DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12004235

Frame	: 444/5TC	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	: 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	6319-C3	6316-C3
Lubrication interval	8000 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:

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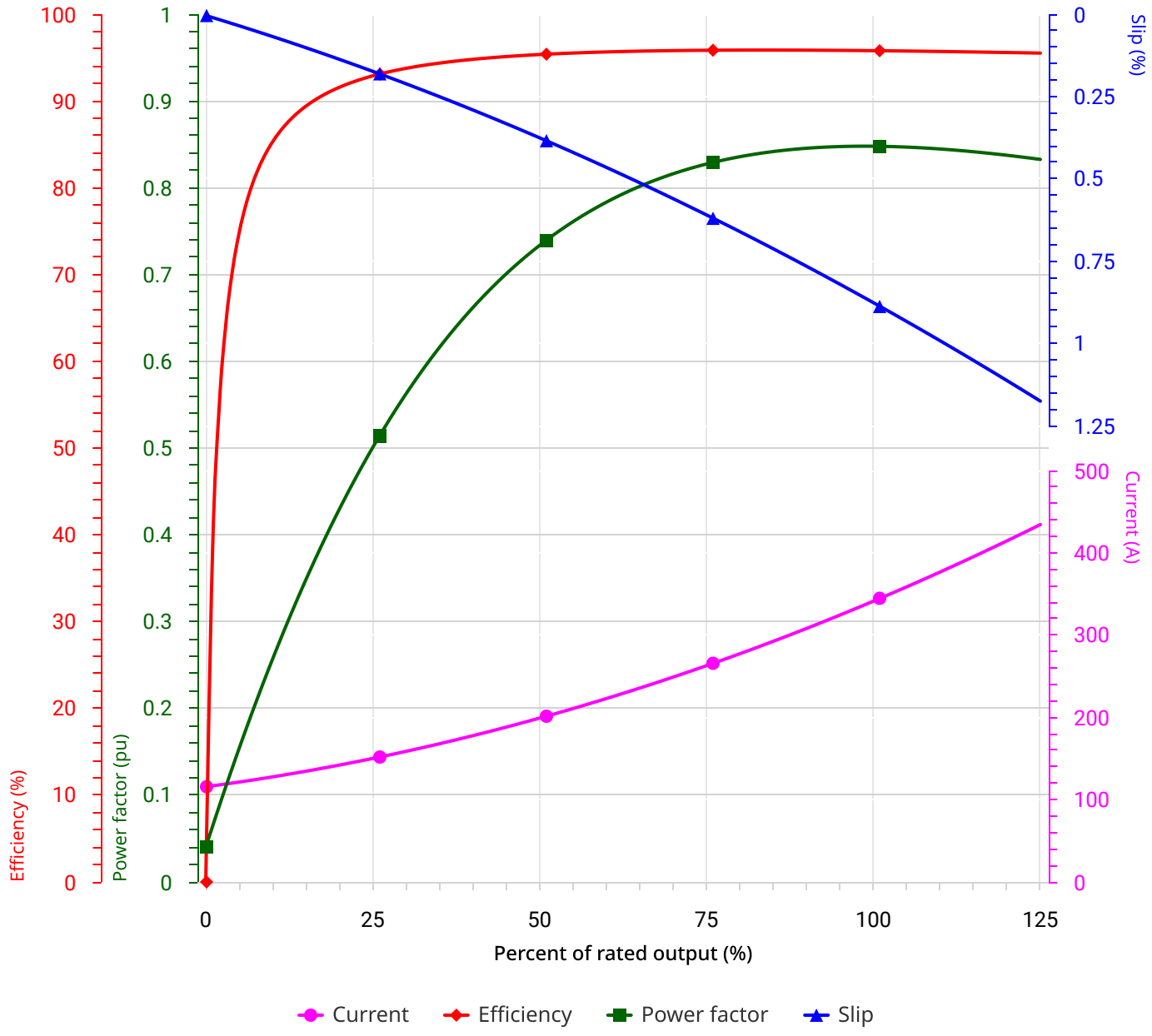
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12004235



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

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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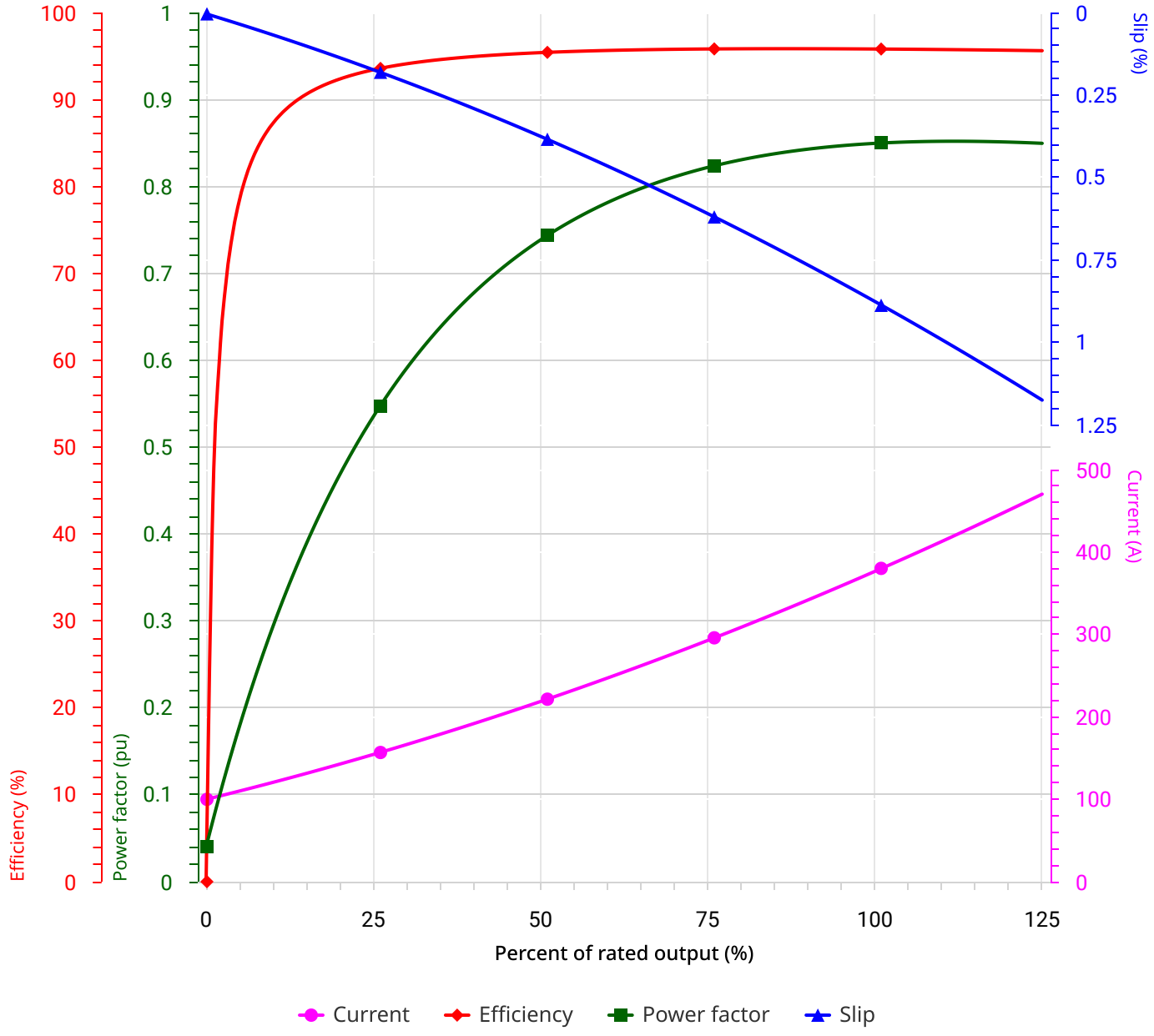
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12004235



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

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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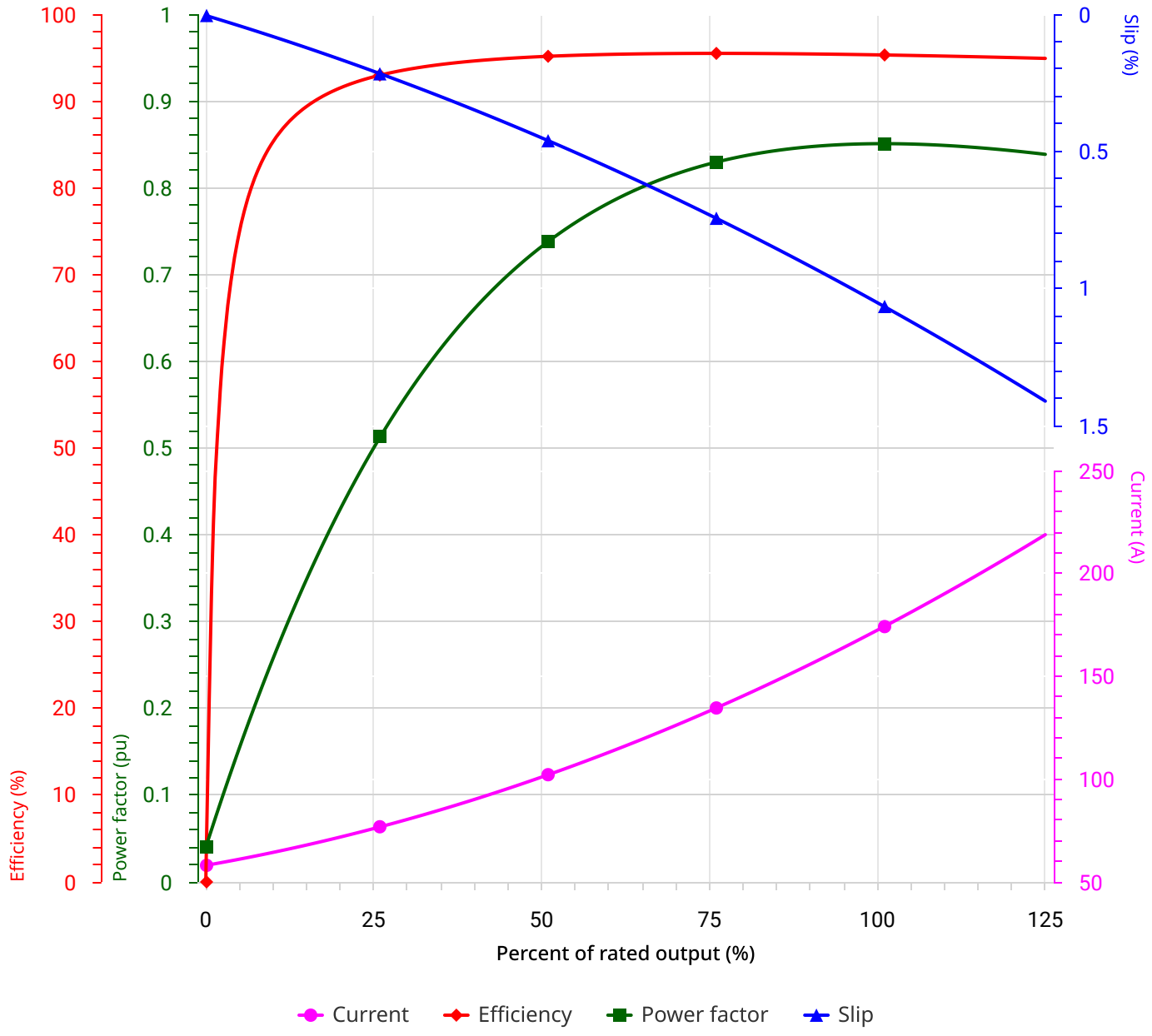
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12004235



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

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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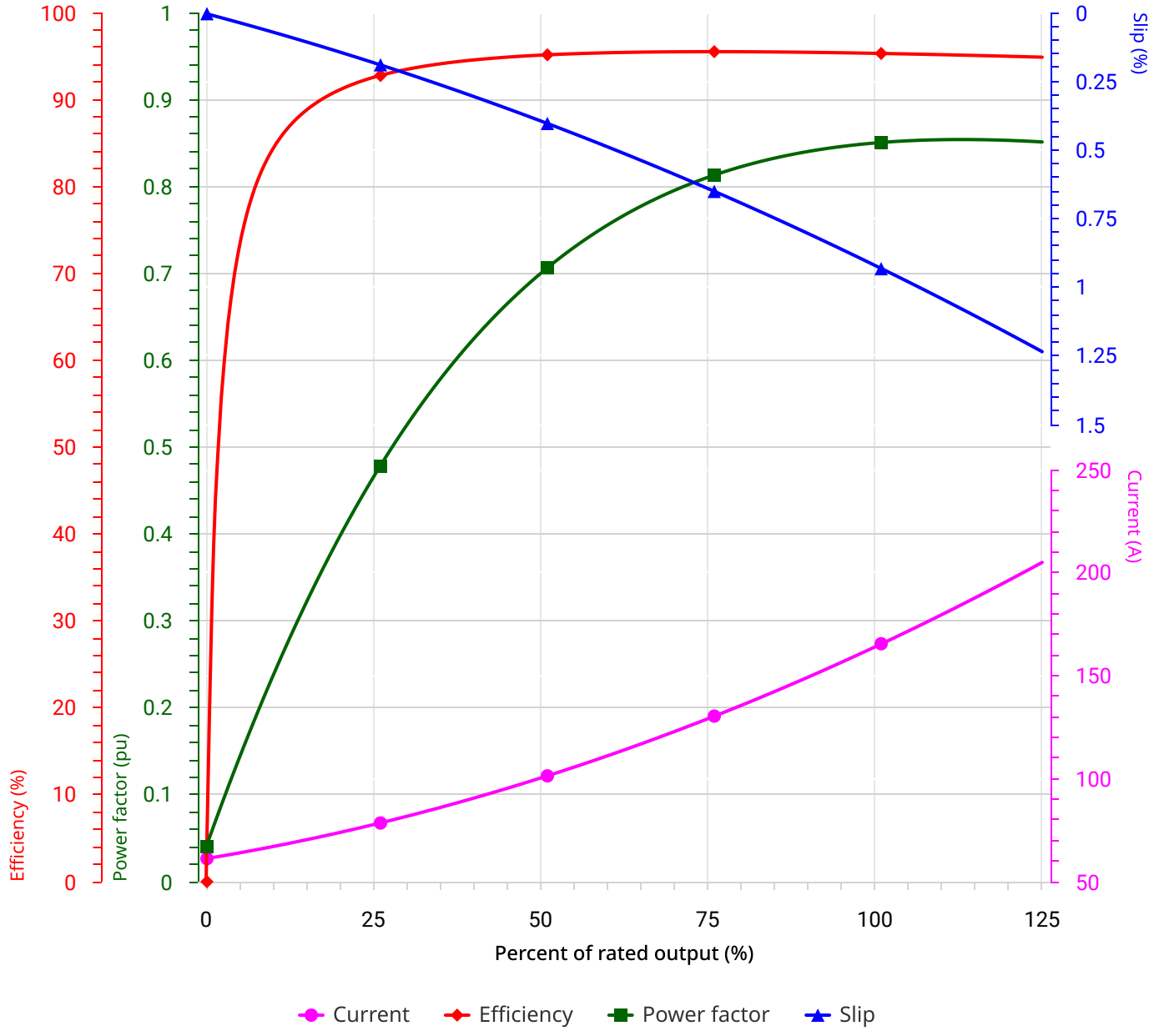
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12004235



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

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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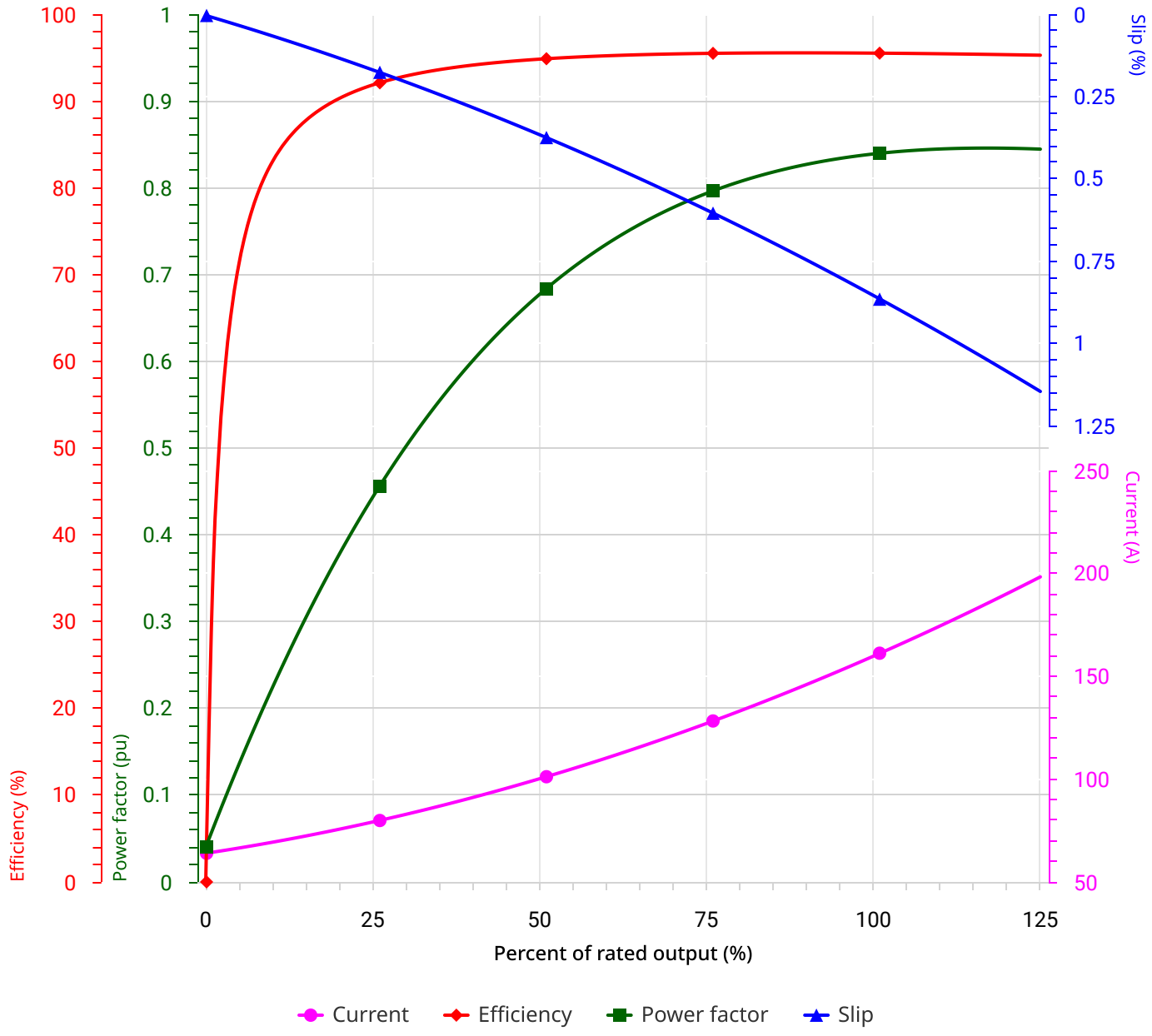
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12004235



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

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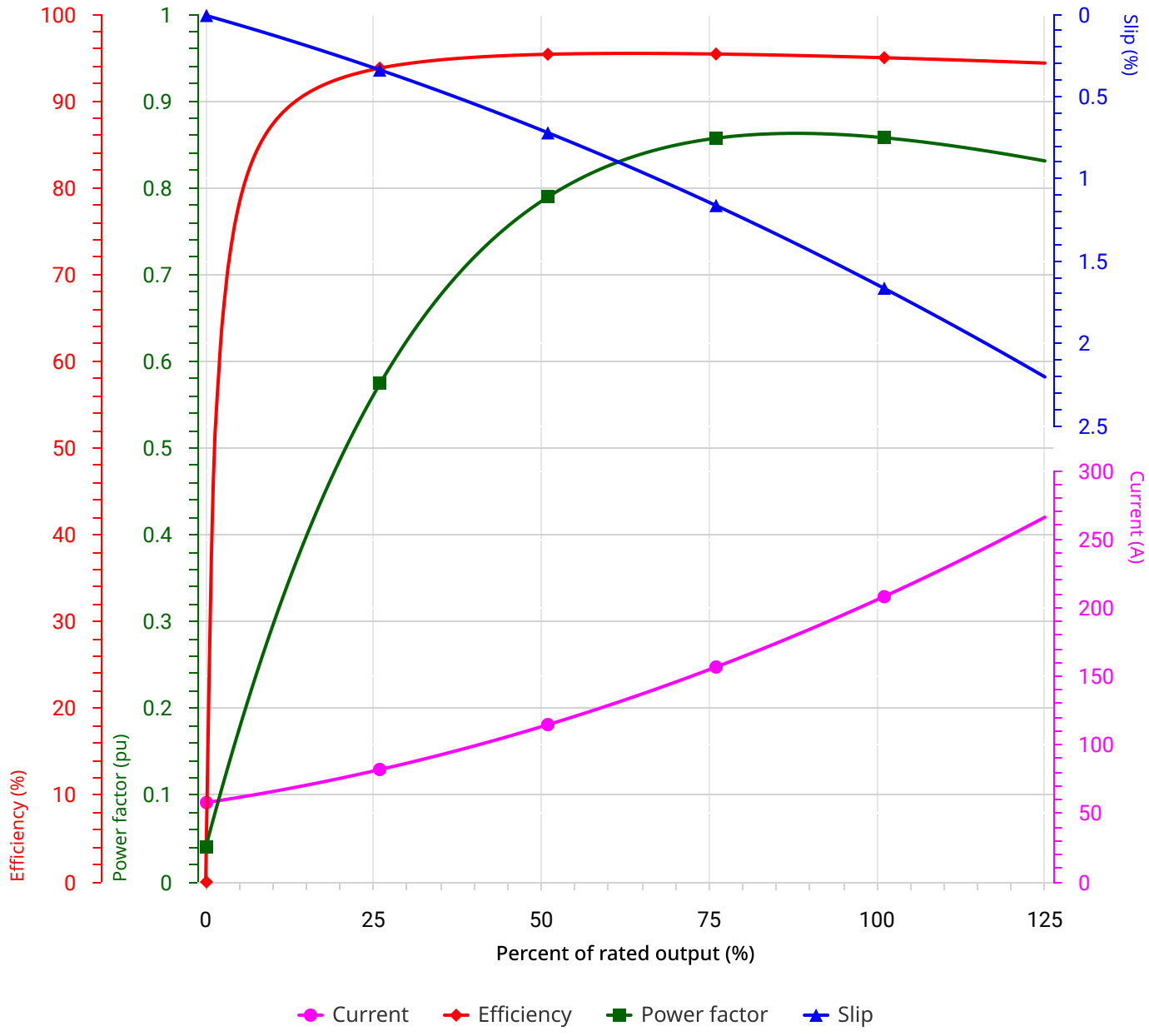
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Performance	: 150 HP (110 kW) 380V 50Hz 4P 444/5TC

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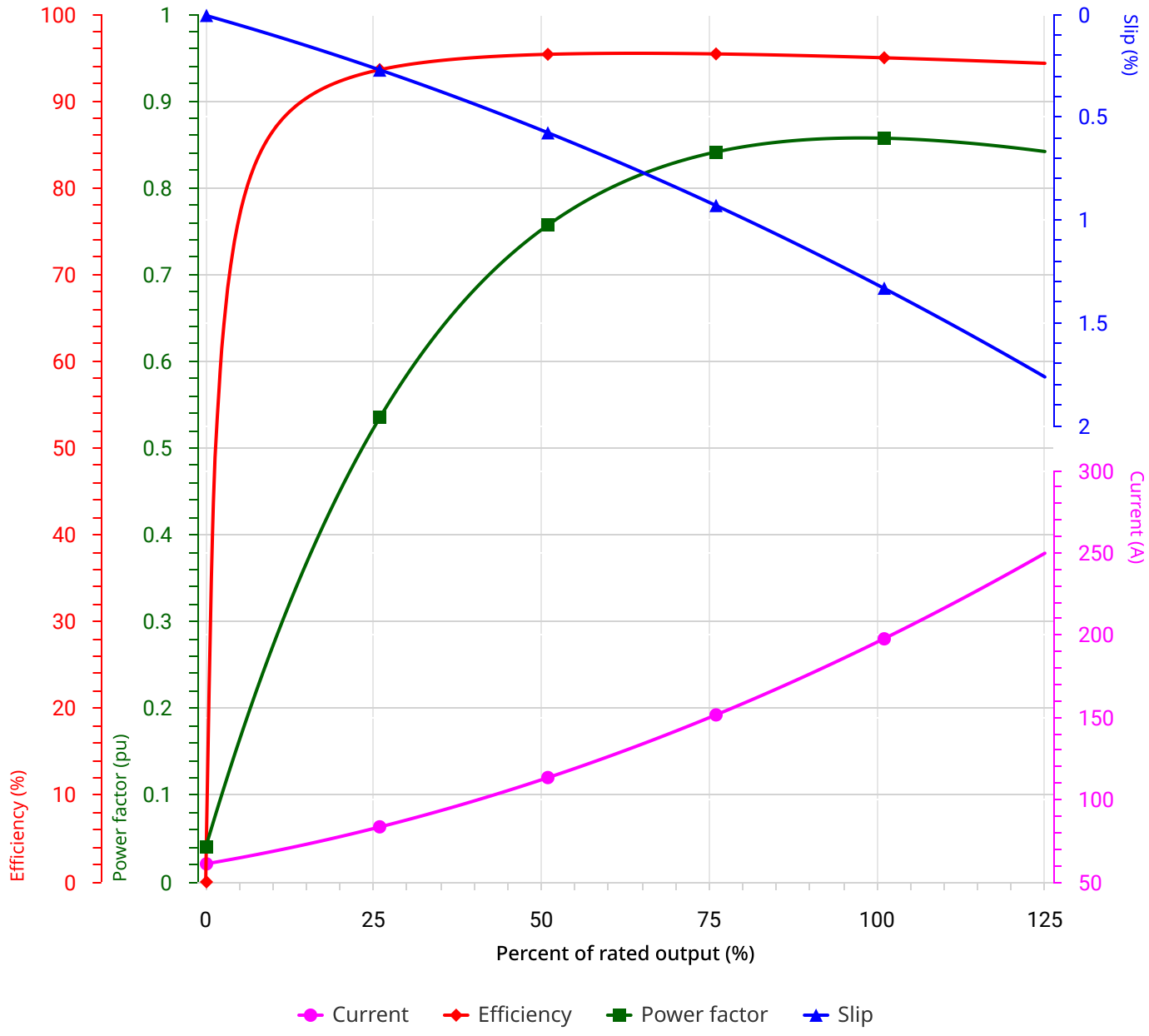
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Customer	:
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Performance	: 150 HP (110 kW) 400V 50Hz 4P 444/5TC

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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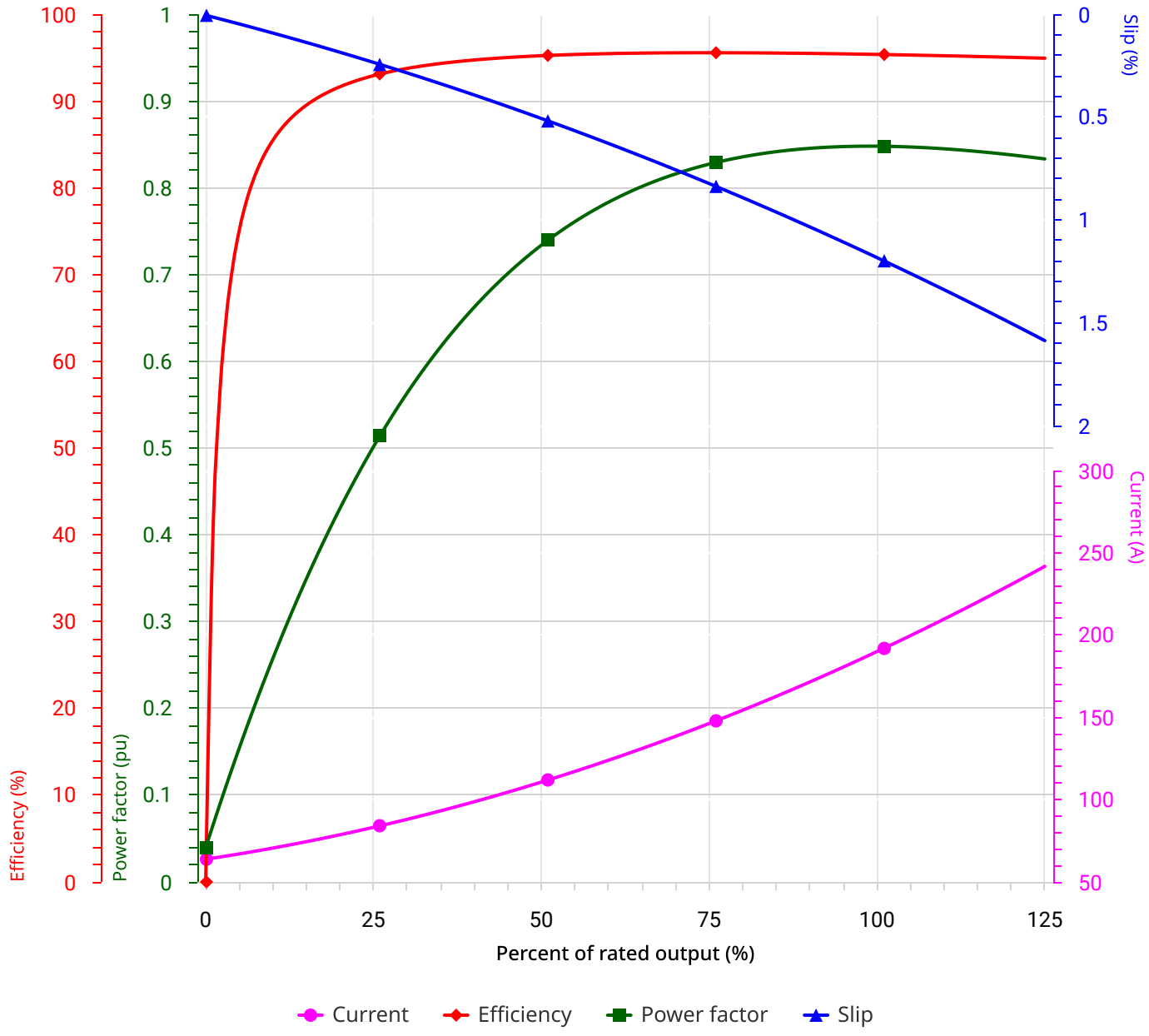
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Three Phase Induction Motor - Squirrel Cage

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Product code	: 12004235



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

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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