DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - Nema Premium Efficiency
Product code : 11611502

Frame	: 404/5T	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	: 517 kg
Protection degree	: IP55	Moment of inertia (J)	: 1.26 kgm²
Design	: B		

Output		100 HP (75	100 HP (75	75 HP (55	75 HP (55	75 HP (55	100 HP (75	100 HP (75	100 HP (75
Poles		4	4	4	4	4	4	4	4
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		226/113 A	245 A	102 A	98.3 A	95.9 A	138 A	131 A	127 A
L. R. Amperes		1650/825 A	1792 A	785 A	826 A	854 A	814 A	852 A	902 A
LRC		7.3 Code H	7.3 Code H	7.7 Code H	8.4 Code J	8.9 Code K	5.9 Code F	6.5 Code G	7.1 Code H
No load current		65.5 A	37.6 A	40.1 A	42.0 A	37.6 A	40.1 A	42.0 A	
Rated speed		1780 rpm	1485 rpm	1485 rpm	1485 rpm	1470 rpm	1475 rpm	1475 rpm	
Slip		1.11 %	1.00 %	36.7 kgfm	1.00 %	49.4 kgfm	1.67 %	1.67 %	
Rated torque		41.0 kgfm	36.7 kgfm	280 %	36.7 kgfm	190 %	49.2 kgfm	49.2 kgfm	
Locked rotor torque		240 %	260 %	310 %	290 %	210 %	210 %	220 %	
Breakdown torque		260 %	280 %	1.00	330 %	1.00	230 %	250 %	
Service factor		1.25	1.00	80 K	1.00	105 K	1.00	1.00	
Temperature rise		80 K	80 K	64 dB(A)	80 K	64 dB(A)	105 K	105 K	
Noise level		68.0 dB(A)	64 dB(A)	9 s (hot) 16 s (cold)	64 dB(A)	9 s (hot) 16 s (cold)	64 dB(A)	64 dB(A)	
Locked rotor time		13 s (hot) 23 s (cold)	9 s (hot) 16 s (cold)		9 s (hot) 16 s (cold)		9 s (hot) 16 s (cold)	9 s (hot) 16 s (cold)	
Efficiency (%)	50%	95.0	95.0	94.0	93.9	93.6	94.5	94.5	94.5
	75%	95.0	95.0	94.4	94.5	94.5	94.1	94.5	94.5
	100%	95.4	95.4	95.0	95.0	95.0	93.6	94.1	94.5
Power Factor	Start	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
	50%	0.77	0.77	0.72	0.69	0.66	0.82	0.79	0.77
	75%	0.84	0.84	0.83	0.81	0.79	0.86	0.85	0.84
	100%	0.87	0.87	0.86	0.85	0.84	0.88	0.88	0.87
Losses at normative operating points (speed;torque), in percentage of rated output power									
P1 (0,9;1,0)		4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
P2 (0,5;1,0)		3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
P3 (0,25;1,0)		3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66
P4 (0,9;0,5)		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
P5 (0,5;0,5)		1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
P6 (0,5;0,25)		0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
P7 (0,25;0,25)		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60

	Drive end	Non drive end
Bearing type	NU-316-C3	6314-C3
Lubrication interval	7000 h	12000 h
Lubricant amount	34 g	27 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 936 kgf
Max. compression : 1453 kgf

Notes:
The vibration and noise level informed are valid when motor is operating with roller bearings respecting their minimum radial load.
Thus, WEG reserves the right to test the motor with ball bearings.

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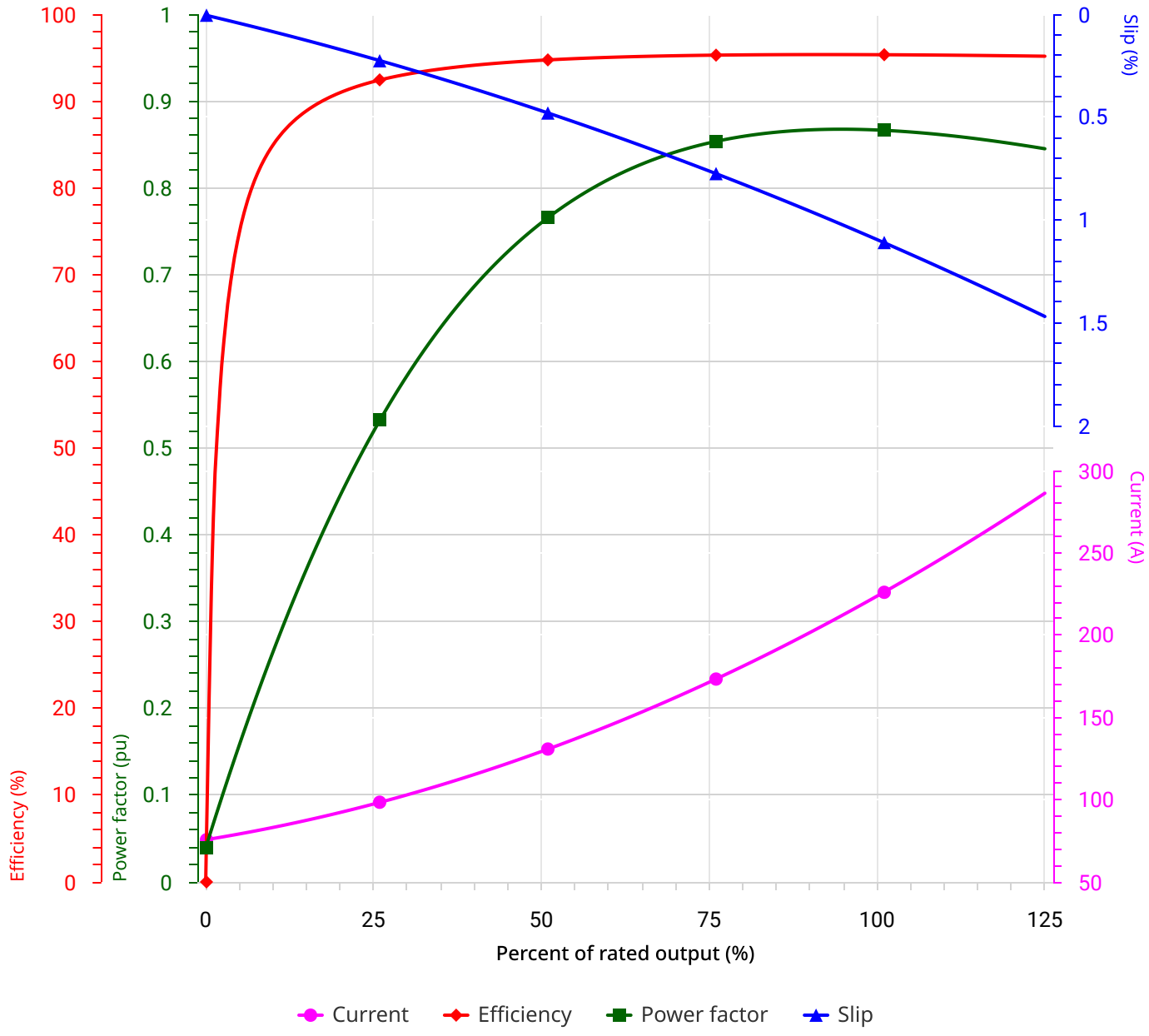
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 11611502



Performance	: 100 HP (75 kW) 230/460V 60Hz 4P 404/5T

Rated current	: 226/113 A	Moment of inertia (J)	: 1.26 kgm²
LRC	: 7.3 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 40.8 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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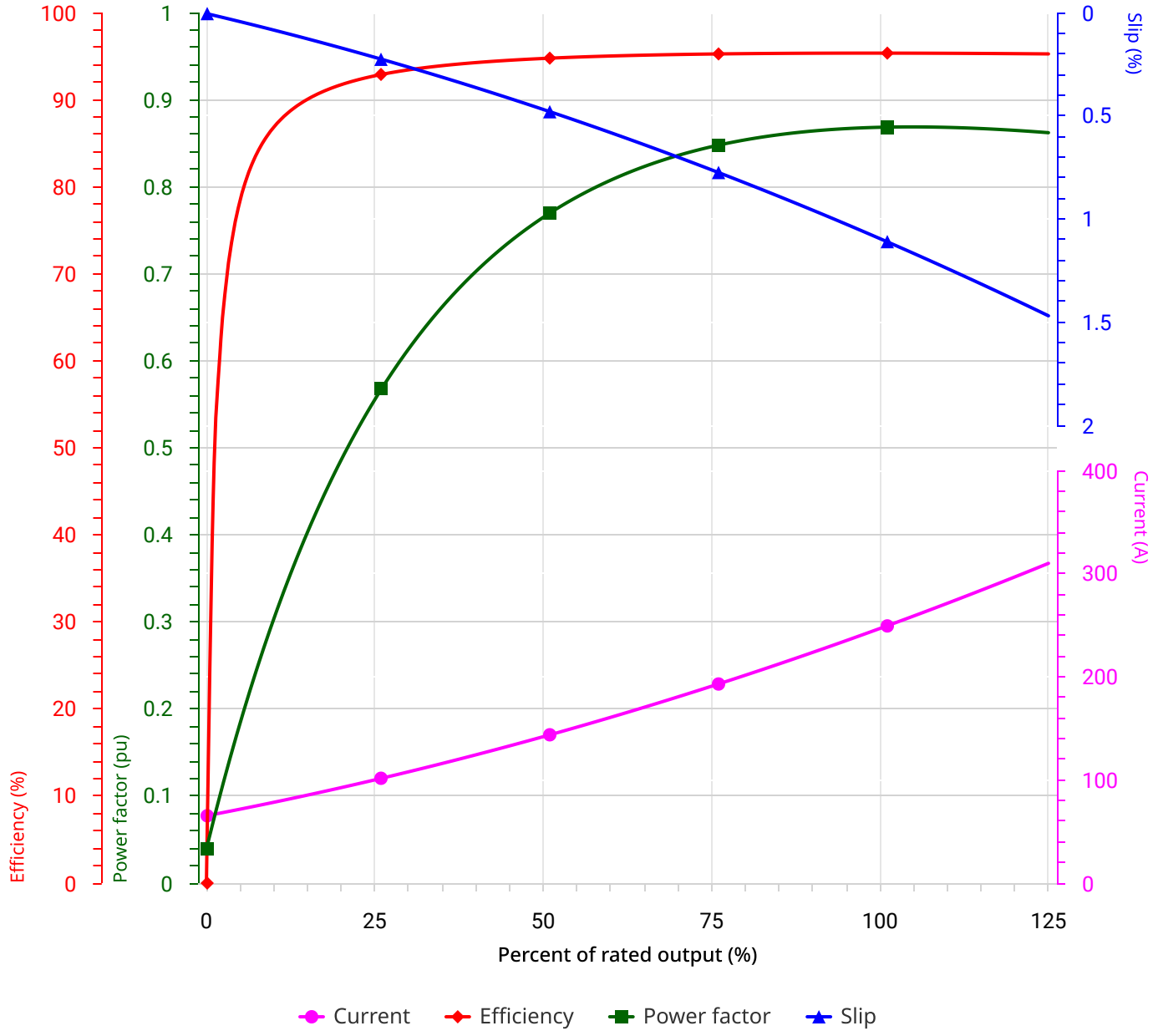
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 11611502



Performance	: 100 HP (75 kW) 208V 60Hz 4P 404/5T

Rated current	: 245 A	Moment of inertia (J)	: 1.26 kgm²
LRC	: 7.3 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 41.0 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: 00002

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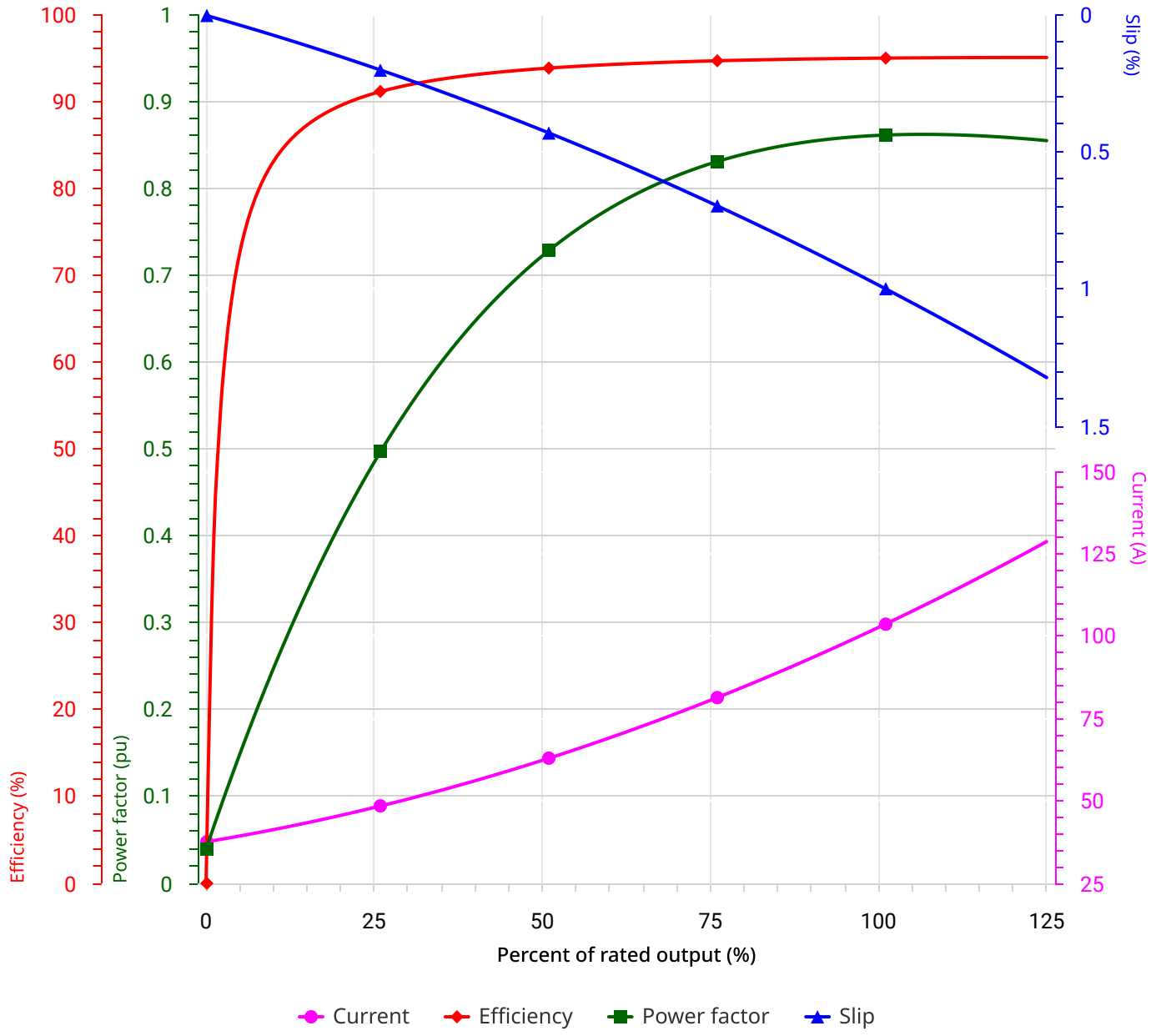
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 11611502



Performance	: 75 HP (55 kW) 380V 50Hz 4P 404/5T

Rated current	: 102 A	Moment of inertia (J)	: 1.26 kgm²
LRC	: 7.7 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 36.7 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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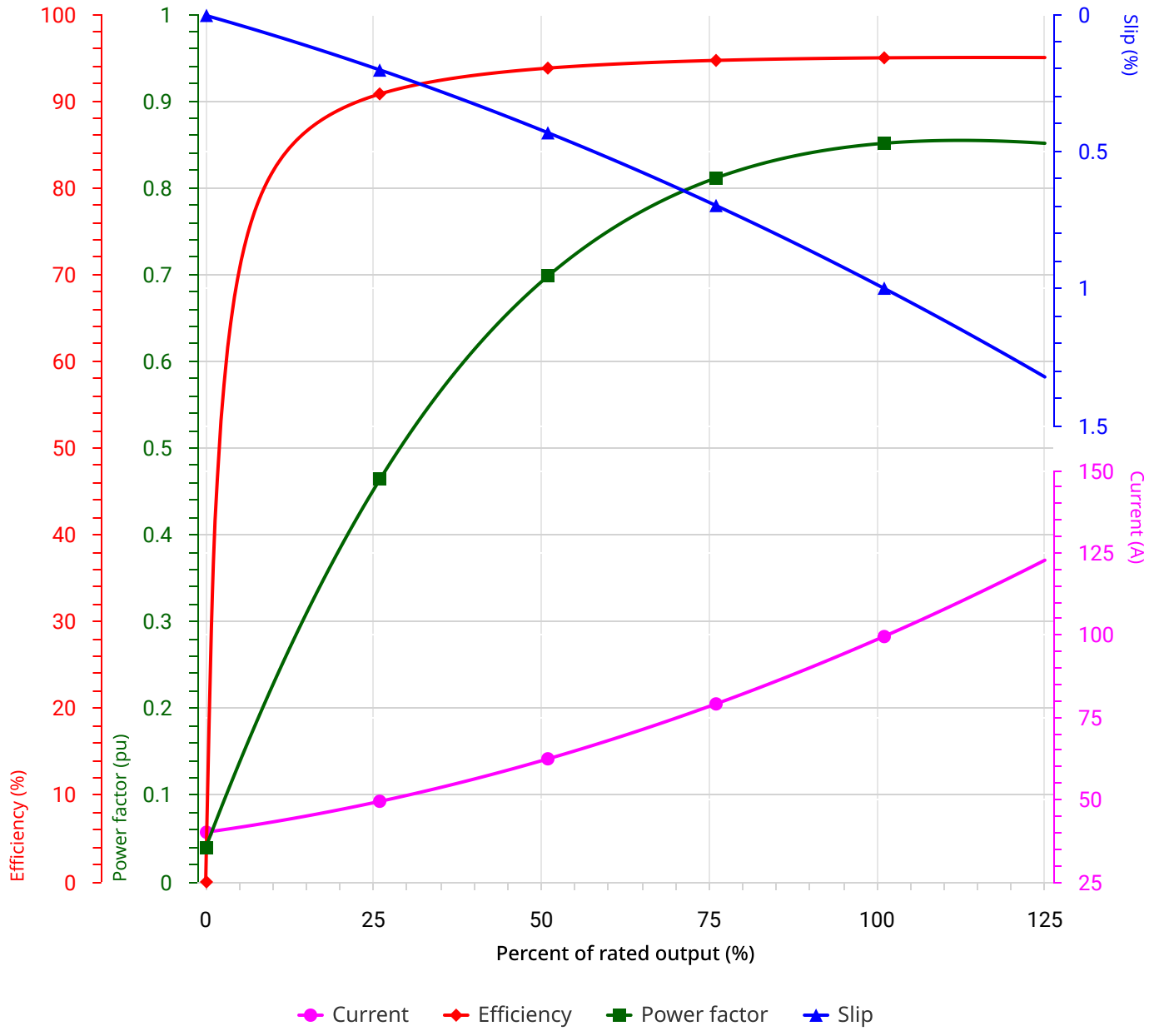
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 11611502



Performance	: 75 HP (55 kW) 400V 50Hz 4P 404/5T

Rated current	: 98.3 A	Moment of inertia (J)	: 1.26 kgm²
LRC	: 8.4 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 36.7 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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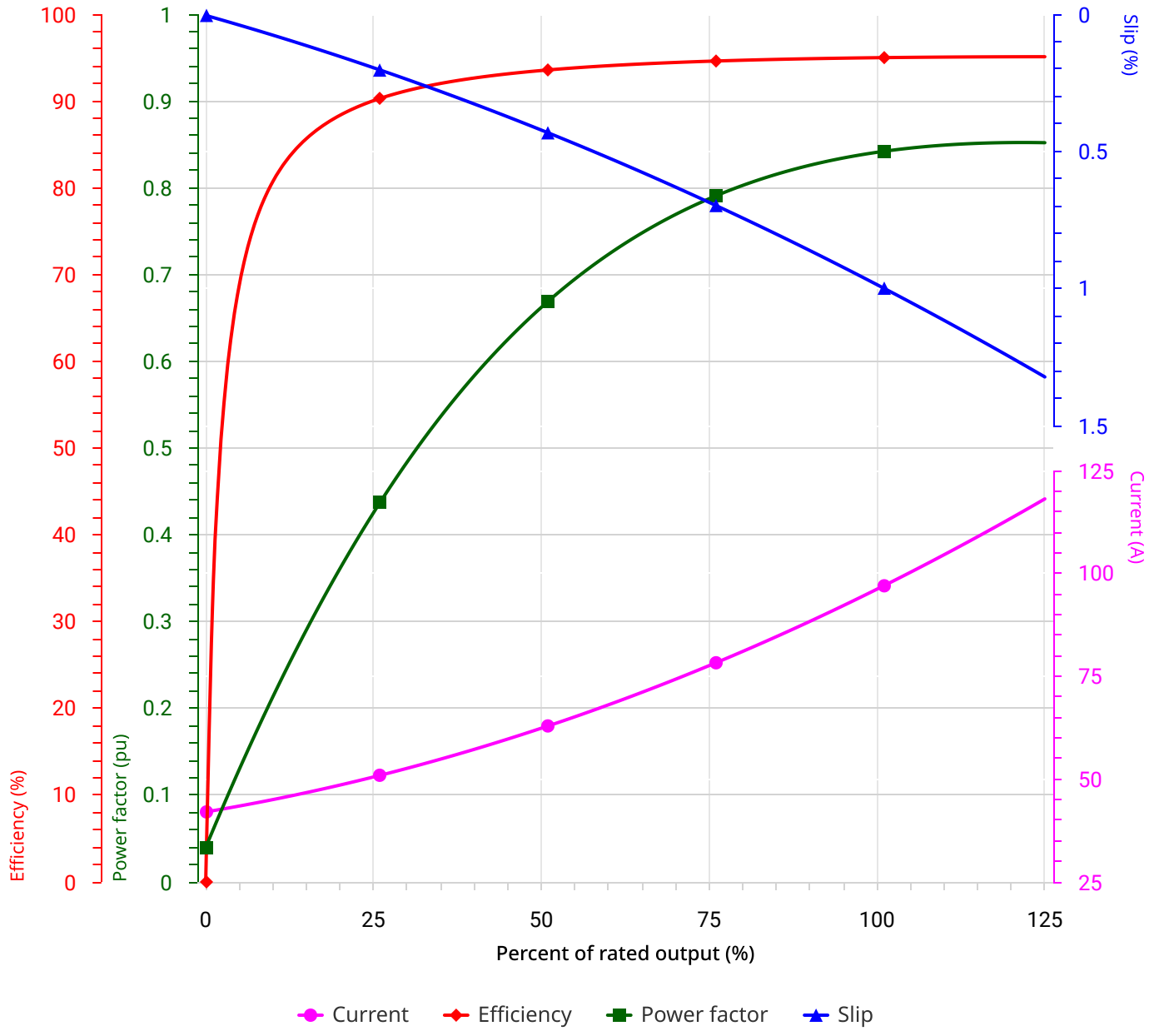
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 11611502



Performance	: 75 HP (55 kW) 415V 50Hz 4P 404/5T

Rated current	: 95.9 A	Moment of inertia (J)	: 1.26 kgm²
LRC	: 8.9 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 36.7 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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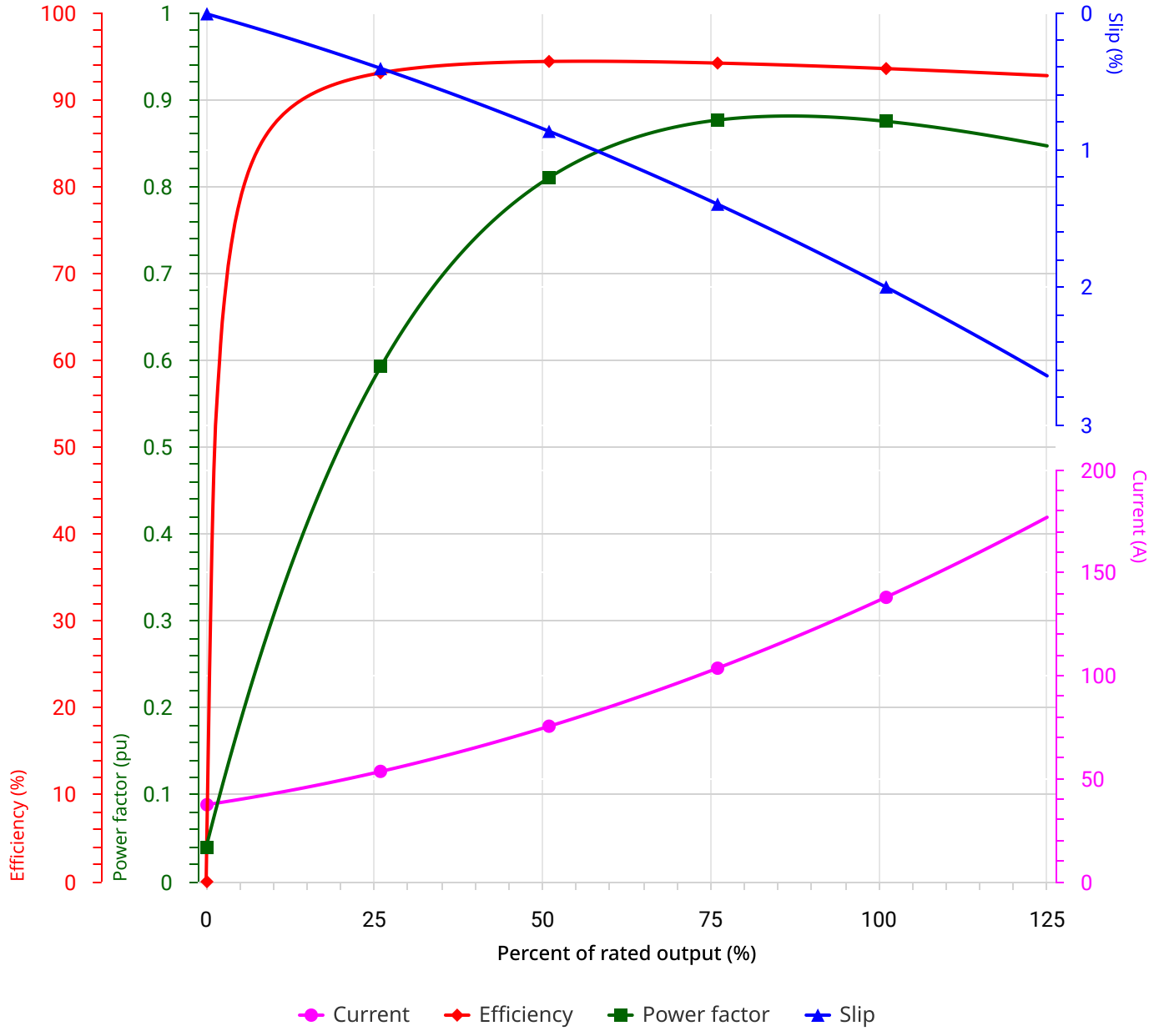
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 11611502



Performance	: 100 HP (75 kW) 380V 50Hz 4P 404/5T

Rated current	: 138 A	Moment of inertia (J)	: 1.26 kgm²
LRC	: 5.9 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 49.4 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1470 rpm	Design	: B

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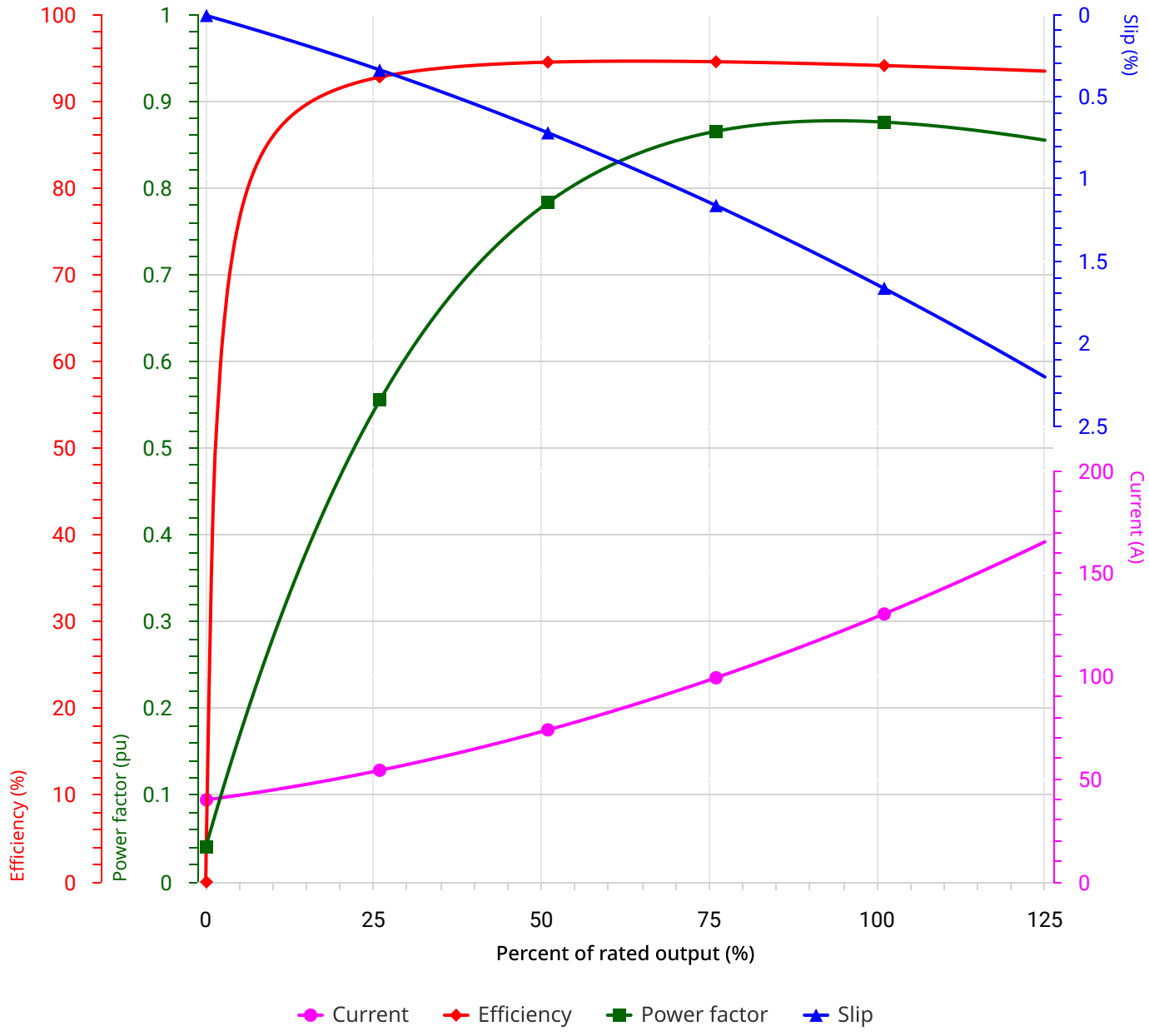
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 11611502



Performance	: 100 HP (75 kW) 400V 50Hz 4P 404/5T

Rated current	: 131 A	Moment of inertia (J)	: 1.26 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 49.2 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 230 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B

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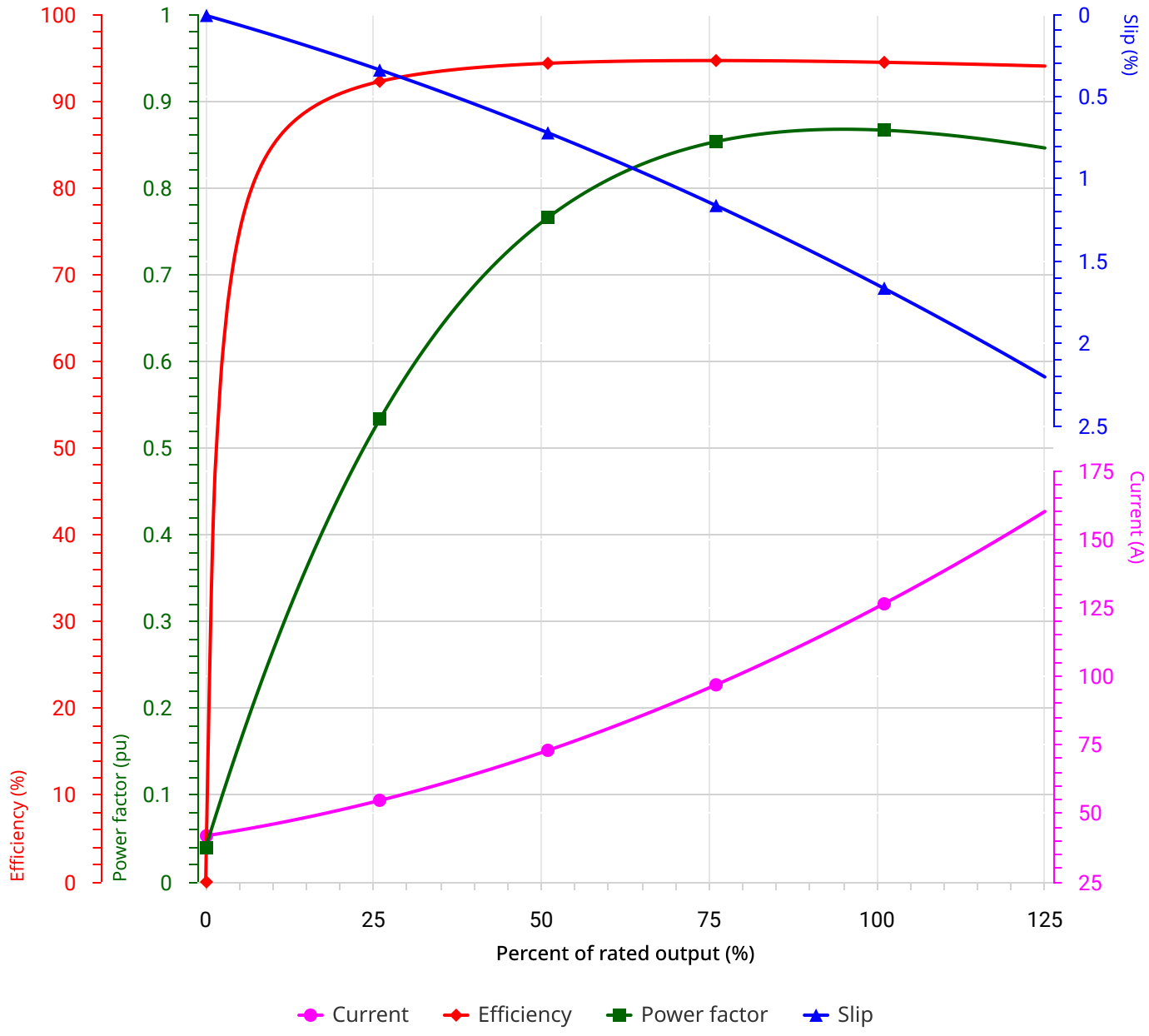
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 11611502



Performance	: 100 HP (75 kW) 415V 50Hz 4P 404/5T

Rated current	: 127 A	Moment of inertia (J)	: 1.26 kgm²
LRC	: 7.1 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 49.2 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B

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