DATA SHEET

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer :

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

Frame	: 213T
Output	: 7.5 HP (5.5 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 230/460 V
Rated current	: 18.4/9.18 A
L. R. Amperes	: 130/65.2 A
LRC	: 7.1 Code H
No load current	: 7.80/3.90 A
Rated speed	: 1765 rpm
Slip	: 1.94 %
Rated torque	: 3.08 kgfm
Locked rotor torque	: 220 %
Pull up torque	: 195 %
Breakdown torque	: 280 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.0566 kgm²

Locked rotor time	: 20 s (hot) 36 s (cold)
Temperature rise[4]	: 80 K
Duty cycle	: S1
Ambient temperature	: -20 °C to +40 °C
Altitude	: 1000 m.a.s.l
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: B34T
Rotation[1]	: Both
Noise level[2]	: 58 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 70.0 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	89.5	91.0	91.7
Power Factor	0.51	0.66	0.76	0.82

Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -

	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:

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
10.21	9.02	8.45	4.85	3.56	2.38	1.74

Standards

Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
Noise	: MG1 - Part 9		

This revision replaces and cancel the previous one, which must be eliminated..
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +0dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

Rev.	Changes Summary	Performed	Checked	Date
				2026/10/22

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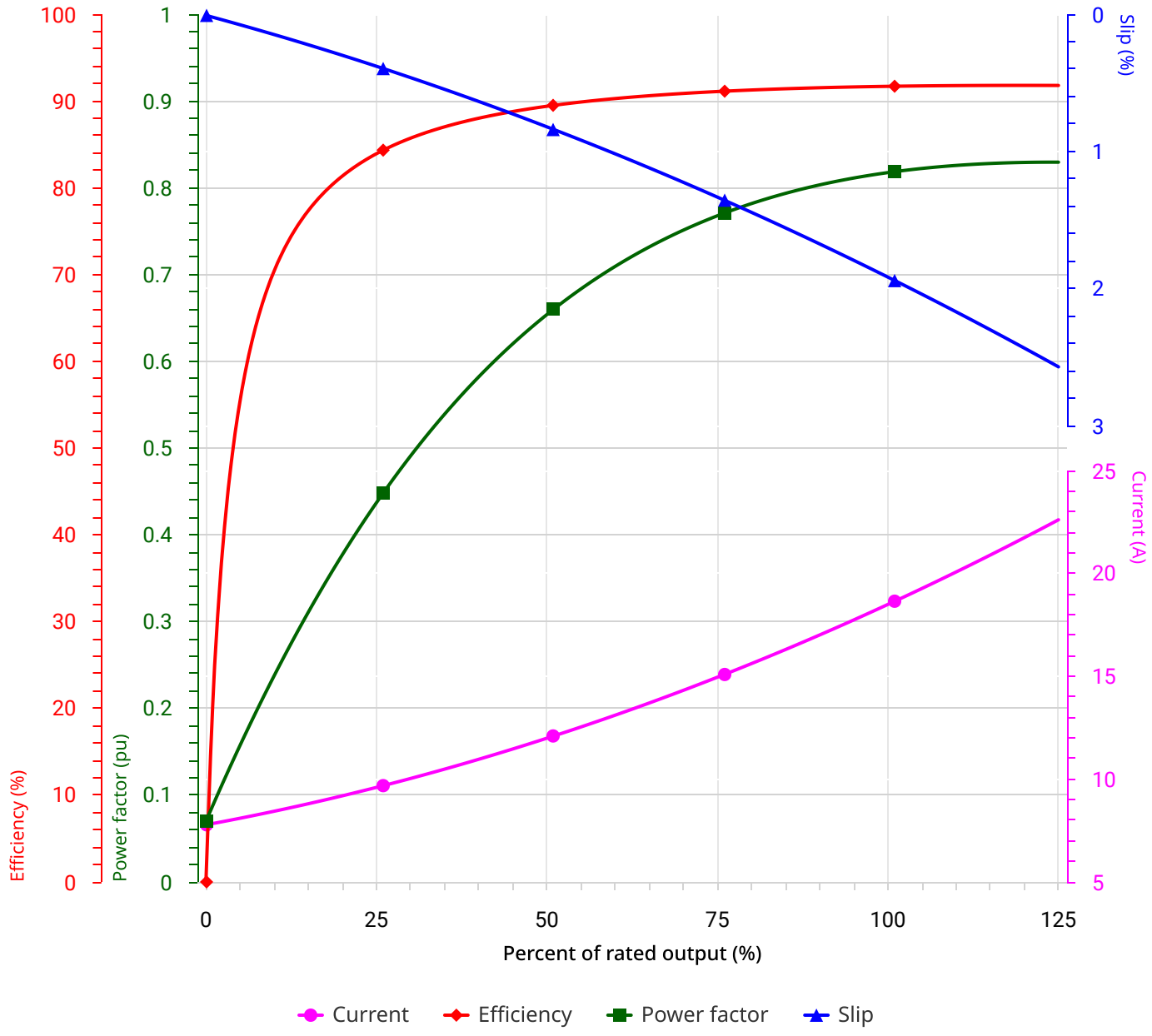
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

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



Performance	: 7.5 HP (5.5 kW) 208/230/460V 60Hz 4P 213T

Rated current	: 19.9/18.4/9.18 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

Rev.	Changes Summary	Performed	Checked	Date
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