DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11165997

Frame	: 444/5TS	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	: 775 kg
Protection degree	: IP55	Moment of inertia (J)	: 1.65 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		2	2	2	2	2	2	2	2
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		327/163 A	356 A	162 A	154 A	148 A	200 A	189 A	182 A
L. R. Amperes		2286/1143 A	2492 A	1084 A	1183 A	1259 A	1098 A	1133 A	1183 A
LRC		7.0 Code G	7.0 Code G	6.7 Code G	7.7 Code H	8.5 Code J	5.5 Code E	6.0 Code F	6.5 Code G
No load current		73.0/36.5 A	62.9 A	36.0 A	38.5 A	40.5 A	36.0 A	38.5 A	40.5 A
Rated speed		3575 rpm	3575 rpm	2975 rpm	2980 rpm	2980 rpm	2965 rpm	2970 rpm	2970 rpm
Slip		0.69 %	0.69 %	0.83 %	0.67 %	0.67 %	1.17 %	1.00 %	1.00 %
Rated torque		30.5 kgfm	30.0 kgfm	30.5 kgfm	30.4 kgfm	30.4 kgfm	36.7 kgfm	36.7 kgfm	36.7 kgfm
Locked rotor torque		180 %	180 %	170 %	190 %	210 %	140 %	160 %	180 %
Breakdown torque		240 %	240 %	240 %	260 %	290 %	200 %	220 %	240 %
Service factor		240 %	1.15	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		1.15	80 K	80 K	80 K	80 K	95 K	95 K	80 K
Noise level		80 K	81.0 dB(A)	77 dB(A)	77 dB(A)	77 dB(A)	77 dB(A)	77 dB(A)	77 dB(A)
Locked rotor time		81 dB(A)	22 s (hot) 40 s (cold)	17 s (hot) 31 s (cold)	17 s (hot) 31 s (cold)	17 s (hot) 31 s (cold)	17 s (hot) 31 s (cold)	17 s (hot) 31 s (cold)	17 s (hot) 31 s (cold)
		22 s (hot) 40 s (cold)							
Efficiency (%)	50%	94.1	94.1	93.7	94.1	94.1	94.1	94.5	94.5
	75%	95.0	95.0	94.4	94.9	94.9	94.5	95.0	95.0
	100%	95.0	95.0	95.0	95.0	95.0	94.1	94.5	94.5
Power Factor	Start	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
	50%	0.83	0.83	0.81	0.79	0.77	0.86	0.84	0.83
	75%	0.88	0.88	0.88	0.87	0.86	0.89	0.89	0.88
	100%	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		5.19	5.19	5.19	5.19	5.19	6.19	5.74	5.74
P2 (0,5;1,0)		3.41	3.41	3.41	3.41	3.41	4.06	3.77	3.77
P3 (0,25;1,0)		2.70	2.70	2.70	2.70	2.70	3.22	2.99	2.99
P4 (0,9;0,5)		3.34	3.34	3.34	3.34	3.34	3.97	3.69	3.69
P5 (0,5;0,5)		1.69	1.69	1.69	1.69	1.69	2.01	1.87	1.87
P6 (0,5;0,25)		1.28	1.28	1.28	1.28	1.28	1.53	1.42	1.42
P7 (0,25;0,25)		0.60	0.60	0.60	0.60	0.60	0.72	0.67	0.67

	Drive end	Non drive end
Bearing type	6314-C3	6314-C3
Lubrication interval	4000 h	4000 h
Lubricant amount	27 g	27 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 375 kgf
Max. compression	: 1150 kgf

Notes:

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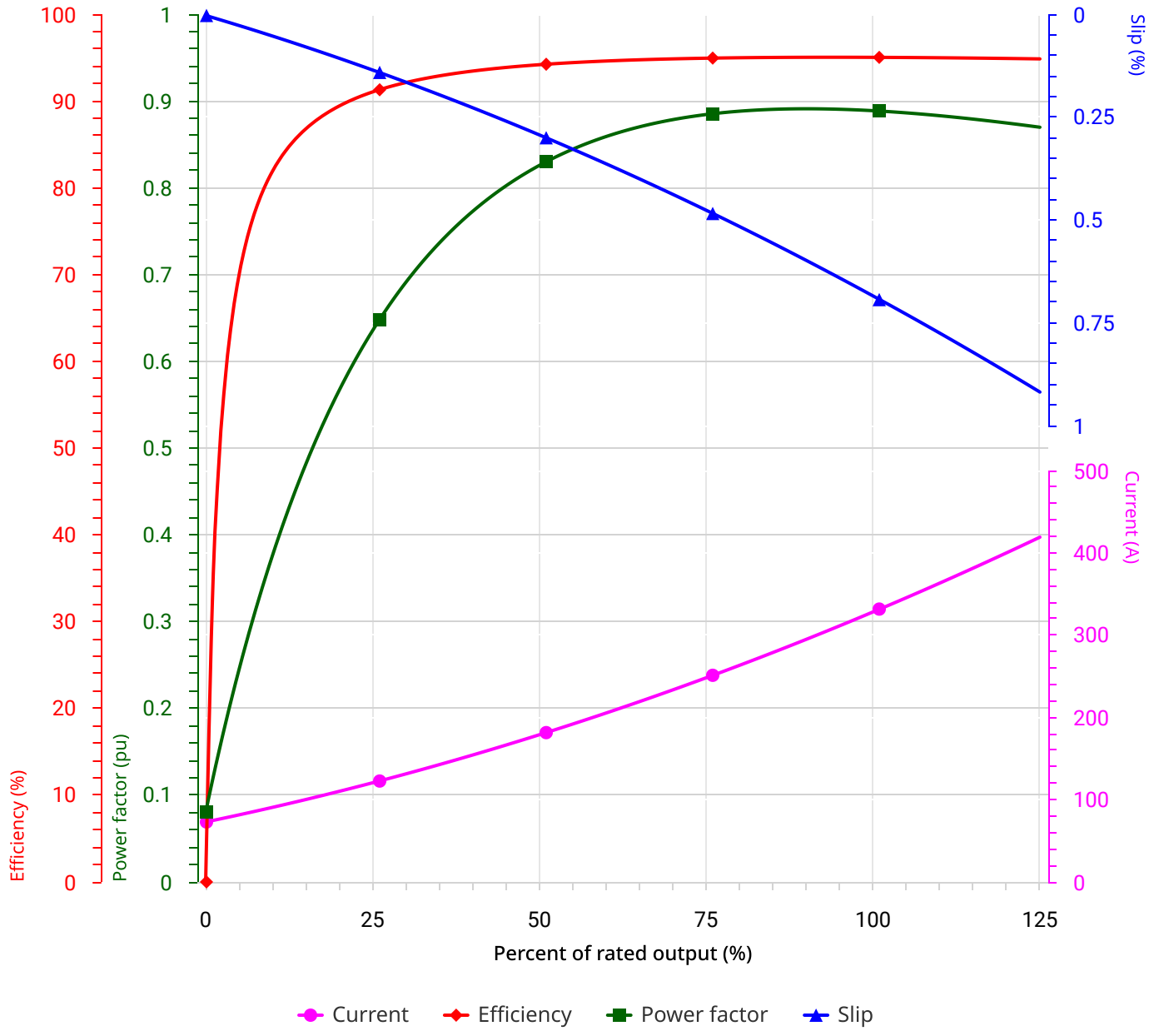
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11165997



Performance	: 150 HP (110 kW) 230/460V 60Hz 2P 444/5TS

Rated current	: 327/163 A	Moment of inertia (J)	: 1.65 kgm²
LRC	: 7.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 30.5 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3575 rpm	Design	: B

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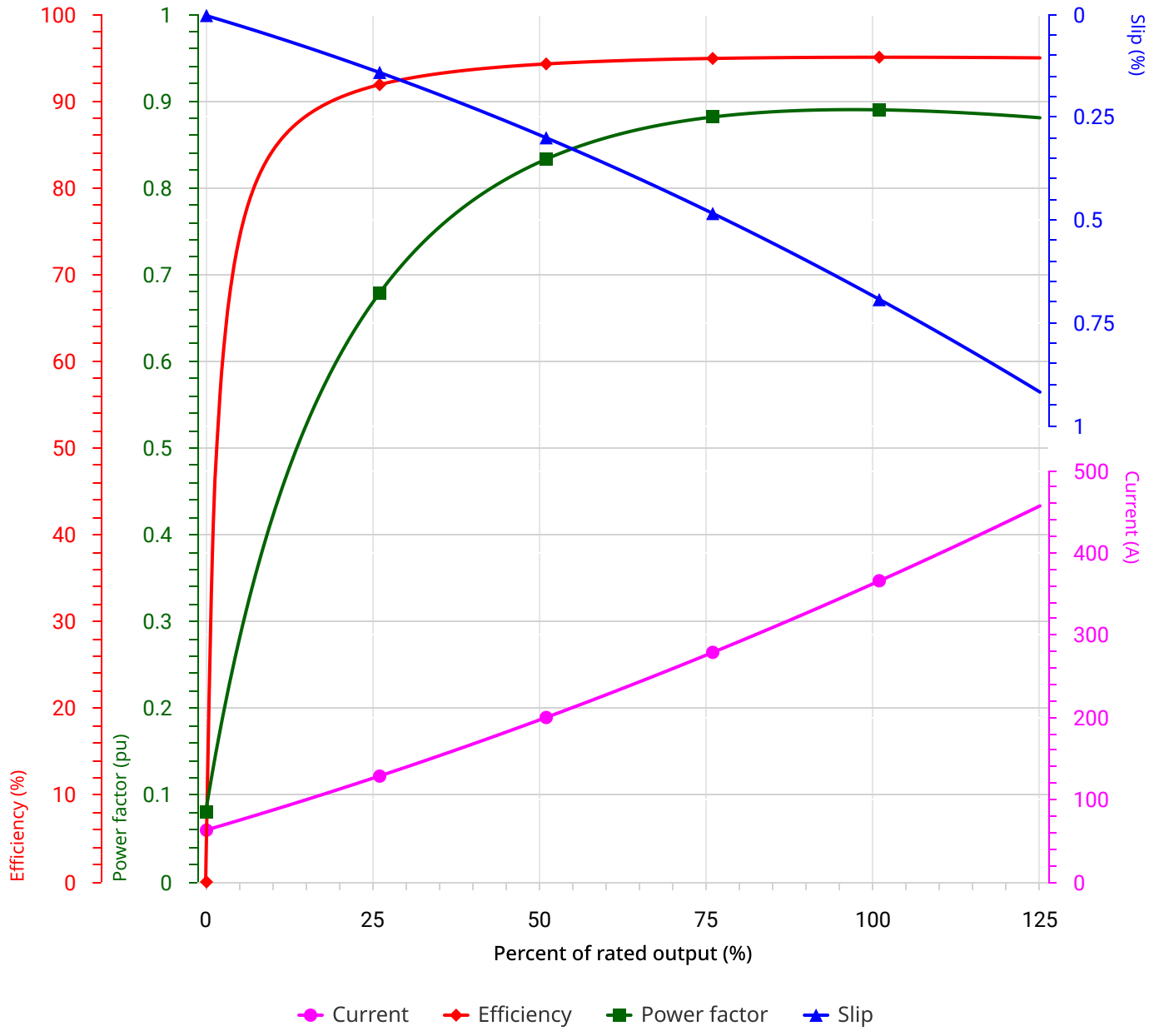
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11165997



Performance	: 150 HP (110 kW) 208V 60Hz 2P 444/5TS

Rated current	: 356 A	Moment of inertia (J)	: 1.65 kgm²
LRC	: 7.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 30.0 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3575 rpm	Design	: 00002

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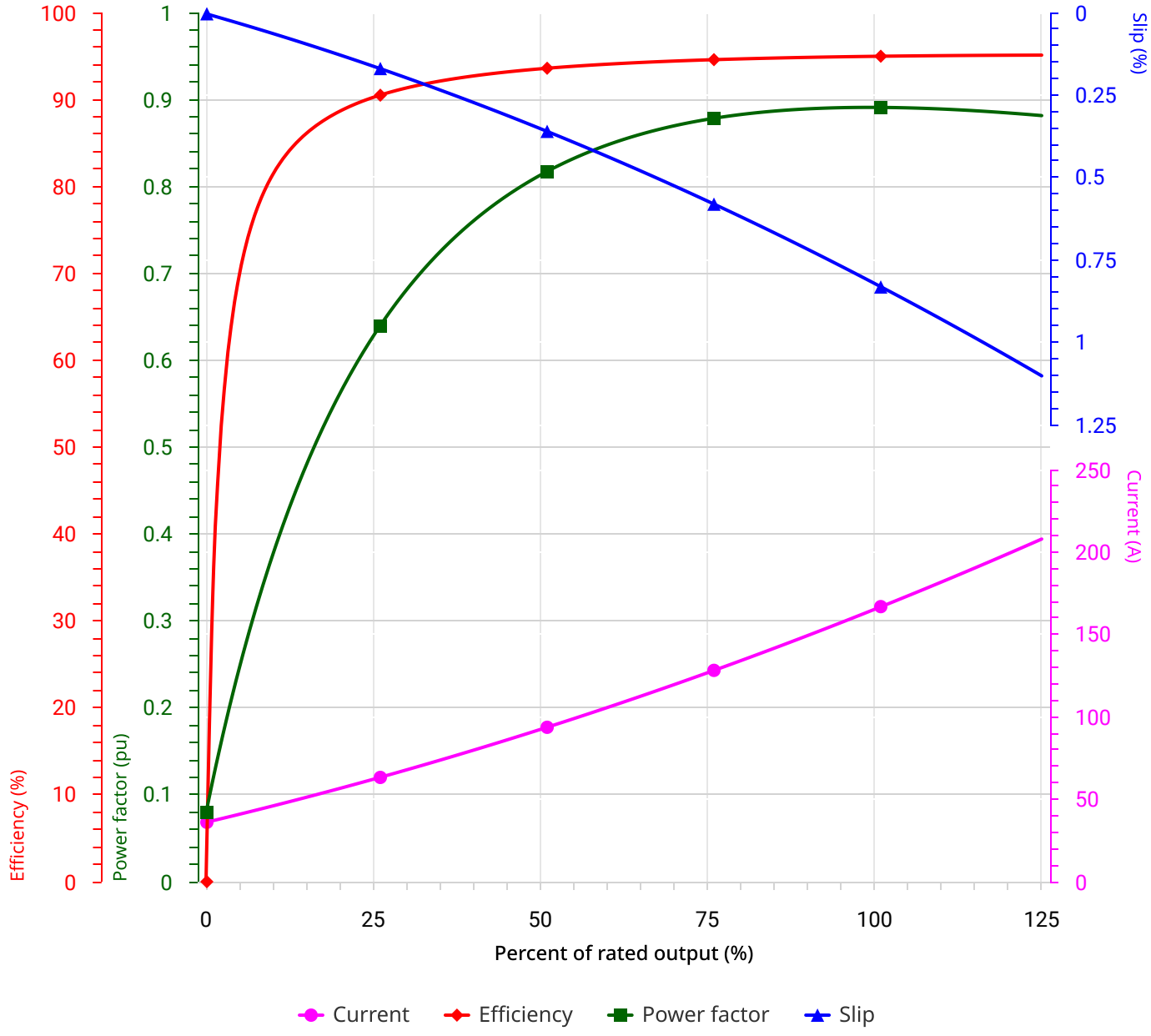
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 11165997



Performance	: 125 HP (90 kW) 380V 50Hz 2P 444/5TS

Rated current	: 162 A	Moment of inertia (J)	: 1.65 kgm²
LRC	: 6.7 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 30.5 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2975 rpm	Design	: B

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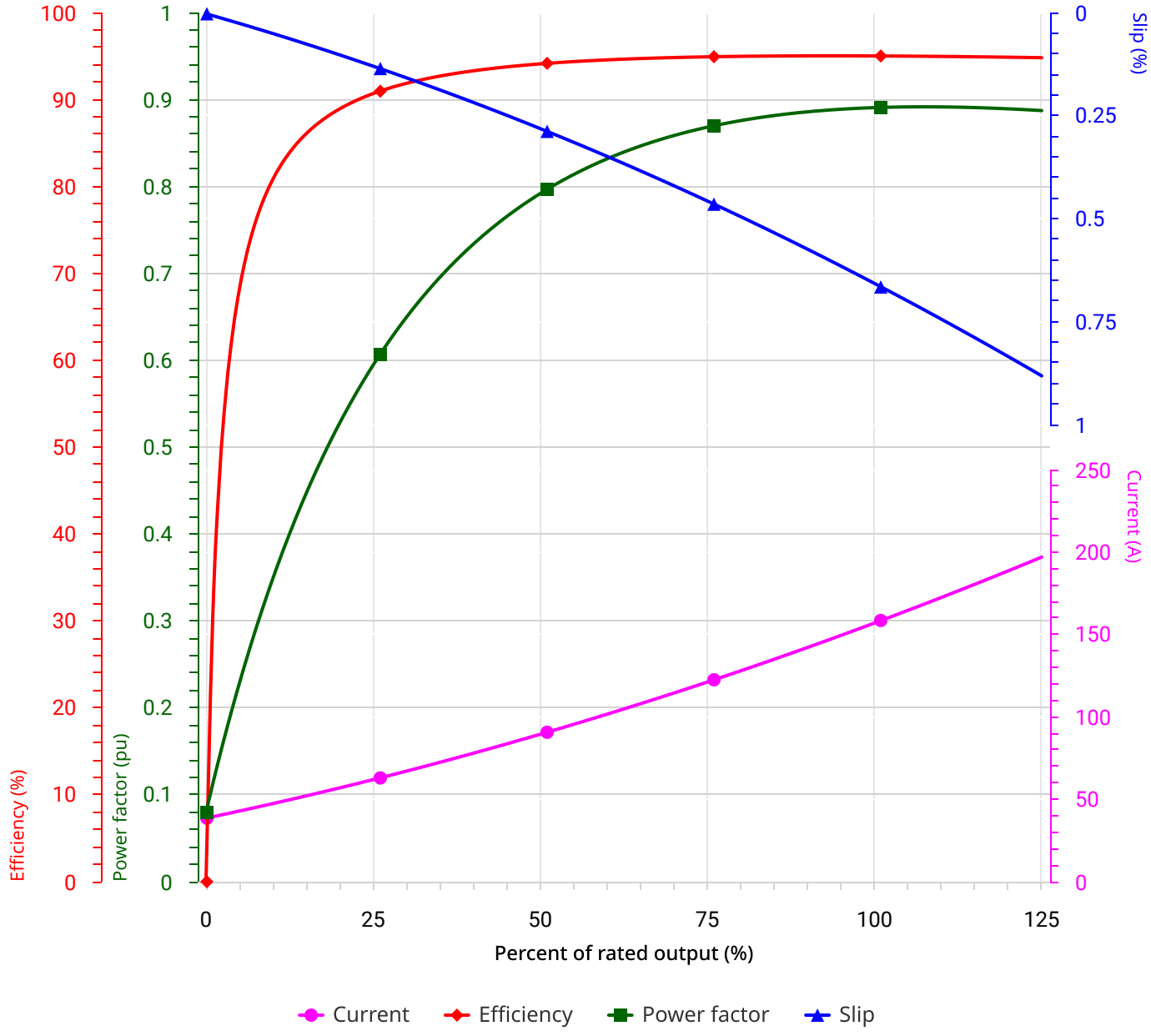
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 125 HP (90 kW) 400V 50Hz 2P 444/5TS

Rated current	: 154 A	Moment of inertia (J)	: 1.65 kgm²
LRC	: 7.7 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 30.4 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2980 rpm	Design	: B

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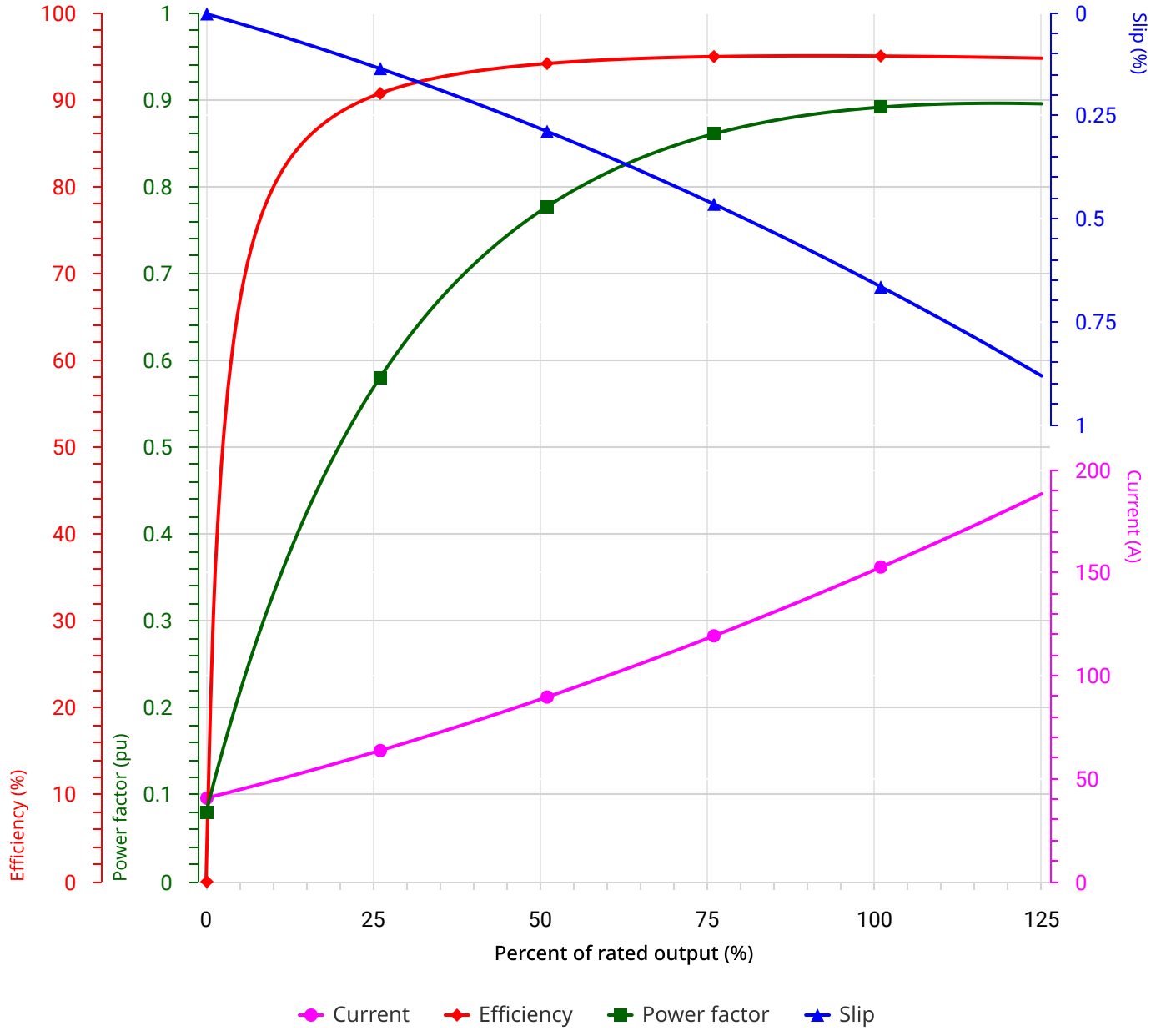
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Customer	:
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Performance	: 125 HP (90 kW) 415V 50Hz 2P 444/5TS		
Rated current	: 148 A	Moment of inertia (J)	: 1.65 kgm²
LRC	: 8.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 30.4 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2980 rpm	Design	: B

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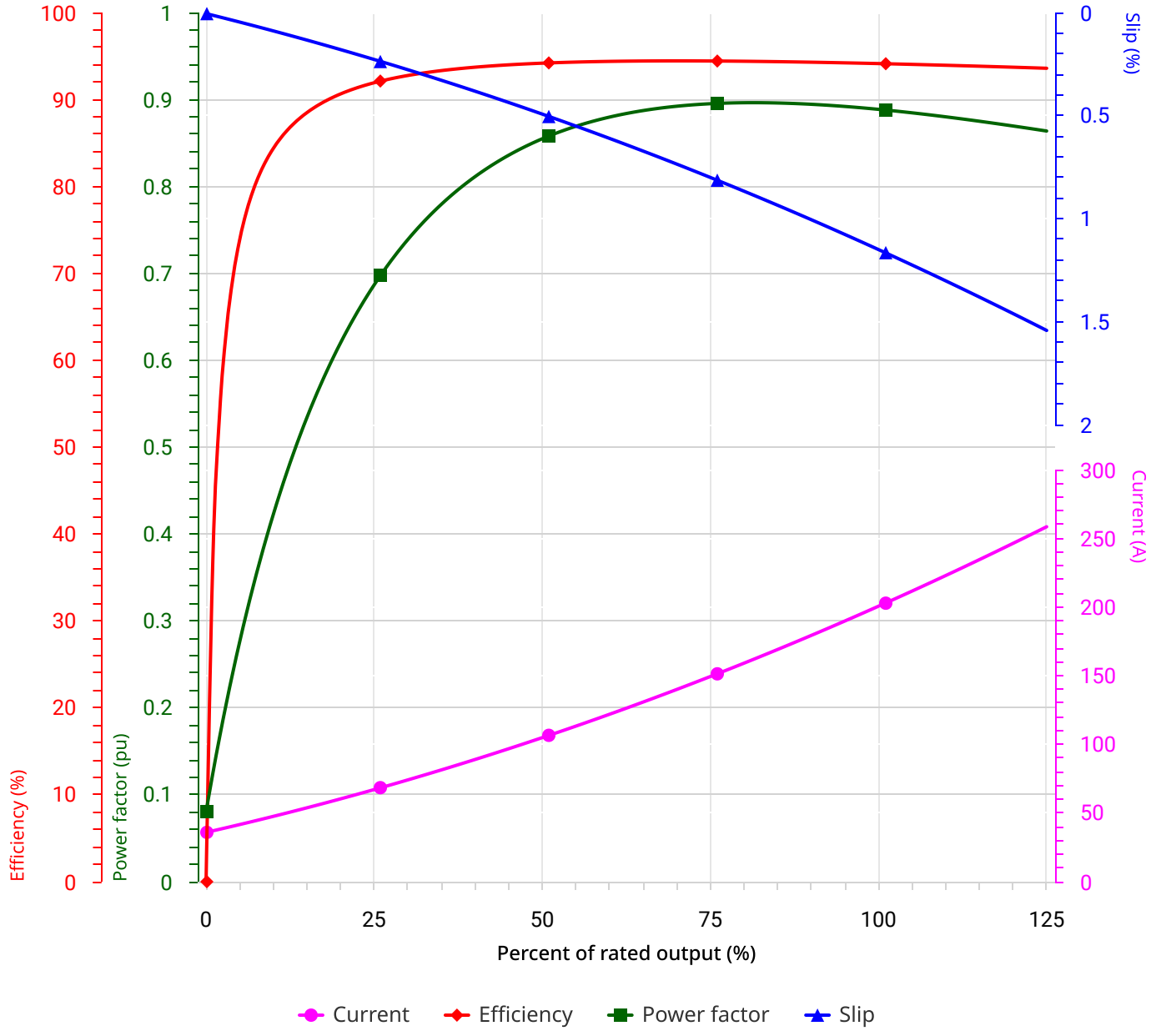
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Performance	: 150 HP (110 kW) 380V 50Hz 2P 444/5TS

Rated current	: 200 A	Moment of inertia (J)	: 1.65 kgm²
LRC	: 5.5 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 36.7 kgfm	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 95 K
Rated speed	: 2965 rpm	Design	: B

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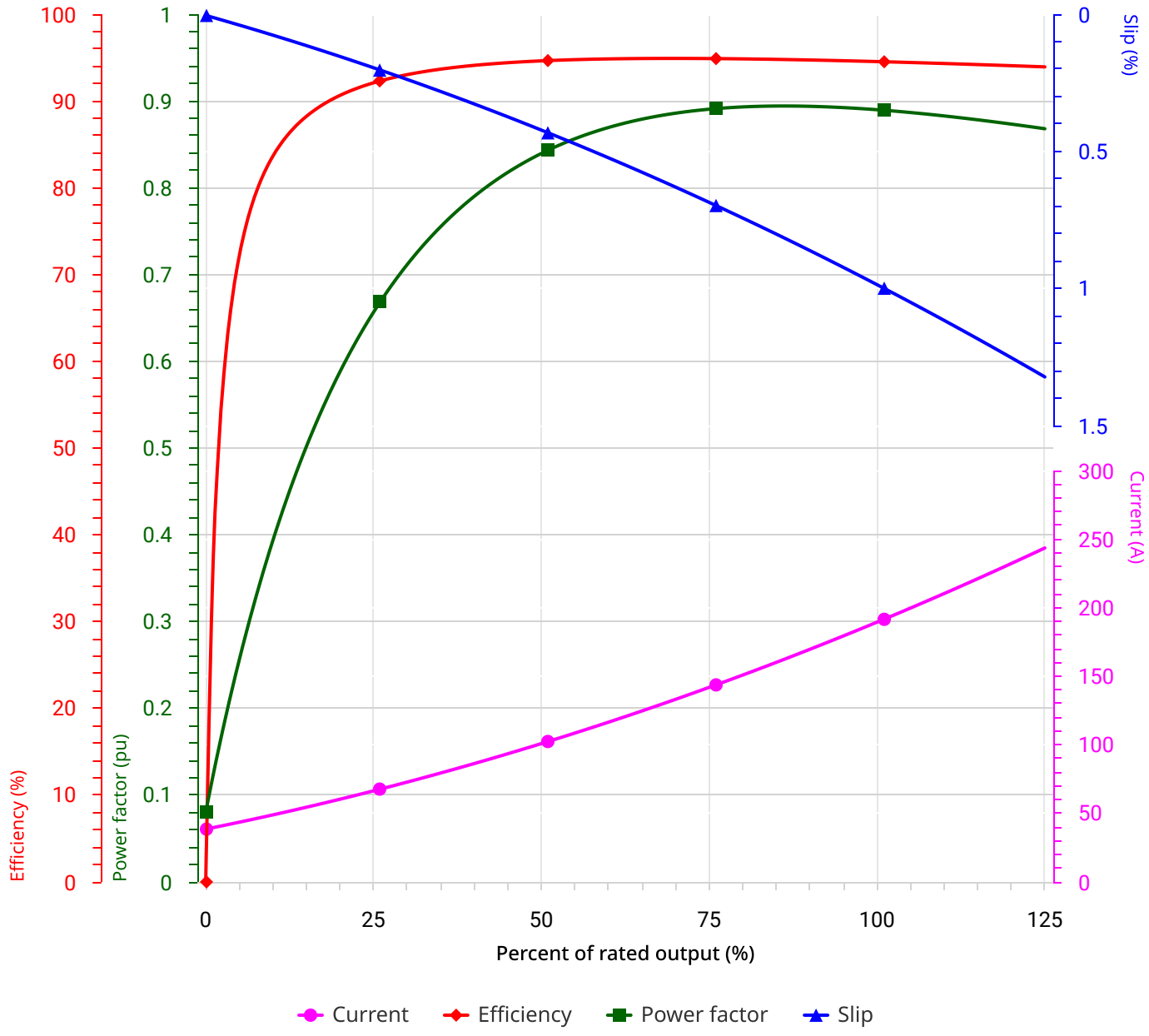
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Performance	: 150 HP (110 kW) 400V 50Hz 2P 444/5TS

Rated current	: 189 A	Moment of inertia (J)	: 1.65 kgm²
LRC	: 6.0 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 36.7 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 95 K
Rated speed	: 2970 rpm	Design	: B

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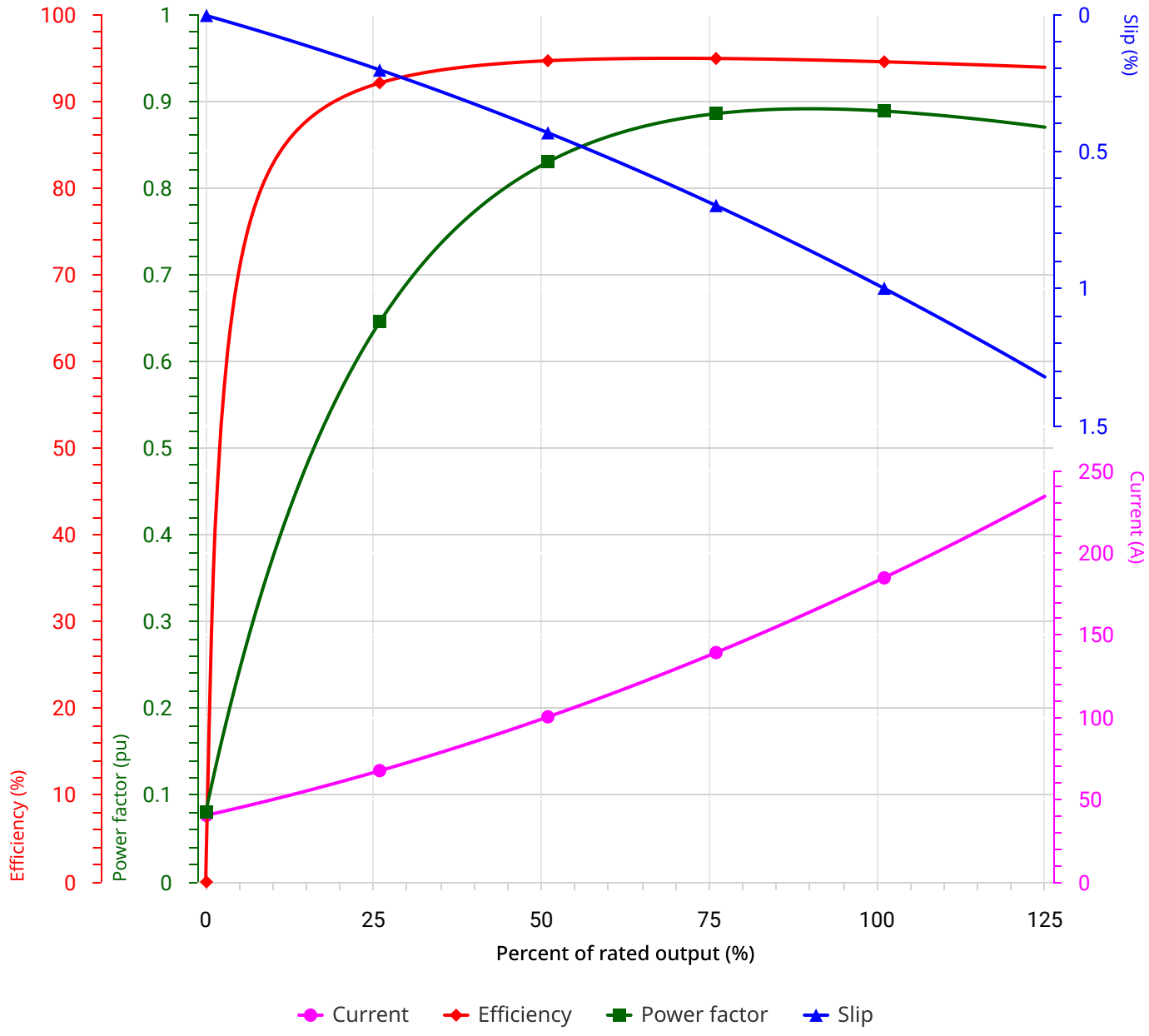
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Performance	: 150 HP (110 kW) 415V 50Hz 2P 444/5TS

Rated current	: 182 A	Moment of inertia (J)	: 1.65 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 36.7 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: B

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