DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11166719

Frame	: 444/5T	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	: 843 kg
Protection degree	: IP55	Moment of inertia (J)	: 2.81 kgm²
Design	: B		

Output		150 HP (110	150 HP (110	125 HP (90	125 HP (90	125 HP (90	150 HP (110	150 HP (110	150 HP (110
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		340/170 A	376 A	169 A	160 A	156 A	205 A	194 A	189 A
L. R. Amperes		2244/1122 A	2481 A	1183 A	1104 A	1170 A	1189 A	1125 A	1191 A
LRC		6.6 Code G	6.6 Code G	7.0 Code G	6.9 Code G	7.5 Code H	5.8 Code F	5.8 Code F	6.3 Code G
No load current		116/58.0 A	100 A	58.0 A	61.2 A	64.0 A	58.0 A	61.2 A	64.0 A
Rated speed		1784 rpm	1784 rpm	1484 rpm	1486 rpm	1487 rpm	1475 rpm	1480 rpm	1482 rpm
Slip		0.89 %	0.89 %	1.07 %	0.93 %	0.87 %	1.67 %	1.33 %	1.20 %
Rated torque		61.0 kgfm	61.0 kgfm	61.1 kgfm	61.0 kgfm	61.0 kgfm	73.8 kgfm	73.6 kgfm	73.5 kgfm
Locked rotor torque		200 %	200 %	190 %	220 %	230 %	160 %	180 %	190 %
Breakdown torque		250 %	250 %	240 %	260 %	290 %	200 %	220 %	240 %
Service factor		1.15	1.15	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	105 K	95 K	95 K
Noise level		73 dB(A)	73.0 dB(A)	69 dB(A)	69 dB(A)	69 dB(A)	69 dB(A)	69 dB(A)	69 dB(A)
Locked rotor time		27 s (hot) 49 s (cold)	27 s (hot) 49 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)
Efficiency (%)	50%	95.4	95.4	95.1	95.1	94.8	95.4	95.4	95.4
	75%	95.8	95.8	95.5	95.5	95.5	95.4	95.4	95.4
	100%	95.8	95.8	95.3	95.3	95.5	95.0	95.0	95.4
Power Factor	Start	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
	50%	0.74	0.74	0.73	0.70	0.68	0.79	0.76	0.74
	75%	0.82	0.82	0.83	0.81	0.79	0.85	0.83	0.82
	100%	0.85	0.85	0.85	0.85	0.84	0.86	0.86	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46
P2 (0,5;1,0)		3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49
P3 (0,25;1,0)		3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09
P4 (0,9;0,5)		2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38
P5 (0,5;0,5)		1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
P6 (0,5;0,25)		1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
P7 (0,25;0,25)		0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63

	Drive end	Non drive end
Bearing type	NU-319-C3	6316-C3
Lubrication interval	5000 h	10000 h
Lubricant amount	45 g	34 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 1106 kgf
Max. compression : 1949 kgf

Notes:
The vibration and noise level informed are valid when motor is operating with roller bearings respecting their minimum radial load. Thus, WEG reserves the right to test the motor with ball bearings.

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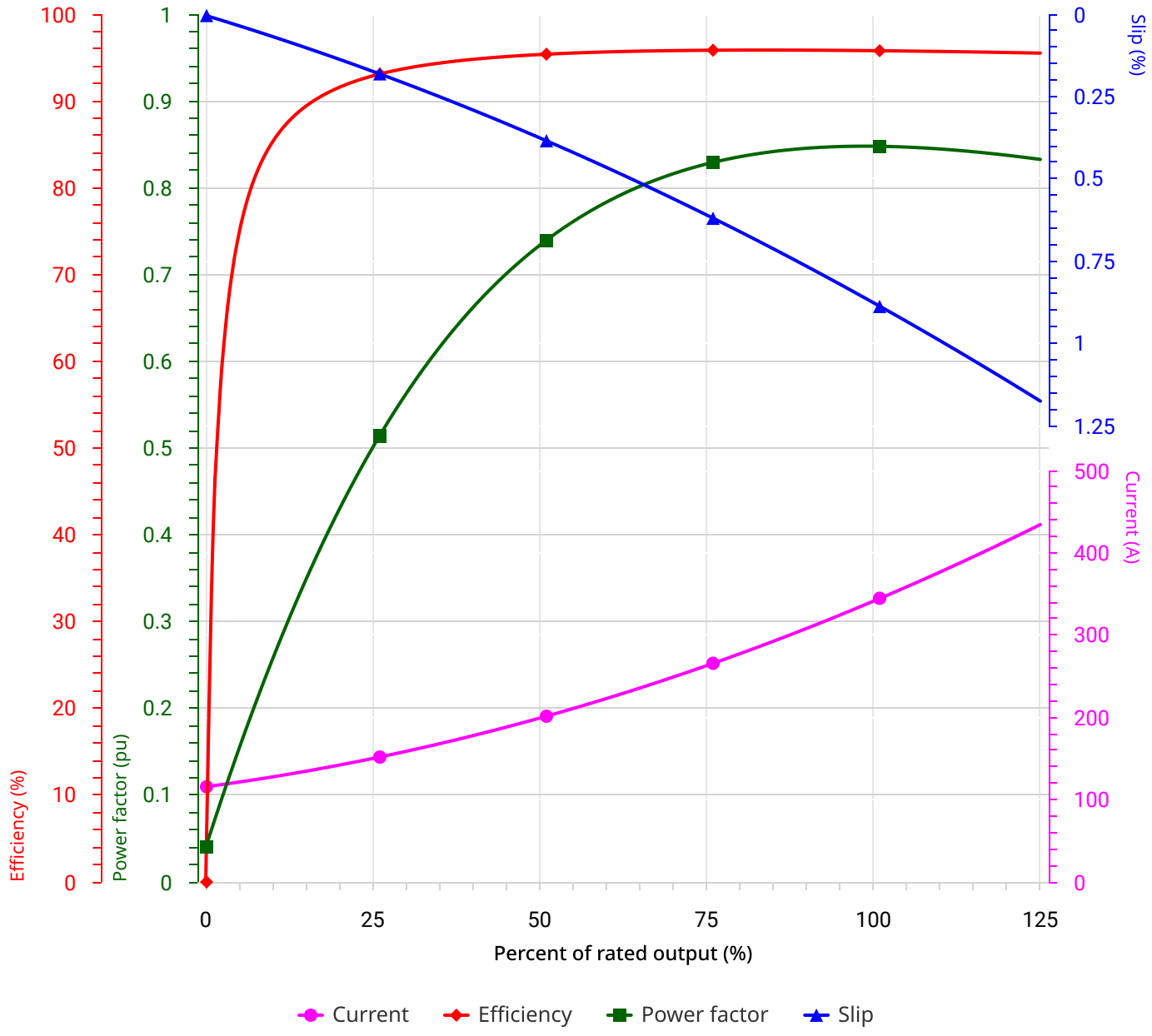
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11166719



Performance	: 150 HP (110 kW) 230/460V 60Hz 4P 444/5T

Rated current	: 340/170 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 6.6 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 61.0 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1784 rpm	Design	: B

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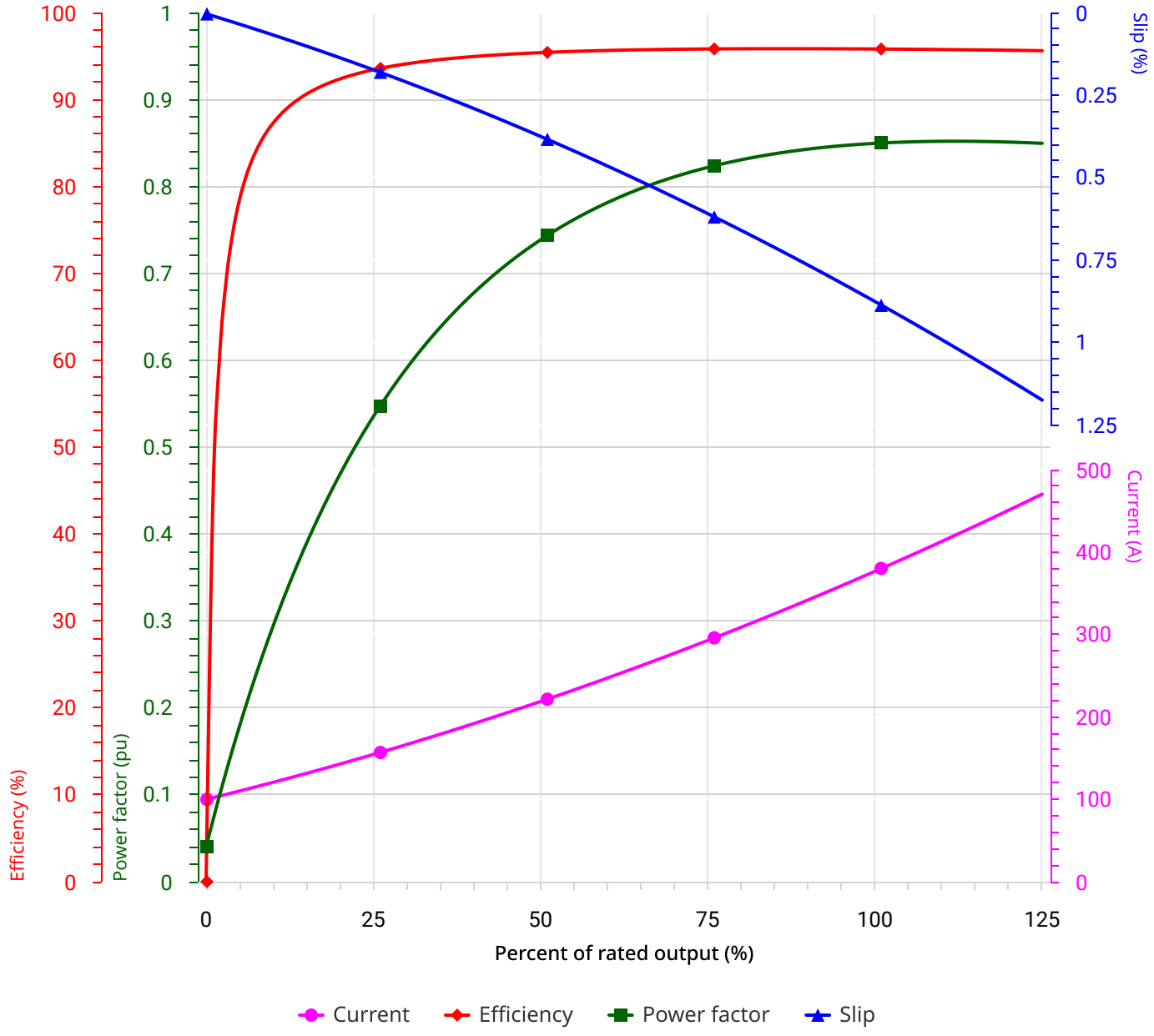
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11166719



Performance	: 150 HP (110 kW) 208V 60Hz 4P 444/5T

Rated current	: 376 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 6.6 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 61.0 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1784 rpm	Design	: 00002

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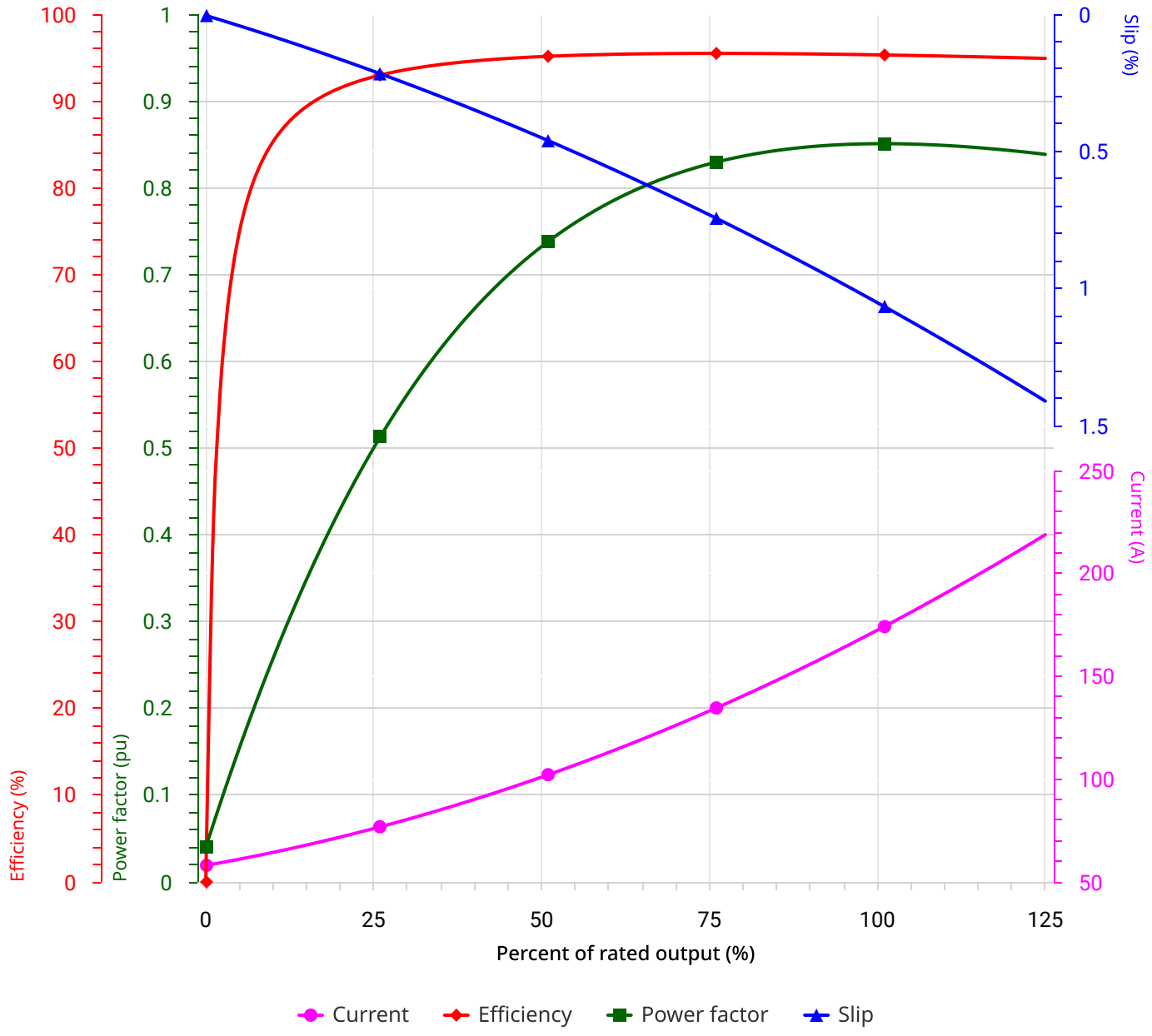
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11166719



Performance	: 125 HP (90 kW) 380V 50Hz 4P 444/5T

Rated current	: 169 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 7.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 61.1 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1484 rpm	Design	: B

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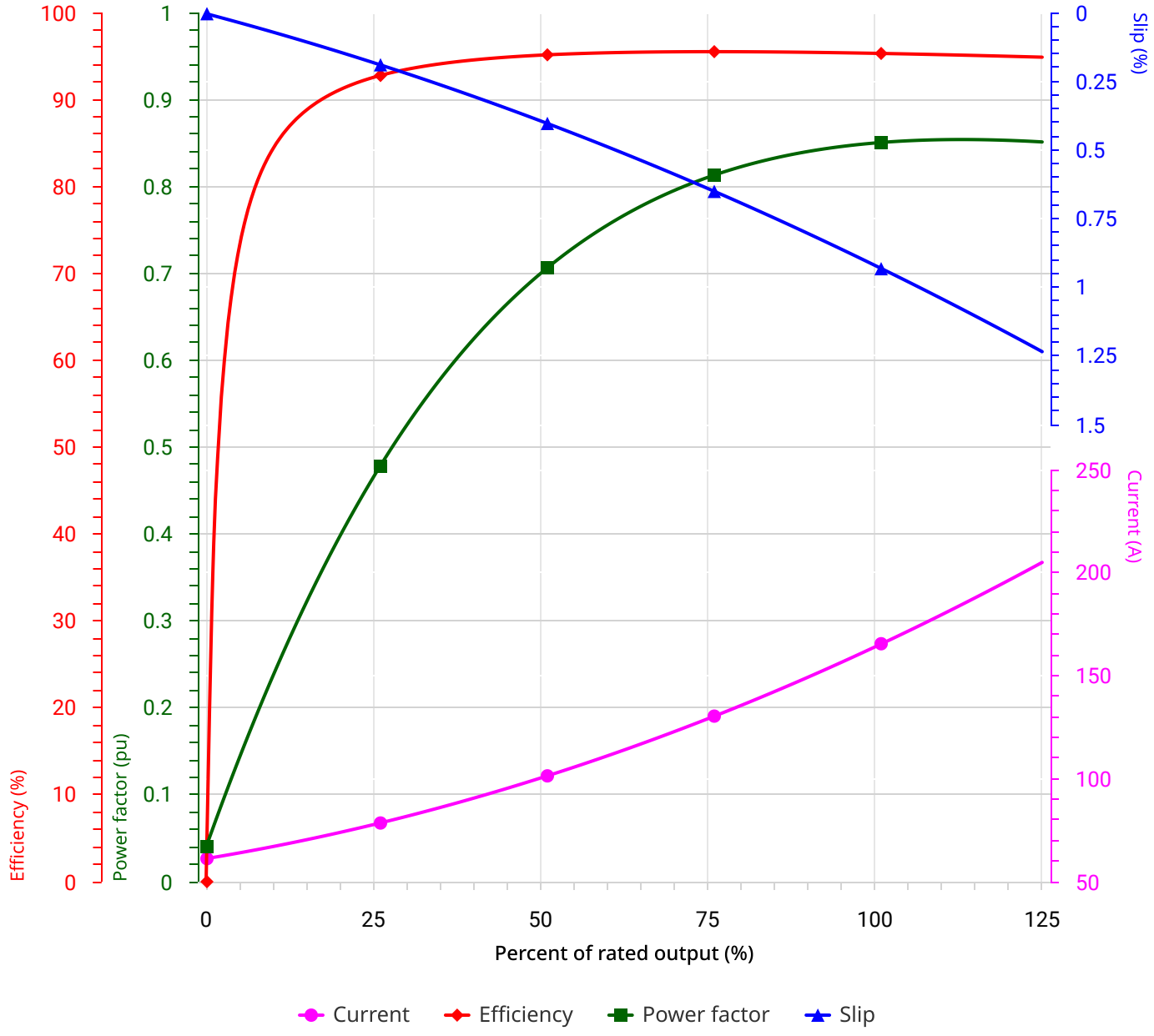
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 125 HP (90 kW) 400V 50Hz 4P 444/5T

Rated current	: 160 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 6.9 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 61.0 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1486 rpm	Design	: B

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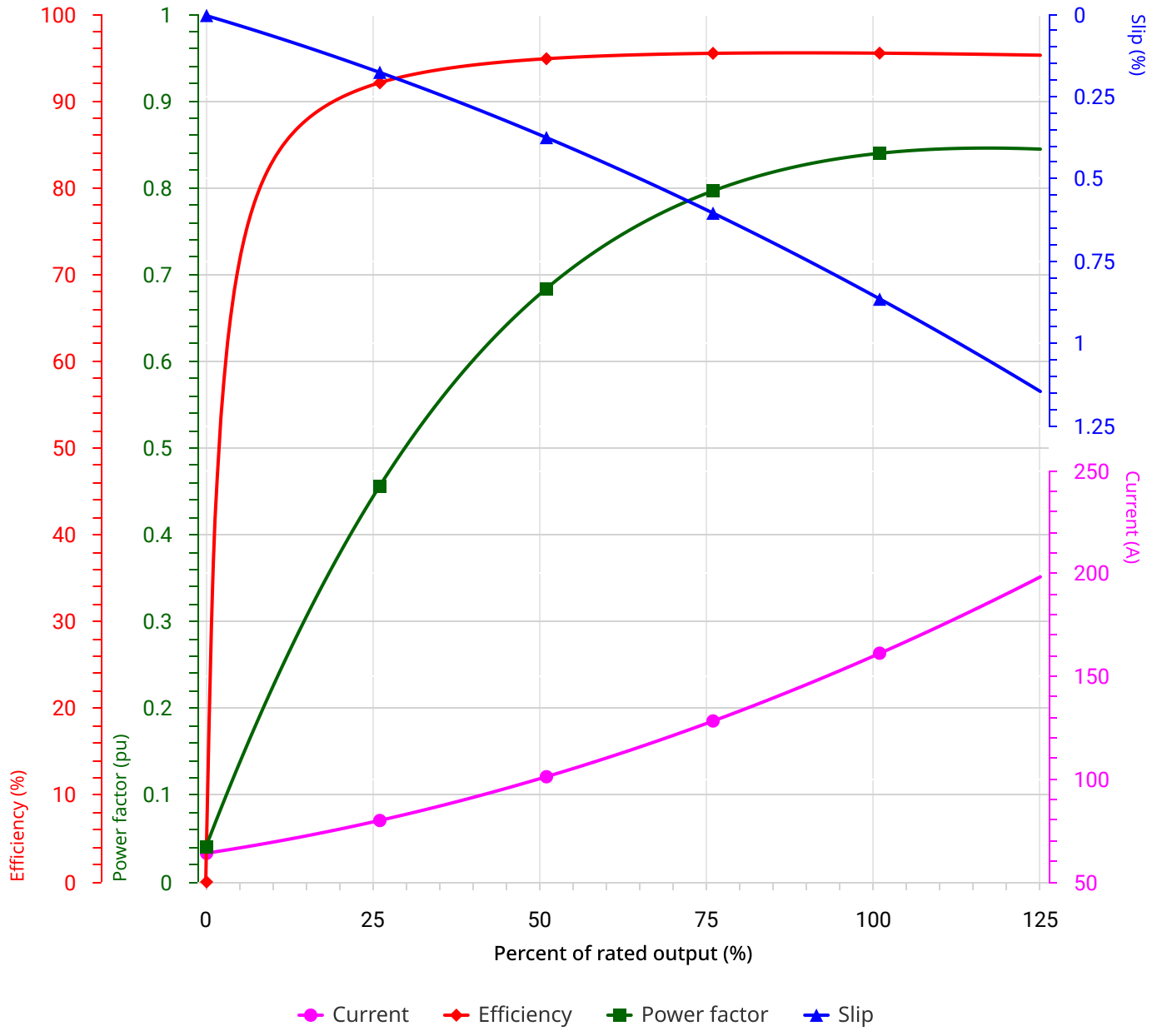
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 11166719



Performance	: 125 HP (90 kW) 415V 50Hz 4P 444/5T

Rated current	: 156 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 7.5 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 61.0 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1487 rpm	Design	: B

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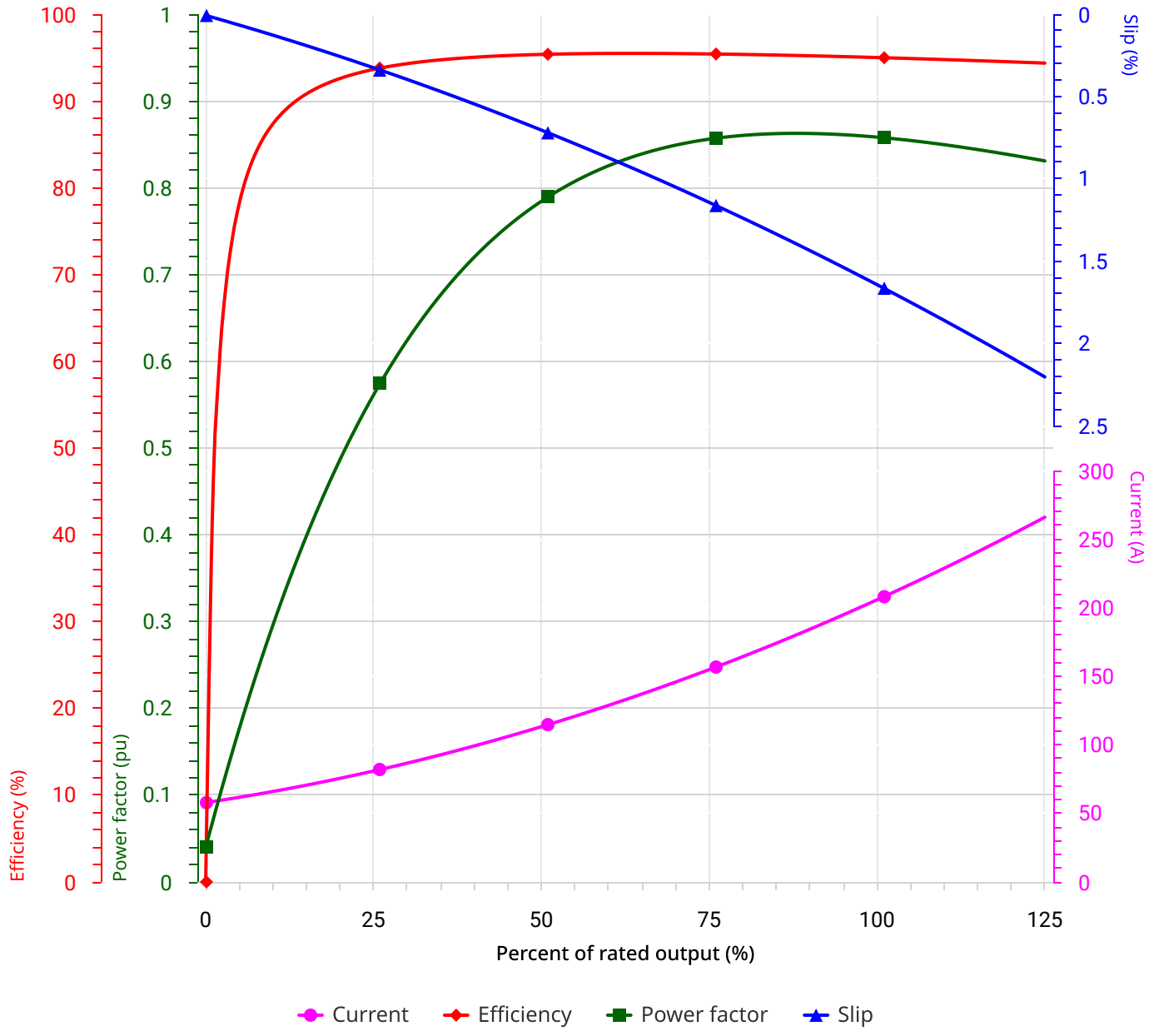
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Performance	: 150 HP (110 kW) 380V 50Hz 4P 444/5T

Rated current	: 205 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 5.8 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 73.8 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B

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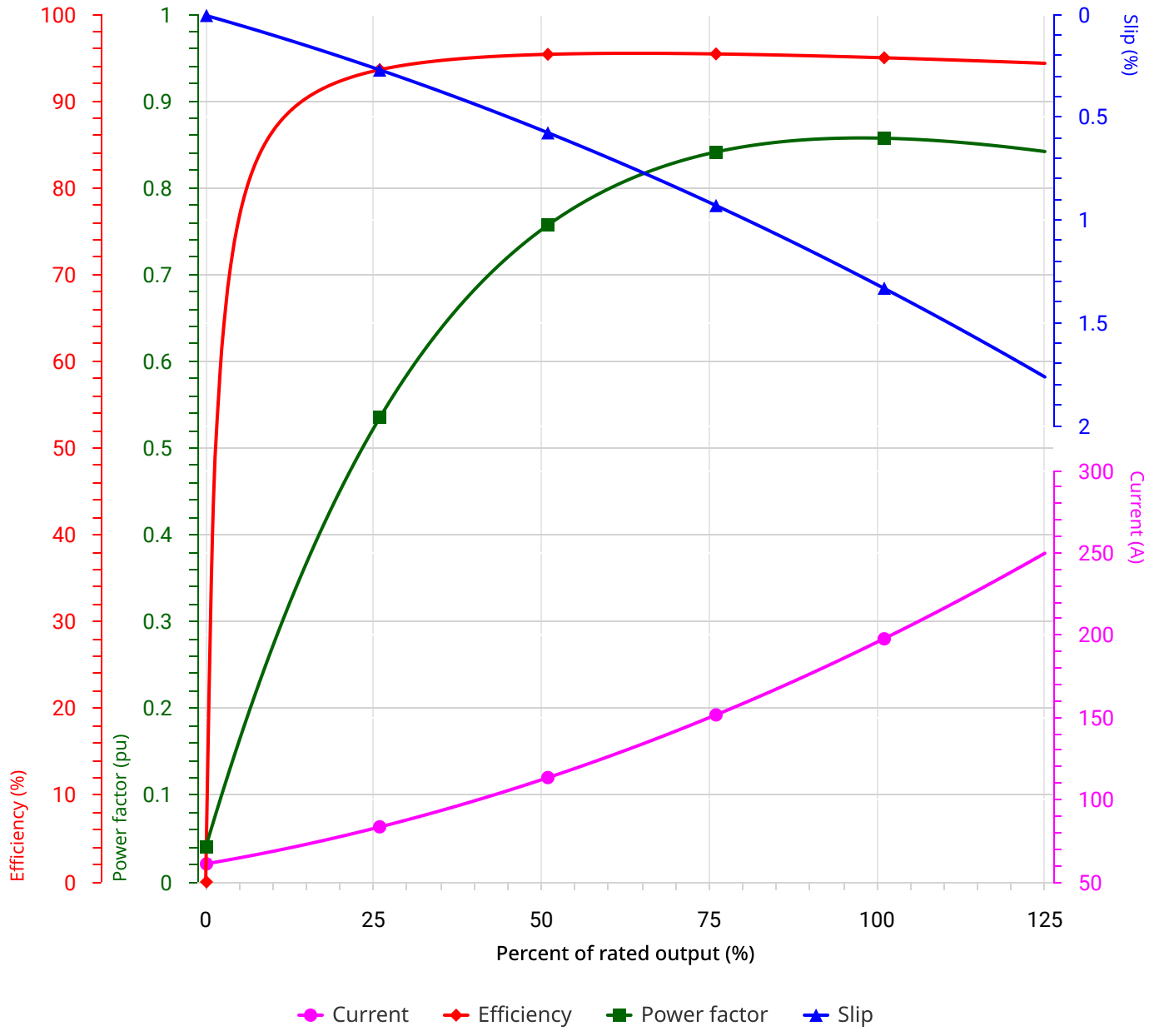
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Performance	: 150 HP (110 kW) 400V 50Hz 4P 444/5T

Rated current	: 194 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 5.8 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 73.6 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 95 K
Rated speed	: 1480 rpm	Design	: B

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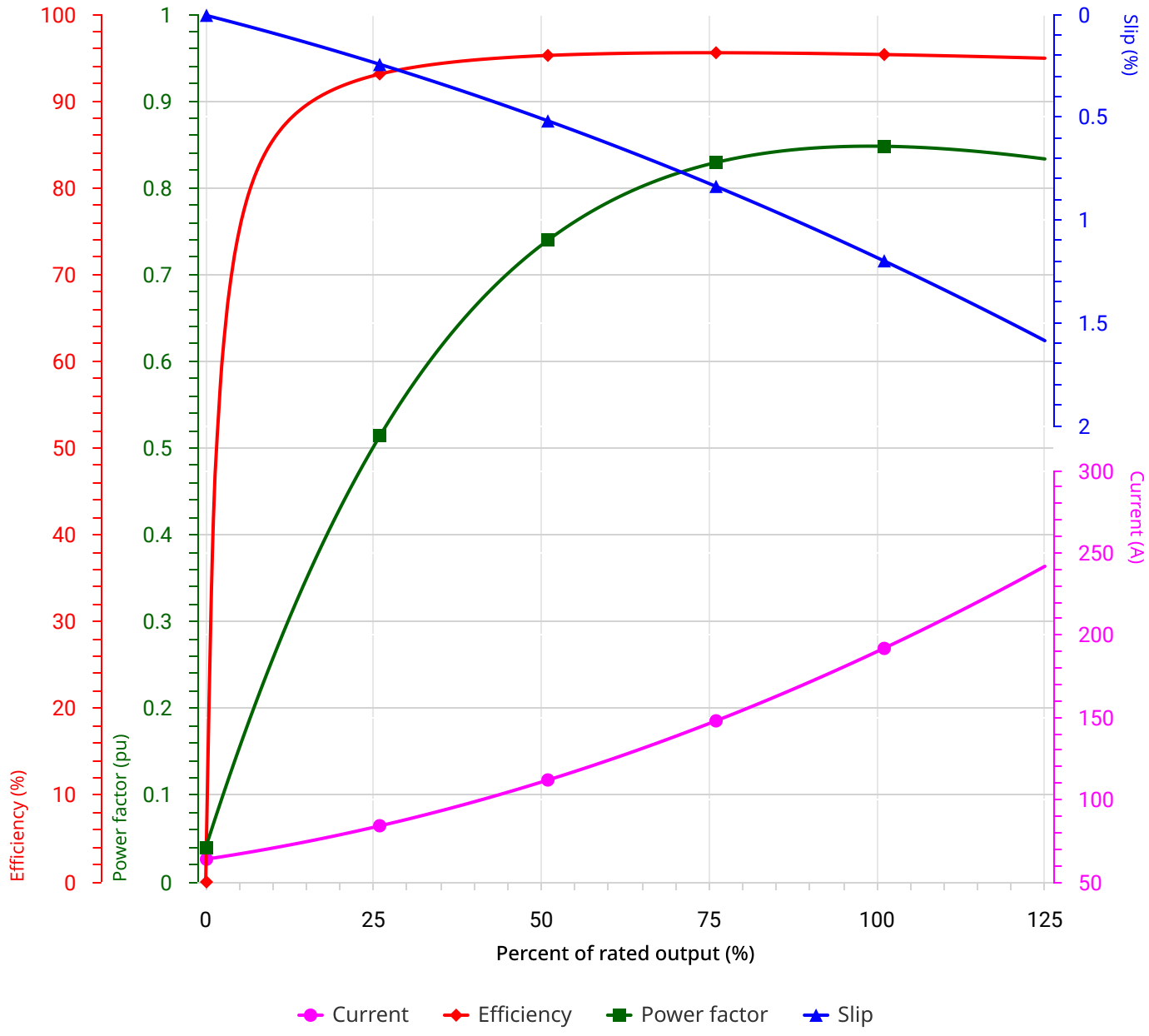
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Performance	: 150 HP (110 kW) 415V 50Hz 4P 444/5T

Rated current	: 189 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 73.5 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 95 K
Rated speed	: 1482 rpm	Design	: B

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