DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11355772

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	: 721 kg
Protection degree	: IP55	Moment of inertia (J)	: 2.41 kgm²
Design	: B		

Output		125 HP (90	125 HP (90	100 HP (75	100 HP (75	100 HP (75	125 HP (90	125 HP (90	125 HP (90
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		279/139 A	307 A	141 A	136 A	132 A	168 A	162 A	155 A
L. R. Amperes		1811/905 A	1998 A	903 A	950 A	1004 A	858 A	922 A	977 A
LRC		6.5 Code G	6.5 Code G	6.4 Code G	7.0 Code H	7.6 Code J	5.1 Code E	5.7 Code F	6.3 Code G
No load current		79.3 A	79.3 A	46.0 A	49.0 A	52.0 A	44.0 A	49.0 A	52.0 A
Rated speed		1785 rpm	1785 rpm	1485 rpm	1485 rpm	1487 rpm	1480 rpm	1482 rpm	1483 rpm
Slip		0.83 %	0.83 %	1.00 %	1.00 %	0.87 %	1.33 %	1.20 %	1.13 %
Rated torque		51.0 kgfm	51.0 kgfm	48.9 kgfm	48.9 kgfm	48.8 kgfm	61.3 kgfm	61.2 kgfm	61.2 kgfm
Locked rotor torque		200 %	200 %	190 %	220 %	240 %	160 %	180 %	190 %
Breakdown torque		225 %	225 %	230 %	260 %	280 %	200 %	200 %	220 %
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	80 K	80 K	80 K
Noise level		73.0 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%	95.0	95.0	94.7	94.6	94.3	95.0	95.0	95.0
	75%	95.4	95.4	95.1	95.1	95.1	95.0	95.0	95.0
	100%	95.4	95.4	95.0	95.0	95.2	94.5	94.5	95.0
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	0.69	0.67	0.79	0.76	0.74
	75%	0.82	0.82	0.82	0.80	0.78	0.84	0.83	0.82
	100%	0.85	0.85	0.85	0.84	0.83	0.86	0.85	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		4.52	4.52	4.94	4.94	4.73	5.46	5.46	4.94
P2 (0,5;1,0)		3.37	3.37	3.68	3.68	3.52	4.07	4.07	3.68
P3 (0,25;1,0)		3.01	3.01	3.29	3.29	3.15	3.64	3.64	3.29
P4 (0,9;0,5)		2.41	2.41	2.64	2.64	2.52	2.91	2.91	2.64
P5 (0,5;0,5)		1.40	1.40	1.53	1.53	1.46	1.69	1.69	1.53
P6 (0,5;0,25)		0.94	0.94	1.03	1.03	0.98	1.14	1.14	1.03
P7 (0,25;0,25)		0.56	0.56	0.61	0.61	0.59	0.68	0.68	0.61

	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 : 819 kgf
Max. compression : 1540 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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				2026/11/14

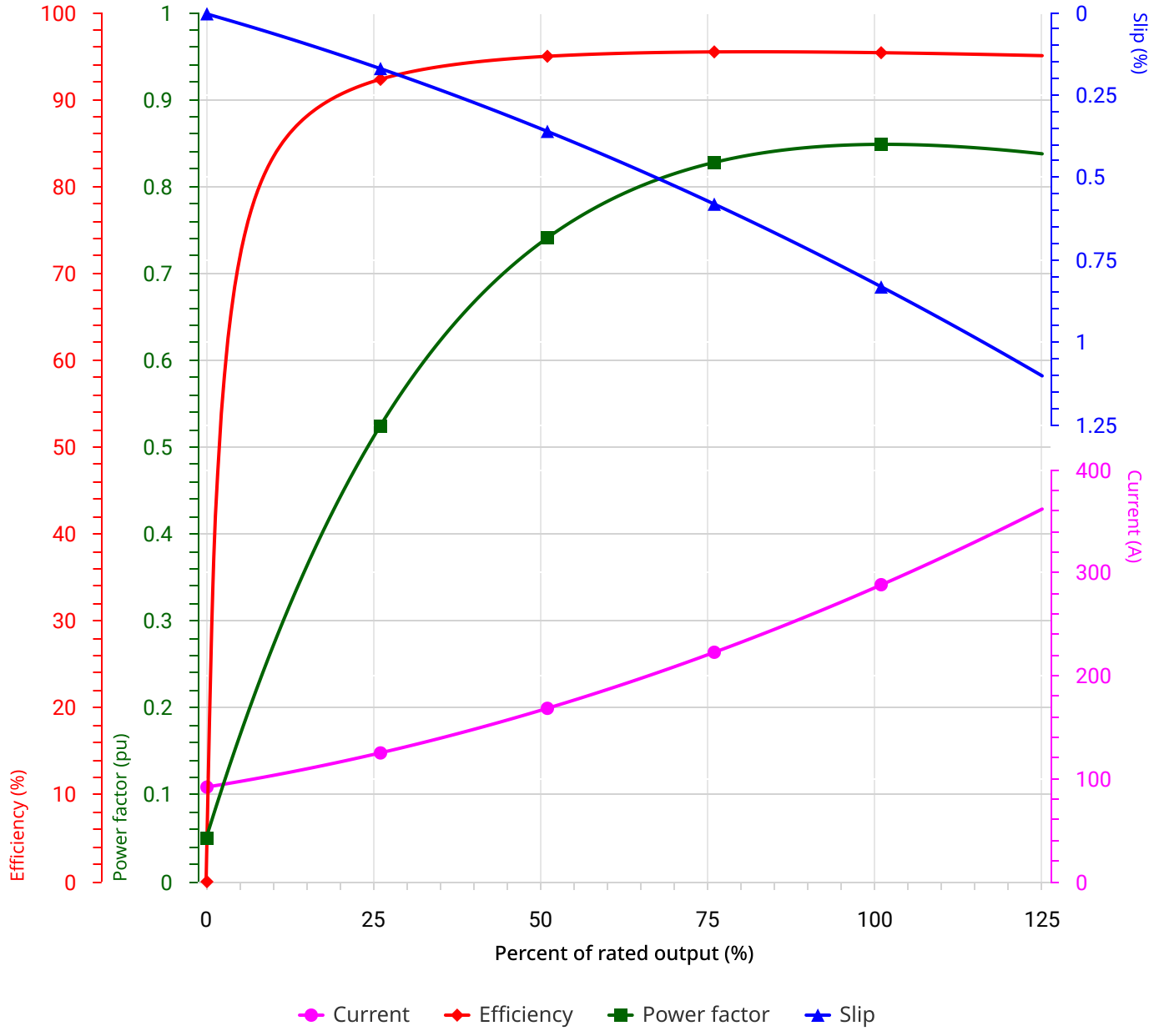
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11355772



Performance	: 125 HP (90 kW) 230/460V 60Hz 4P 444/5T

Rated current	: 279/139 A	Moment of inertia (J)	: 2.41 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 50.8 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 1785 rpm	Design	: B

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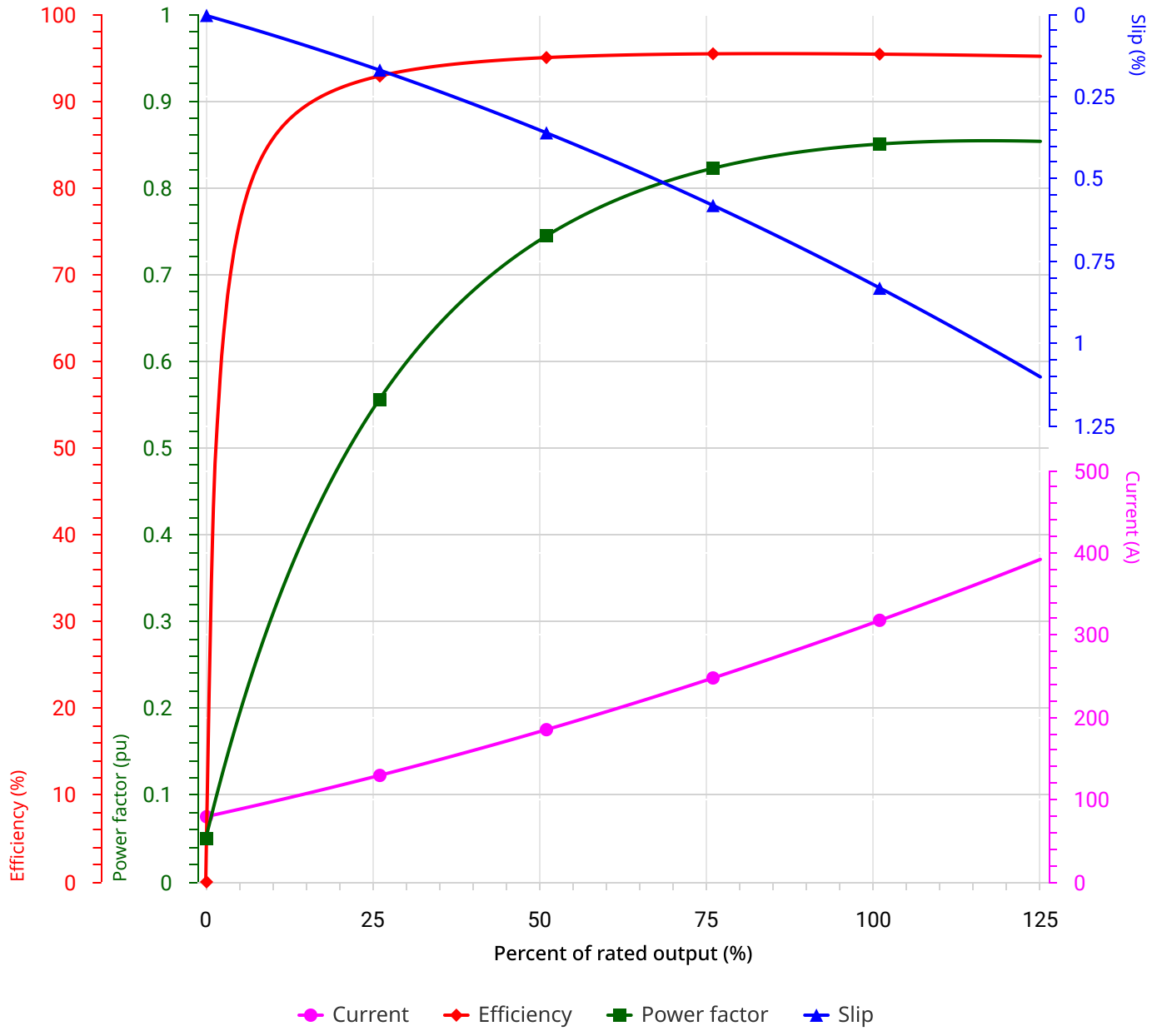
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11355772



Performance	: 125 HP (90 kW) 208V 60Hz 4P 444/5T

Rated current	: 307 A	Moment of inertia (J)	: 2.41 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 51.0 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 225 %	Temperature rise	: 80 K
Rated speed	: 1785 rpm	Design	: 00002

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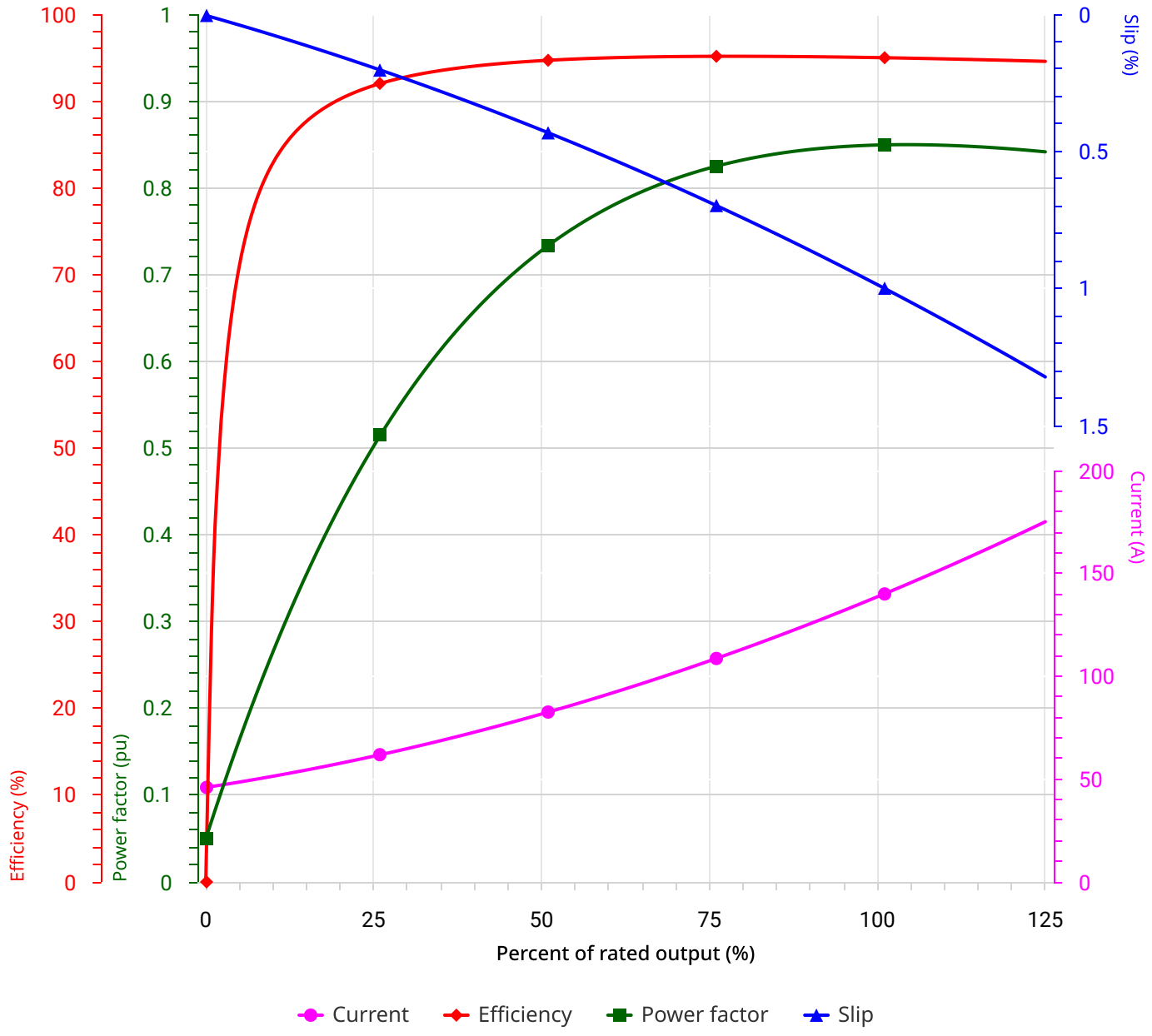
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 100 HP (75 kW) 380V 50Hz 4P 444/5T

Rated current	: 141 A	Moment of inertia (J)	: 2.41 kgm²
LRC	: 6.4 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 48.9 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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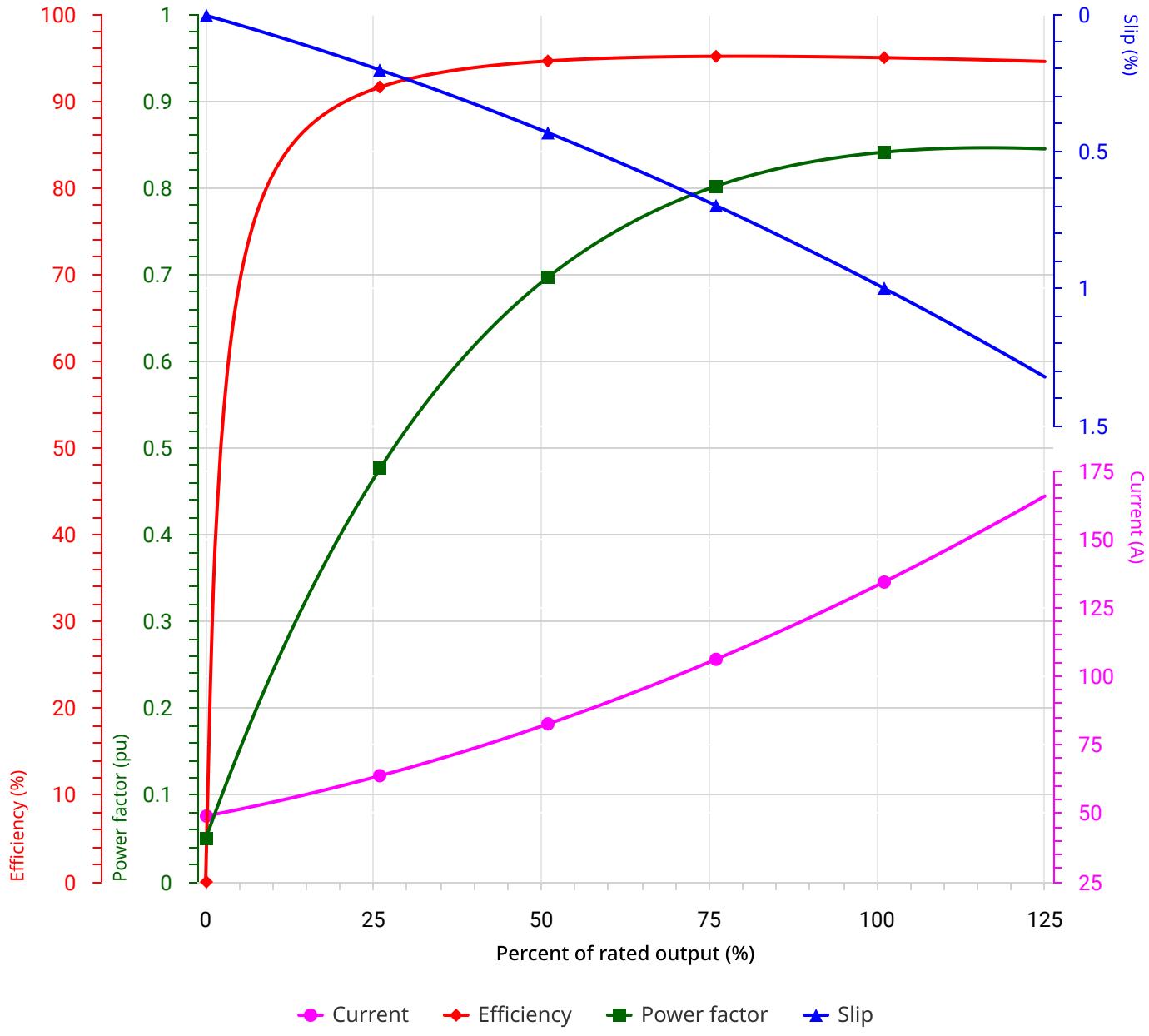
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 100 HP (75 kW) 400V 50Hz 4P 444/5T

Rated current	: 136 A	Moment of inertia (J)	: 2.41 kgm²
LRC	: 7.0 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 48.9 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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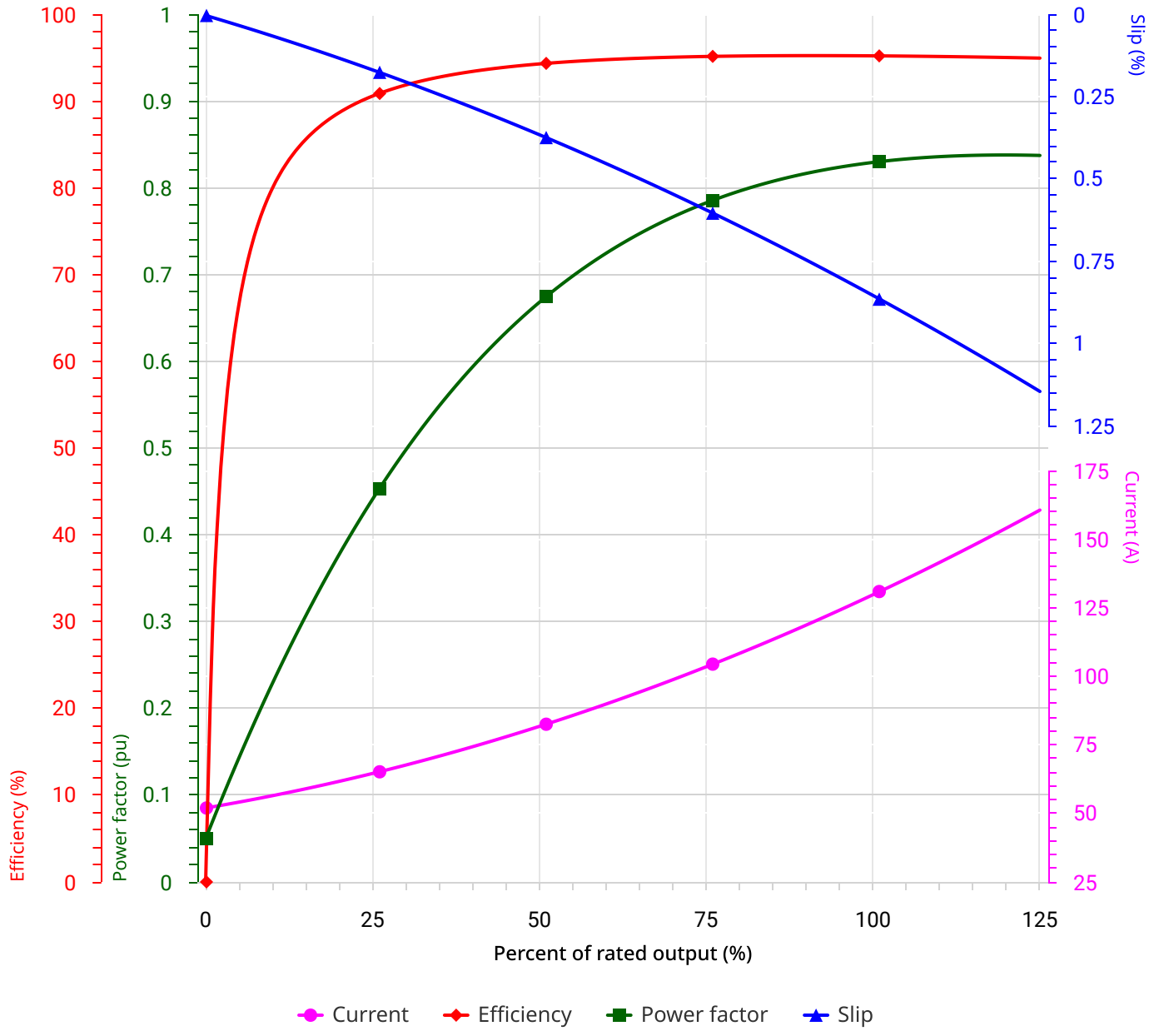
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 11355772



Performance	: 100 HP (75 kW) 415V 50Hz 4P 444/5T

Rated current	: 132 A	Moment of inertia (J)	: 2.41 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 48.8 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1487 rpm	Design	: B

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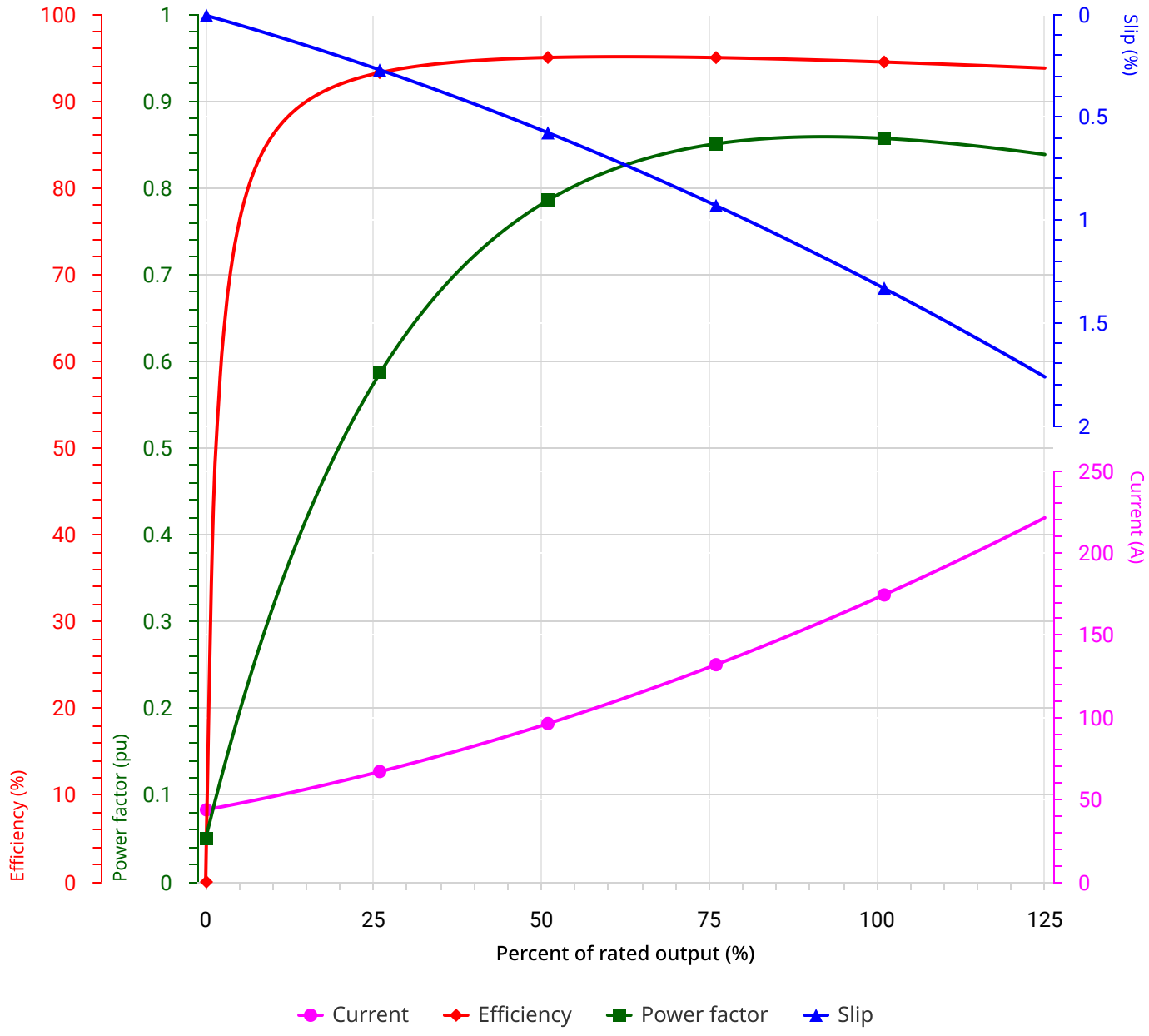
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Performance	: 125 HP (90 kW) 380V 50Hz 4P 444/5T

Rated current	: 168 A	Moment of inertia (J)	: 2.41 kgm²
LRC	: 5.1 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 61.3 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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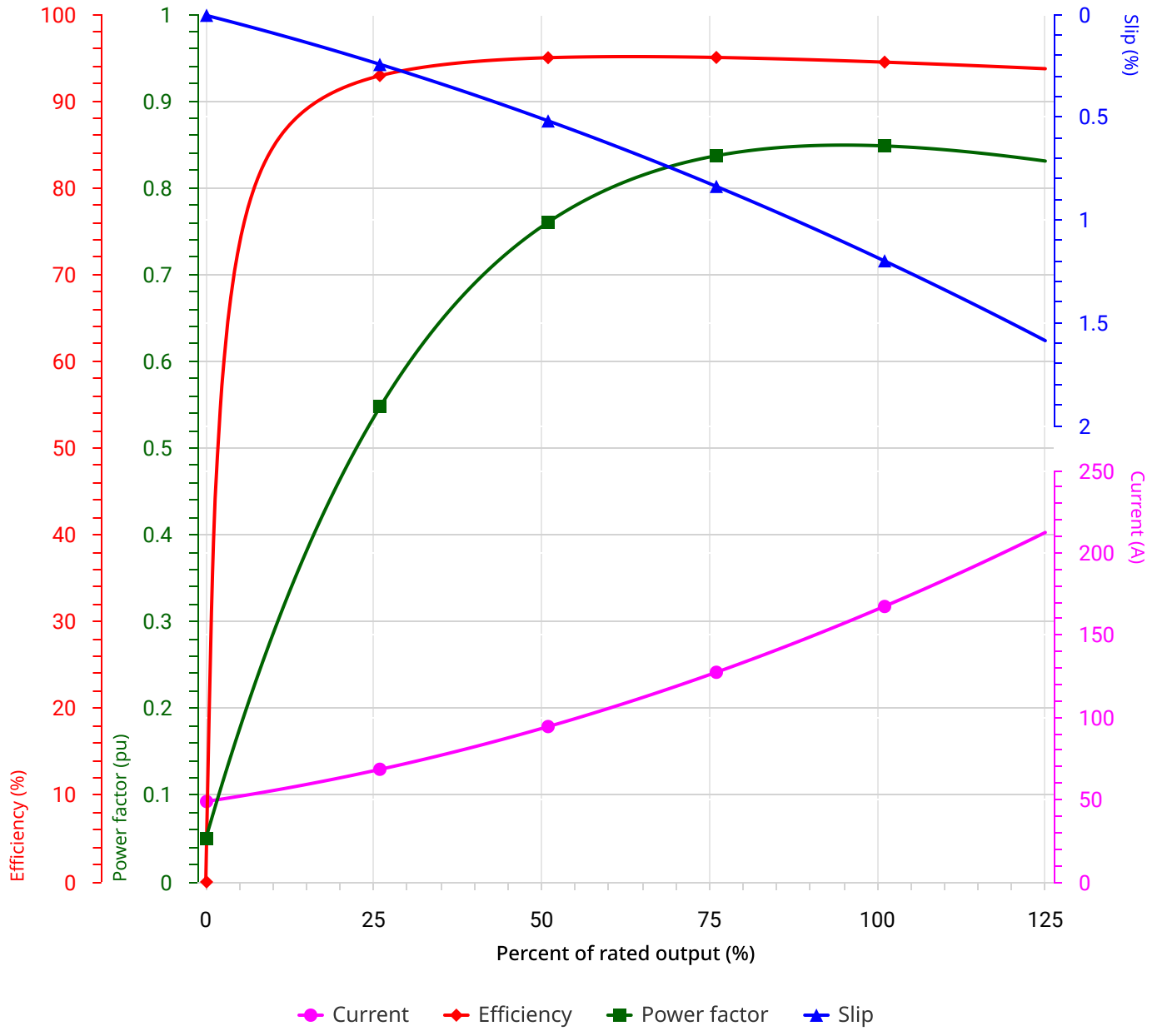
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Performance	: 125 HP (90 kW) 400V 50Hz 4P 444/5T

Rated current	: 162 A	Moment of inertia (J)	: 2.41 kgm²
LRC	: 5.7 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 61.2 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1482 rpm	Design	: B

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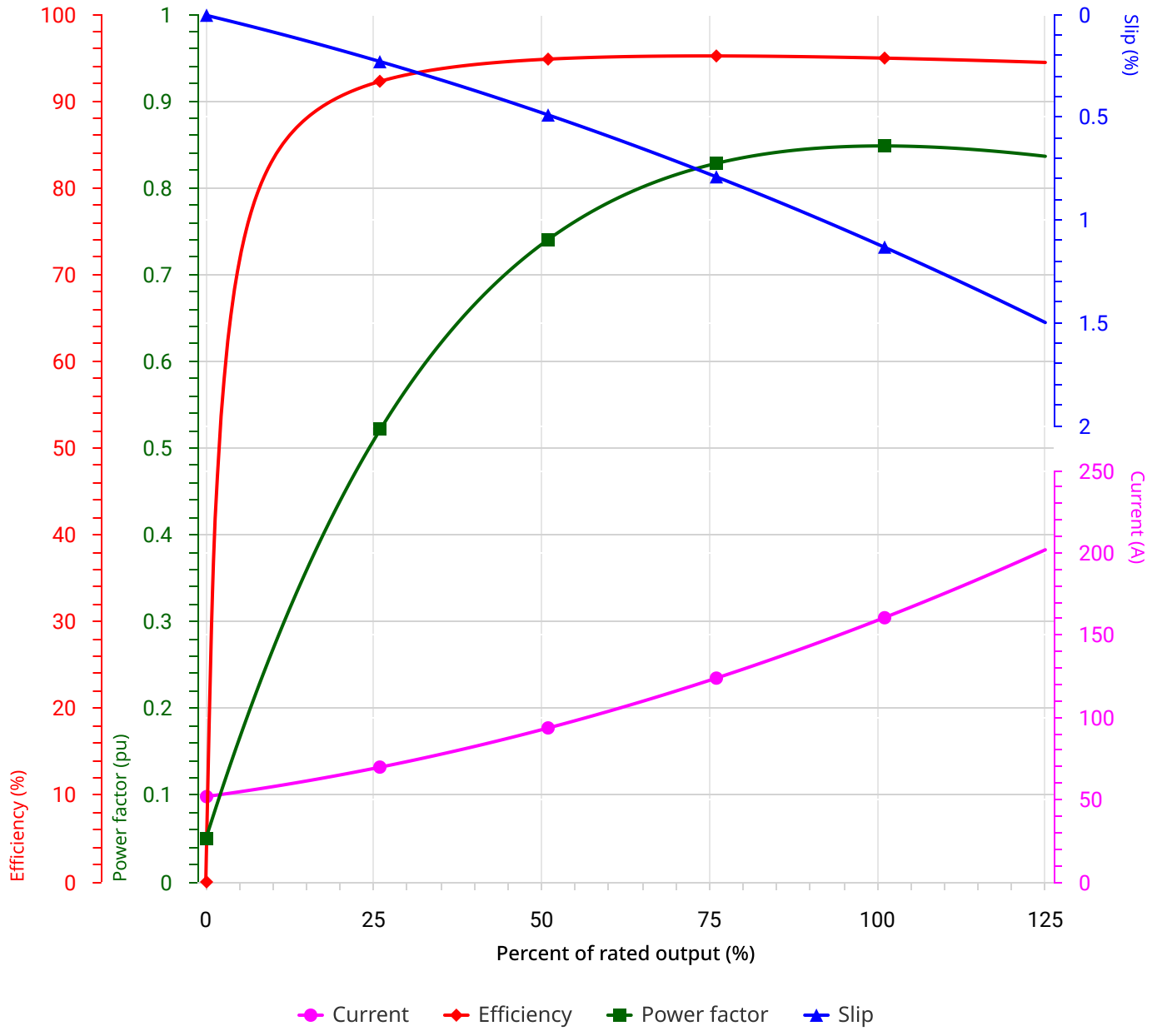
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Performance	: 125 HP (90 kW) 415V 50Hz 4P 444/5T

Rated current	: 155 A	Moment of inertia (J)	: 2.41 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 61.2 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1483 rpm	Design	: B

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