DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11723870

Frame	: 182/4T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 41.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0143 kgm²
Design	: B		

Output		3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)
Poles		4	4	4	4	4
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		8.02/4.01 A	8.65 A	4.78 A	4.54 A	4.43 A
L. R. Amperes		65.8/32.9 A	70.9 A	30.1 A	32.2 A	33.7 A
LRC		8.2 Code K	8.2 Code K	6.3 Code H	7.1 Code J	7.6 Code K
No load current		4.00/2.00 A	3.45 A	2.10 A	2.20 A	2.35 A
Rated speed		1765 rpm	1765 rpm	1455 rpm	1460 rpm	1465 rpm
Slip		1.94 %	1.94 %	3.00 %	2.67 %	2.33 %
Rated torque		1.23 kgfm	1.00 kgfm	1.50 kgfm	1.49 kgfm	1.49 kgfm
Locked rotor torque		220 %	220 %	220 %	220 %	220 %
Breakdown torque		320 %	320 %	250 %	270 %	290 %
Service factor		1.25	1.25	1.25	1.25	1.25
Temperature rise		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)
Locked rotor time		23 s (hot) 41 s (cold)	23 s (hot) 41 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)
Efficiency (%)	50%	87.5	87.5	87.5	87.5	87.5
	75%	88.5	88.5	87.5	87.5	87.5
	100%	89.5	89.5	87.5	87.5	87.5
Power Factor	Start	0.55	0.55	0.55	0.55	0.55
	50%	0.58	0.58	0.65	0.62	0.59
	75%	0.69	0.69	0.77	0.73	0.71
	100%	0.77	0.77	0.8	0.8	0.79
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)		12.73	12.73	12.91	13.71	13.80
P2 (0,5;1,0)		11.15	11.15	11.30	12.01	12.09
P3 (0,25;1,0)		10.84	10.84	10.98	11.67	11.74
P4 (0,9;0,5)		6.72	6.72	6.81	7.24	7.29
P5 (0,5;0,5)		4.99	4.99	5.05	5.37	5.40
P6 (0,5;0,25)		3.67	3.67	3.72	3.95	3.98
P7 (0,25;0,25)		2.83	2.83	2.87	3.05	3.07

	Drive end	Non drive end
Bearing type	6207-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads
Max. traction : 69 kgf
Max. compression : 110 kgf

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/14

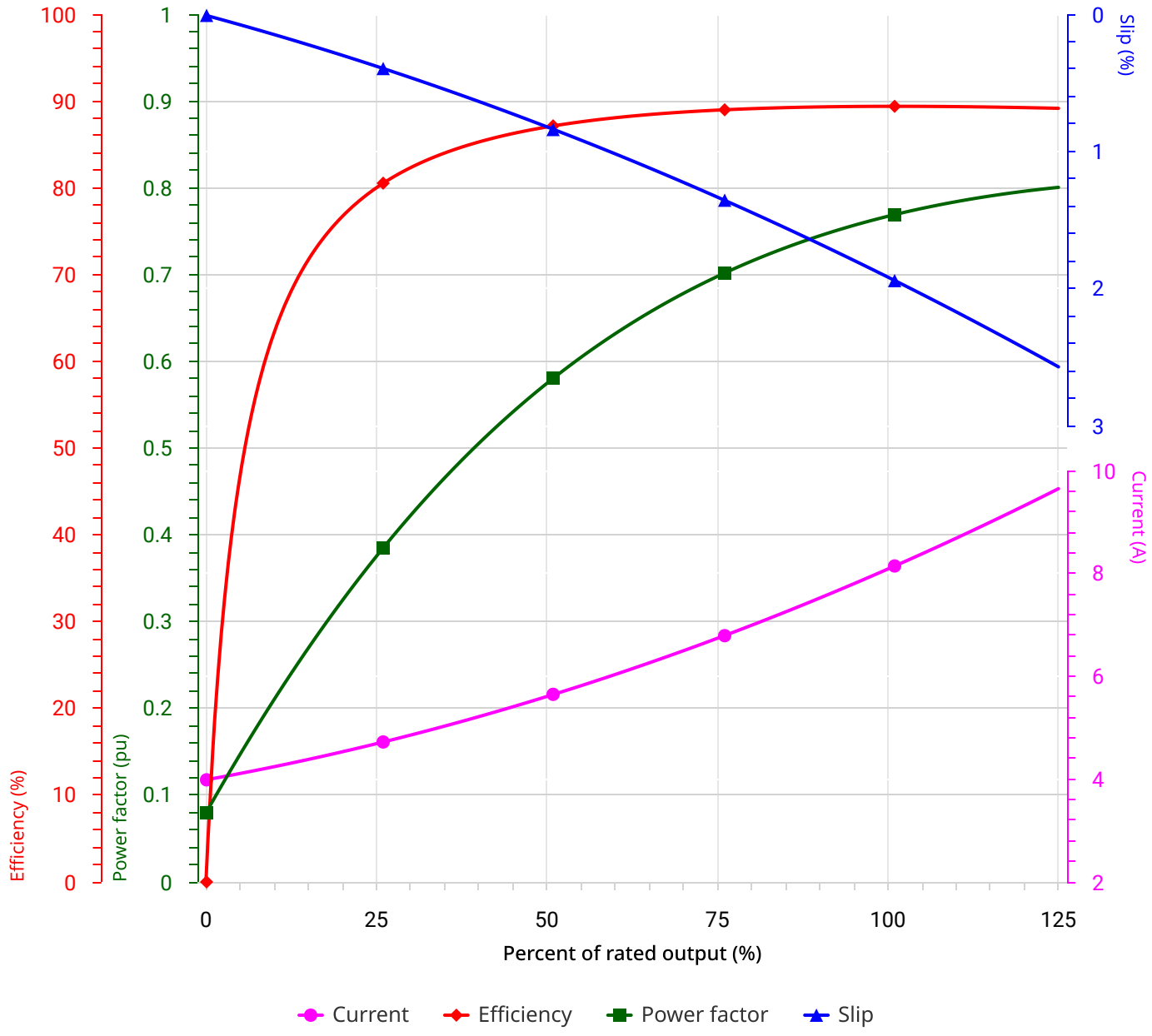
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11723870



Performance	: 3 HP (2.2 kW) 230/460V 60Hz 4P 182/4T

Rated current	: 8.02/4.01 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 8.2 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.23 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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				2026/11/14

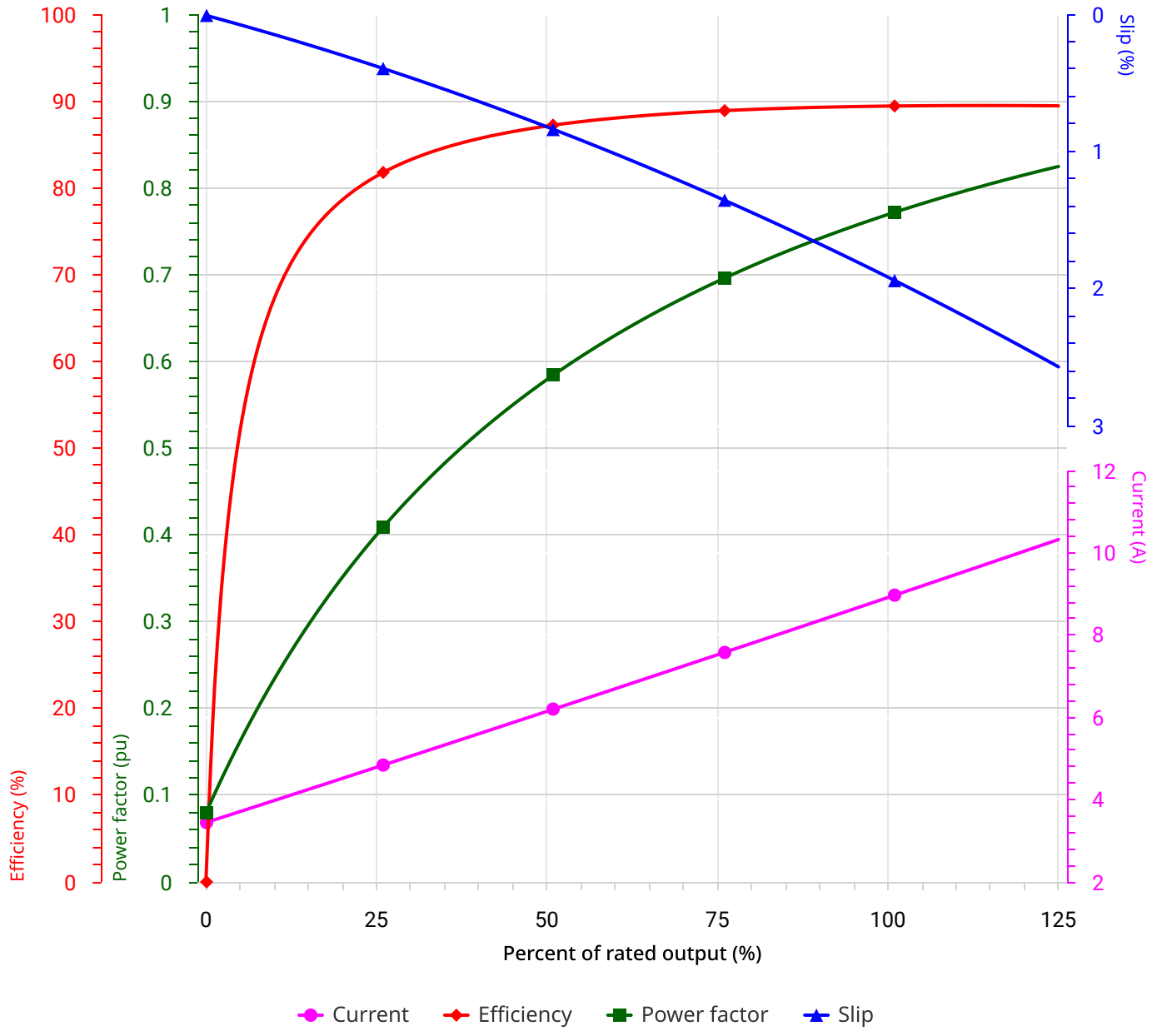
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11723870



Performance	: 3 HP (2.2 kW) 208V 60Hz 4P 182/4T

Rated current	: 8.65 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 8.2 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.00 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: 00002

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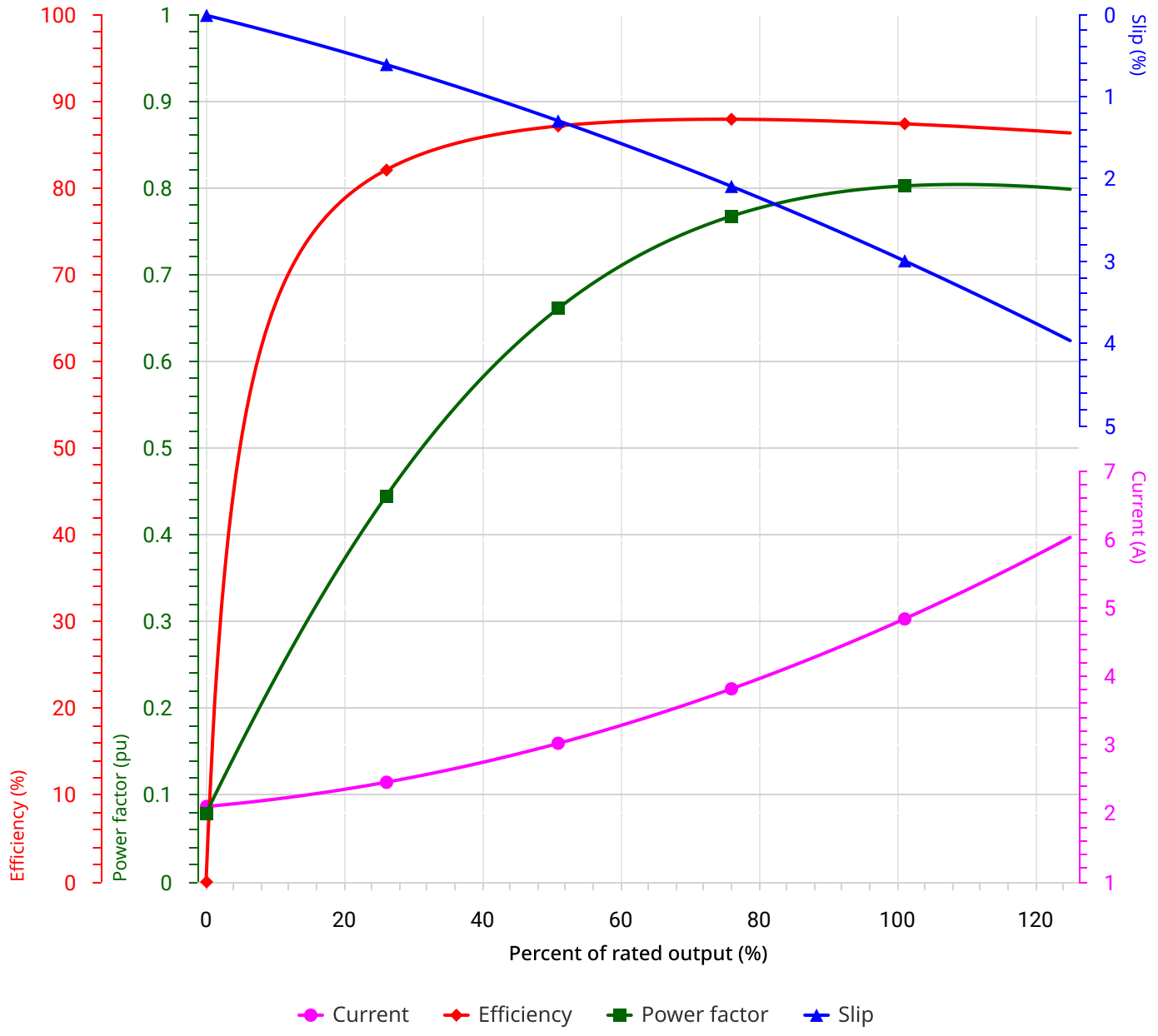
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11723870



Performance	: 3 HP (2.2 kW) 380V 50Hz 4P 182/4T

Rated current	: 4.78 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 6.3 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.50 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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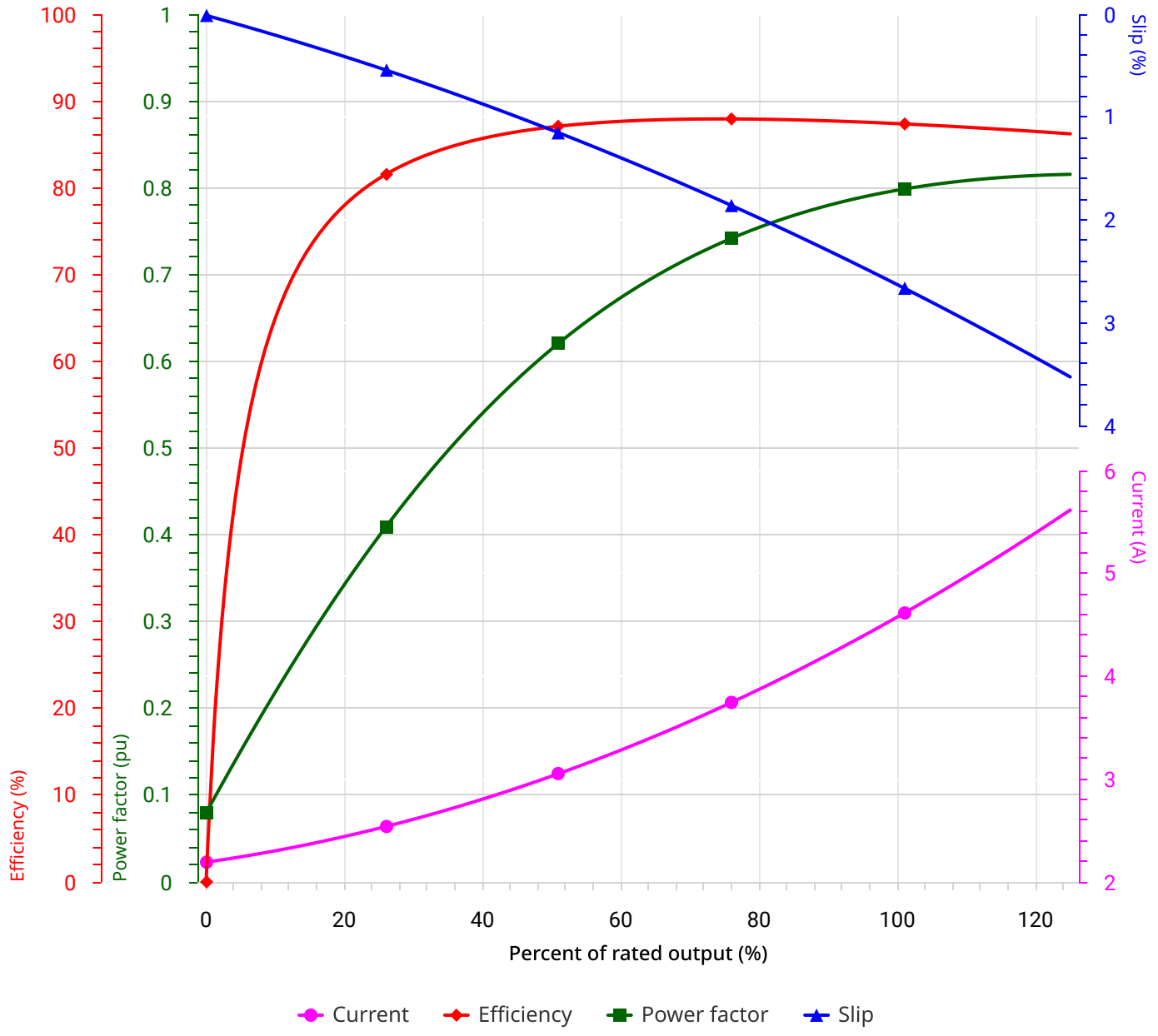
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Performance	: 3 HP (2.2 kW) 400V 50Hz 4P 182/4T		
Rated current	: 4.54 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 7.1 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.49 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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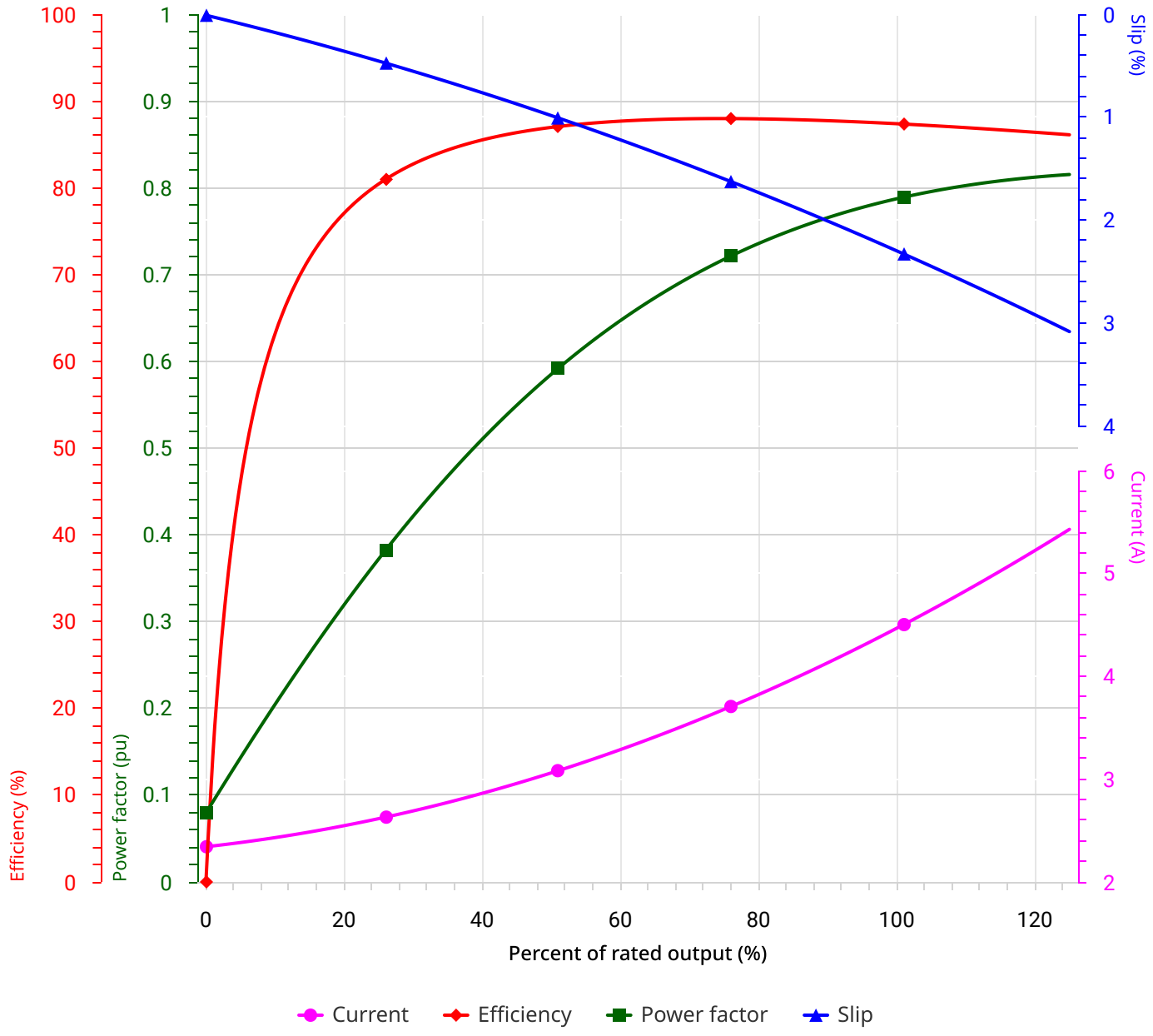
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11723870



Performance	: 3 HP (2.2 kW) 415V 50Hz 4P 182/4T

Rated current	: 4.43 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 7.6 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.49 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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