

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : V.J. PAMENSKY CANADA INC.

Product line : W22 - Nema Premium Efficiency (Centro 3100)

Frame	: 254/6TCZ	Locked rotor time	: 40 s (hot) 72 s (cold)
Output	: 15 HP (11 kW)	Temperature rise ⁴	: 105 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l
Rated current	: 14.4 A	Degree of protection	: IP55
L. R. Amperes	: 92.2 A	Cooling method	: IC410 - TENV
LRC (p.u.)	: 6.4 Code G	Mounting	: F-1
No load current	: 5.60 A	Direct of rotation ¹	: Both
Rated speed	: 1770 rpm	Starting method	: VFD
Slip	: 1.67 %	Approx. weight ³	: 114 kg
Rated torque	: 6.15 kgfm	Design	: B
Locked rotor torque	: 240 %		
Pull up torque	: 200 %		
Breakdown torque	: 260 %		
Insulation class	: H		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1113 kgm ²		

Output	Start	50%	75%	100%	Load type	: Parabolic torque
Efficiency (%)	-	91.0	91.7	92.4	Load torque	: 6.07 kgfm
Power factor	0.48	0.68	0.78	0.83	Load inertia (J=GD ² /4)	: 0.1113 kgm ²

Operation limits with inverter	Maximum peak voltage phase-to-phase <= 2400 V
6 Hz up to 60 Hz (Variable torque): 6.07 kgfm	dV/dt <= 7800 V/μs
	Rise time >= 0,1 μs

	Drive end	Non drive end	Foundation loads
Bearing type	6309-C3	6209-C3	Maximum traction : 192 kgf
Lubrication interval	20000 h	20000 h	Maximum compression : 306 kgf
Lubricant amount	13 g	9 g	
Lubricant type	MOBIL POLYREX EM		

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)
8.0	6.8	6.2	3.9	2.7	1.8	1.2

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

This revision replaces and cancels the previous one, which must be eliminated.

- (1) When viewed from the drive end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At the rated point.

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

Rev.	Summary of changes		Performed	Checked	Date
Performed by	ialejandra			865340/2024	
Checked by	barrios			Page	Revision
Date	20/12/2024			1/2	0

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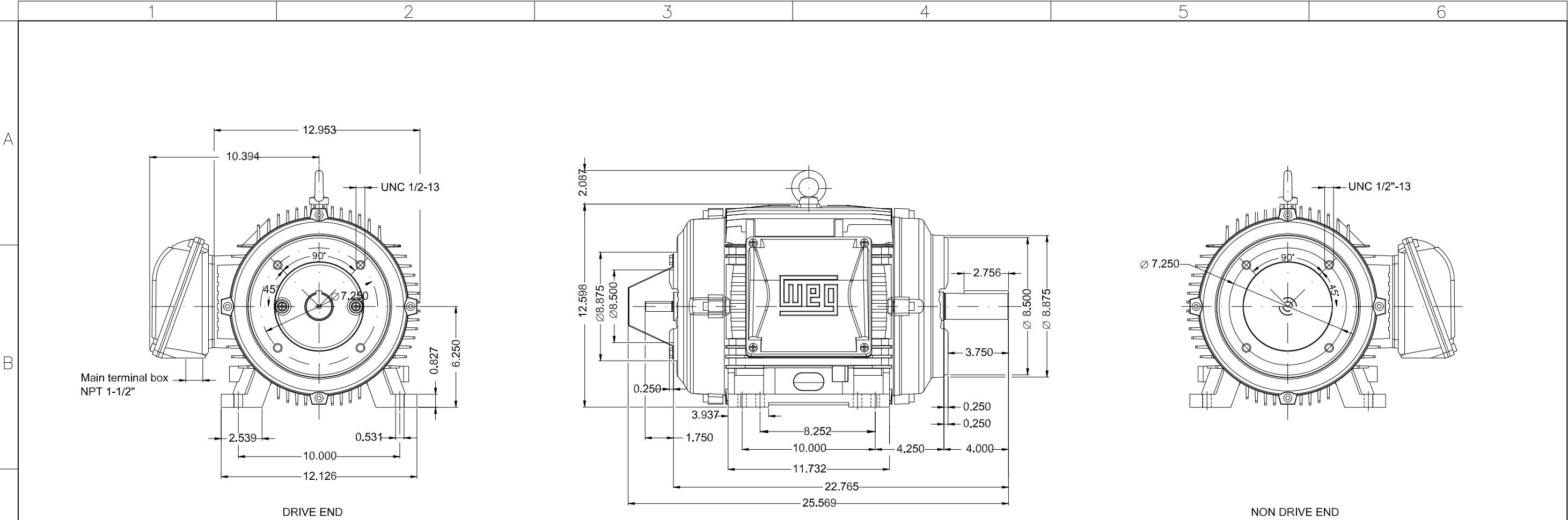
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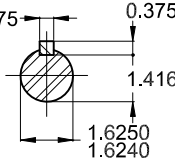
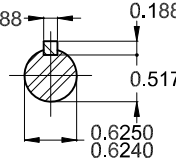
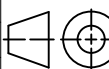
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Performed by	ialejandra			865340/2024	
Checked by	barrios			Page	Revision
Date	20/12/2024			2/2	0

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Without fan Thermal protection to switch off - thermostat 155°C Without fan cover Color RAL 5009 Painting plan 203A Service factor 1.0 Mounting NEMA F-1 Mounting B34D		DE Shaft End 		NDE Shaft End 		15 HP 04 Poles 60 Hz										A				
						V.J. PAMENSKY CANADA INC.														
						INITIAL ISSUE										BARRAZA	IGNACIOS	RIOMIGUEL	17.01.2025	00
						ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER				
EXECUTED	BARRAZA		THREE PH. MOTOR W22 NEMA PREM. EFF.				1635296410													
CHECKED	IGNACIOS		FRAME 254/6TCZ IP55 TENV				WDD 00													
RELEASED	RIOMIGUEL																			
REL. DATE	17.01.2025	WEG	HUEHUETOCA [Ventas Exportacion]				SHEET 1 / 1													