

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : _____

Product line : W22 - Nema Premium Efficiency
 Product code : 17371581

Frame	: 504/5T	Locked rotor time	: 20 s (hot) 36 s (cold)
Output	: 250 HP (185 kW)	Temperature rise ⁴	: 80 K
Poles	: 4	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	: 225 A	Protection degree	: IP55
L. R. Amperes	: 1459 A	Cooling method	: IC411 - TEFC
LRC	: 6.5 Code G	Mounting	: B3R(D)
No load current	: 64.0 A	Rotation ¹	: Both
Rated speed	: 1787 rpm	Noise level ²	: 75 dB(A)
Slip	: 0.72 %	Vibration class	: B
Rated torque	: 1000 Nm	Starting method	: Direct On Line
Locked rotor torque	: 230 %	Approx. weight ³	: 1111 kg
Pull up torque	: 175 %	Painting plan	: 203A
Breakdown torque	: 220 %	Color	: RAL 5009
Insulation class	: F	Design	: A
Service factor	: 1.15		
Moment of inertia (J)	: 3.77 kgm ²		

Output	Start	50%	75%	100%	Load type	: -
Efficiency (%)	-	95.8	96.2	96.2	Load torque	: -
Power Factor	0.37	0.77	0.83	0.86	Load inertia (J=GD ² /4)	: -

Bearing type	Drive end	Non drive end	Foundation loads			
	NU-322-C3	6316-C3		Max. traction	: 11575 N	
	Lubrication interval	4000 h		10000 h	Max. compression	: 22470 N
	Lubricant amount	60 g		34 g		
Lubricant type	MOBIL POLYREX EM					

Notes:
 See notes on page 2.

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)
3.96	3.02	2.55	2.33	1.48	1.12	0.66

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 +3dB(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
				29/05/2026
Performed by	t-omars			159970/2026
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 Wires	1 x Phase	155 °C

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.

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

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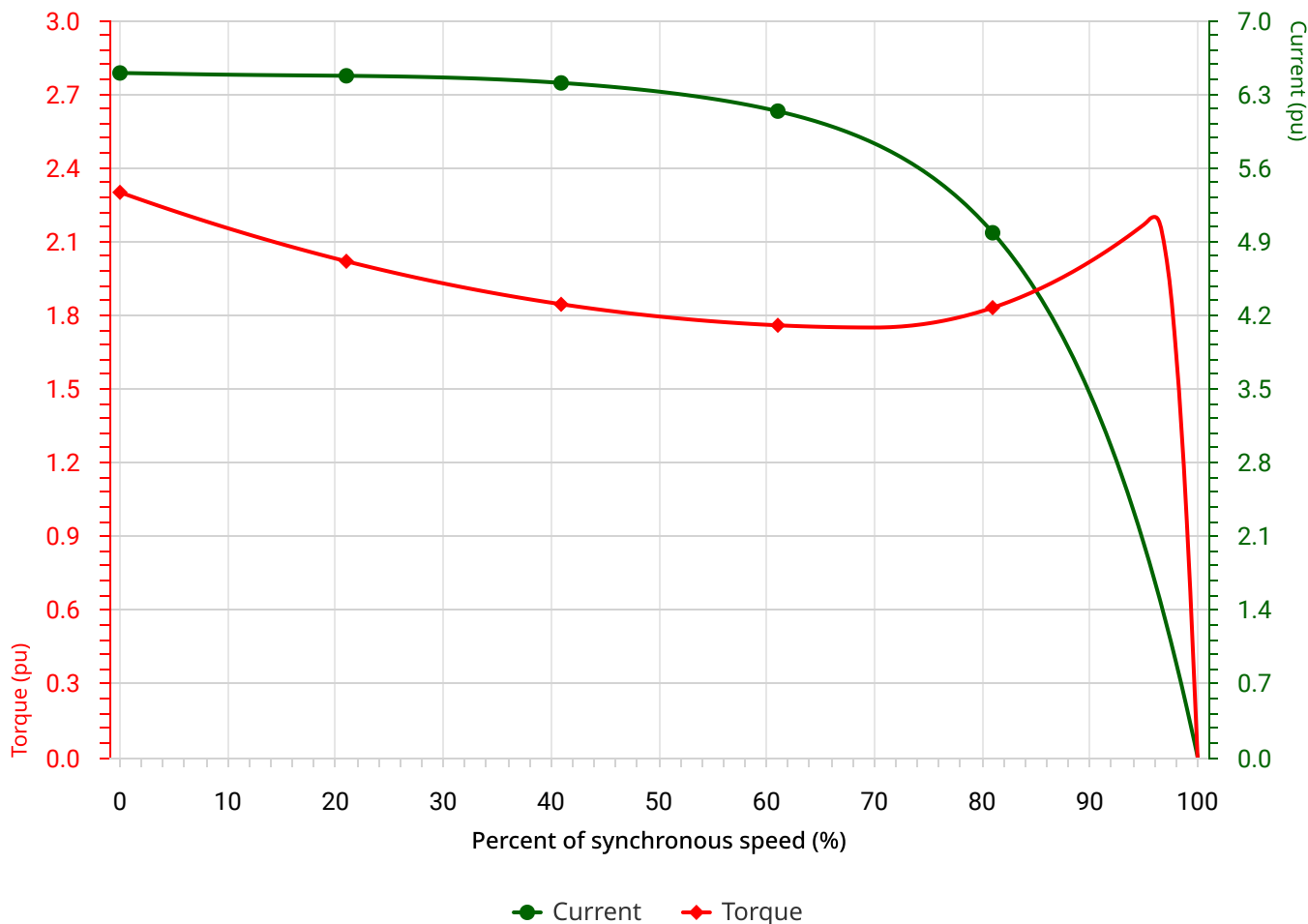
TORQUE AND CURRENT VS SPEED CURVE



Three Phase Induction Motor - Squirrel Cage

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Performance : 250 HP (185 kW) 575V 60Hz 4P 504/5T

Rated current : 225 A	Moment of inertia (J) : 3.77 kgm ²
LRC : 6.5 Code G	Duty cycle : Cont.(S1)
Rated torque : 1000 Nm	Insulation class : F
Locked rotor torque : 230 %	Service factor : 1.15
Breakdown torque : 220 %	Temperature rise : 80 K
Rated speed : 1787 rpm	Design : B

Locked rotor time 100%	: 20 s (hot) 36 s (cold)
Allowable run up time 100%	: 16 s (hot) 29 s (cold)
Load Inertia (J=GD ² /4)	: 3.77 kgm ²

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