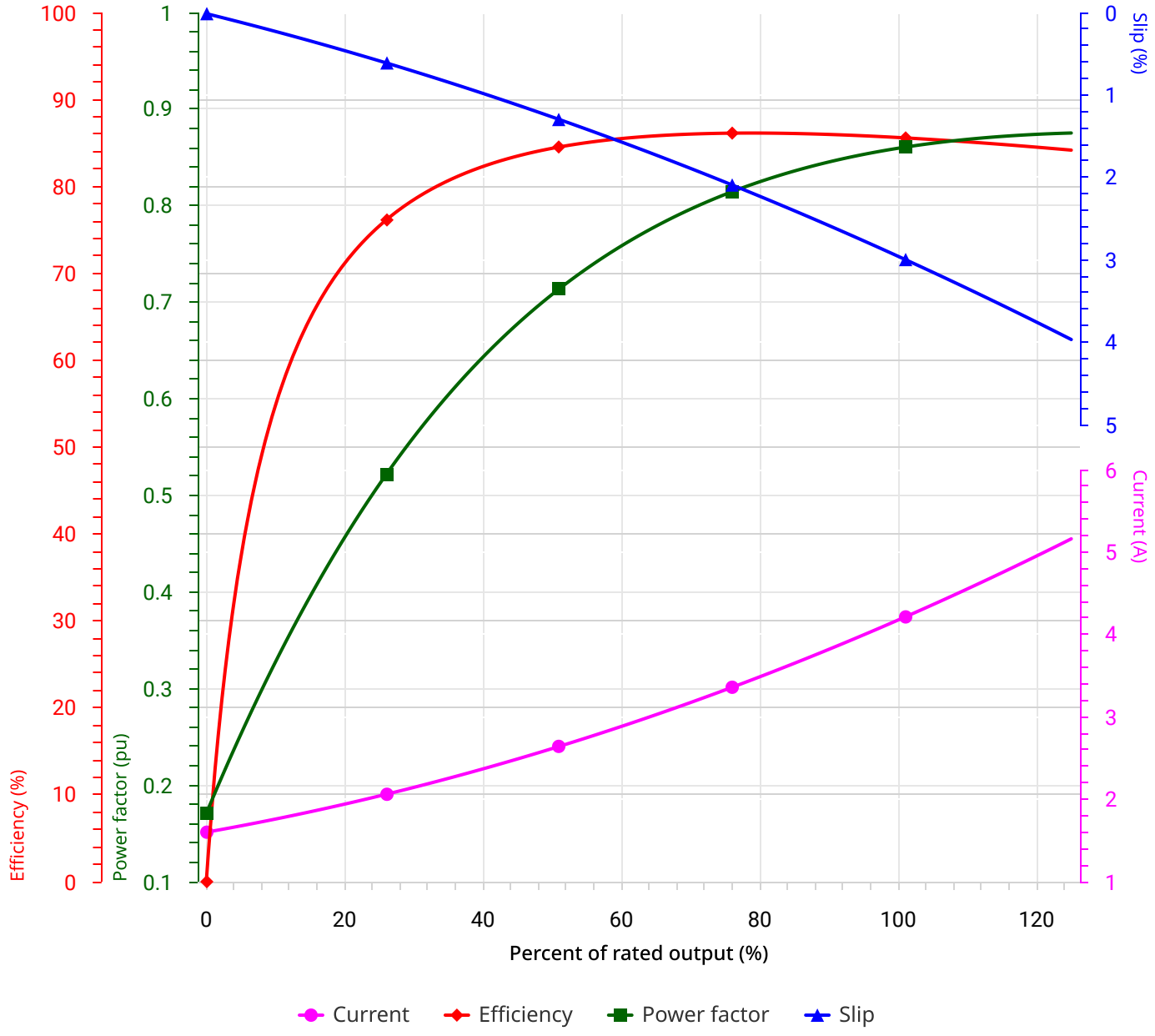
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Product code	: 12037974



Performance	: 3 HP (2.2 kW) 415V 50Hz 2P 182JM		
Rated current	: 4.16 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 8.1 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.748 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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