DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12447102

Frame	: 284/6TS	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	: 164 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1135 kgm²
Design	: B		

Output		25 HP (18.5	25 HP (18.5	20 HP (15	20 HP (15	20 HP (15	25 HP (18.5	25 HP (18.5	25 HP (18.5
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		58.2/29.1 A	63.0 A	28.2 A	27.1 A	26.4 A	35.7 A	33.6 A	32.5 A
L. R. Amperes		367/183 A	397 A	175 A	187 A	198 A	175 A	185 A	202 A
LRC		6.3 Code G	6.3 Code G	6.2 Code G	6.9 Code H	7.5 Code J	4.9 Code E	5.5 Code F	6.2 Code G
No load current		17.2/8.60 A	14.8 A	8.10 A	9.00 A	9.50 A	8.10 A	9.00 A	9.50 A
Rated speed		3550 rpm	3550 rpm	2945 rpm	2955 rpm	2960 rpm	2925 rpm	2930 rpm	2940 rpm
Slip		1.39 %	1.39 %	1.83 %	1.50 %	1.33 %	2.50 %	2.33 %	2.00 %
Rated torque		5.11 kgfm	5.00 kgfm	4.93 kgfm	4.91 kgfm	4.90 kgfm	6.20 kgfm	6.19 kgfm	6.17 kgfm
Locked rotor torque		200 %	200 %	200 %	230 %	240 %	160 %	180 %	190 %
Breakdown torque		230 %	225 %	220 %	240 %	260 %	170 %	190 %	210 %
Service factor		1.25	1.25	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	105 K	105 K
Noise level		72 dB(A)	72.0 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)
Locked rotor time		17 s (hot) 31 s (cold)	17 s (hot) 31 s (cold)	14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)
Efficiency (%)	50%	91.0	91.0	90.2	90.3	89.8	91.0	91.0	91.0
	75%	91.7	91.7	90.7	91.1	91.1	90.2	91.0	91.0
	100%	91.7	91.7	91.9	91.9	91.9	89.5	90.2	91.0
Power Factor	Start	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	50%	0.77	0.77	0.79	0.76	0.73	0.82	0.80	0.78
	75%	0.84	0.84	0.85	0.84	0.82	0.87	0.86	0.85
	100%	0.87	0.87	0.88	0.87	0.86	0.88	0.88	0.87
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		8.62	8.62	8.40	8.40	8.40	11.18	10.35	9.42
P2 (0,5;1,0)		6.76	6.76	6.58	6.58	6.58	8.76	8.11	7.39
P3 (0,25;1,0)		5.93	5.93	5.77	5.77	5.77	7.69	7.12	6.48
P4 (0,9;0,5)		4.43	4.43	4.32	4.32	4.32	5.75	5.32	4.85
P5 (0,5;0,5)		2.61	2.61	2.54	2.54	2.54	3.38	3.13	2.85
P6 (0,5;0,25)		1.67	1.67	1.63	1.63	1.63	2.17	2.01	1.83
P7 (0,25;0,25)		1.02	1.02	0.99	0.99	0.99	1.32	1.22	1.11

	Drive end	Non drive end
Bearing type	6311-C3	6211-C3
Lubrication interval	14000 h	17000 h
Lubricant amount	18 g	11 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 101 kgf
Max. compression : 265 kgf

Notes:

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				2026/11/14

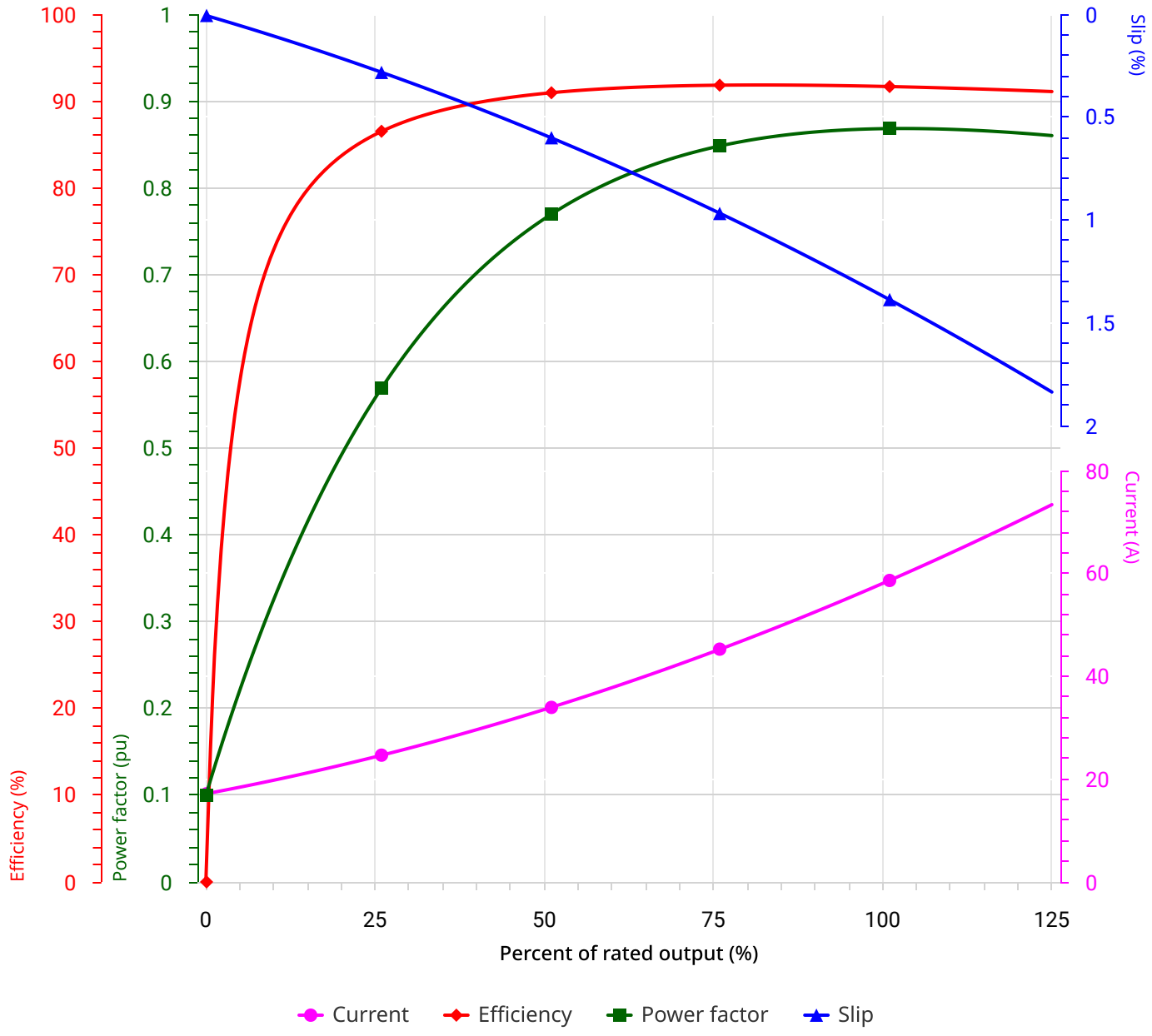
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12447102



Performance	: 25 HP (18.5 kW) 230/460V 60Hz 2P 284/6TS

Rated current	: 58.2/29.1 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 5.11 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: B

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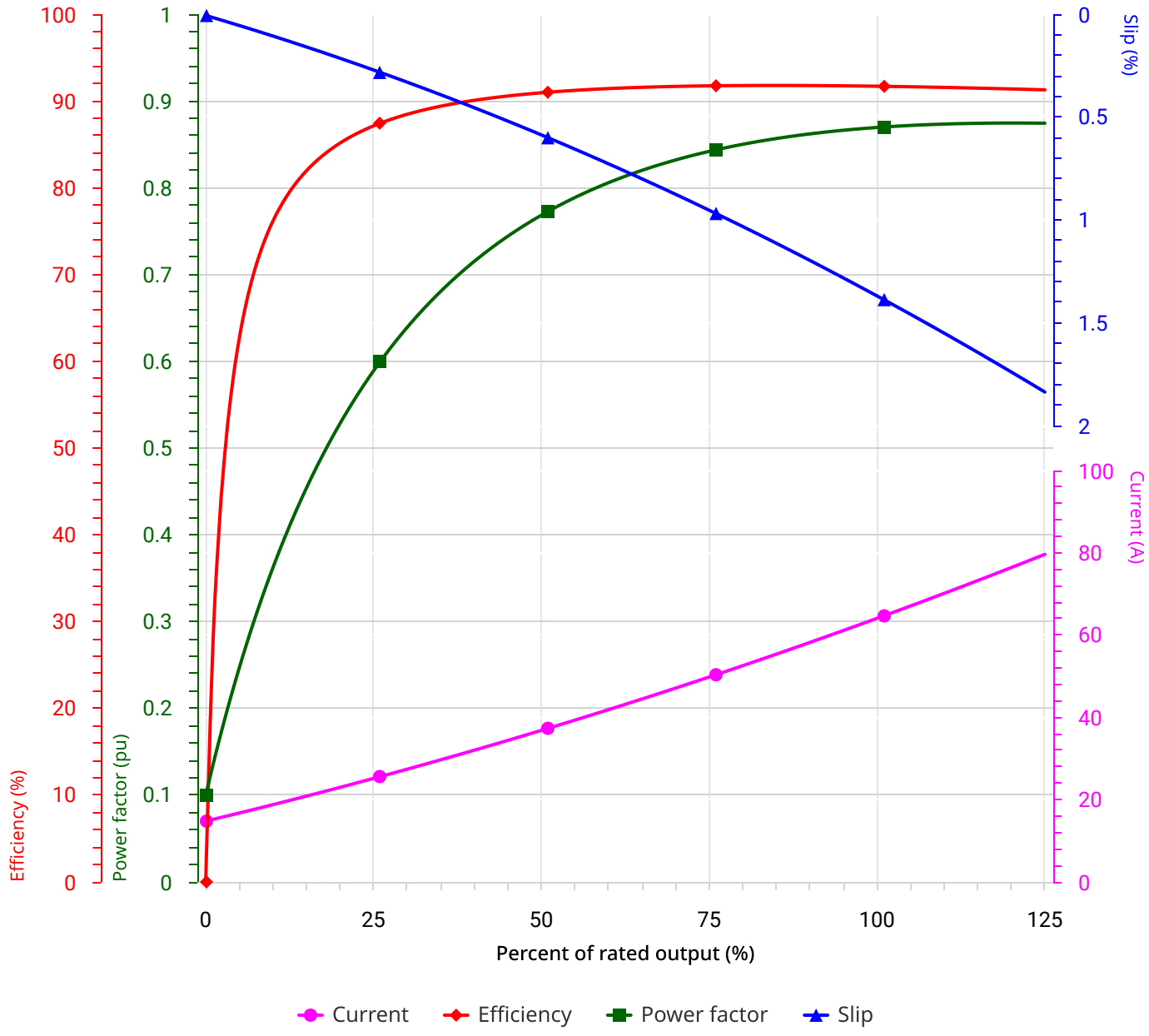
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 12447102



Performance	: 25 HP (18.5 kW) 208V 60Hz 2P 284/6TS

Rated current	: 63.0 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 5.00 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 225 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: 00002

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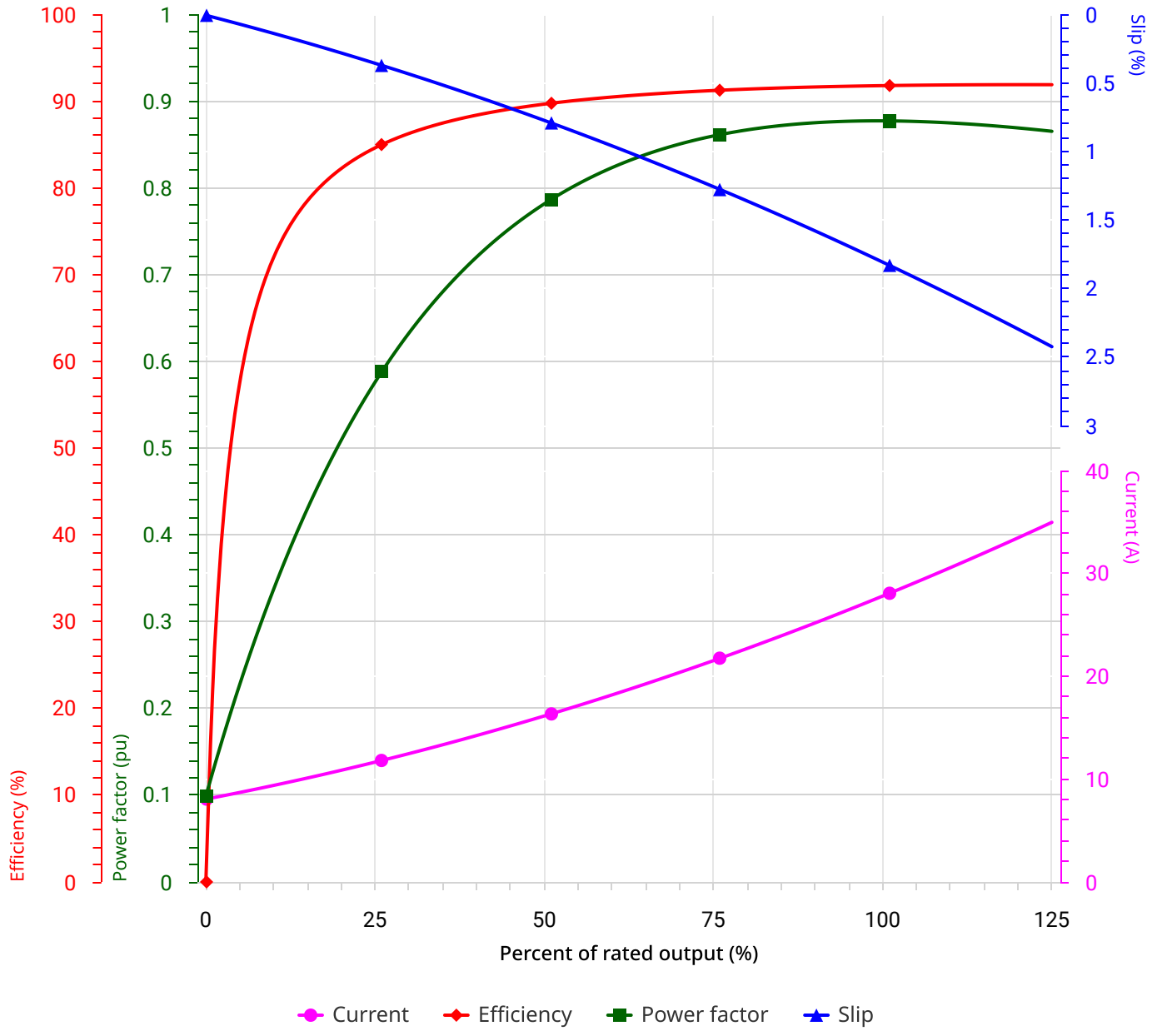
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 12447102



Performance	: 20 HP (15 kW) 380V 50Hz 2P 284/6TS

Rated current	: 28.2 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 6.2 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 4.93 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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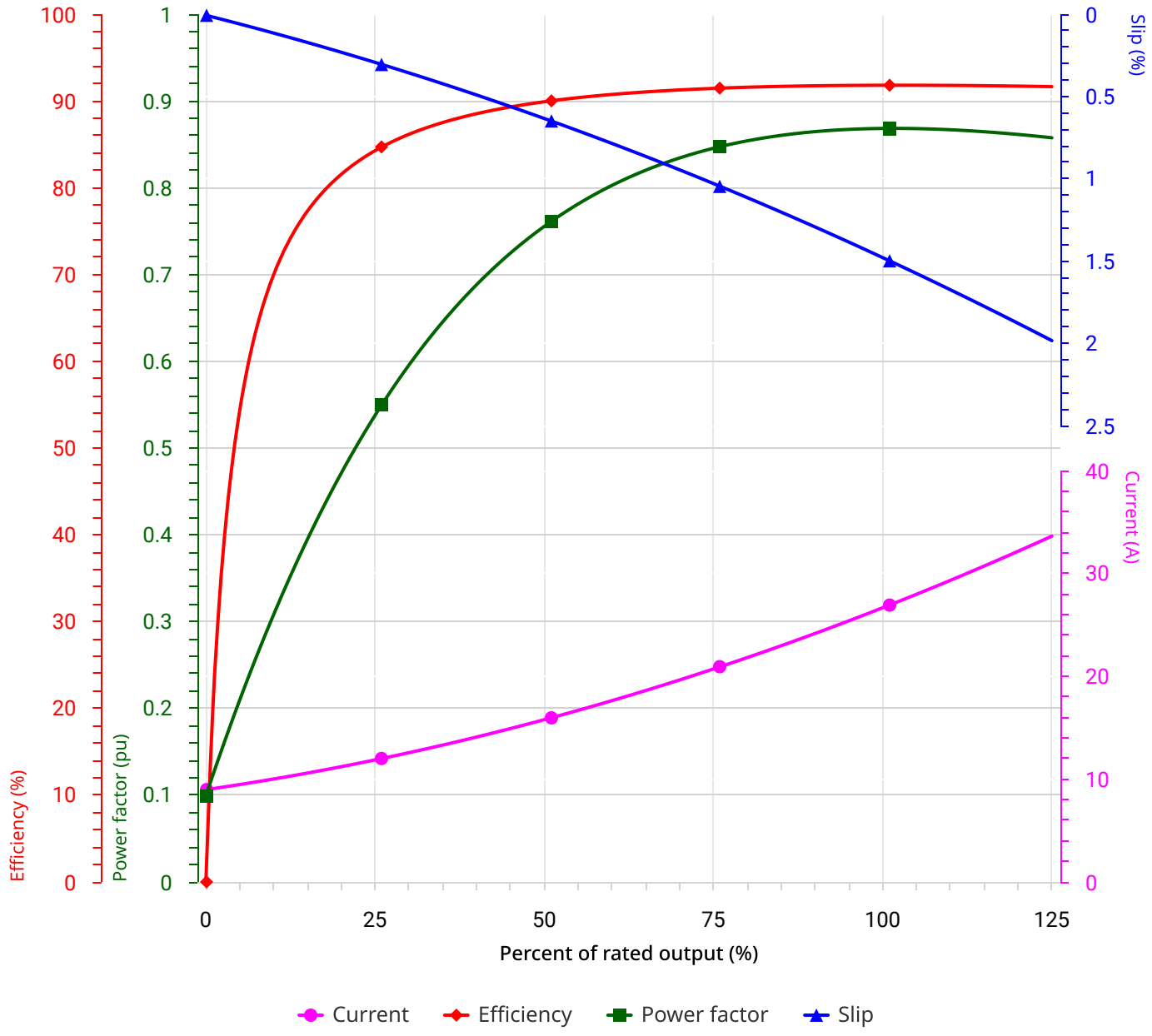
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 20 HP (15 kW) 400V 50Hz 2P 284/6TS

Rated current	: 27.1 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 6.9 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 4.91 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

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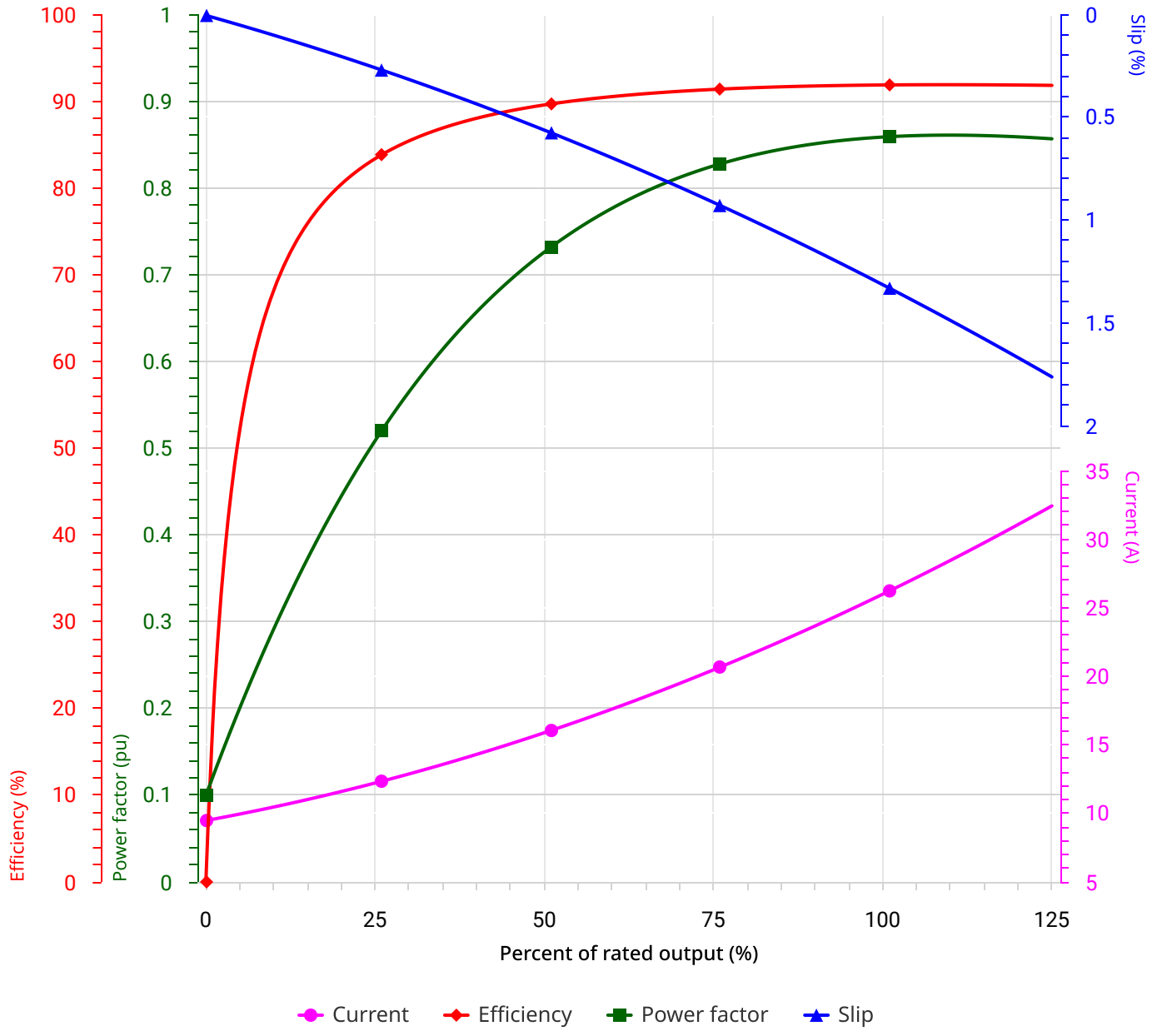
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 12447102



Performance	: 20 HP (15 kW) 415V 50Hz 2P 284/6TS

Rated current	: 26.4 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 4.90 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

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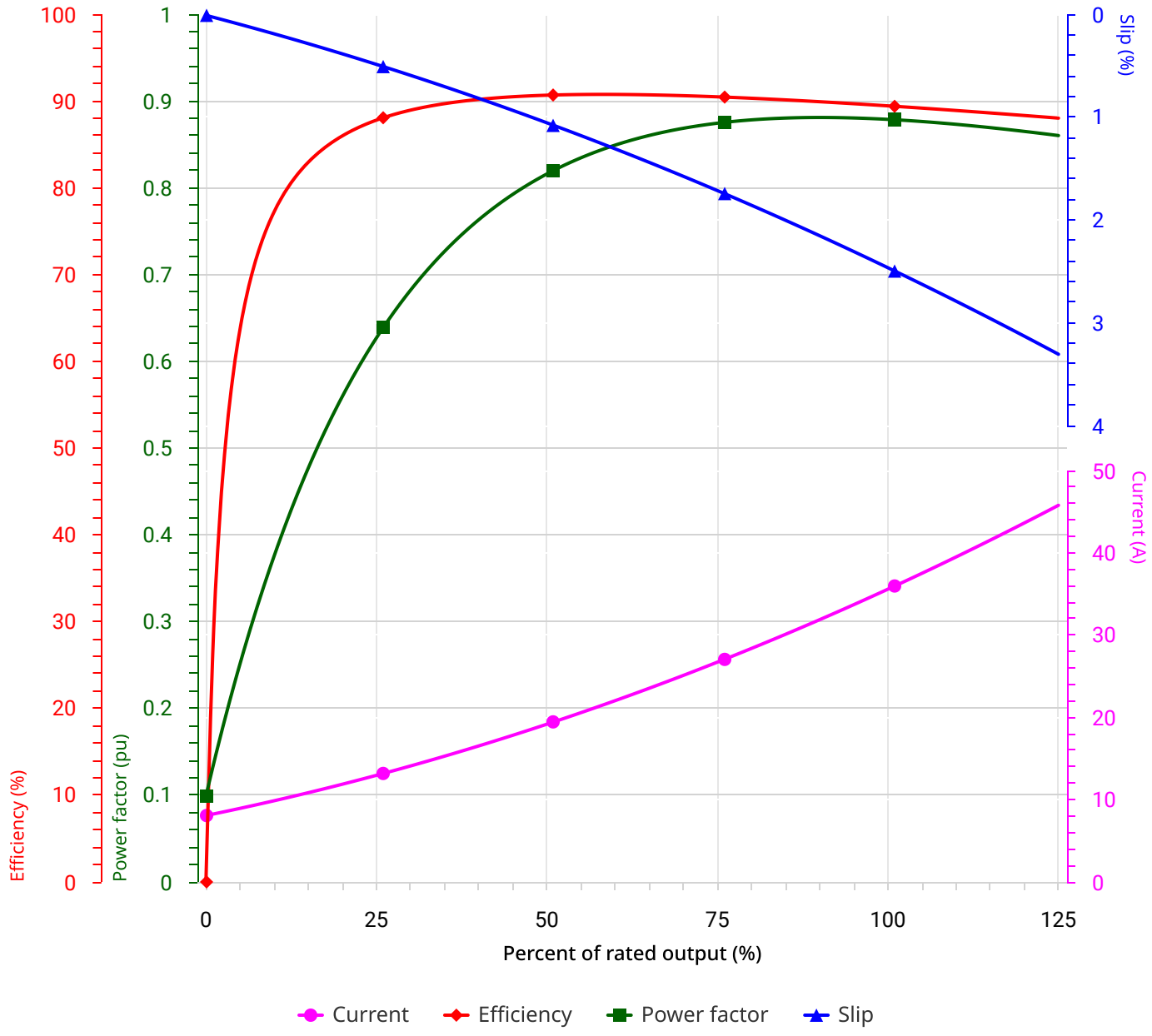
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Performance	: 25 HP (18.5 kW) 380V 50Hz 2P 284/6TS

Rated current	: 35.7 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 4.9 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 6.20 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 170 %	Temperature rise	: 105 K
Rated speed	: 2925 rpm	Design	: B

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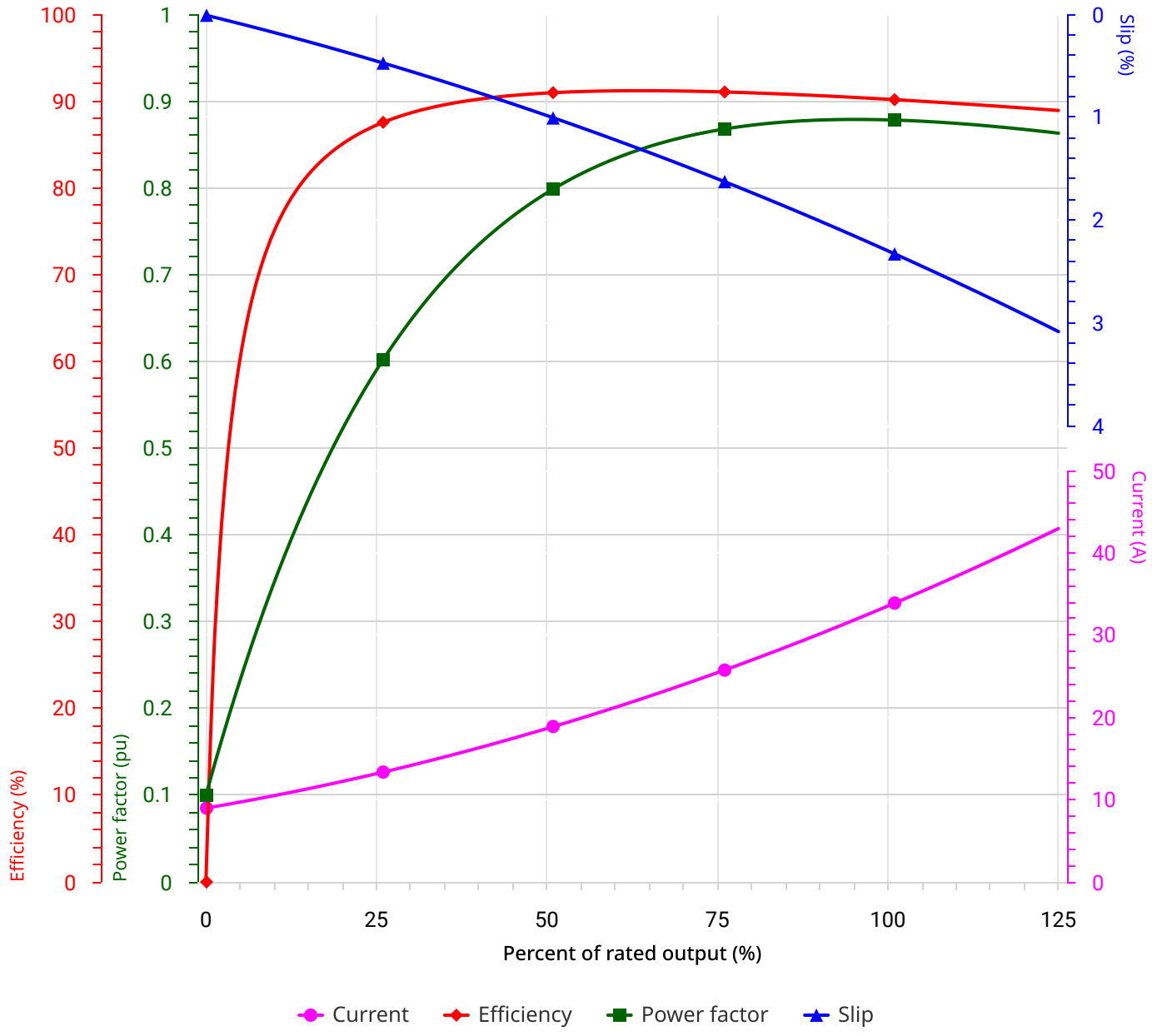
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Product code	: 12447102



Performance	: 25 HP (18.5 kW) 400V 50Hz 2P 284/6TS

Rated current	: 33.6 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 5.5 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 6.19 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 2930 rpm	Design	: B

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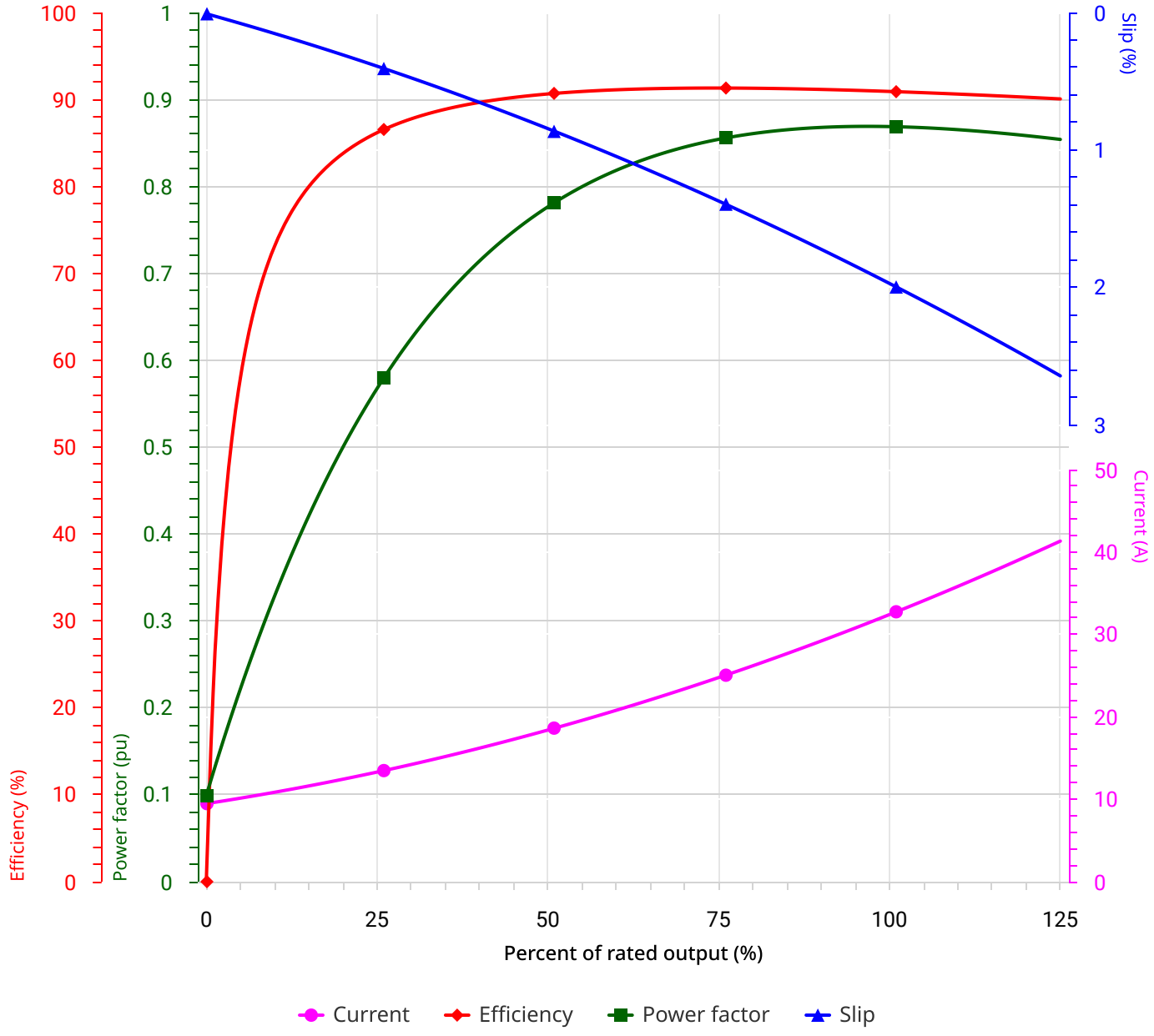
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Product code	: 12447102



Performance	: 25 HP (18.5 kW) 415V 50Hz 2P 284/6TS

Rated current	: 32.5 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 6.2 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.17 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 2940 rpm	Design	: B

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