DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11165995

Frame	: 364/5TS	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	: 374 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.4485 kgm²
Design	: B		

Output		60 HP (45	60 HP (45	50 HP (37	50 HP (37	50 HP (37	60 HP (45	60 HP (45	60 HP (45
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		136/67.8 A	148 A	67.4 A	64.8 A	62.4 A	83.1 A	78.5 A	75.6 A
L. R. Amperes			978 A	431 A	466 A	462 A	432 A	455 A	477 A
LRC		895/447 A	6.6 Code G	6.4 Code G	7.2 Code H	7.4 Code H	5.2 Code E	5.8 Code F	6.3 Code G
No load current		6.6 Code G	29.3 A	16.6 A	17.8 A	18.6 A	16.6 A	17.8 A	18.6 A
Rated speed			3555 rpm	2955 rpm	2960 rpm	2965 rpm	2935 rpm	2945 rpm	2950 rpm
Slip		34.0/17.0 A	1.25 %	1.50 %	1.33 %	1.17 %	2.17 %	1.83 %	1.67 %
Rated torque			12.0 kgfm	12.3 kgfm	12.3 kgfm	12.2 kgfm	14.8 kgfm	14.8 kgfm	14.8 kgfm
Locked rotor torque		3555 rpm	200 %	190 %	220 %	230 %	160 %	180 %	190 %
Breakdown torque		1.25 %	260 %	250 %	280 %	300 %	200 %	230 %	250 %
Service factor		12.2 kgfm	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		200 %	80 K	80 K	80 K	80 K	105 K	105 K	95 K
Noise level		260 %	79.0 dB(A)	74 dB(A)	74 dB(A)	74 dB(A)	74 dB(A)	74 dB(A)	74 dB(A)
Locked rotor time		1.25	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)
		80 K							
		79 dB(A)							
		12 s (hot) 22 s (cold)							
Efficiency (%)	50%	92.7	92.7	92.1	91.7	91.6	92.4	92.4	92.4
	75%	93.6	93.6	92.8	92.8	92.9	93.0	93.0	93.0
	100%	93.6	93.6	93.7	93.7	93.7	92.4	93.0	93.0
Power Factor	Start	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
	50%	0.81	0.81	0.81	0.79	0.76	0.85	0.83	0.81
	75%	0.87	0.87	0.88	0.86	0.85	0.88	0.88	0.88
	100%	0.89	0.89	0.89	0.88	0.88	0.89	0.89	0.89
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		6.33	6.33	6.22	6.22	6.22	7.61	6.97	6.97
P2 (0,5;1,0)		4.70	4.70	4.63	4.63	4.63	5.66	5.18	5.18
P3 (0,25;1,0)		4.41	4.41	4.33	4.33	4.33	5.30	4.85	4.85
P4 (0,9;0,5)		3.31	3.31	3.25	3.25	3.25	3.98	3.64	3.64
P5 (0,5;0,5)		1.79	1.79	1.76	1.76	1.76	2.15	1.97	1.97
P6 (0,5;0,25)		1.11	1.11	1.09	1.09	1.09	1.34	1.22	1.22
P7 (0,25;0,25)		0.61	0.61	0.60	0.60	0.60	0.74	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 : 223 kgf
Max. compression : 597 kgf

Notes:

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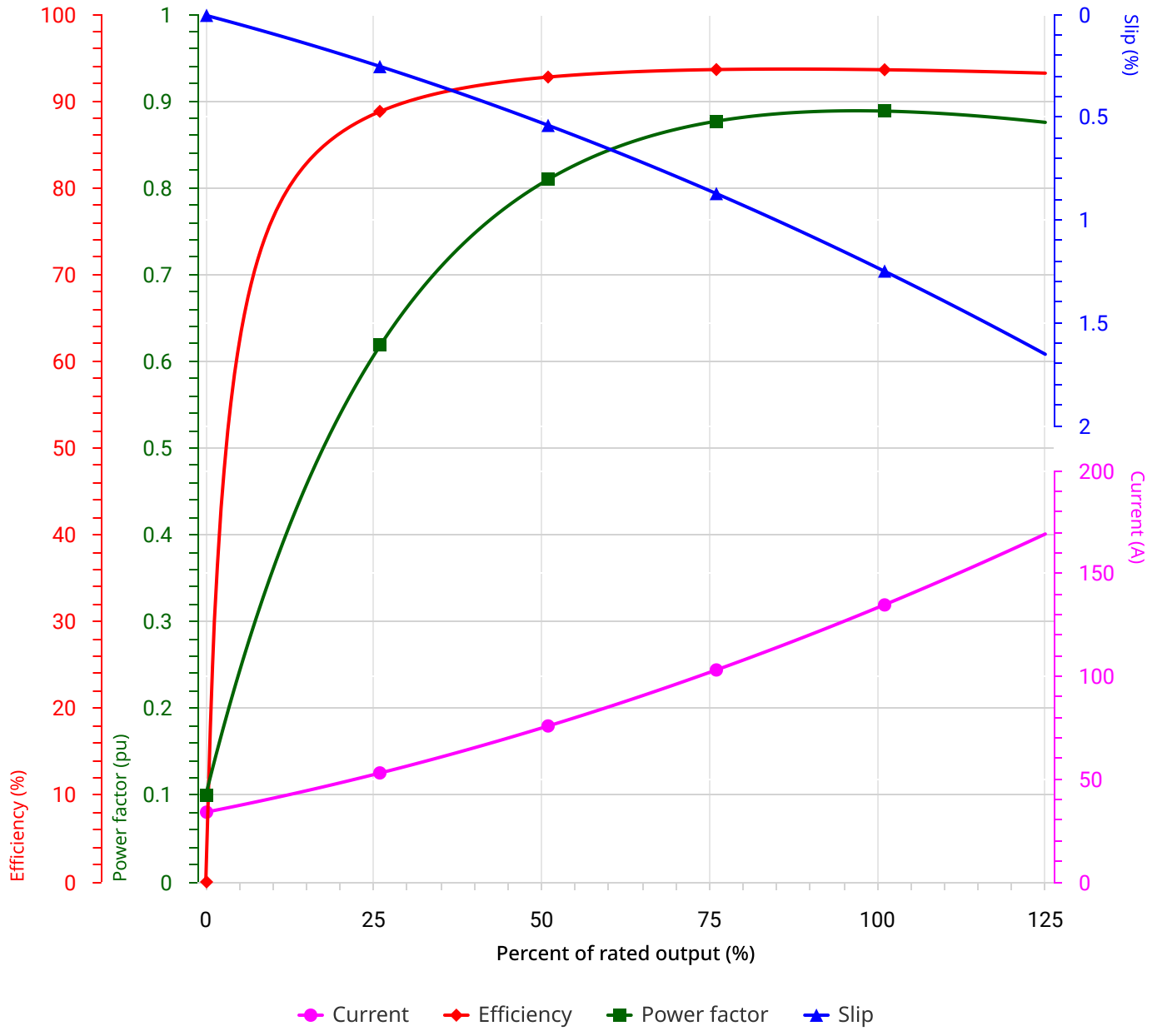
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11165995



Performance	: 60 HP (45 kW) 230/460V 60Hz 2P 364/5TS

Rated current	: 136/67.8 A	Moment of inertia (J)	: 0.4485 kgm²
LRC	: 6.6 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 12.2 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3555 rpm	Design	: B

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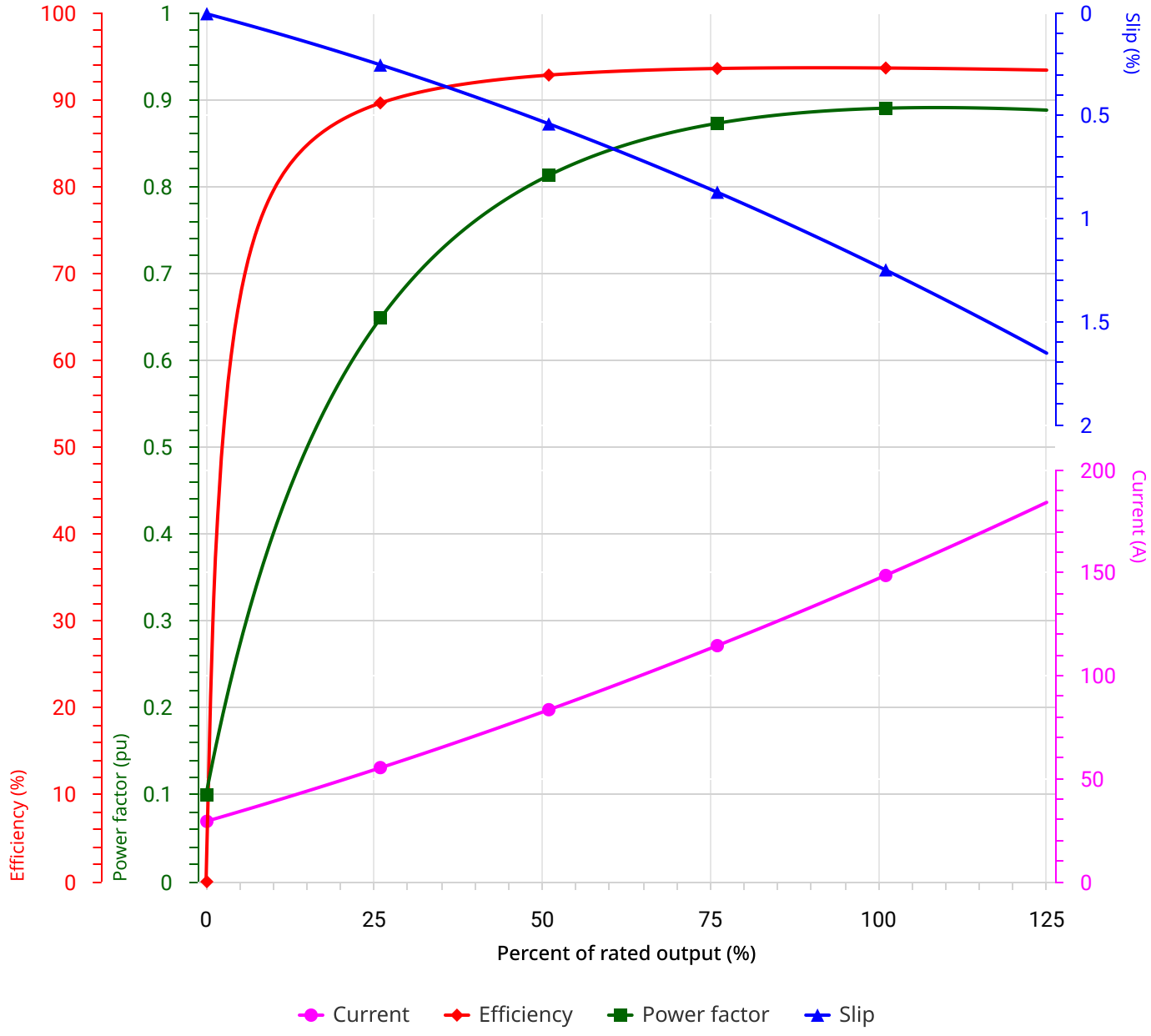
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11165995



Performance	: 60 HP (45 kW) 208V 60Hz 2P 364/5TS

Rated current	: 148 A	Moment of inertia (J)	: 0.4485 kgm²
LRC	: 6.6 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 12.0 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3555 rpm	Design	: 00002

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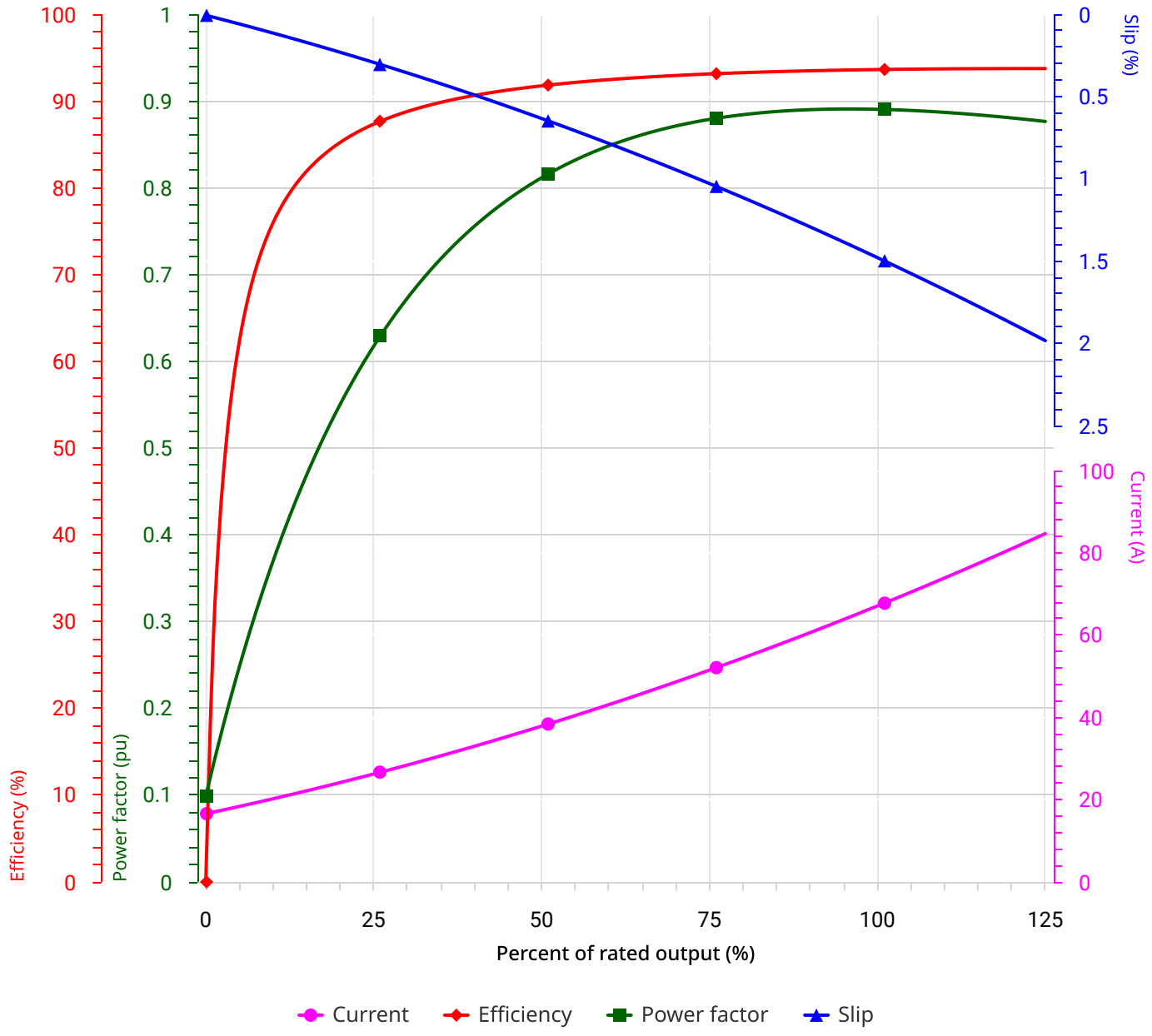
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11165995



Performance	: 50 HP (37 kW) 380V 50Hz 2P 364/5TS

Rated current	: 67.4 A	Moment of inertia (J)	: 0.4485 kgm²
LRC	: 6.4 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

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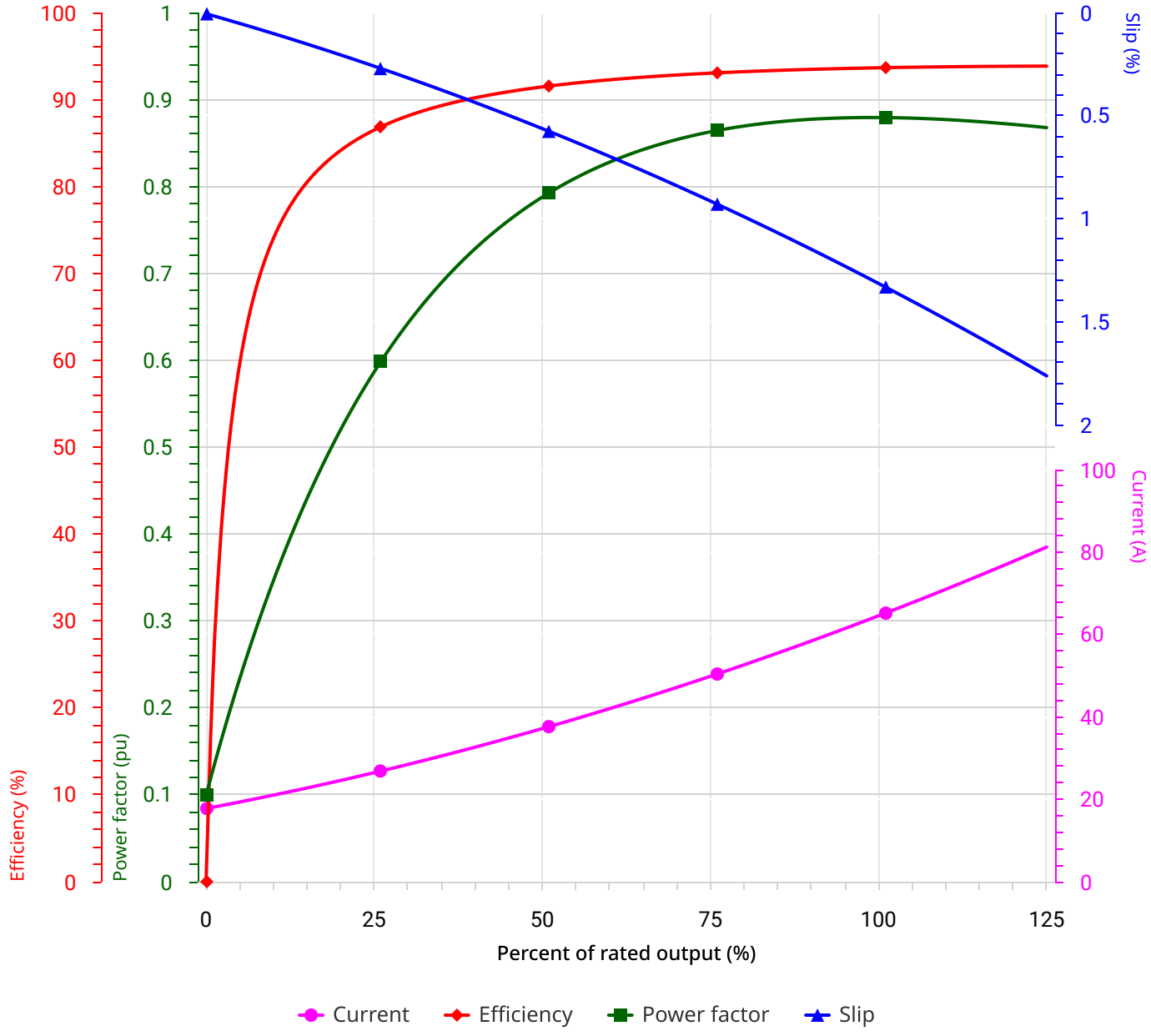
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 50 HP (37 kW) 400V 50Hz 2P 364/5TS

Rated current	: 64.8 A	Moment of inertia (J)	: 0.4485 kgm²
LRC	: 7.2 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

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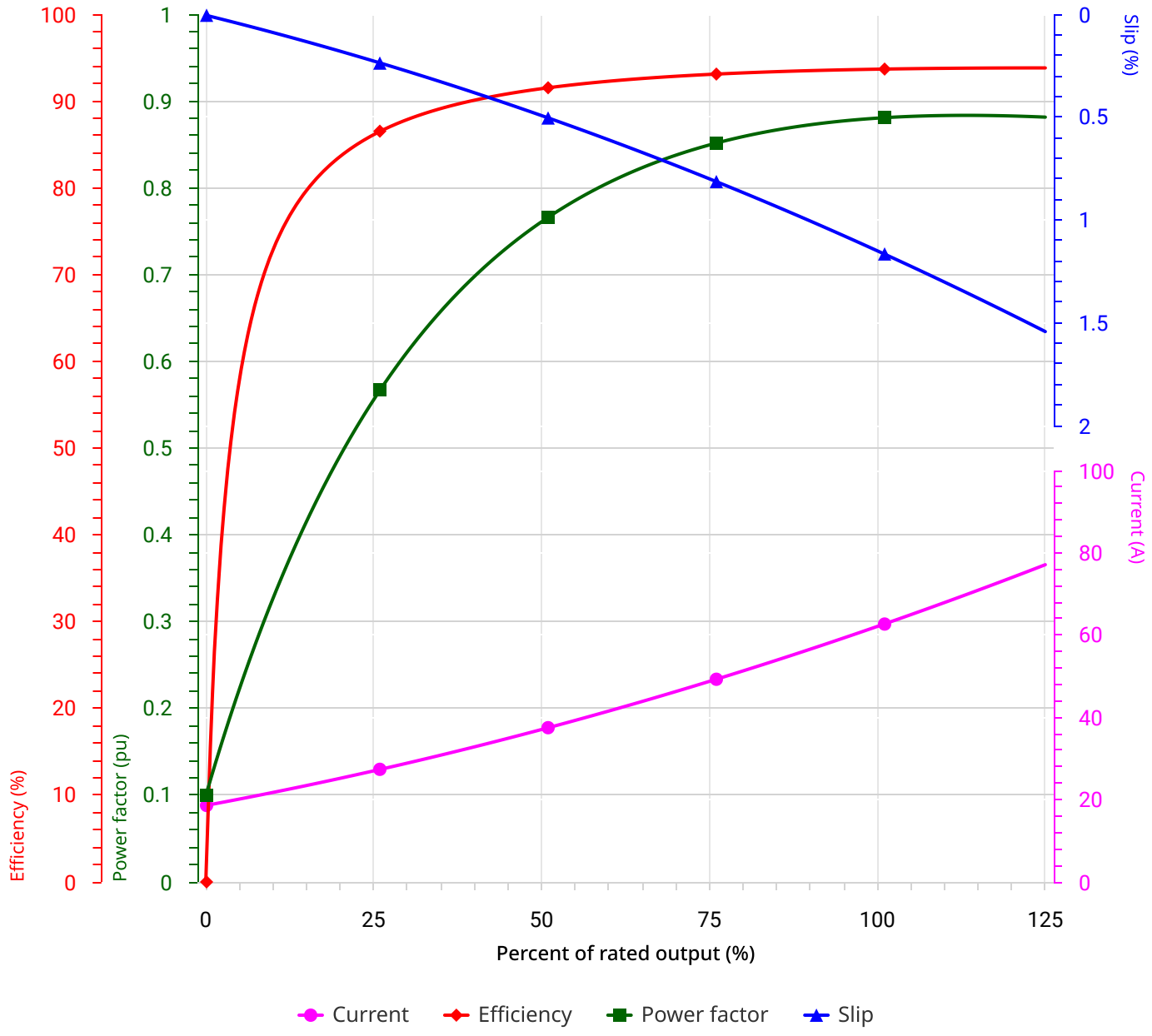
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 11165995



Performance	: 50 HP (37 kW) 415V 50Hz 2P 364/5TS

Rated current	: 62.4 A	Moment of inertia (J)	: 0.4485 kgm²
LRC	: 7.4 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 12.2 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

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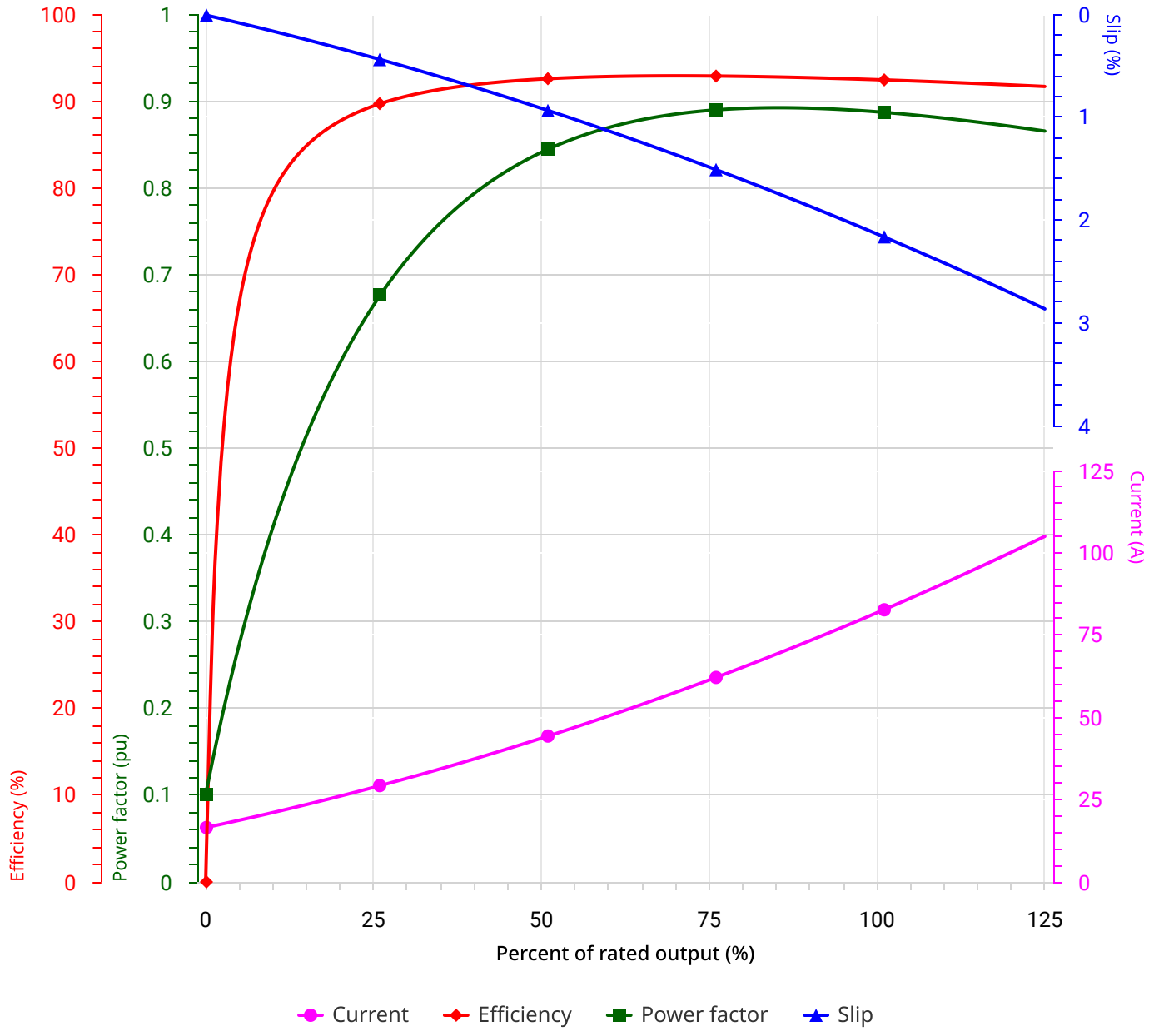
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Performance	: 60 HP (45 kW) 380V 50Hz 2P 364/5TS

Rated current	: 83.1 A	Moment of inertia (J)	: 0.4485 kgm²
LRC	: 5.2 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 14.8 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2935 rpm	Design	: B

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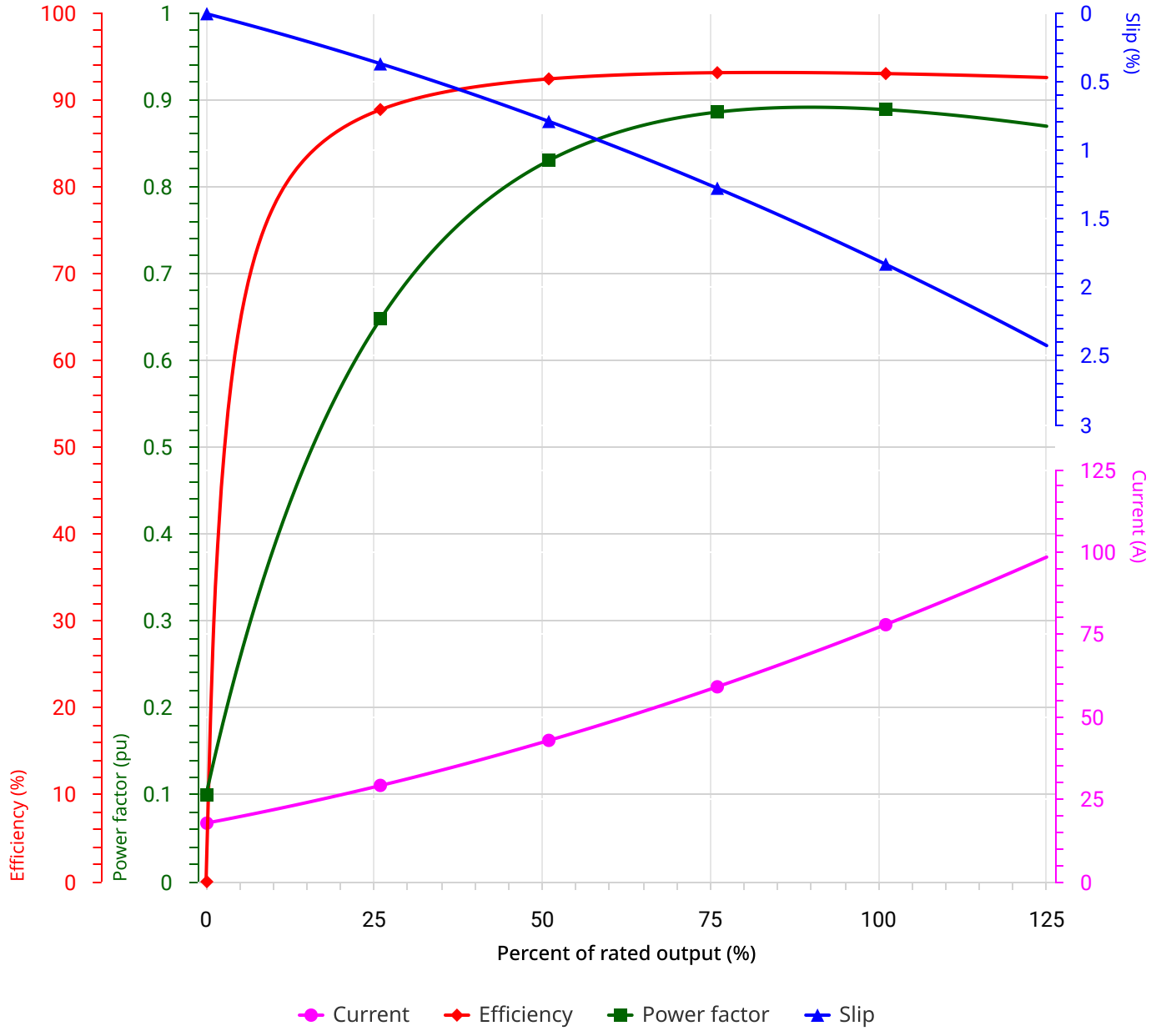
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Performance	: 60 HP (45 kW) 400V 50Hz 2P 364/5TS

Rated current	: 78.5 A	Moment of inertia (J)	: 0.4485 kgm²
LRC	: 5.8 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 14.8 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 230 %	Temperature rise	: 105 K
Rated speed	: 2945 rpm	Design	: B

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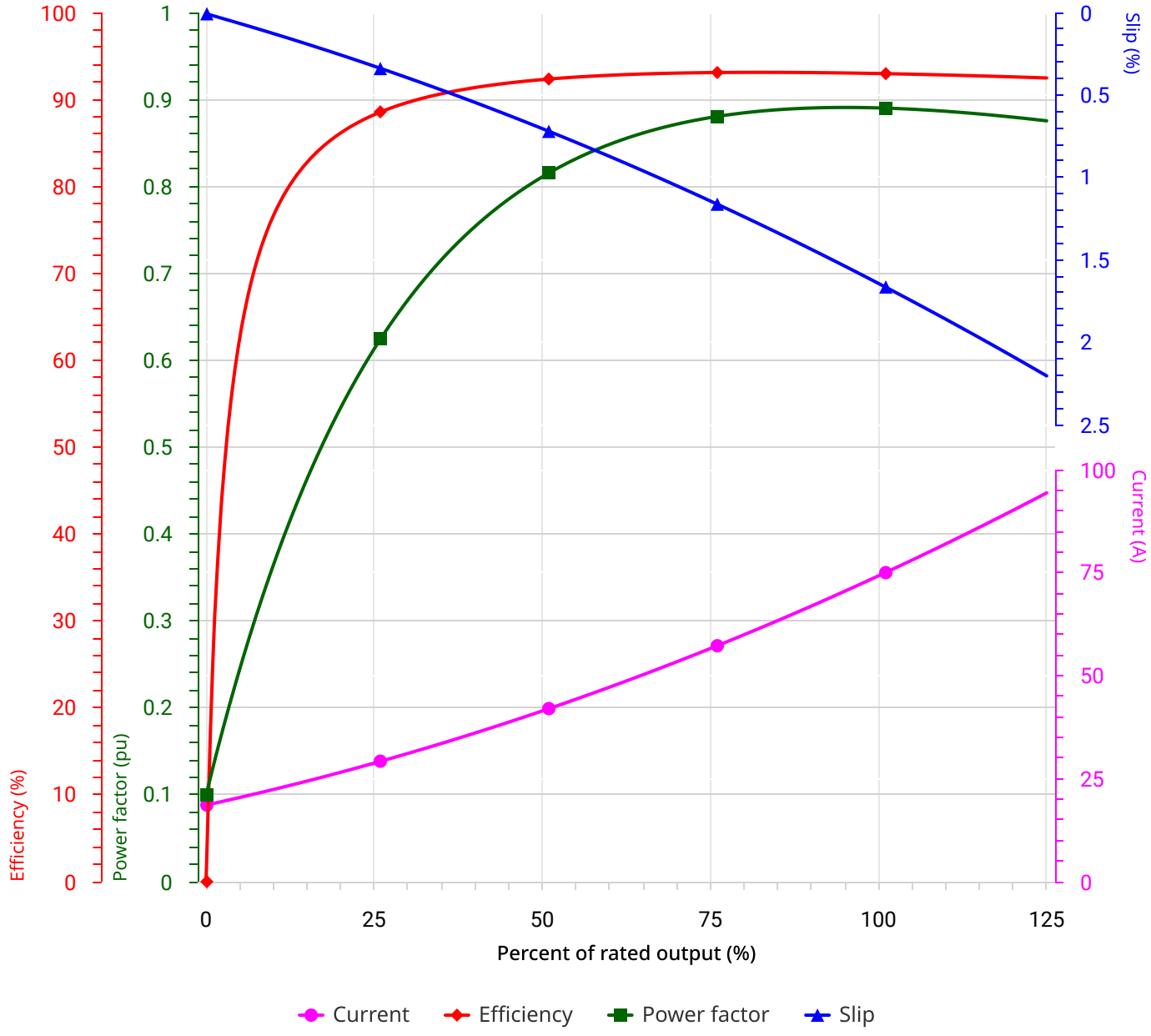
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Product code	: 11165995



Performance	: 60 HP (45 kW) 415V 50Hz 2P 364/5TS

Rated current	: 75.6 A	Moment of inertia (J)	: 0.4485 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 14.8 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 95 K
Rated speed	: 2950 rpm	Design	: B

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