DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency - Derating
Product code	: 13129038

Frame	: 254HP	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: V1
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 144 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1104 kgm²
Design	: B		

Output		15 HP (11 kW)	15 HP (11 kW)	15 HP (11 kW)	15 HP (11 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)
Poles		4	4	4	4	4	4	4
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		36.0/18.0 A	21.5 A	20.5 A	20.0 A	15.6 A	15.1 A	15.1 A
L. R. Amperes		230/115 A	106 A	111 A	118 A	112 A	118 A	125 A
LRC		6.4 Code G	4.9 Code E	5.4 Code F	5.9 Code G	7.2 Code J	7.8 Code K	8.3 Code L
No load current		14.6/7.30 A	7.10 A	7.60 A	8.10 A	7.10 A	7.60 A	8.10 A
Rated speed		1770 rpm	1455 rpm	1460 rpm	1465 rpm	1475 rpm	1480 rpm	1480 rpm
Slip		1.67 %	3.00 %	2.67 %	2.33 %	1.67 %	1.33 %	1.33 %
Rated torque		6.15 kgfm	7.48 kgfm	7.46 kgfm	7.43 kgfm	4.92 kgfm	4.90 kgfm	4.90 kgfm
Locked rotor torque		230 %	160 %	190 %	200 %	230 %	280 %	300 %
Breakdown torque		250 %	200 %	210 %	230 %	280 %	300 %	320 %
Service factor		1.25	1.00	1.00	1.00	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Noise level		64 dB(A)	61 dB(A)	61 dB(A)	61 dB(A)	61 dB(A)	61 dB(A)	61 dB(A)
Locked rotor time		21 s (hot) 38 s (cold)	15 s (hot) 27 s (cold)	16 s (hot) 29 s (cold)	15 s (hot) 27 s (cold)	27 s (hot) 49 s (cold)	25 s (hot) 45 s (cold)	23 s (hot) 41 s (cold)
Efficiency (%)	50%	91.0	91.0	91.0	91.0	88.8	88.6	88.3
	75%	91.7	90.2	91.0	91.0	90.3	90.3	90.3
	100%	92.4	90.2	91.0	91.0	90.4	90.6	90.8
Power Factor	Start	0.48	0.48	0.48	0.48	0.55	0.56	0.56
	50%	0.68	0.74	0.71	0.69	0.65	0.58	0.59
	75%	0.78	0.82	0.80	0.79	0.74	0.70	0.69
	100%	0.83	0.86	0.85	0.84	0.81	0.79	0.76
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)		8.07	10.66	9.70	9.70	10.42	10.18	9.94
P2 (0,5;1,0)		6.99	9.24	8.41	8.41	9.03	8.82	8.61
P3 (0,25;1,0)		6.54	8.64	7.87	7.87	8.45	8.25	8.06
P4 (0,9;0,5)		3.90	5.16	4.69	4.69	5.04	4.92	4.81
P5 (0,5;0,5)		2.76	3.64	3.31	3.31	3.56	3.48	3.39
P6 (0,5;0,25)		1.82	2.41	2.19	2.19	2.36	2.30	2.25
P7 (0,25;0,25)		1.32	1.74	1.58	1.58	1.70	1.66	1.62

	Drive end	Non drive end
Bearing type	6311-C3	6209-C3
Lubrication interval	15000 h	19000 h
Lubricant amount	18 g	9 g
Lubricant type	MOBIL POLYREX EM	

Notes:

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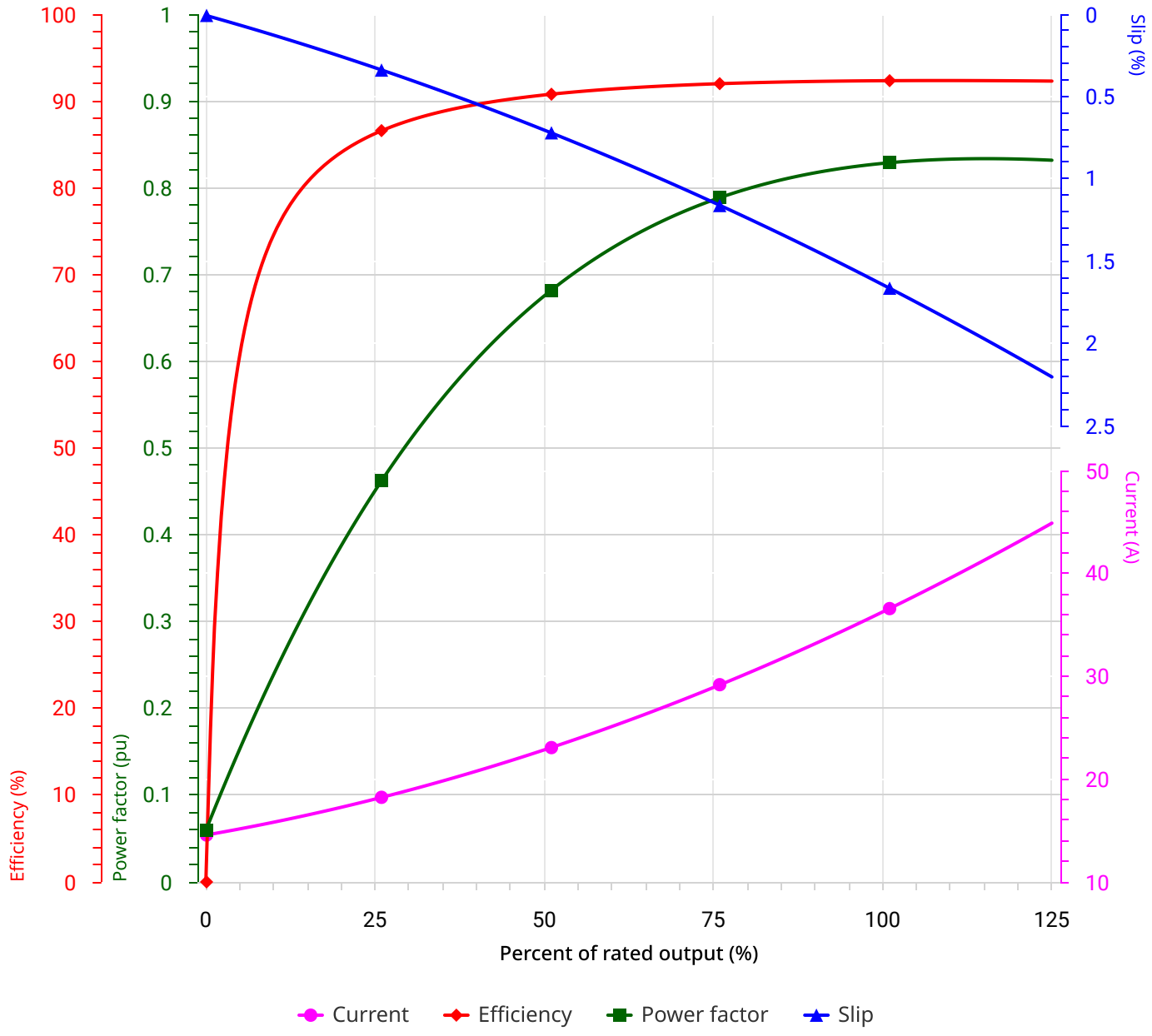
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency - Derating
Product code	: 13129038



Performance	: 15 HP (11 kW) 208/230/460V 60Hz 4P 254HP

Rated current	: 39.8/36.0/18.0 A	Moment of inertia (J)	: 0.1104 kgm²
LRC	: 6.4 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.15 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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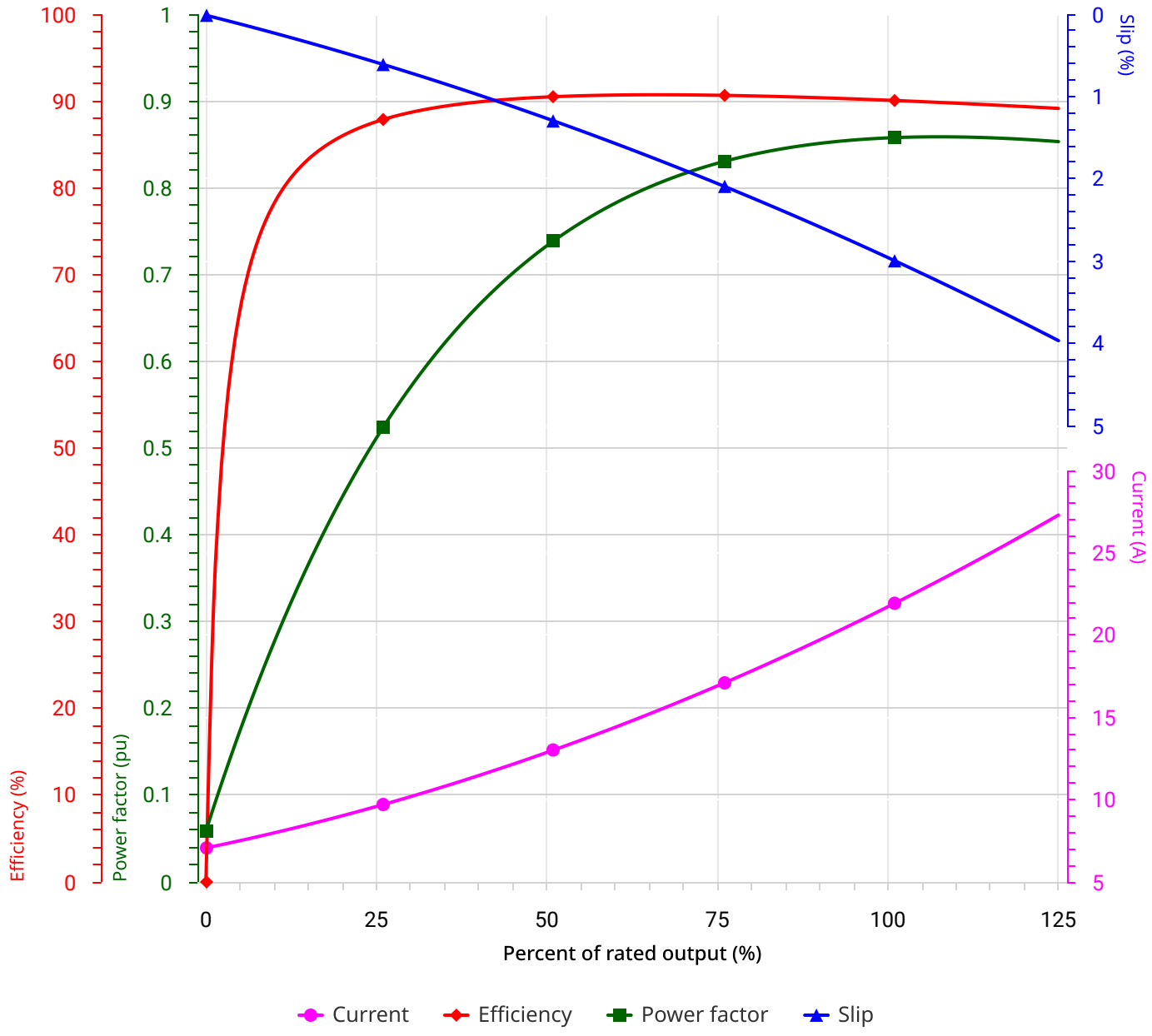
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency - Derating
Product code	: 13129038



Performance	: 15 HP (11 kW) 380V 50Hz 4P 254HP

Rated current	: 21.5 A	Moment of inertia (J)	: 0.1104 kgm²
LRC	: 4.9 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 7.48 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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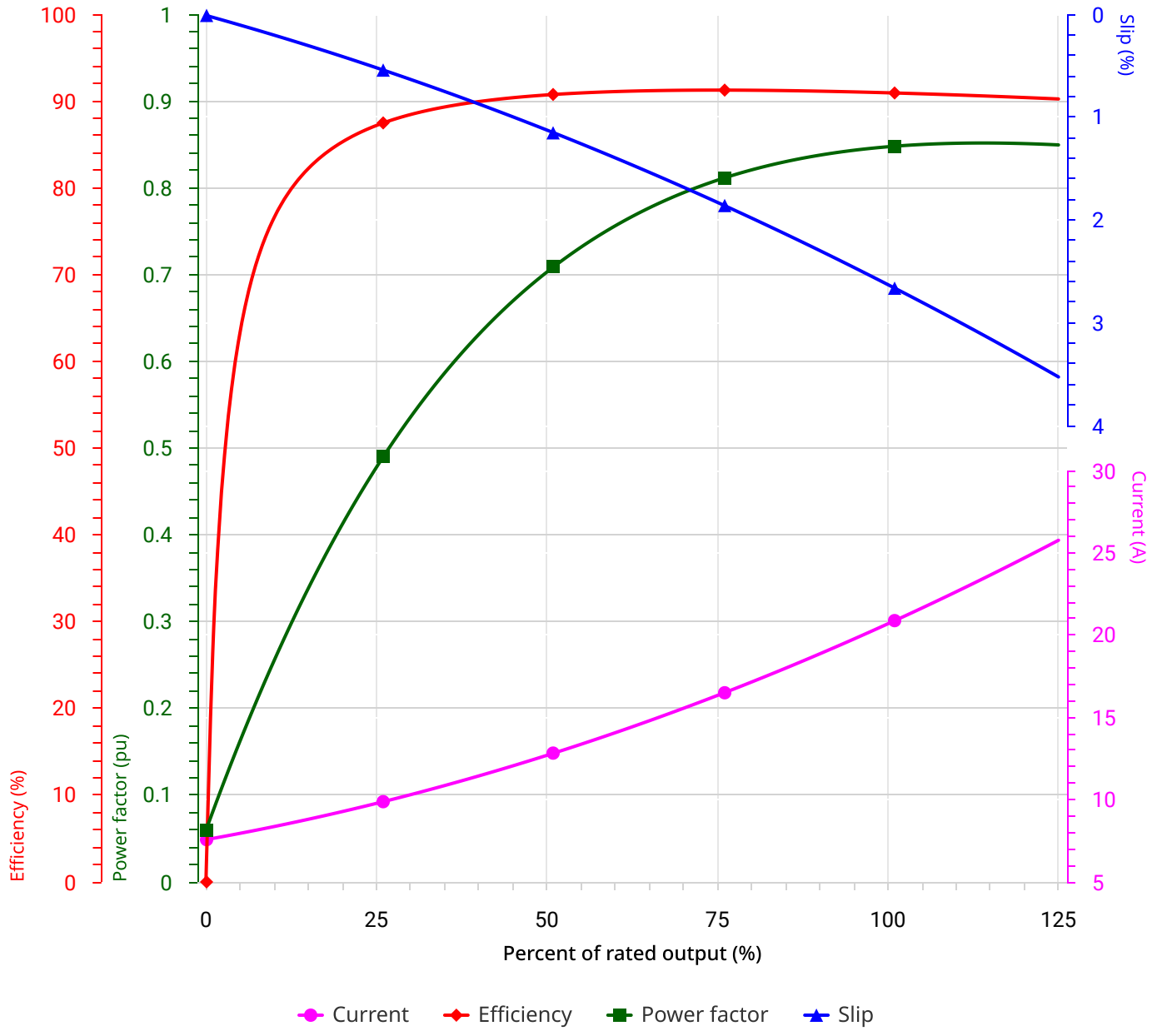
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 15 HP (11 kW) 400V 50Hz 4P 254HP

Rated current	: 20.5 A	Moment of inertia (J)	: 0.1104 kgm²
LRC	: 5.4 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 7.46 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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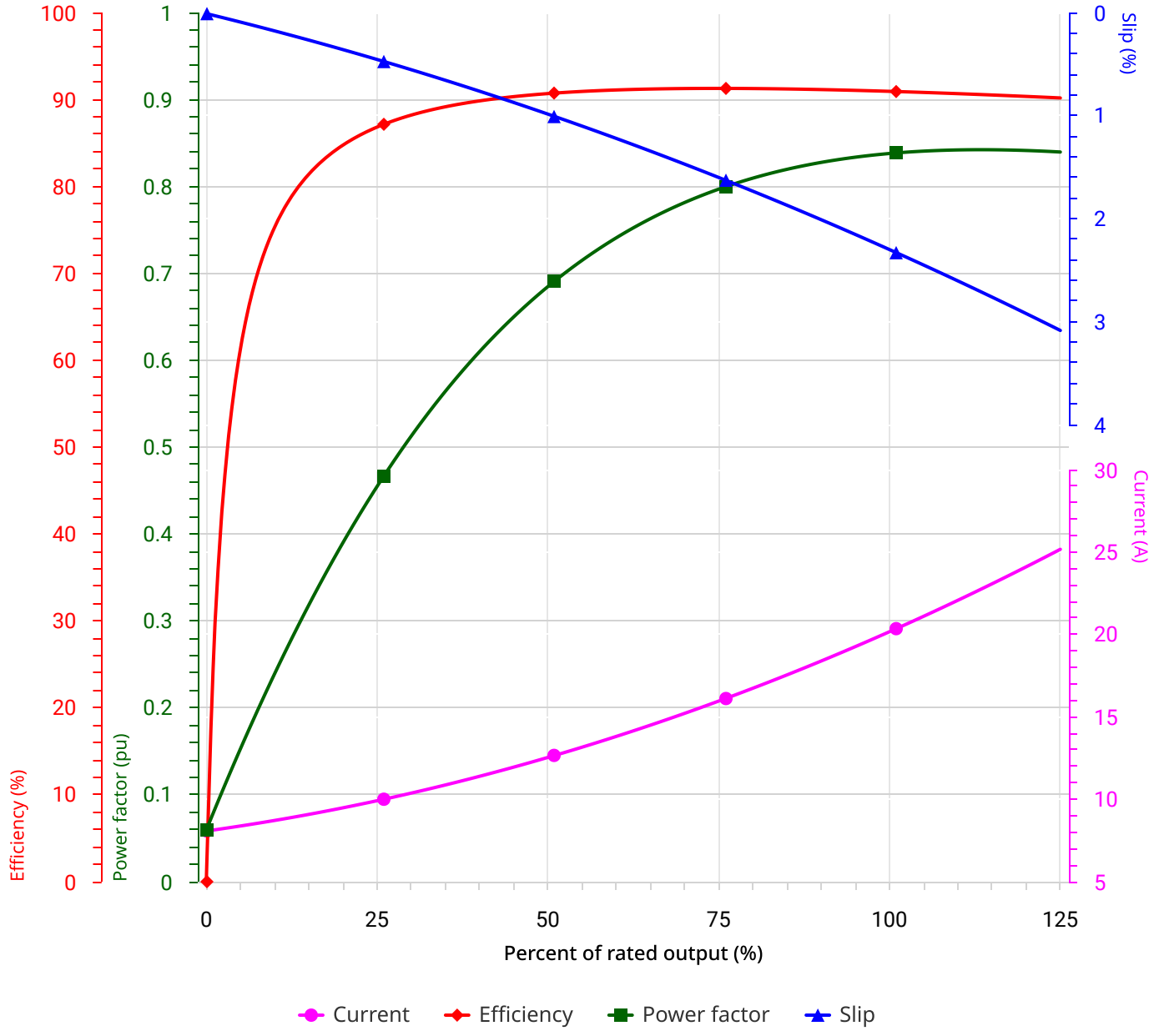
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 13129038



Performance	: 15 HP (11 kW) 415V 50Hz 4P 254HP

Rated current	: 20.0 A	Moment of inertia (J)	: 0.1104 kgm²
LRC	: 5.9 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 7.43 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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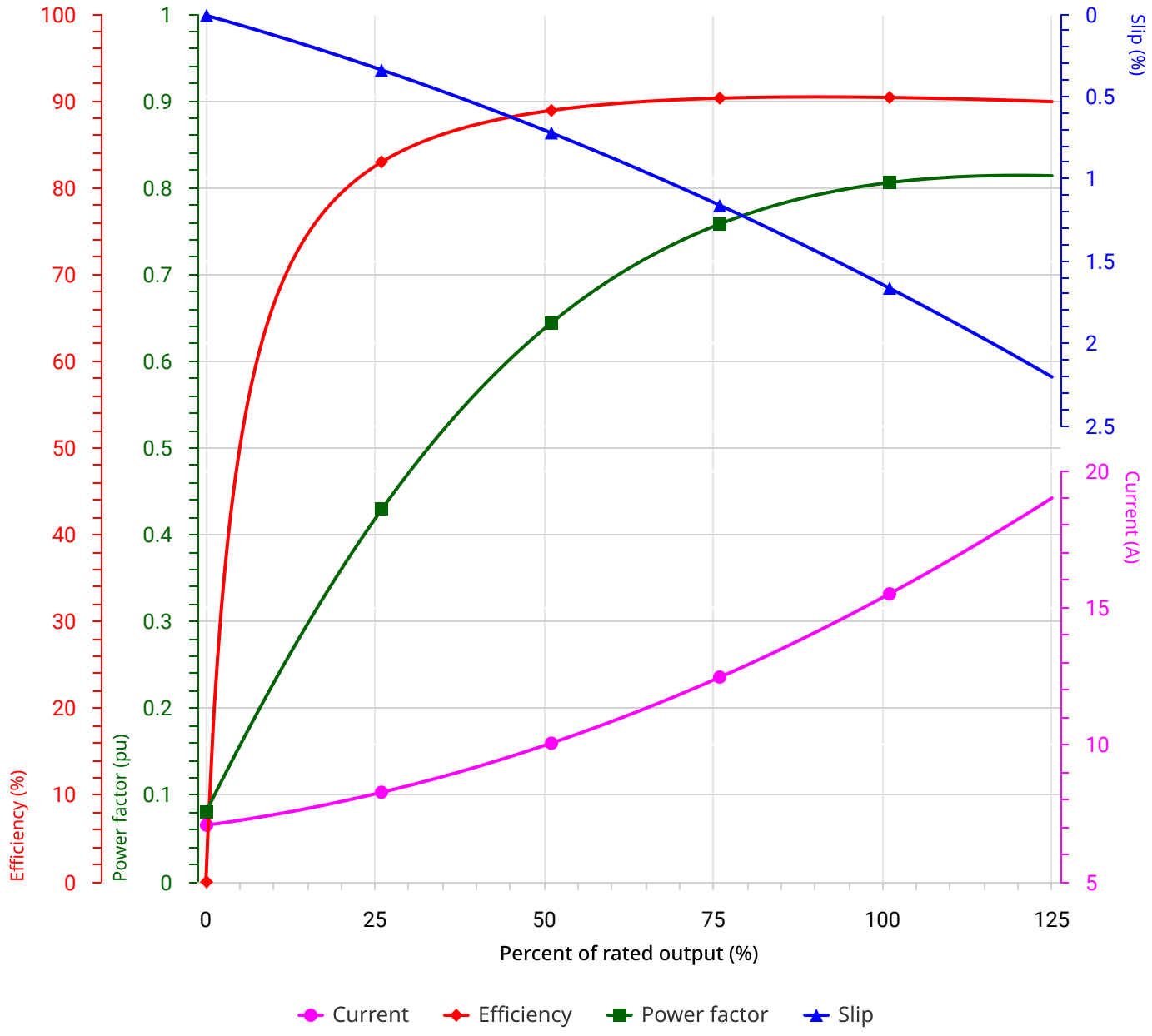
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 13129038



Performance	: 10 HP (7.5 kW) 380V 50Hz 4P 254HP

Rated current	: 15.6 A	Moment of inertia (J)	: 0.1104 kgm²
LRC	: 7.2 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 4.92 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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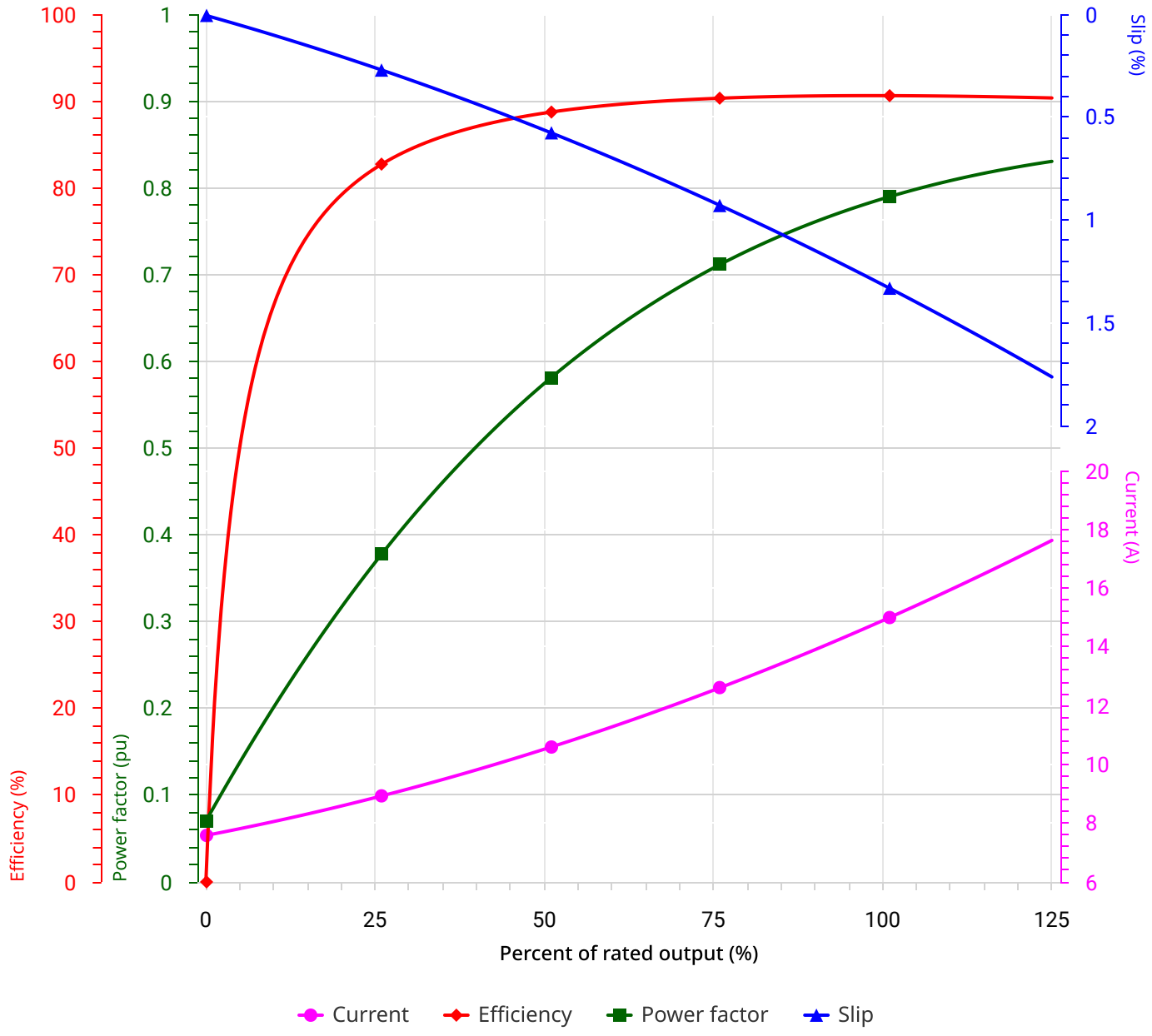
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Performance	: 10 HP (7.5 kW) 400V 50Hz 4P 254HP

Rated current	: 15.1 A	Moment of inertia (J)	: 0.1104 kgm²
LRC	: 7.8 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 4.90 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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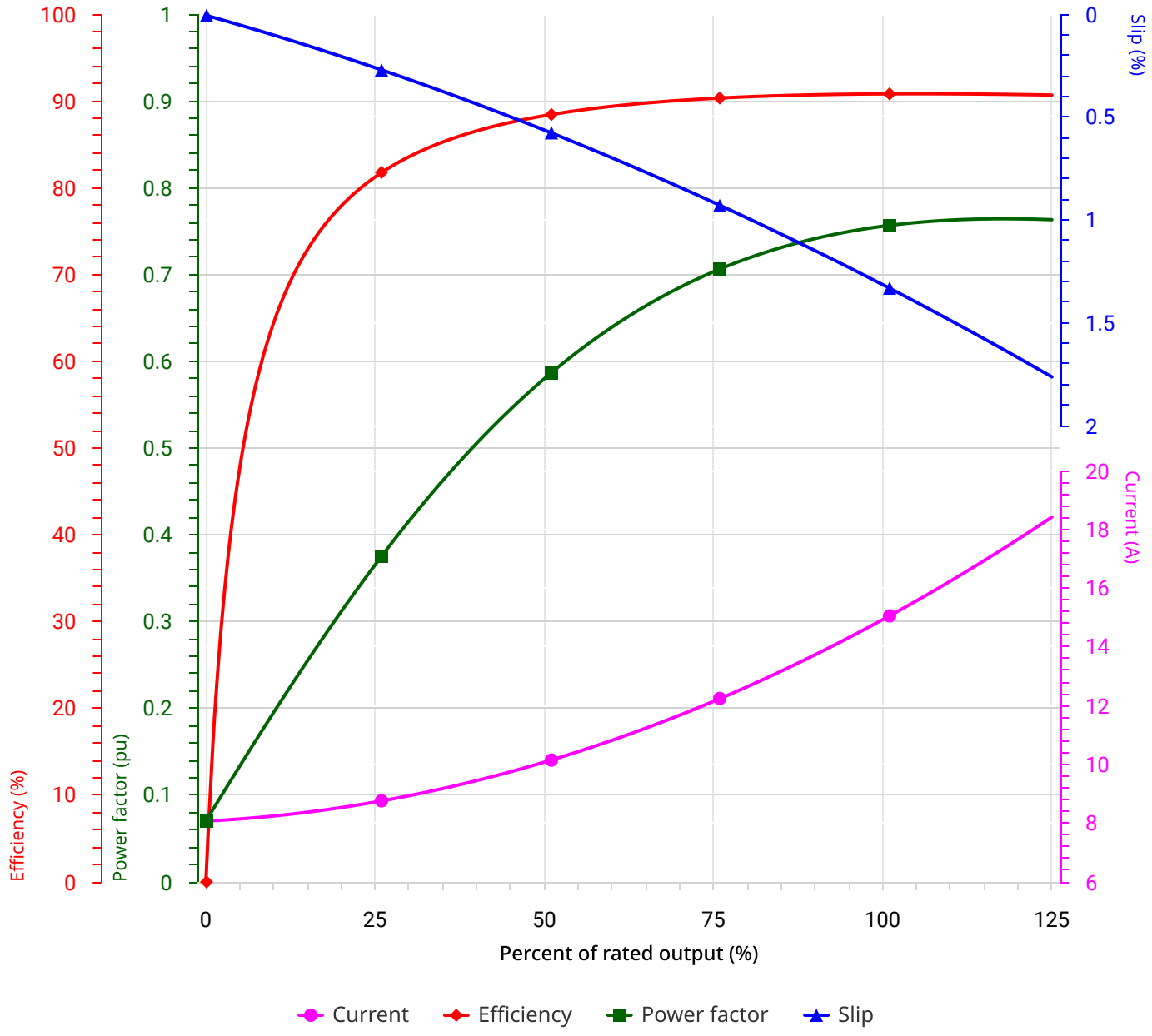
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Product code	: 13129038



Performance	: 10 HP (7.5 kW) 415V 50Hz 4P 254HP

Rated current	: 15.1 A	Moment of inertia (J)	: 0.1104 kgm²
LRC	: 8.3 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 4.90 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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