DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12775267

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	: 42.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0206 kgm²
Design	: B		

Output		1.5 HP (1.1 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)
Poles		6	6	6	6	6
Frequency		60 Hz	60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	208 V	380 V	400 V	415 V
Rated current		5.08/2.54 A	5.62 A	2.68 A	2.62 A	2.64 A
L. R. Amperes		39.6/19.8 A	43.8 A	16.9 A	18.1 A	19.5 A
LRC		7.8 Code M	7.8 Code M	6.3 Code J	6.9 Code K	7.4 Code L
No load current		3.25/1.63 A	2.80 A	1.60 A	1.71 A	1.80 A
Rated speed		1170 rpm	1170 rpm	955 rpm	960 rpm	965 rpm
Slip		2.50 %	2.50 %	4.50 %	4.00 %	3.50 %
Rated torque		0.930 kgfm	1.00 kgfm	1.14 kgfm	1.13 kgfm	1.13 kgfm
Locked rotor torque		320 %	320 %	250 %	300 %	330 %
Breakdown torque		400 %	400 %	290 %	330 %	370 %
Service factor		1.25	1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K
Noise level		52 dB(A)	52.0 dB(A)	49 dB(A)	49 dB(A)	49 dB(A)
Locked rotor time		16 s (hot) 29 s (cold)	16 s (hot) 29 s (cold)	14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)
Efficiency (%)	50%	84.0	84.0	85.5	84.5	84.0
	75%	86.5	86.5	86.5	86.5	85.5
	100%	87.5	87.5	85.5	86.5	86.5
Power Factor	Start	0.48	0.48	0.52	0.54	0.56
	50%	0.45	0.45	0.52	0.48	0.45
	75%	0.54	0.54	0.63	0.60	0.57
	100%	0.62	0.62	0.73	0.7	0.67
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)		13.43	13.43	13.43	13.43	13.43
P2 (0,5;1,0)		10.31	10.31	10.31	10.31	10.31
P3 (0,25;1,0)		9.29	9.29	9.29	9.29	9.29
P4 (0,9;0,5)		8.80	8.80	8.80	8.80	8.80
P5 (0,5;0,5)		5.81	5.81	5.81	5.81	5.81
P6 (0,5;0,25)		4.76	4.76	4.76	4.76	4.76
P7 (0,25;0,25)		3.49	3.49	3.49	3.49	3.49

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

Foundation loads
Max. traction : 65 kgf
Max. compression : 108 kgf

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/17

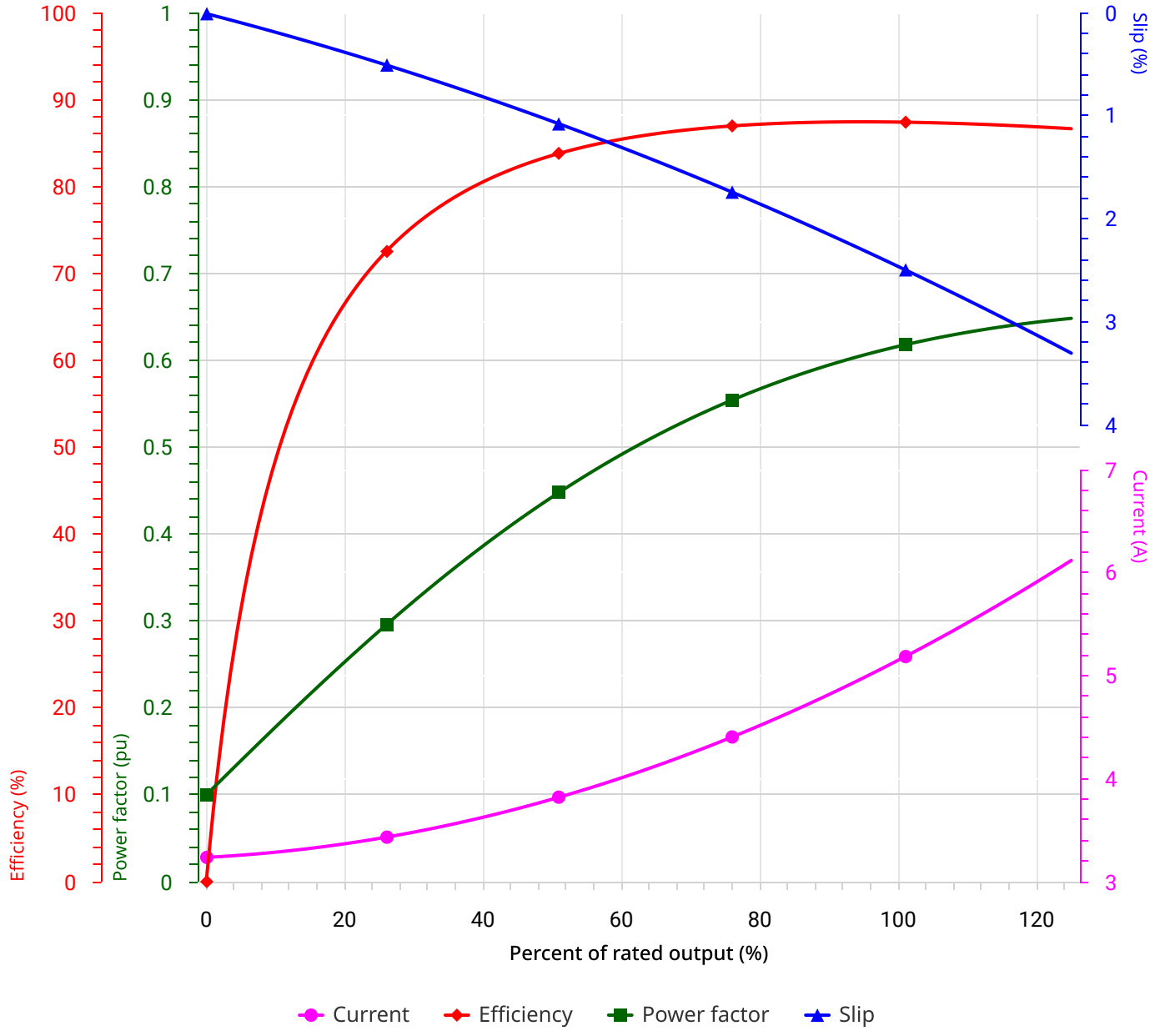
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12775267



Performance	: 1.5 HP (1.1 kW) 230/460V 60Hz 6P 182/4JM

Rated current	: 5.08/2.54 A	Moment of inertia (J)	: 0.0206 kgm²
LRC	: 7.8 Code M	Duty cycle	: Cont.(S1)
Rated torque	: 0.930 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.25
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1170 rpm	Design	: B

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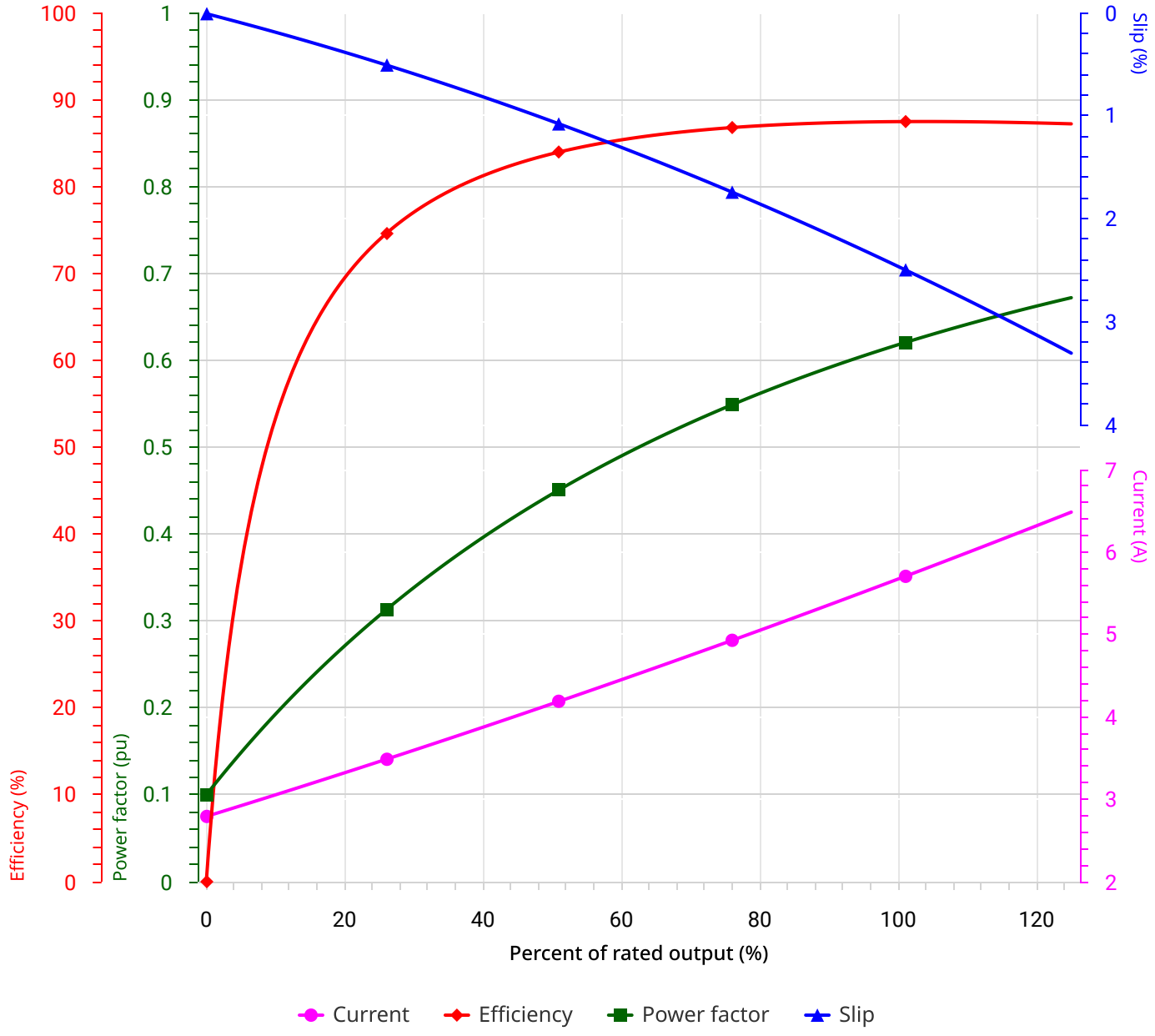
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12775267



Performance	: 1.5 HP (1.1 kW) 208V 60Hz 6P 182/4JM

Rated current	: 5.62 A	Moment of inertia (J)	: 0.0206 kgm²
LRC	: 7.8 Code M	Duty cycle	: Cont.(S1)
Rated torque	: 1.00 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.25
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1170 rpm	Design	: 00002

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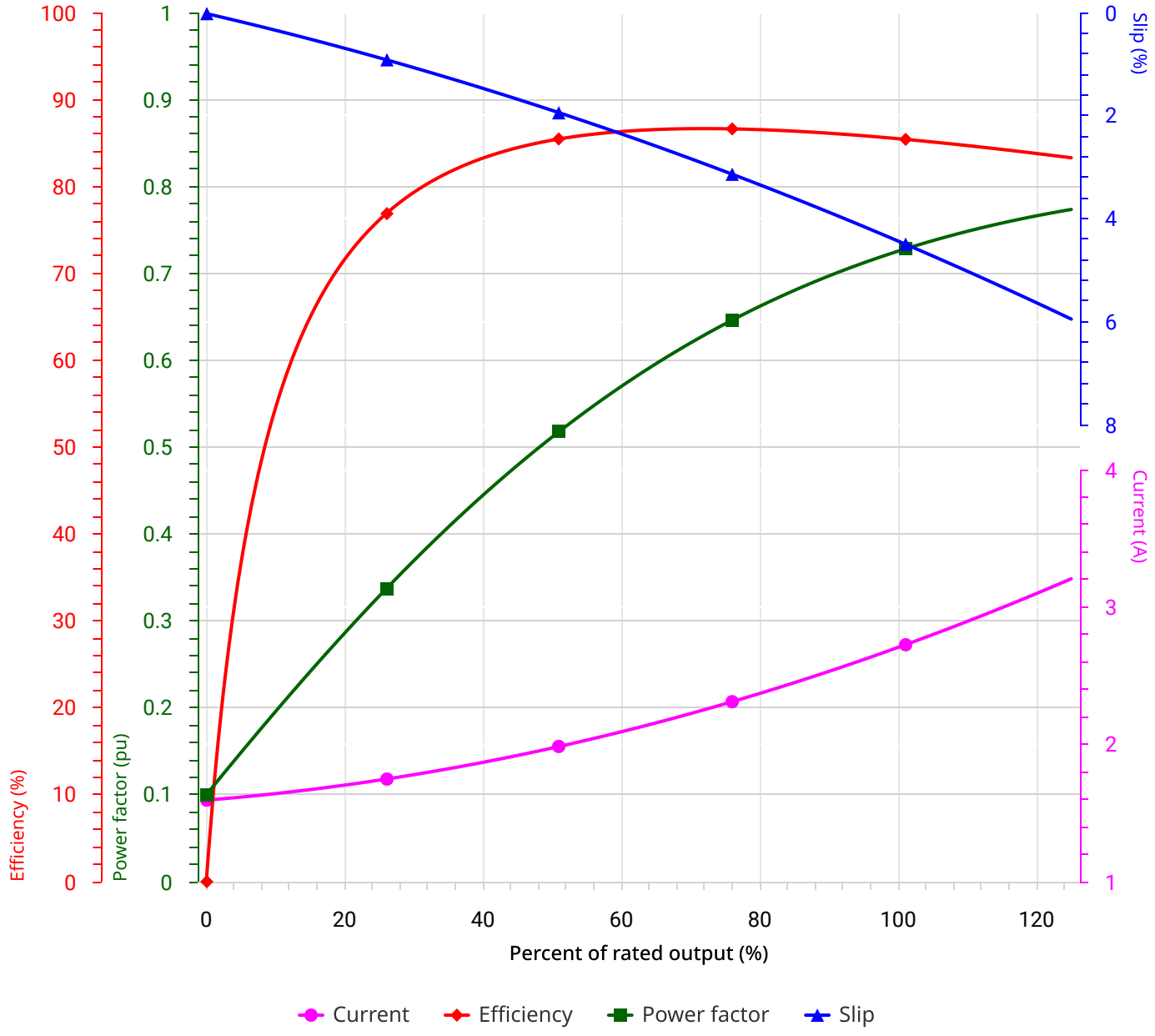
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12775267



Performance	: 1.5 HP (1.1 kW) 380V 50Hz 6P 182/4JM

Rated current	: 2.68 A	Moment of inertia (J)	: 0.0206 kgm²
LRC	: 6.3 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.14 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 955 rpm	Design	: B

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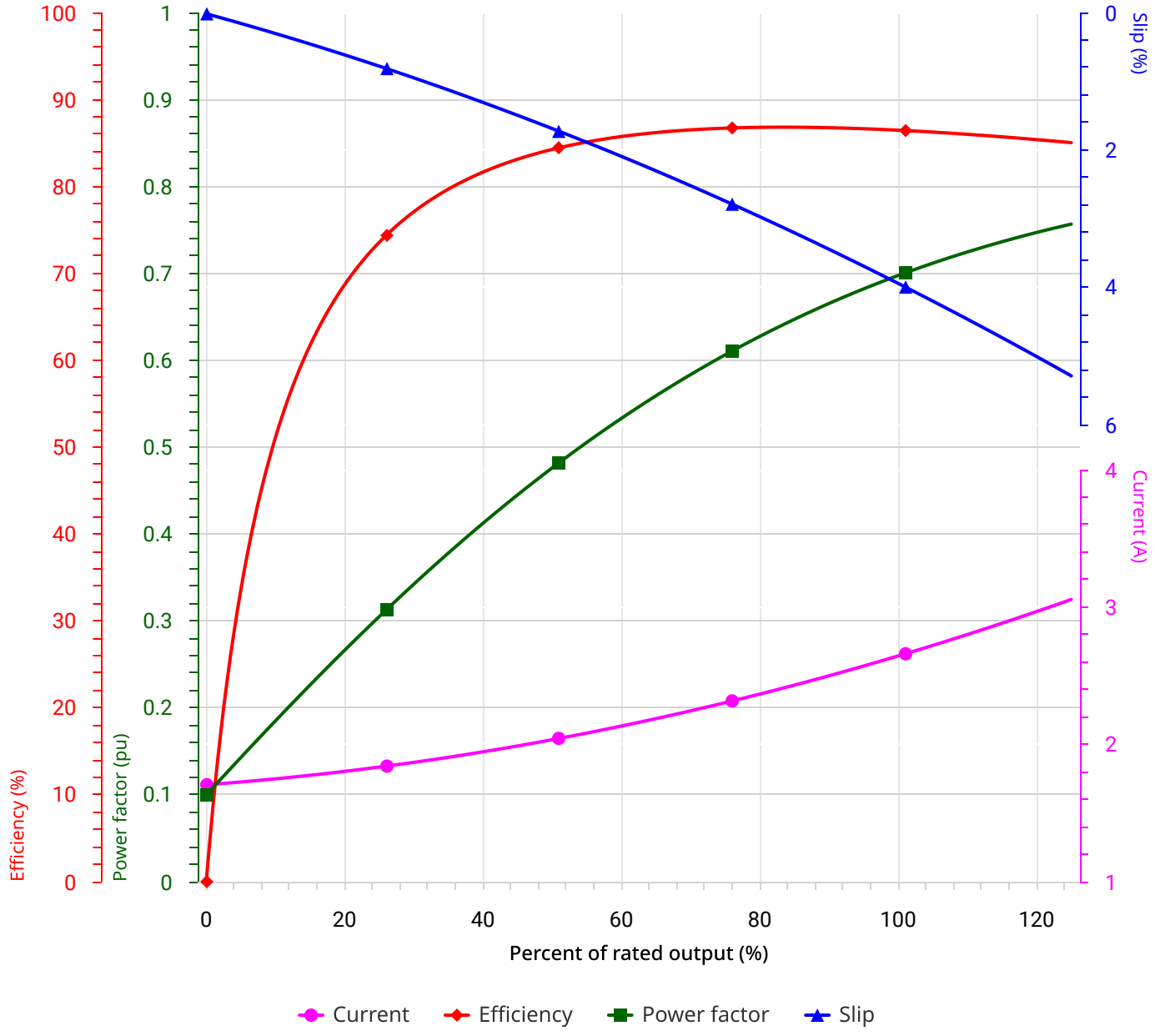
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 1.5 HP (1.1 kW) 400V 50Hz 6P 182/4JM

Rated current	: 2.62 A	Moment of inertia (J)	: 0.0206 kgm²
LRC	: 6.9 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.13 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 960 rpm	Design	: B

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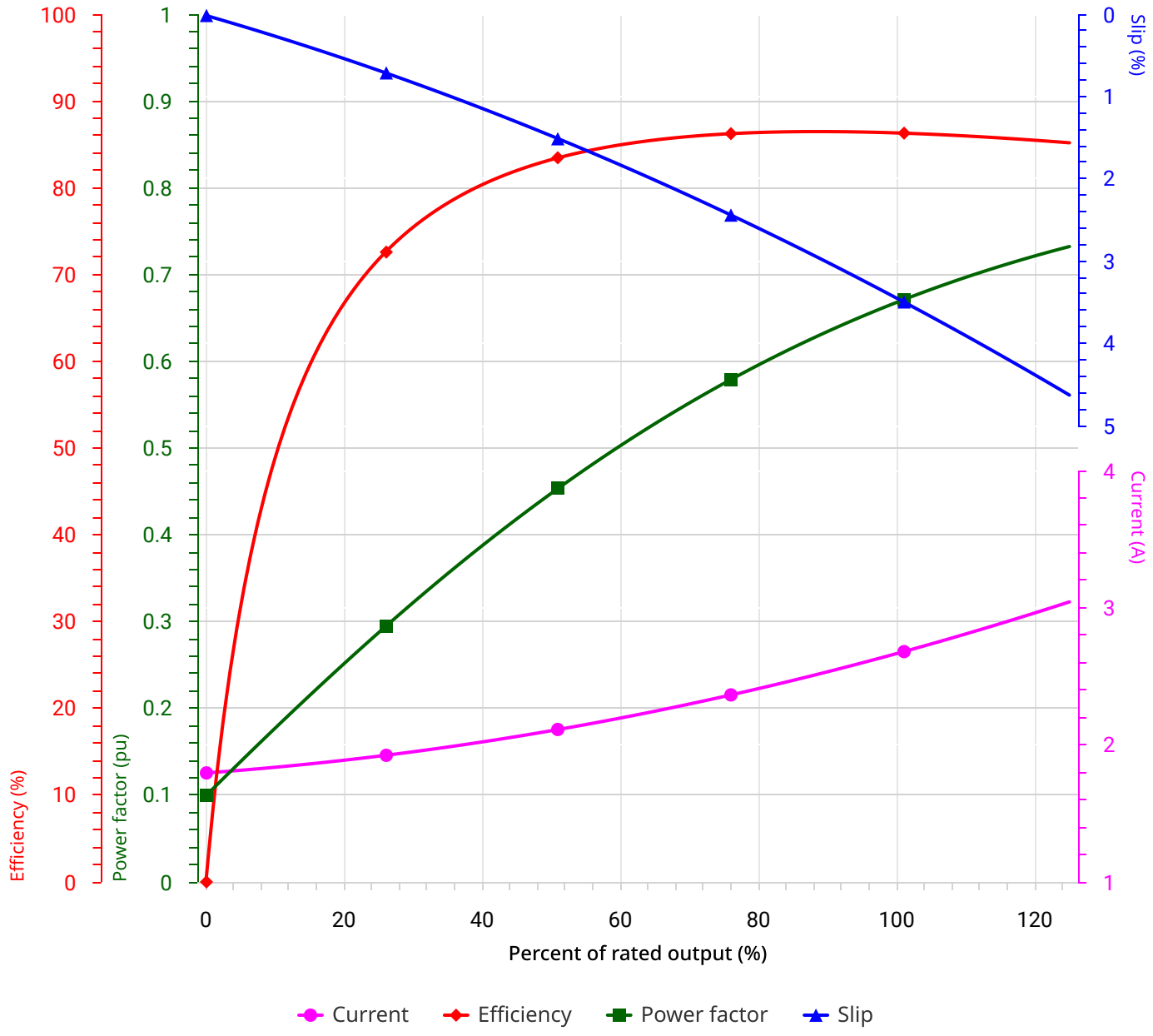
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12775267



Performance	: 1.5 HP (1.1 kW) 415V 50Hz 6P 182/4JM

Rated current	: 2.64 A	Moment of inertia (J)	: 0.0206 kgm²
LRC	: 7.4 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 1.13 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.00
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

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