

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : V.J. PAMENSKY CANADA INC.

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

Frame	: 182/4TCZ	Locked rotor time	: 19 s (hot) 35 s (cold)
Output	: 5 HP (3.7 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	: 5.69 A	Degree of protection	: IP55
L. R. Amperes	: 54.1 A	Cooling method	: IC410 - TENV
LRC (p.u.)	: 9.5 Code M	Mounting	: F-1
No load current	: 3.30 A	Direct of rotation ¹	: Both
Rated speed	: 1762 rpm	Starting method	: VFD
Slip	: 2.11 %	Approx. weight ³	: 43.0 kg
Rated torque	: 2.06 kgfm	Design	: A
Locked rotor torque	: 340 %		
Pull up torque	: 195 %		
Breakdown torque	: 420 %		
Insulation class	: H		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0169 kgm ²		

Output	Start	50%	75%	100%	Load type	: Parabolic torque
Efficiency (%)	-	88.5	89.5	89.5	Load torque	: 2.05 kgfm
Power factor	0.58	0.51	0.64	0.73	Load inertia (J=GD ² /4)	: 0.0169 kgm ²

Operation limits with inverter	Maximum peak voltage phase-to-phase <= 2400 V
6 Hz up to 60 Hz (Variable torque): 2.05 kgfm	dV/dt <= 7800 V/μs
	Rise time >= 0,1 μs

	Drive end	Non drive end	Foundation loads
Bearing type	6207-ZZ	6206-ZZ	Maximum traction : 158 kgf
Lubrication interval	-	-	Maximum compression : 201 kgf
Lubricant amount	-	-	
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)
11.2	9.4	8.7	5.3	3.7	2.4	1.7

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	865216/2024			
Checked by	barrios				
Date	20/12/2024				
			Page	Revision	
			1/2	1	

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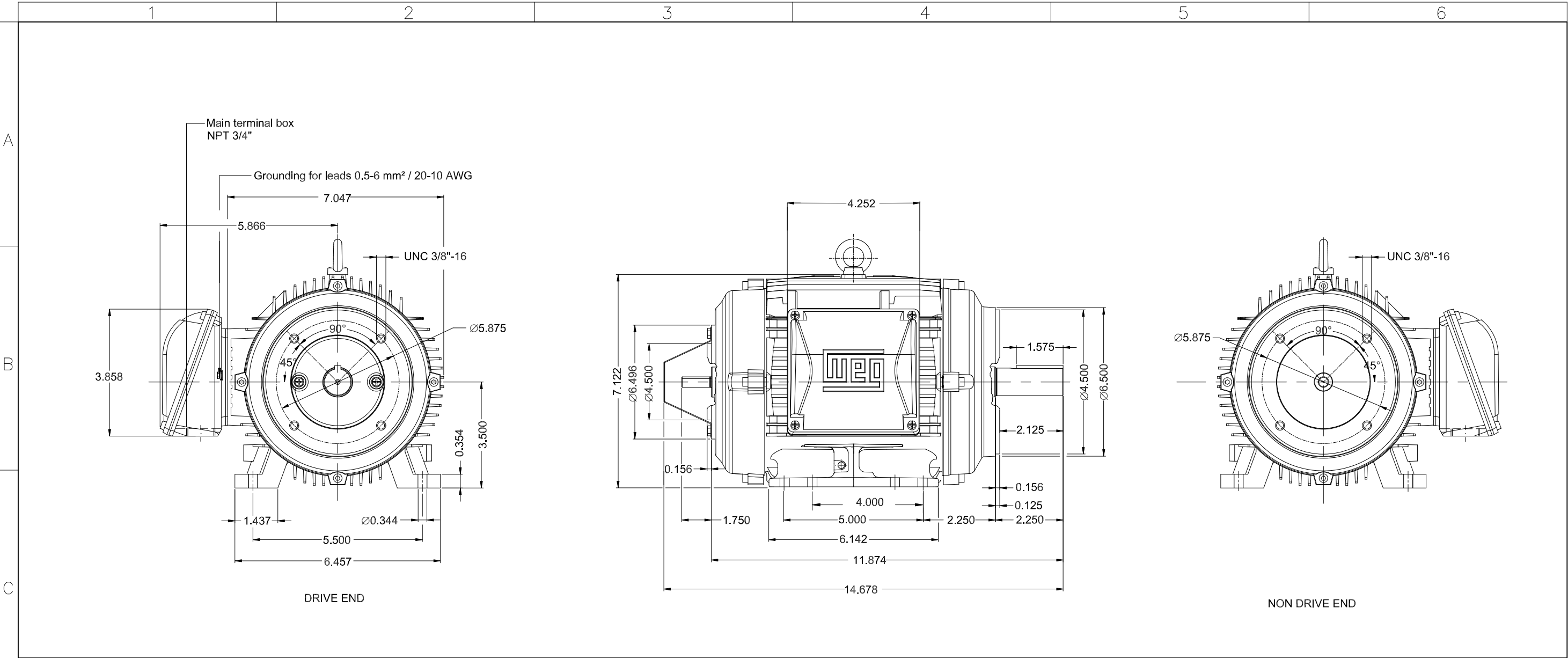
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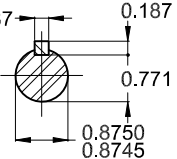
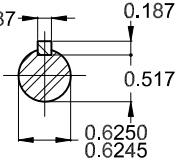
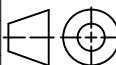
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Performed by	ialejandra			865216/2024	
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Date	20/12/2024			2/2	1

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D																	
E	Without fan																
	Bearing cap																
	Thermal protection to switch off - thermostat 155°C																
	Without fan cover																
	Color RAL 5009																
	Painting plan 207A																
	Service factor 1.0																
	Mounting NEMA F-1																
	Mounting B34D																
DE Shaft End 				NDE Shaft End 													
5 HP 04 Poles 60 Hz																	
V.J. PAMENSKY CANADA INC.																	
						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. FRAME 182/4TCZ IP55 TENV				1635257902									
CHECKED		IGNACIOS															
RELEASED		RIOMIGUEL															
REL. DATE		17.01.2025		WEG		HUEHUETOCA				[Ventas Exportacion]				SHEET		1 / 1	