DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11583024

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	: 46.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0169 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		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		13.0/6.49 A	14.3 A	6.42 A	6.21 A	6.23 A	7.74 A	7.44 A	7.35 A
L. R. Amperes		97.3/48.7 A	107 A	44.9 A	47.8 A	51.1 A	44.9 A	47.6 A	50.7 A
LRC		7.5 Code J	7.5 Code J	7.0 Code J	7.7 Code K	8.2 Code L	5.8 Code G	6.4 Code H	6.9 Code J
No load current		6.00/3.00 A	5.17 A	3.00 A	3.40 A	3.70 A	3.00 A	3.40 A	3.70 A
Rated speed		1750 rpm	1750 rpm	1450 rpm	1455 rpm	1460 rpm	1430 rpm	1440 rpm	1445 rpm
Slip		2.78 %	2.78 %	3.33 %	3.00 %	2.67 %	4.67 %	4.00 %	3.67 %
Rated torque		2.07 kgfm	2.00 kgfm	2.00 kgfm	2.00 kgfm	1.99 kgfm	2.54 kgfm	2.52 kgfm	2.51 kgfm
Locked rotor torque		230 %	225 %	230 %	260 %	290 %	185 %	210 %	230 %
Breakdown torque		300 %	300 %	300 %	320 %	350 %	225 %	250 %	270 %
Service factor		1.25	1.25	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Noise level		56 dB(A)	56.0 dB(A)	56 dB(A)	56 dB(A)	56 dB(A)	56 dB(A)	56 dB(A)	56 dB(A)
Locked rotor time		15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)
Efficiency (%)	50%	88.5	88.5	87.5	86.7	86.5	88.5	87.5	87.5
	75%	89.5	89.5	88.2	88.2	88.2	87.5	88.5	88.5
	100%	89.5	89.5	87.7	88.2	88.2	86.5	87.5	87.5
Power Factor	Start	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
	50%	0.60	0.60	0.61	0.57	0.53	0.69	0.65	0.61
	75%	0.72	0.72	0.75	0.71	0.67	0.80	0.77	0.74
	100%	0.8	0.8	0.81	0.79	0.76	0.84	0.82	0.8
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		11.09	11.09	13.26	12.65	12.65	14.76	13.51	13.51
P2 (0,5;1,0)		9.34	9.34	11.17	10.65	10.65	12.43	11.37	11.37
P3 (0,25;1,0)		9.43	9.43	11.27	10.75	10.75	12.54	11.48	11.48
P4 (0,9;0,5)		5.55	5.55	6.64	6.33	6.33	7.39	6.76	6.76
P5 (0,5;0,5)		3.86	3.86	4.61	4.40	4.40	5.13	4.70	4.70
P6 (0,5;0,25)		2.67	2.67	3.19	3.05	3.05	3.56	3.25	3.25
P7 (0,25;0,25)		1.93	1.93	2.30	2.20	2.20	2.56	2.35	2.35

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

Foundation loads
Max. traction : 121 kgf
Max. compression : 167 kgf

Notes:

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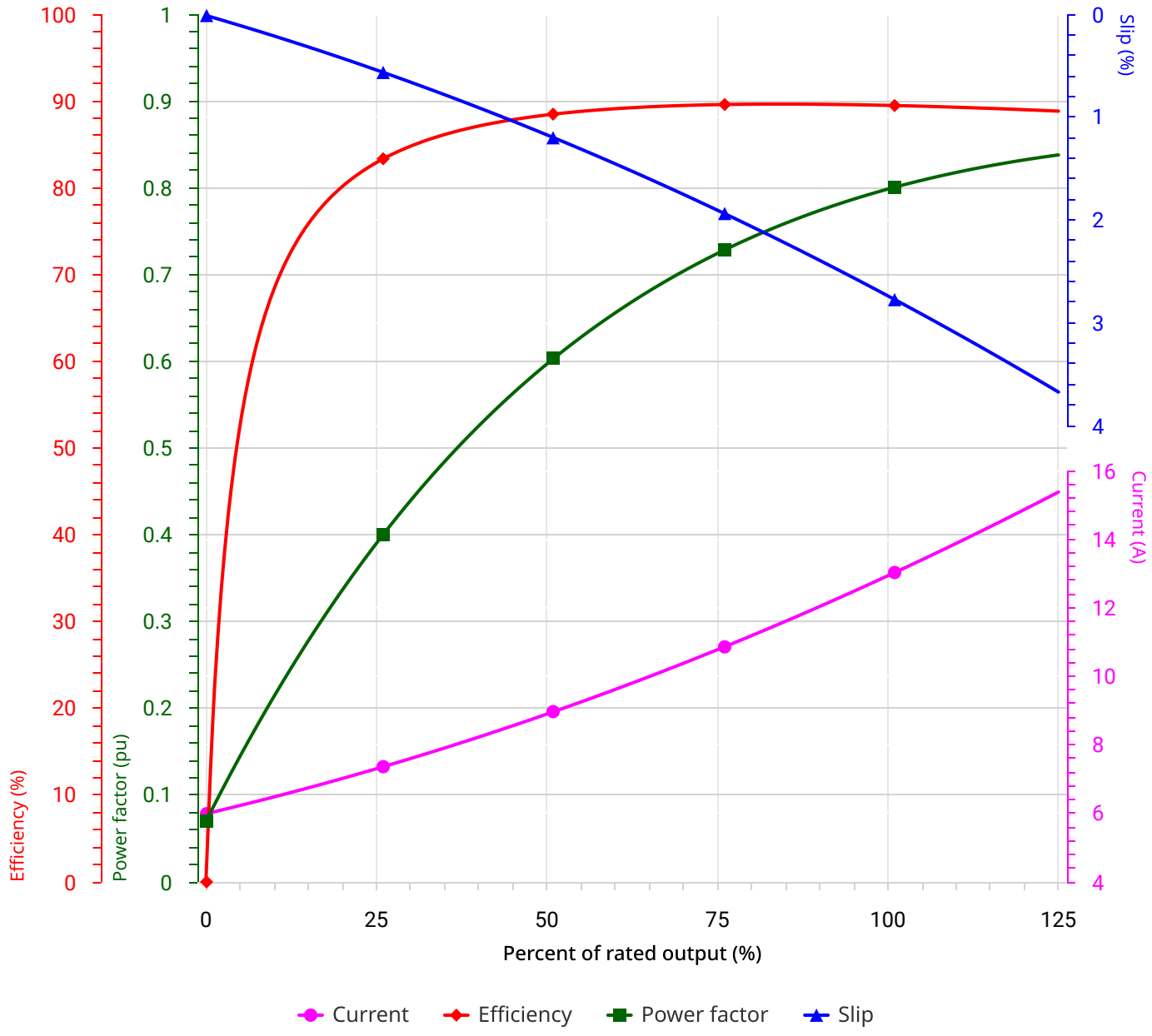
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11583024



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

Rated current	: 13.0/6.49 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.07 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

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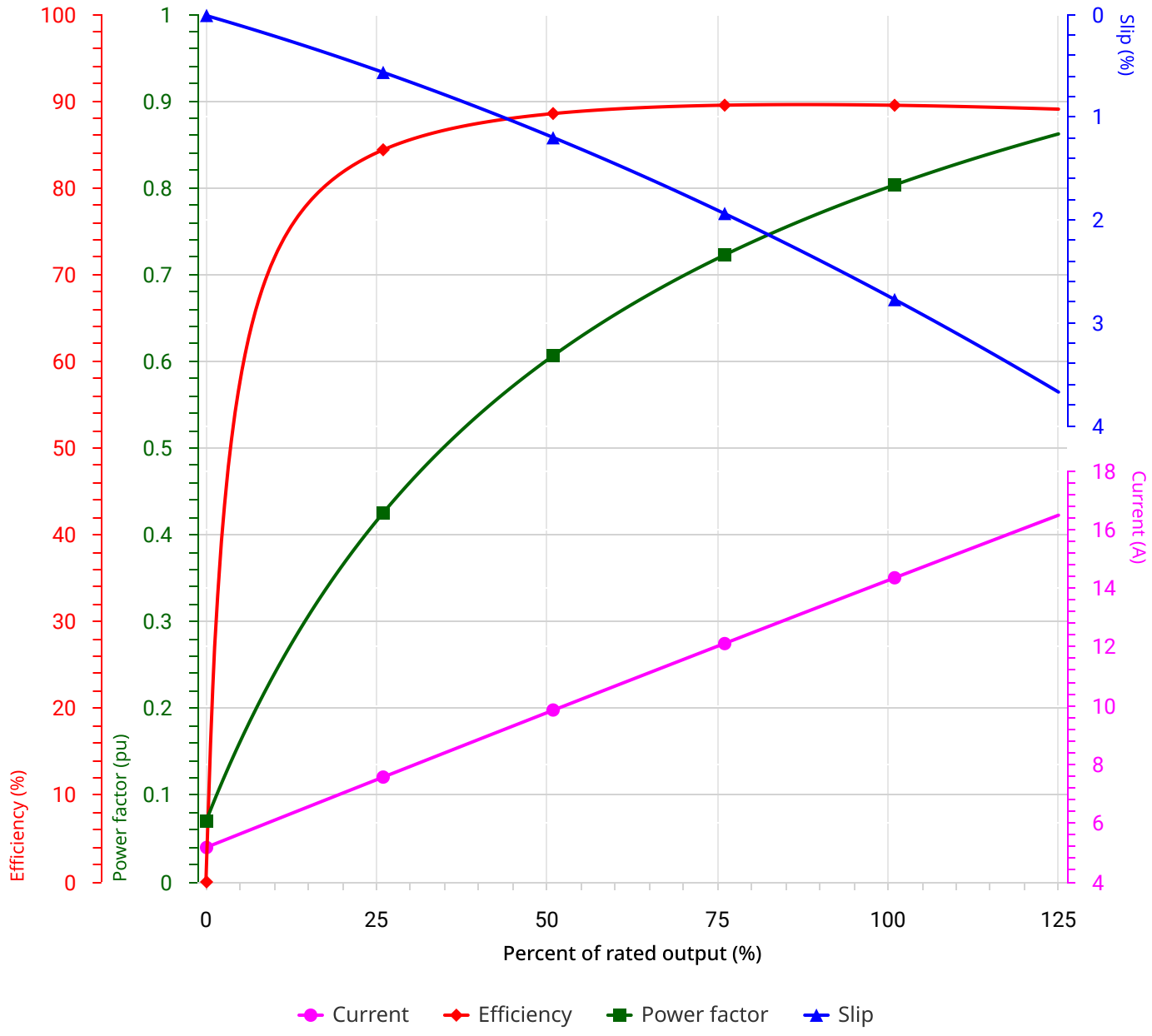
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11583024



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

Rated current	: 14.3 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.00 kgfm	Insulation class	: F
Locked rotor torque	: 225 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: 00002

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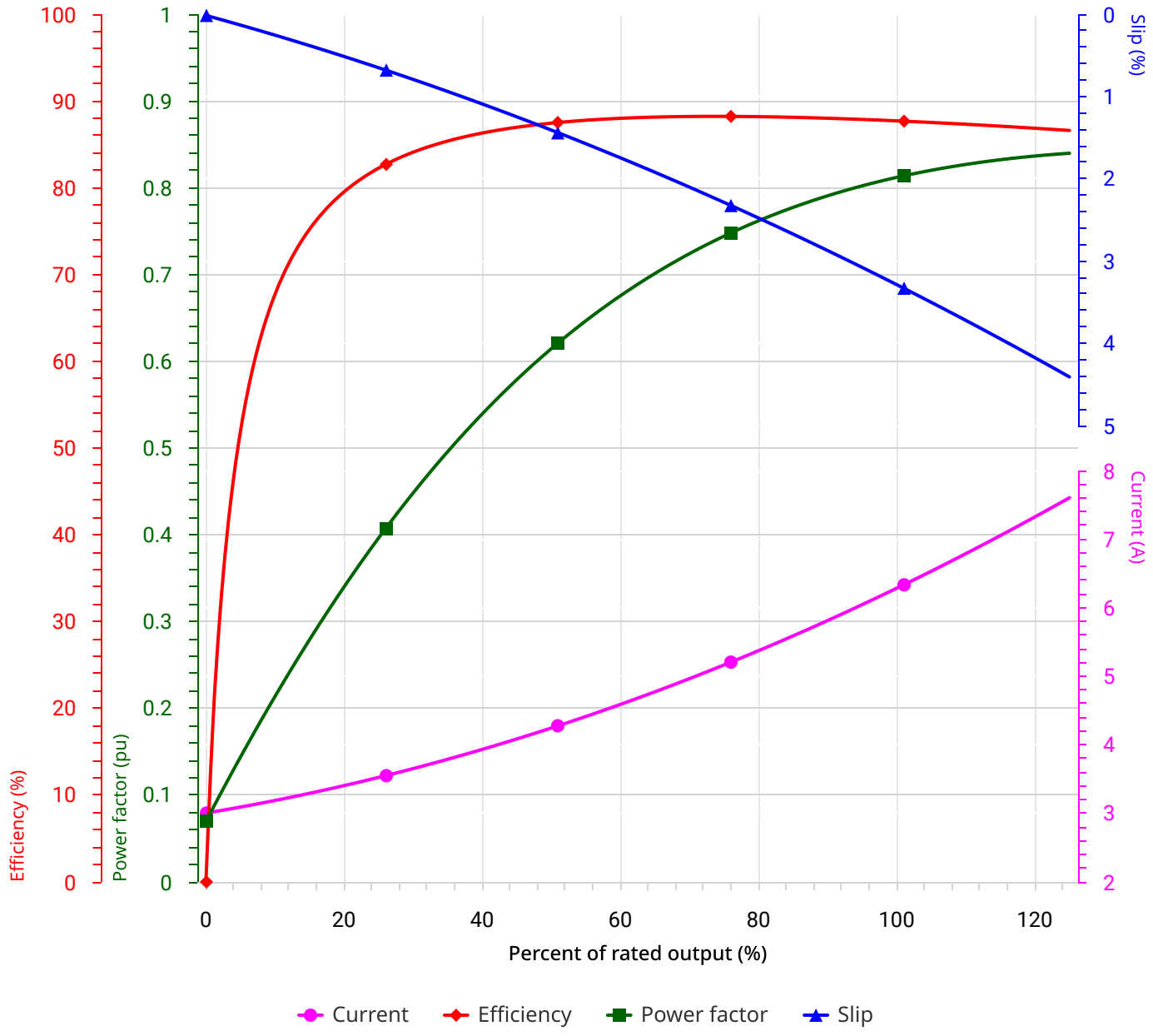
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11583024



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

Rated current	: 6.42 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.0 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.00 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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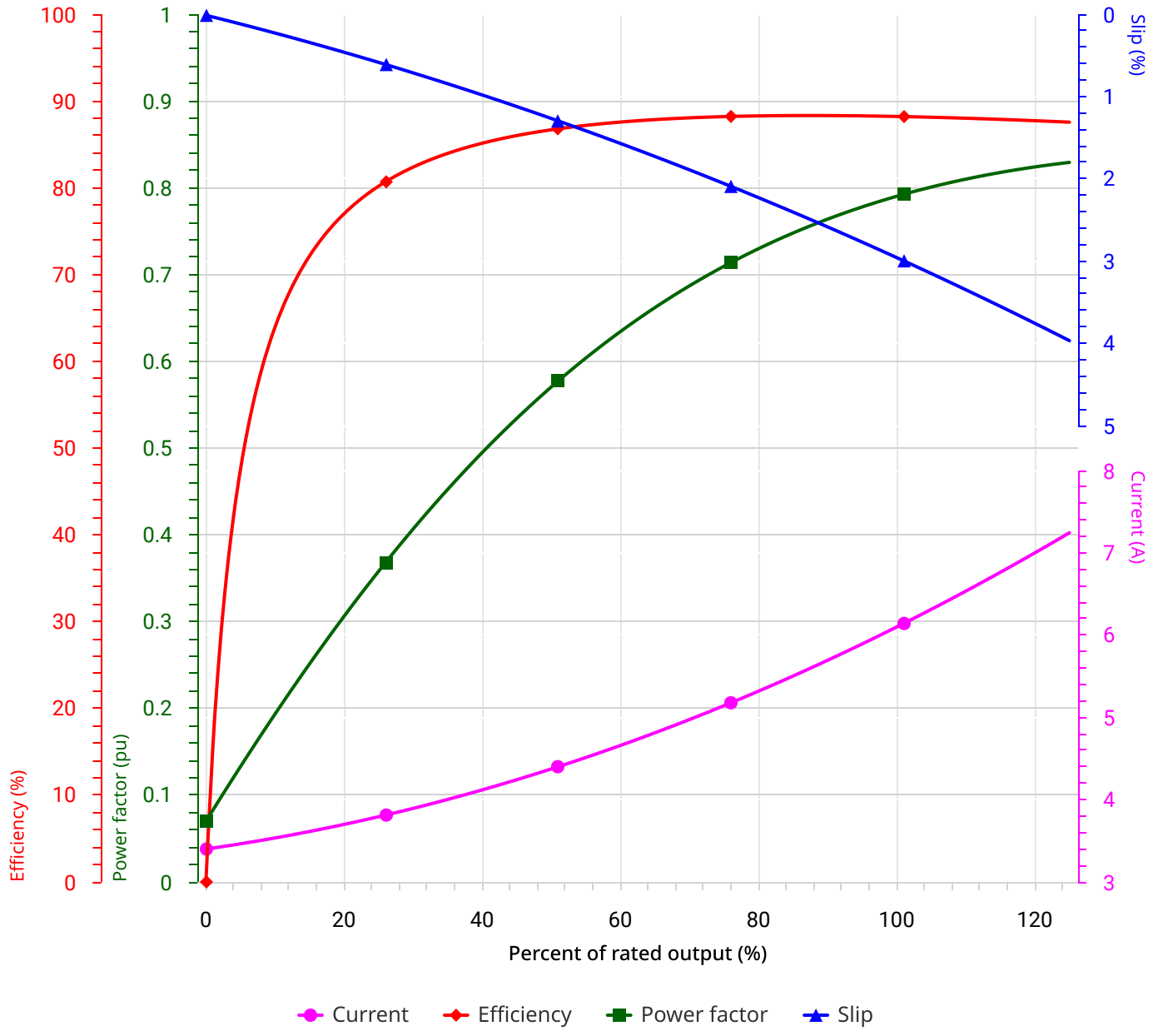
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11583024



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

Rated current	: 6.21 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.7 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 2.00 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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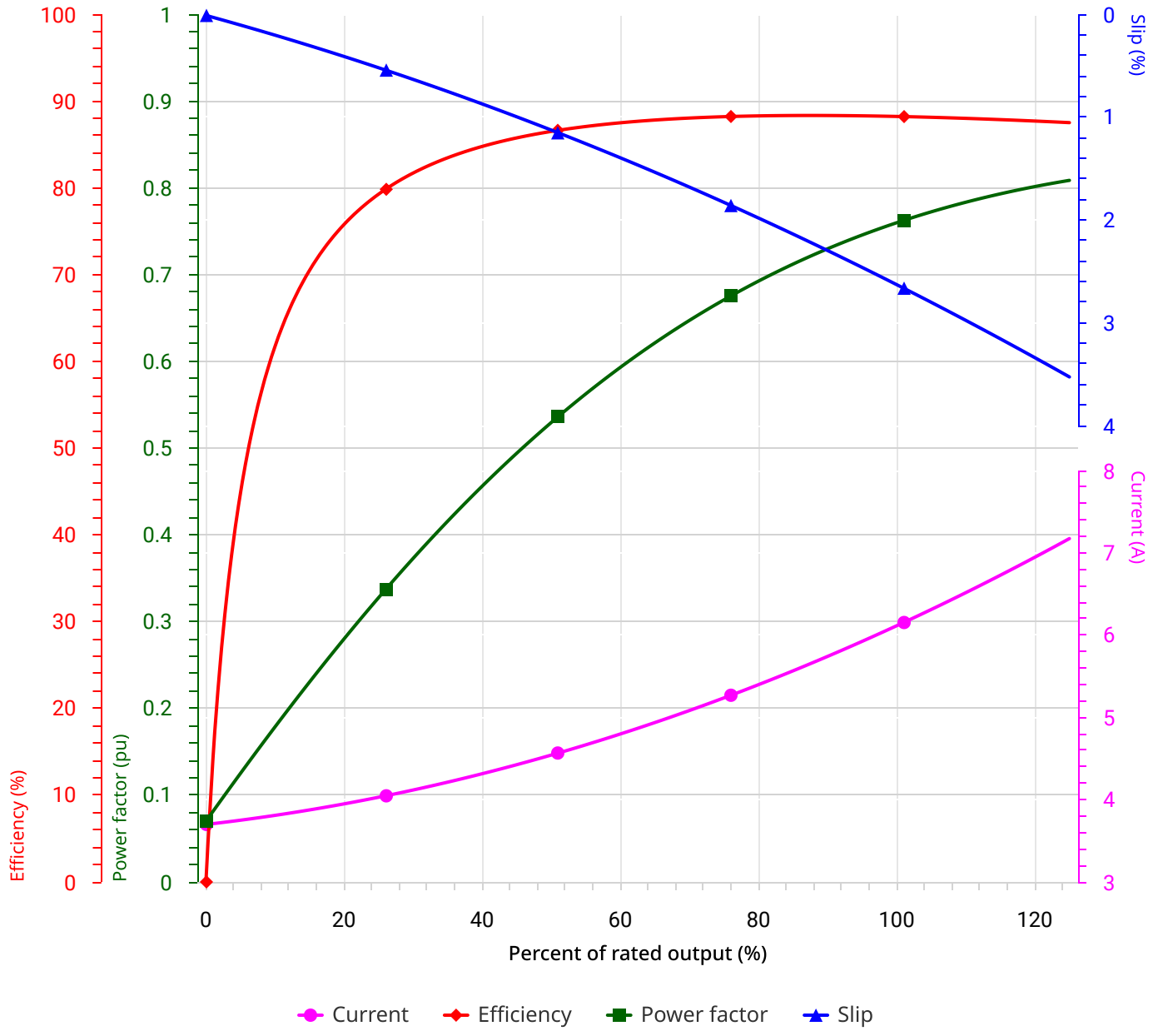
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11583024



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

Rated current	: 6.23 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 8.2 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 1.99 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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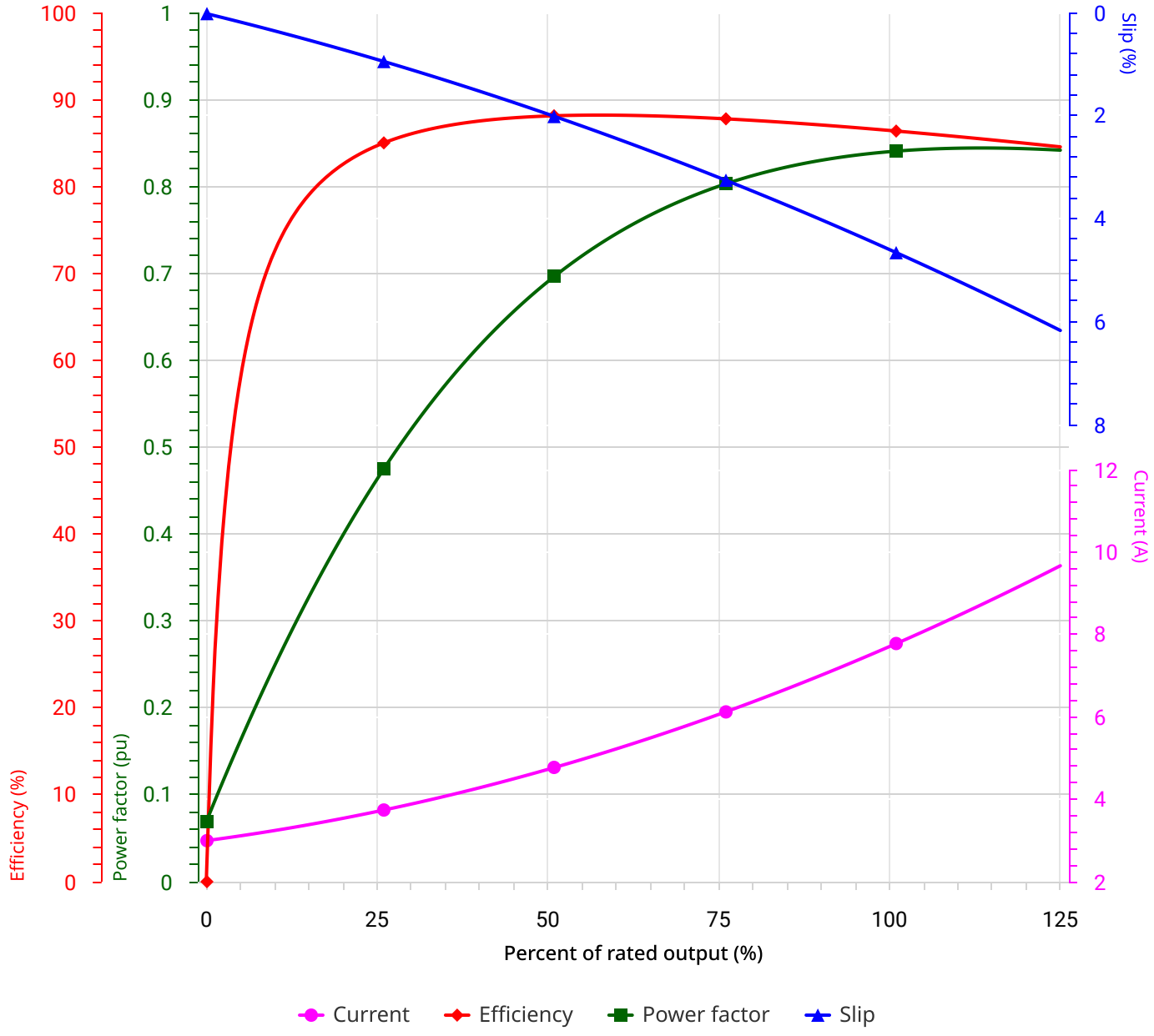
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 11583024



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

Rated current	: 7.74 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 5.8 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 2.54 kgfm	Insulation class	: F
Locked rotor torque	: 185 %	Service factor	: 1.15
Breakdown torque	: 225 %	Temperature rise	: 80 K
Rated speed	: 1430 rpm	Design	: B

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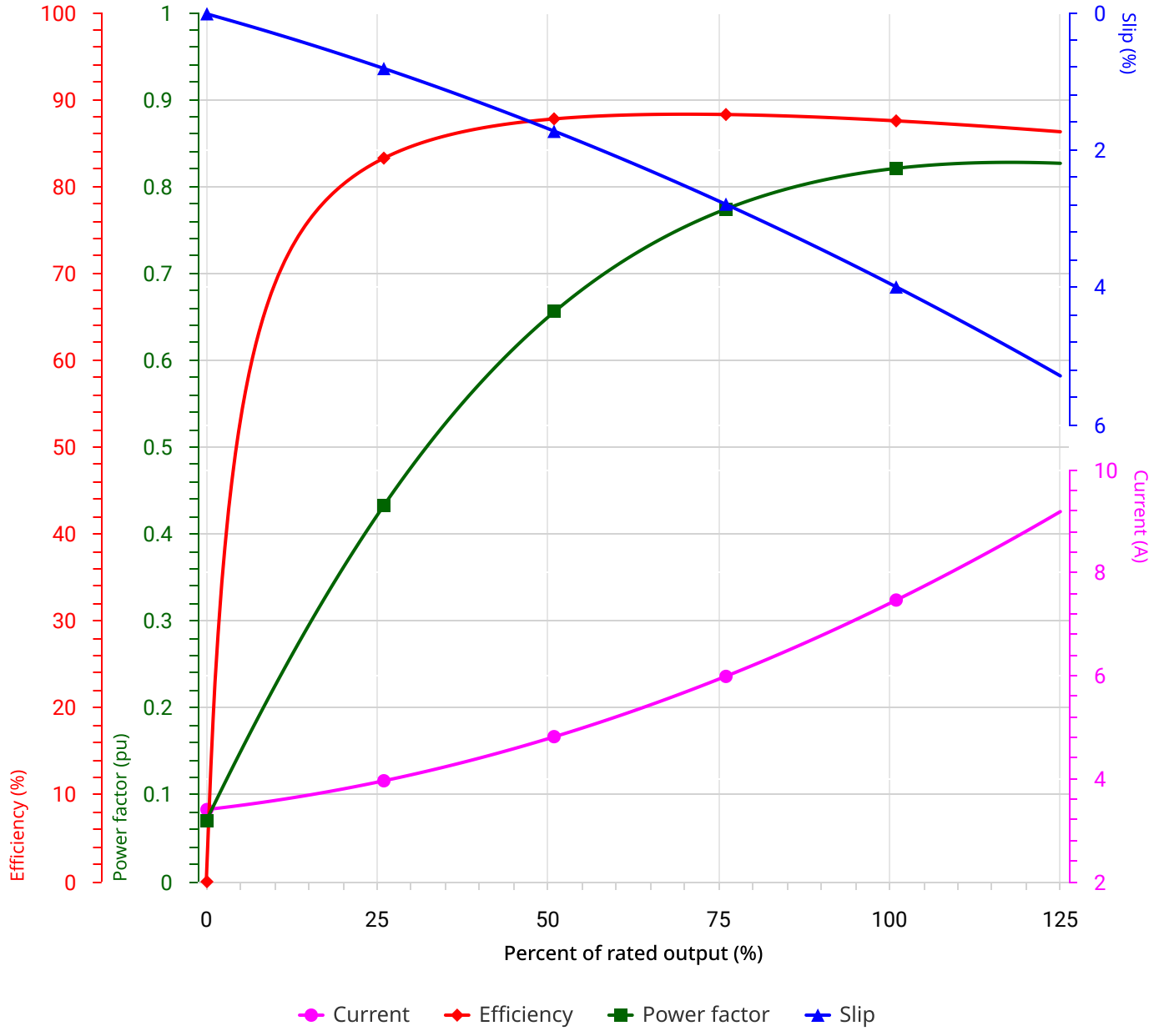
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Three Phase Induction Motor - Squirrel Cage

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Product code	: 11583024



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

Rated current	: 7.44 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 6.4 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 2.52 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B

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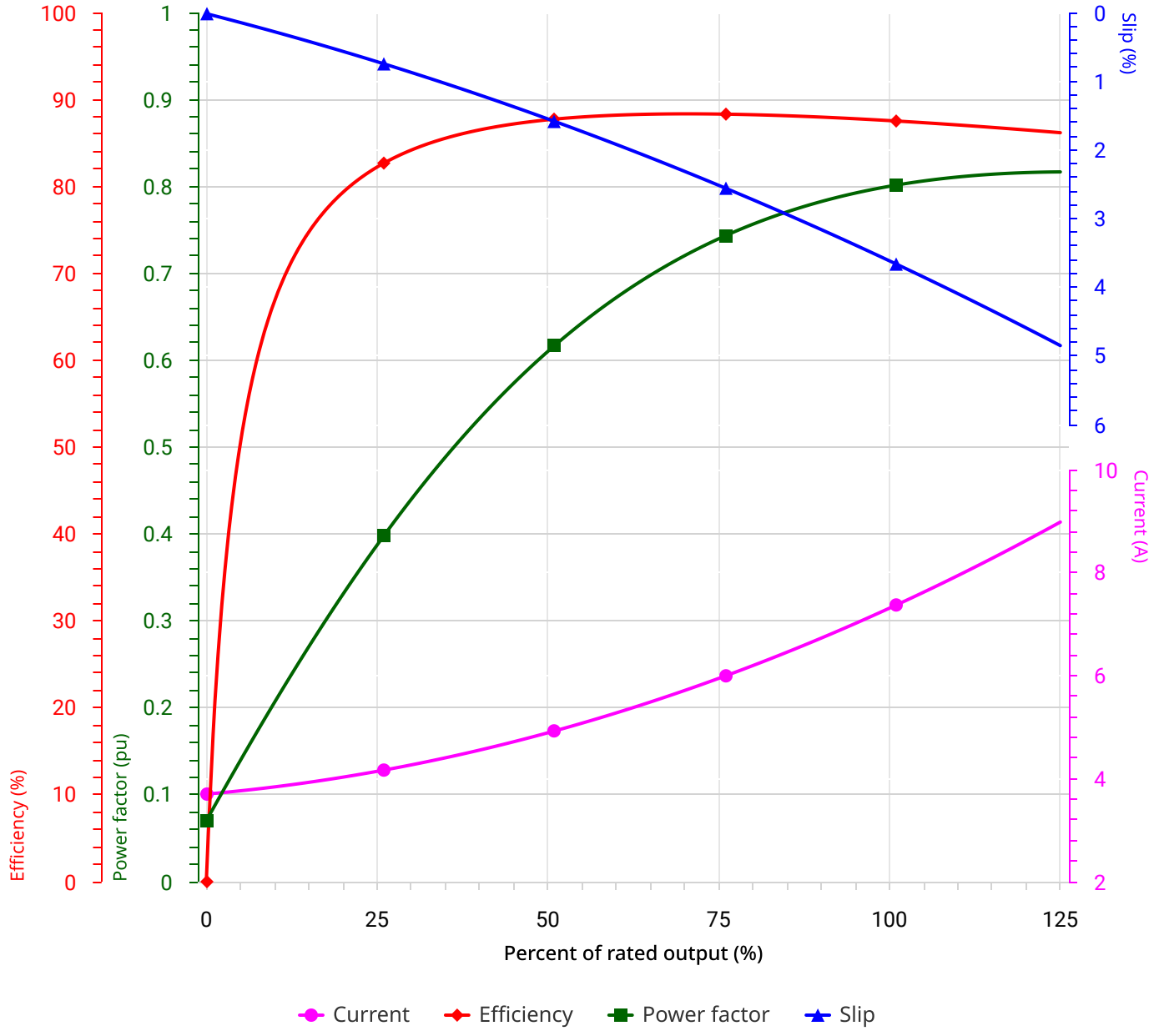
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Three Phase Induction Motor - Squirrel Cage

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Product code	: 11583024



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

Rated current	: 7.35 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 6.9 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.51 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1445 rpm	Design	: B

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