DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 14930210

Frame	: 213TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B34T
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 70.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0566 kgm²
Design	: B		

Output		7.5 HP (5.5 kW)	7.5 HP (5.5 kW)
Poles		4	4
Frequency		60 Hz	60 Hz
Rated voltage		230/460 V	208 V
Rated current		18.4/9.18 A	19.9 A
L. R. Amperes		130/65.2 A	141 A
LRC		7.1 Code H	7.1 Code H
No load current		7.80/3.90 A	6.73 A
Rated speed		1765 rpm	1765 rpm
Slip		1.94 %	1.94 %
Rated torque		3.08 kgfm	3.00 kgfm
Locked rotor torque		220 %	220 %
Breakdown torque		280 %	280 %
Service factor		1.25	1.25
Temperature rise		80 K	80 K
Noise level		58 dB(A)	58.0 dB(A)
Locked rotor time		20 s (hot) 36 s (cold)	20 s (hot) 36 s (cold)
Efficiency (%)	50%	89.5	89.5
	75%	91.0	91.0
	100%	91.7	91.7
Power Factor	Start	0.51	0.51
	50%	0.66	0.66
	75%	0.76	0.76
	100%	0.82	0.82
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		10.21	10.21
P2 (0,5;1,0)		9.02	9.02
P3 (0,25;1,0)		8.45	8.45
P4 (0,9;0,5)		4.85	4.85
P5 (0,5;0,5)		3.56	3.56
P6 (0,5;0,25)		2.38	2.38
P7 (0,25;0,25)		1.74	1.74

	Drive end	Non drive end
Bearing type	6308-ZZ	6207-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads	
Max. traction	: 123 kgf
Max. compression	: 193 kgf

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/16

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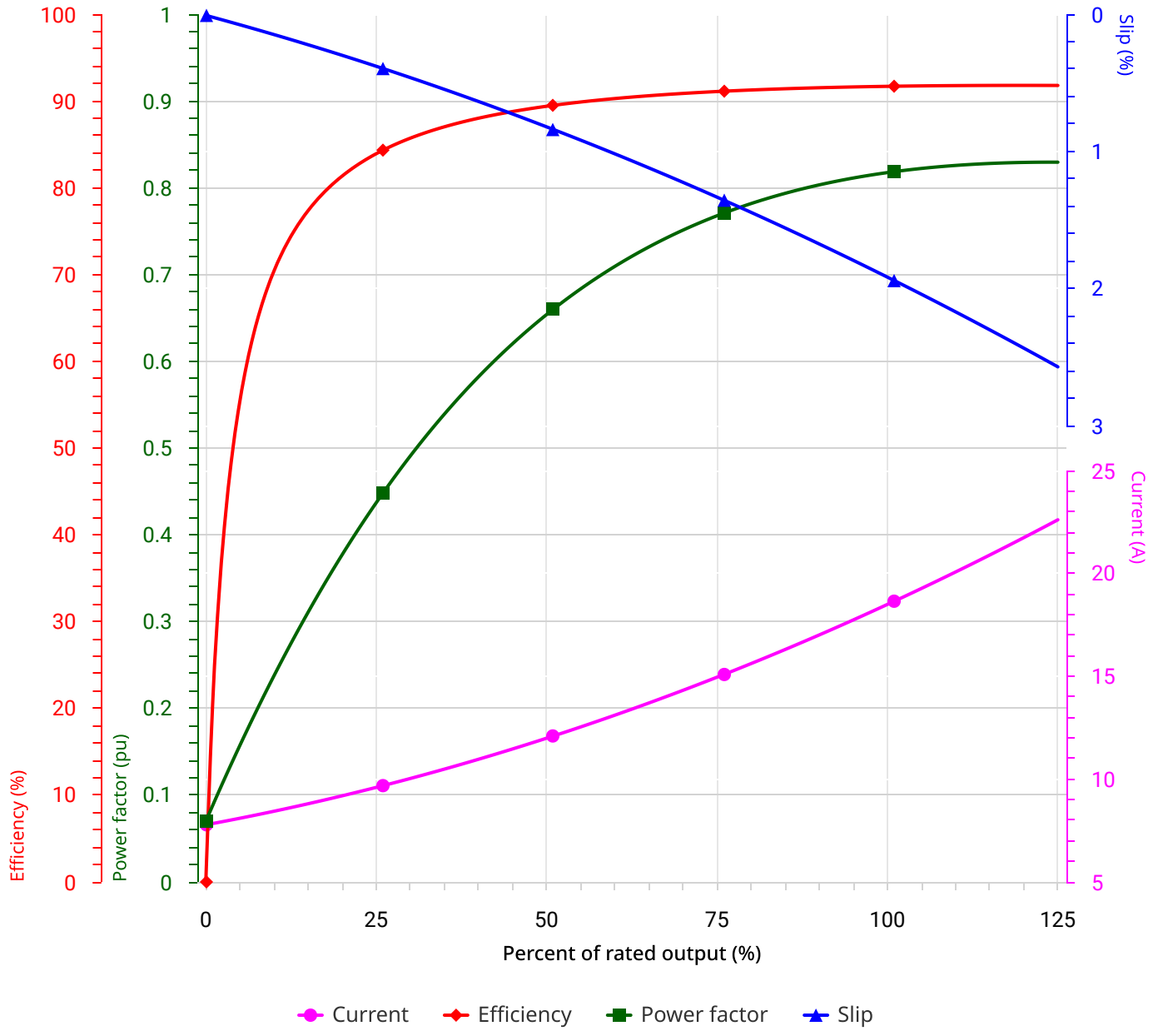

Performance	: 7.5 HP (5.5 kW) 230/460V 60Hz 4P 213TC

Rated current	: 18.4/9.18 A	Moment of inertia (J)	: 0.0566 kgm²
LRC	: 7.1 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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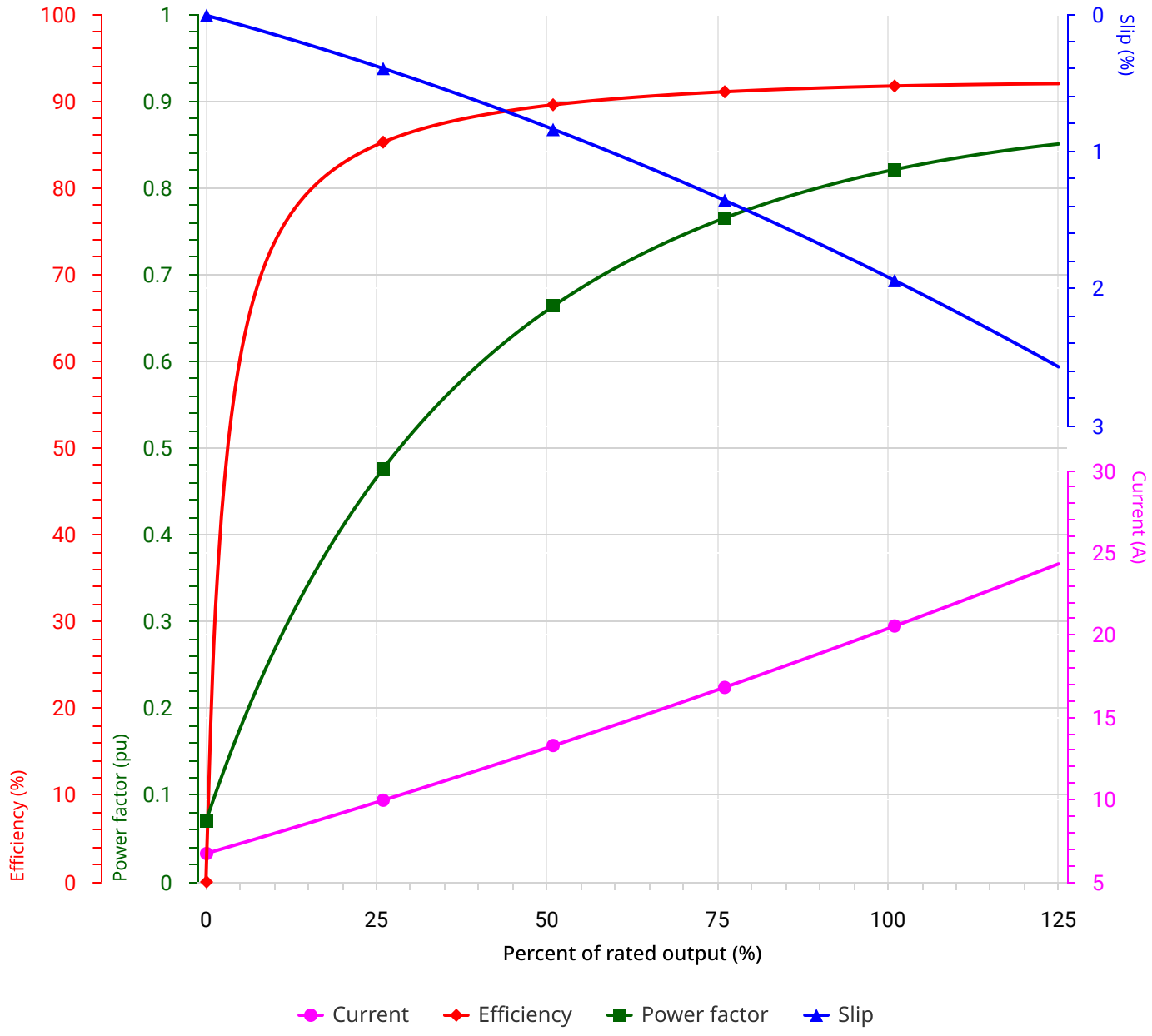

Performance	: 7.5 HP (5.5 kW) 208V 60Hz 4P 213TC

Rated current	: 19.9 A	Moment of inertia (J)	: 0.0566 kgm²
LRC	: 7.1 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 3.00 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: 00002

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