DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11611958

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	: 741 kg
Protection degree	: IP55	Moment of inertia (J)	: 1.41 kgm²
Design	: B		

Output		125 HP (90	125 HP (90	125 HP (90	125 HP (90	100 HP (75	100 HP (75	100 HP (75
Poles		2	2	2	2	2	2	2
Frequency		60 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	380 V	400 V	415 V	380 V	400 V	415 V
Rated current		273/137 A	164 A	156 A	151 A	138 A	133 A	129 A
L. R. Amperes		1913/957 A	987 A	1015 A	1030 A	899 A	1063 A	1101 A
LRC		7.0 Code G	6.0 Code F	6.5 Code G	6.8 Code G	6.5 Code G	8.0 Code J	8.5 Code J
No load current		80.0/40.0 A	40.0 A	42.0 A	44.0 A	40.0 A	42.0 A	44.0 A
Rated speed		3573 rpm	2965 rpm	2970 rpm	2970 rpm	2975 rpm	2977 rpm	2978 rpm
Slip		0.75 %	1.17 %	1.00 %	1.00 %	0.83 %	0.77 %	0.73 %
Rated torque		25.4 kgfm	30.6 kgfm	30.5 kgfm	30.5 kgfm	24.4 kgfm	24.4 kgfm	24.4 kgfm
Locked rotor torque		200 %	160 %	170 %	190 %	200 %	210 %	220 %
Breakdown torque		270 %	210 %	230 %	250 %	270 %	300 %	320 %
Service factor		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
Noise level		81 dB(A)	77 dB(A)	77 dB(A)	77 dB(A)	77 dB(A)	77 dB(A)	77 dB(A)
Locked rotor time		29 s (hot) 52 s (cold)	20 s (hot) 36 s (cold)	20 s (hot) 36 s (cold)	20 s (hot) 36 s (cold)	20 s (hot) 36 s (cold)	20 s (hot) 36 s (cold)	20 s (hot) 36 s (cold)
Efficiency (%)	50%	93.6	94.0	94.0	94.0	93.2	93.2	92.8
	75%	94.5	94.5	94.5	94.5	94.3	94.3	94.3
	100%	95.0	94.5	94.5	95.0	94.7	94.7	94.8
Power Factor	Start	0.31	0.31	0.31	0.31	0.31	0.31	0.31
	50%	0.78	0.82	0.80	0.78	0.78	0.75	0.72
	75%	0.85	0.87	0.86	0.85	0.85	0.83	0.81
	100%	0.87	0.88	0.88	0.87	0.87	0.86	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)		4.26	4.62	4.97	4.67	4.90	5.09	5.08
P2 (0,5;1,0)		2.89	3.13	3.37	3.17	3.32	3.45	3.44
P3 (0,25;1,0)		2.43	2.63	2.83	2.66	2.79	2.90	2.89
P4 (0,9;0,5)		2.74	2.97	3.19	3.00	3.15	3.27	3.26
P5 (0,5;0,5)		1.41	1.53	1.64	1.54	1.62	1.68	1.68
P6 (0,5;0,25)		1.06	1.15	1.23	1.16	1.21	1.26	1.26
P7 (0,25;0,25)		0.57	0.62	0.66	0.62	0.66	0.68	0.68

	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 : 303 kgf
Max. compression : 1044 kgf

Notes:

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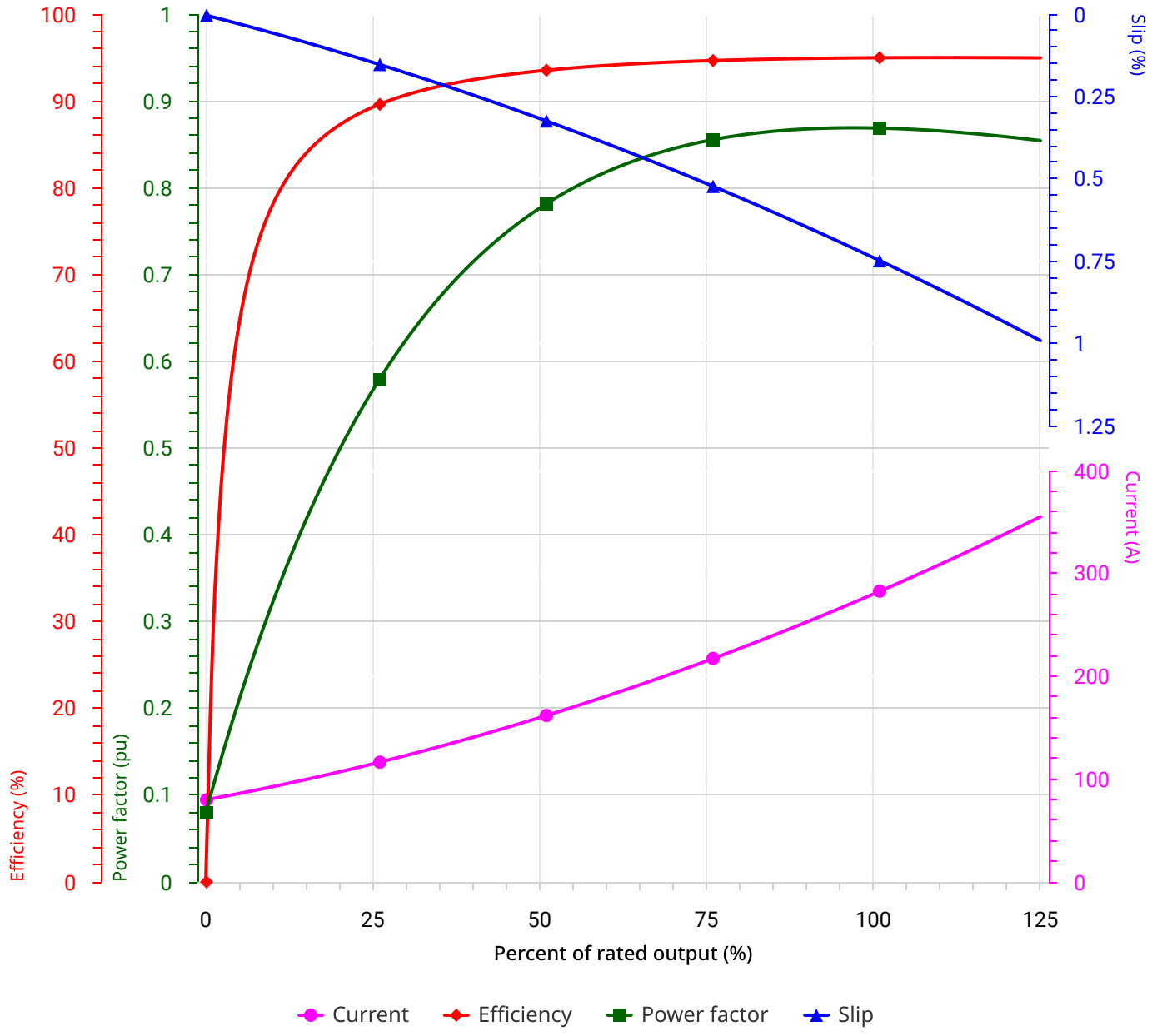
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11611958



Performance	: 125 HP (90 kW) 208/230/460V 60Hz 2P 444/5TS

Rated current	: 296/273/137 A	Moment of inertia (J)	: 1.41 kgm²
LRC	: 7.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 25.4 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 3573 rpm	Design	: B

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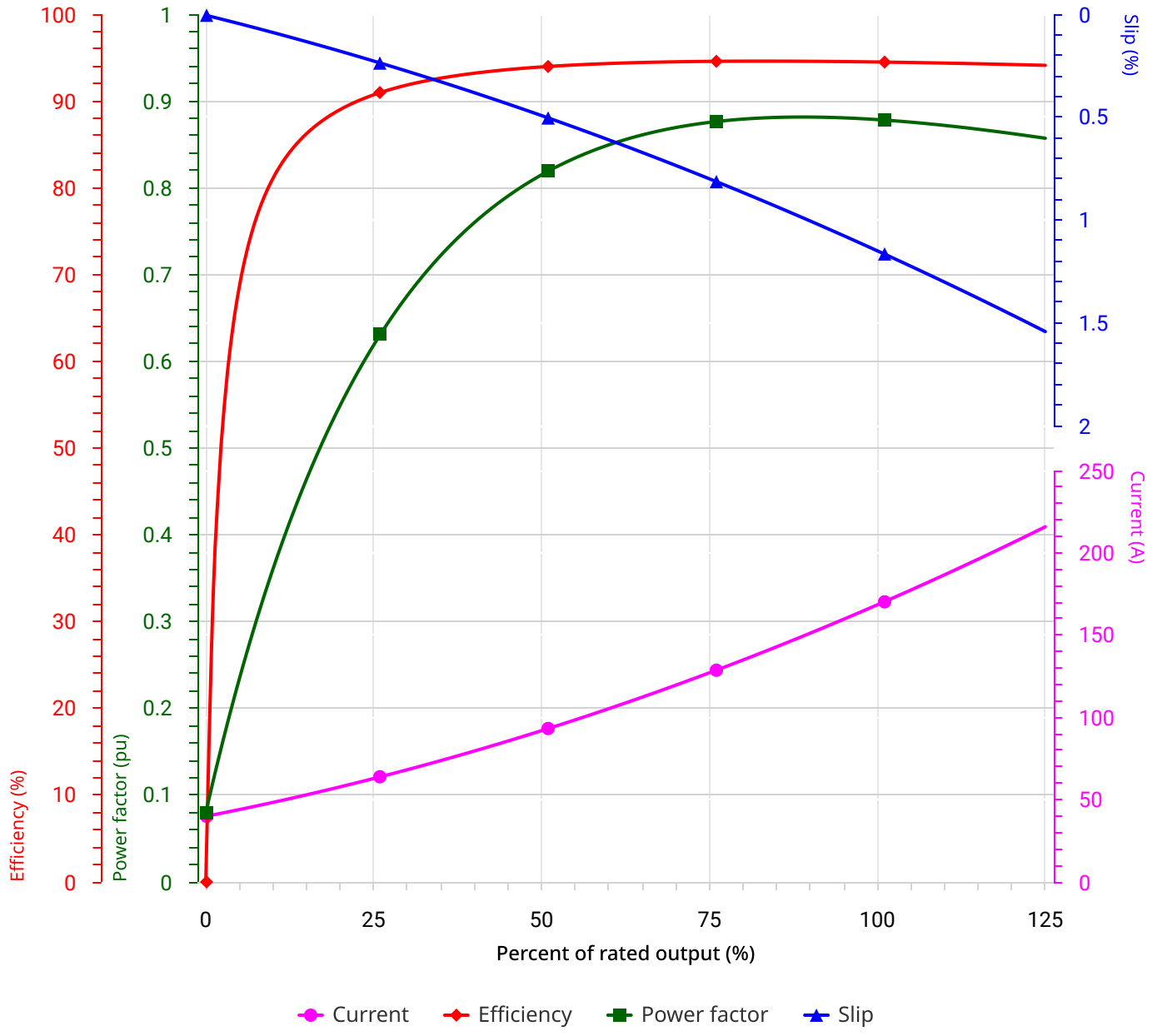
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11611958



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

Rated current	: 164 A	Moment of inertia (J)	: 1.41 kgm²
LRC	: 6.0 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 30.6 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

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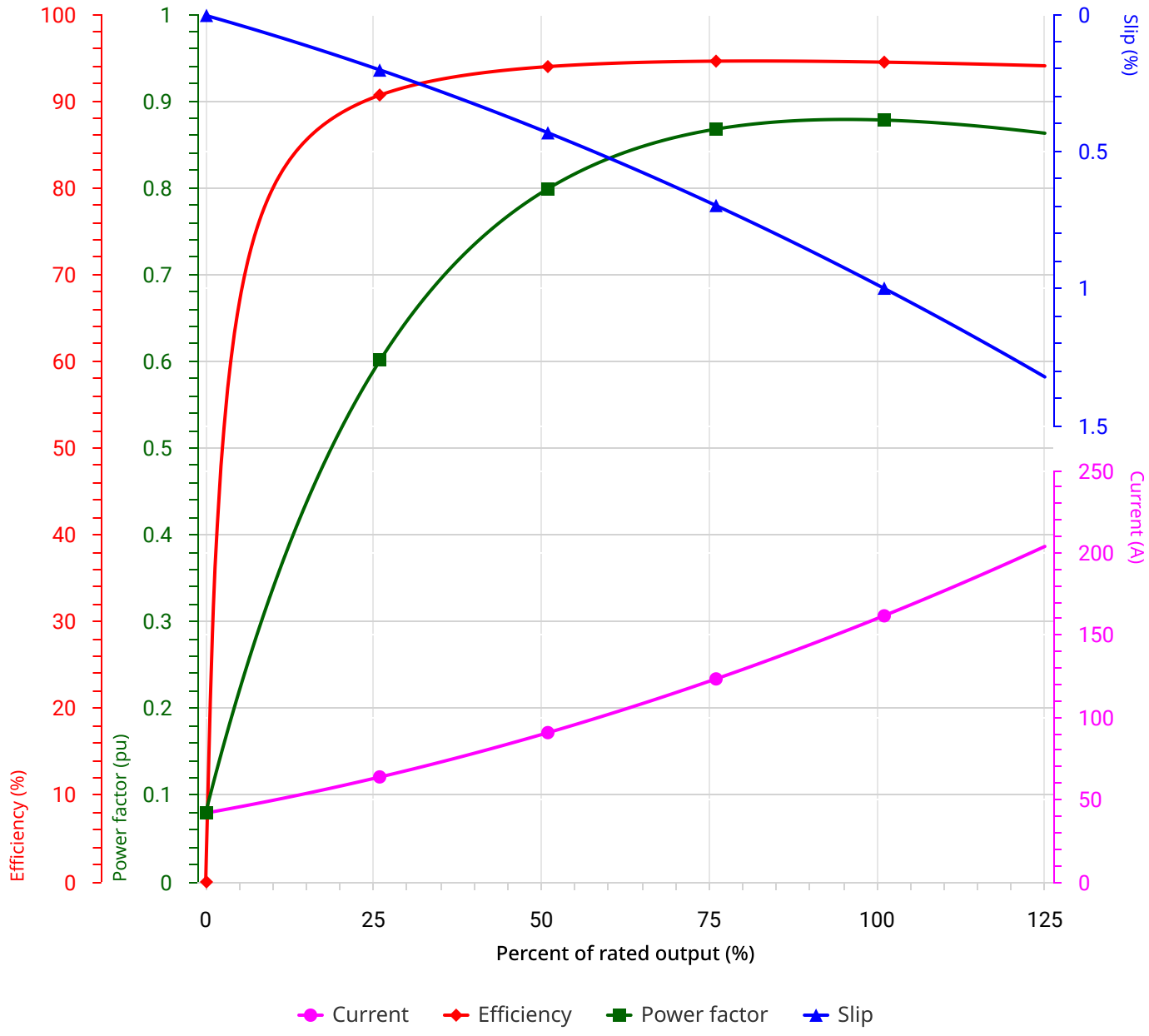
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Customer	:
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Performance	: 125 HP (90 kW) 400V 50Hz 2P 444/5TS

Rated current	: 156 A	Moment of inertia (J)	: 1.41 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 30.5 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: B

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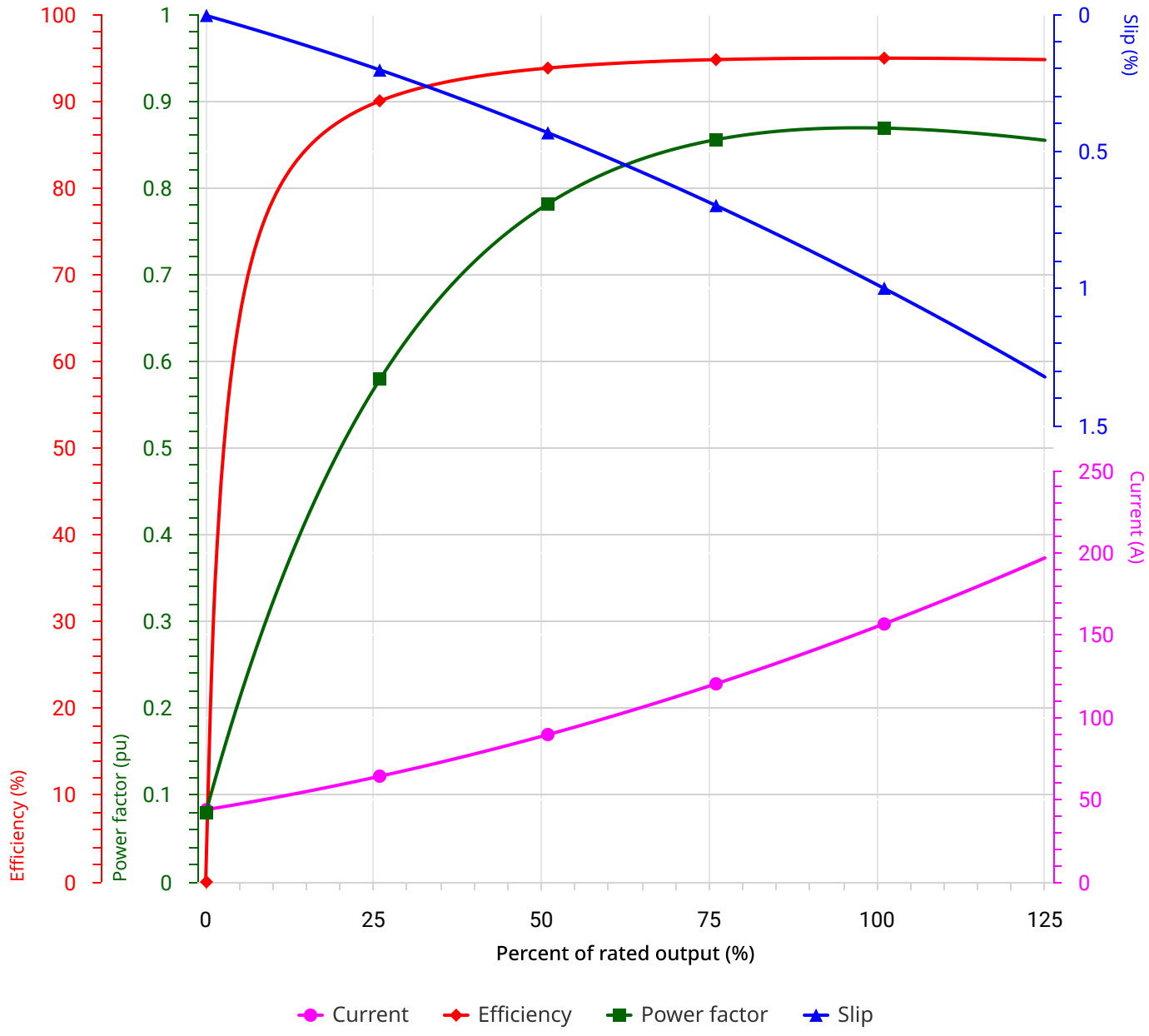
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Performance	: 125 HP (90 kW) 415V 50Hz 2P 444/5TS

Rated current	: 151 A	Moment of inertia (J)	: 1.41 kgm²
LRC	: 6.8 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 30.5 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: B

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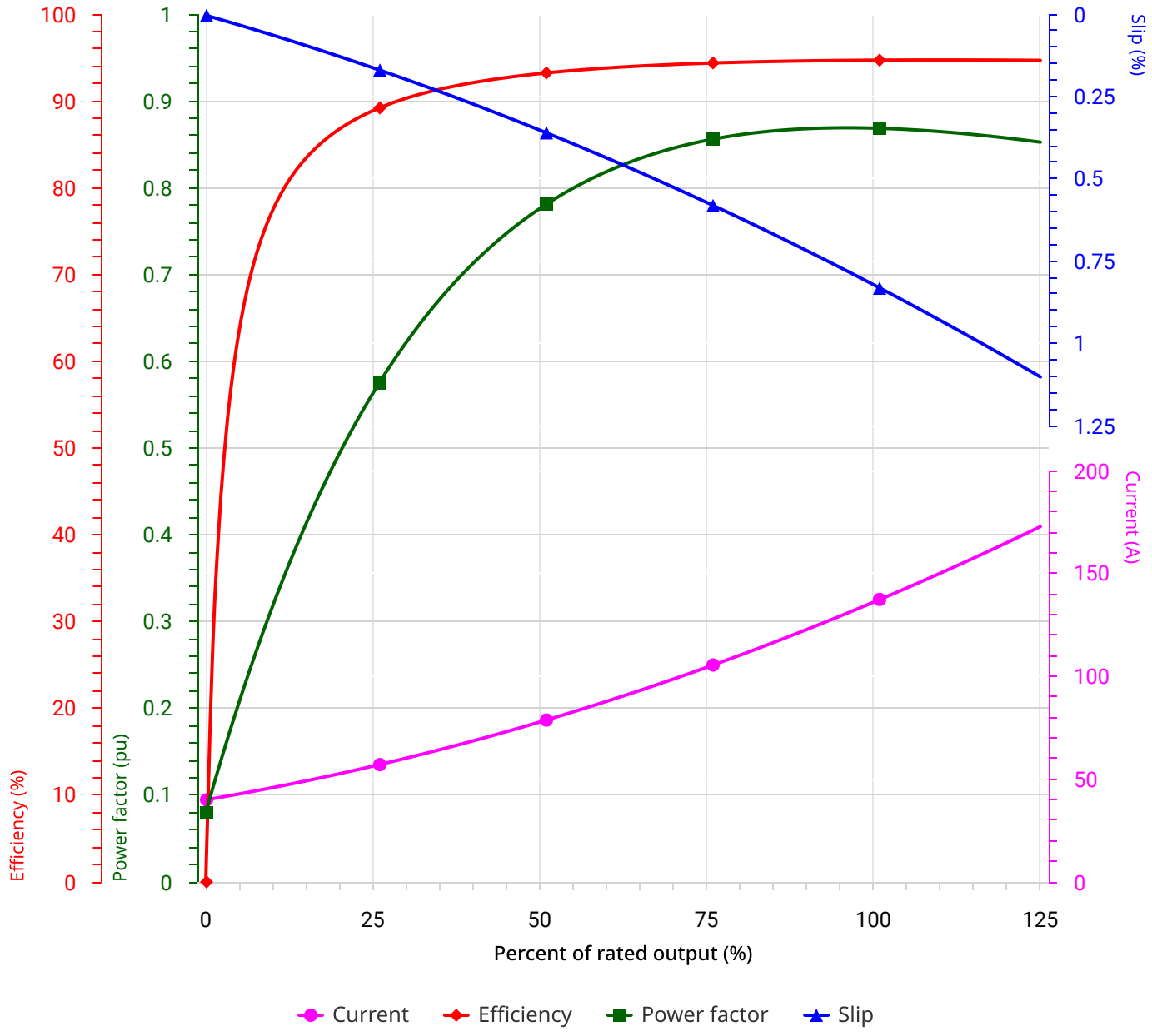
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 100 HP (75 kW) 380V 50Hz 2P 444/5TS

Rated current	: 138 A	Moment of inertia (J)	: 1.41 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 24.4 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2975 rpm	Design	: B

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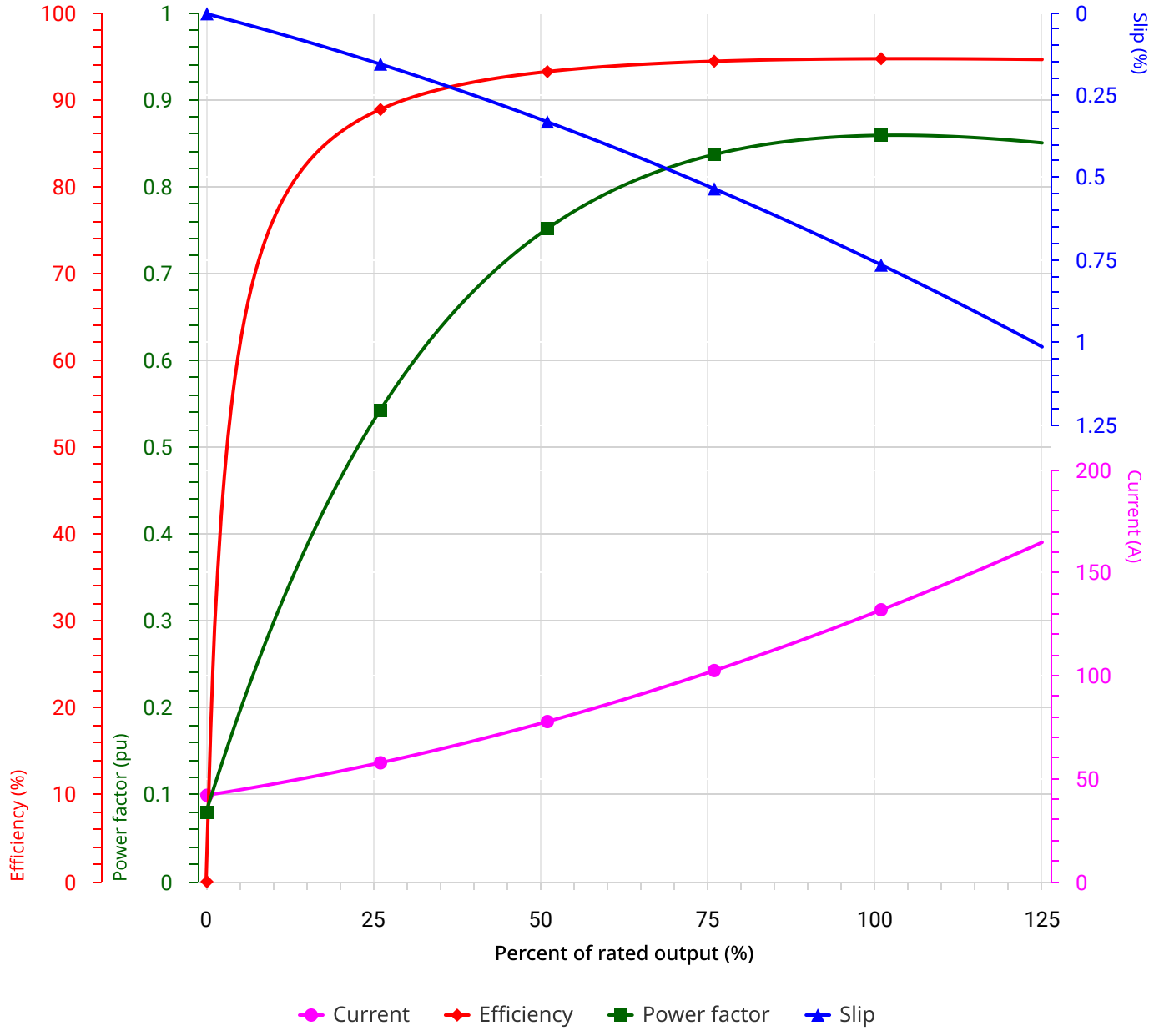
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Performance	: 100 HP (75 kW) 400V 50Hz 2P 444/5TS

Rated current	: 133 A	Moment of inertia (J)	: 1.41 kgm²
LRC	: 8.0 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 24.4 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2977 rpm	Design	: B

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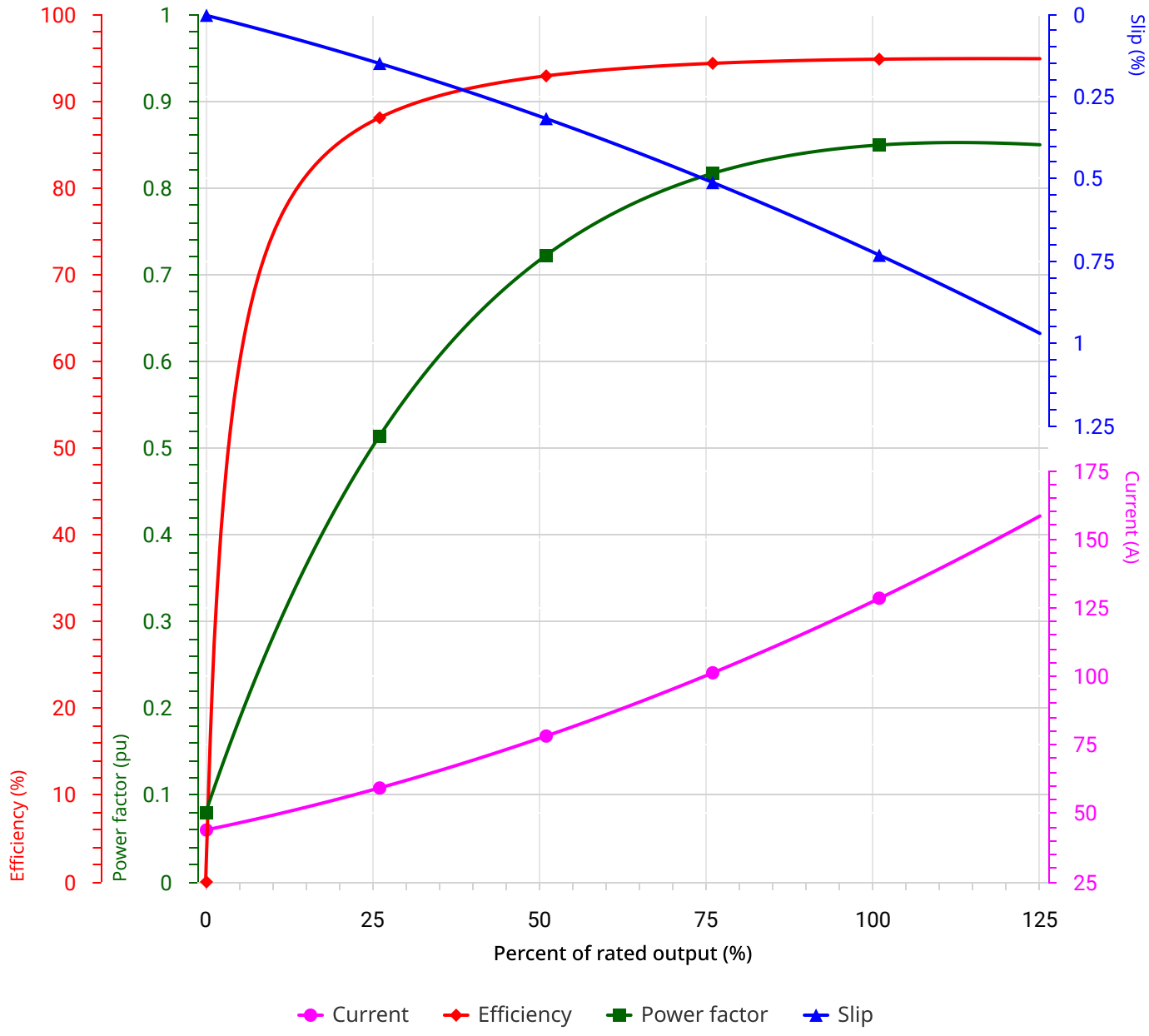
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Three Phase Induction Motor - Squirrel Cage

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Performance	: 100 HP (75 kW) 415V 50Hz 2P 444/5TS

Rated current	: 129 A	Moment of inertia (J)	: 1.41 kgm²
LRC	: 8.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 24.4 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2978 rpm	Design	: B

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