DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency

Frame	: 182/4T	Locked rotor time	: 17 s (hot) 31 s (cold)
Output	: 5 HP (3.7 kW)	Temperature rise[4]	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l
Rated current	: 11.8/5.90 A	Protection degree	: IP55
L. R. Amperes	: 89.7/44.8 A	Cooling method	: IC411 - TEFC
LRC	: 7.6 Code J	Mounting	: B3R(D)
No load current	: 4.00/2.00 A	Rotation[1]	: Both
Rated speed	: 3500 rpm	Noise level[2]	: 66 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 1.04 kgfm	Approx. weight[3]	: 45.3 kg
Locked rotor torque	: 230 %	Design	: B
Pull up torque	: 195 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0094 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	86.5	88.3	88.5
Power Factor	0.55	0.76	0.85	0.89

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

	Drive end	Non drive end
Bearing type	6207-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads
Max. traction : 53 kgf
Max. compression : 98 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)
12.45	10.27	9.84	6.23	3.90	2.50	1.60

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
				2026/11/12

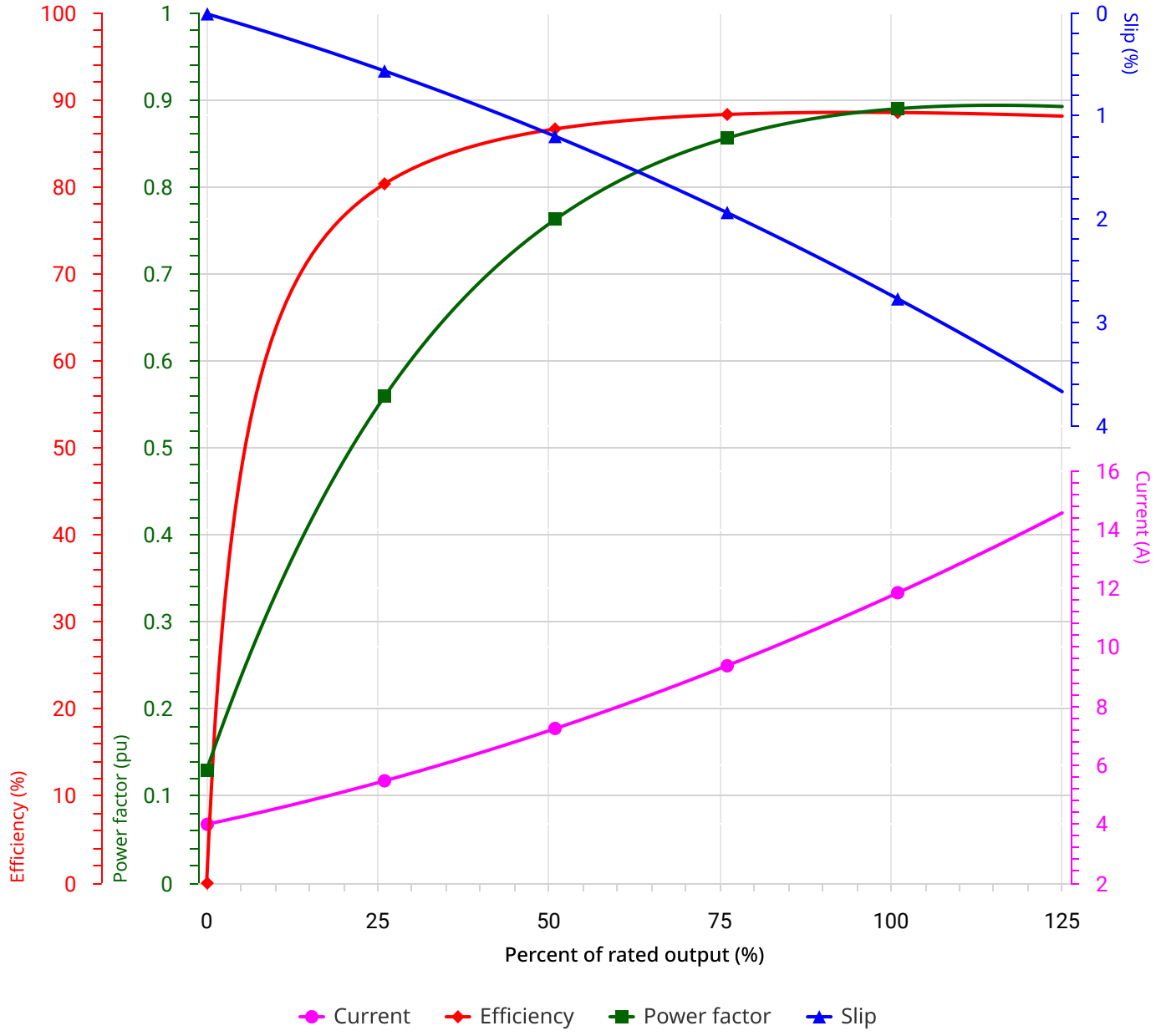
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency



Performance	: 5 HP (3.7 kW) 208/230/460V 60Hz 2P 182/4T

Rated current	: 13.1/11.8/5.90 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.04 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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