DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency

Frame	: 324/6TS	Locked rotor time	: 22 s (hot) 40 s (cold)
Output	: 40 HP (30 kW)	Temperature rise[4]	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l
Rated current	: 38.4 A	Protection degree	: IP55
L. R. Amperes	: 242 A	Cooling method	: IC411 - TEFC
LRC	: 6.3 Code G	Mounting	: B3R(D)
No load current	: 12.4 A	Rotation[1]	: Both
Rated speed	: 3560 rpm	Noise level[2]	: 76 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 8.15 kgfm	Approx. weight[3]	: 248 kg
Locked rotor torque	: 230 %	Design	: B
Pull up torque	: 170 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.2063 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	91.7	92.4	92.4
Power Factor	0.43	0.74	0.82	0.85

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

	Drive end	Non drive end
Bearing type	6312-C3	6212-C3
Lubrication interval	12000 h	15000 h
Lubricant amount	21 g	13 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 129 kgf
Max. compression	: 377 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)
7.87	5.34	4.44	5.31	2.89	2.34	1.40

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

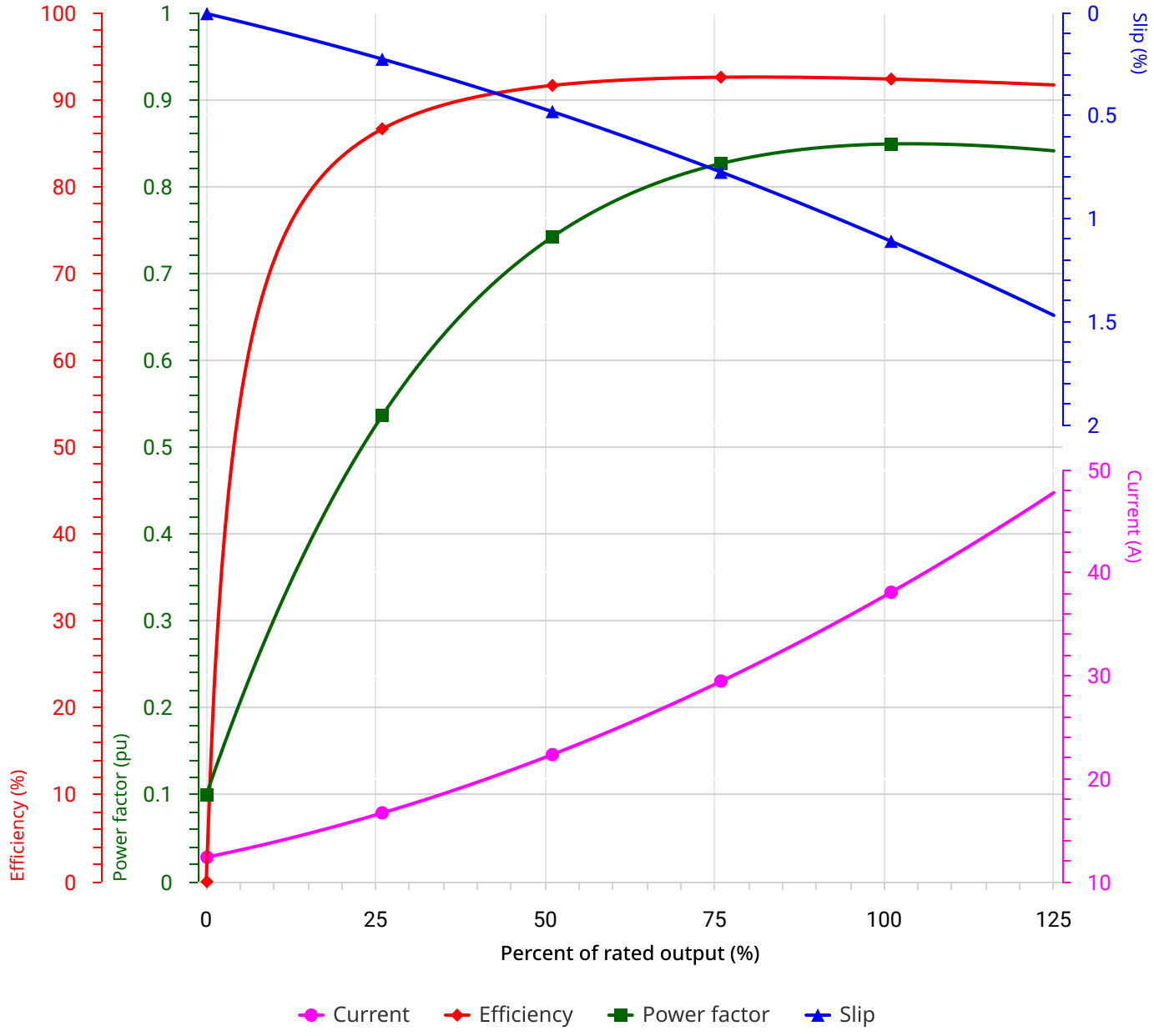
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency



Performance	: 40 HP (30 kW) 575V 60Hz 2P 324/6TS

Rated current	: 38.4 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 8.15 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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