

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : Special Motor

Frame	: 56J	Locked rotor time	: 10 s (hot) 18 s (cold)
Output	: 5 HP (3.7 kW)	Temperature rise	: 105 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 575 V	Altitude	: 3280 ft
Rated current	: 4.99 A	Protection degree	: IP21
L. R. Amperes	: 49.9 A	Cooling method	: IC01 - ODP
LRC	: 10.0 Code L	Mounting	: F-1/B34R(D)
No load current	: 2.10 A	Rotation ¹	: Counter clockwise
Rated speed	: 3500 rpm	Noise level ²	: 57.0 dB(A)
Slip	: 2.78 %	Vibration class	: A
Rated torque	: 7.52 ft.lb	Starting method	: Direct On Line
Locked rotor torque	: 390.0 %	Approx. weight ³	: 54.0 lb
Pull up torque	: 330.0 %	Painting plan	: 207N
Breakdown torque	: 380.0 %	Color	: MUNSELL N 1 - MATTE
Insulation class	: F	Design	: A
Service factor	: 1.15		
Moment of inertia (J)	: 0.1376 sq.ft.lb		

Output	50%	75%	100%
Efficiency (%)	82.0	85.5	86.5
Power Factor	0.68	0.80	0.86

Load type	: -
Load torque	: -
Load inertia (J=GD ² /4)	: -

	Drive end	Non drive end
Bearing type #1	6204-2RS	6202-2RS
Bearing type #2	-	-
Lubrication interval	-	-
Lubricant amount #1	-	-
Lubricant amount #2	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	:
Max. compression	:

Notes

See notes on page 2.

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.

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

Rev.	Changes Summary		Rev.	Checked	Date
Performed by	farazq		1866135423		
Checked by	AUTOMATICO		Page	Rev.	
Date	26/06/2026		1 / 2	0	

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Thermal protection ID	Application	Type	Quantity	Sensing Temperature
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Notes

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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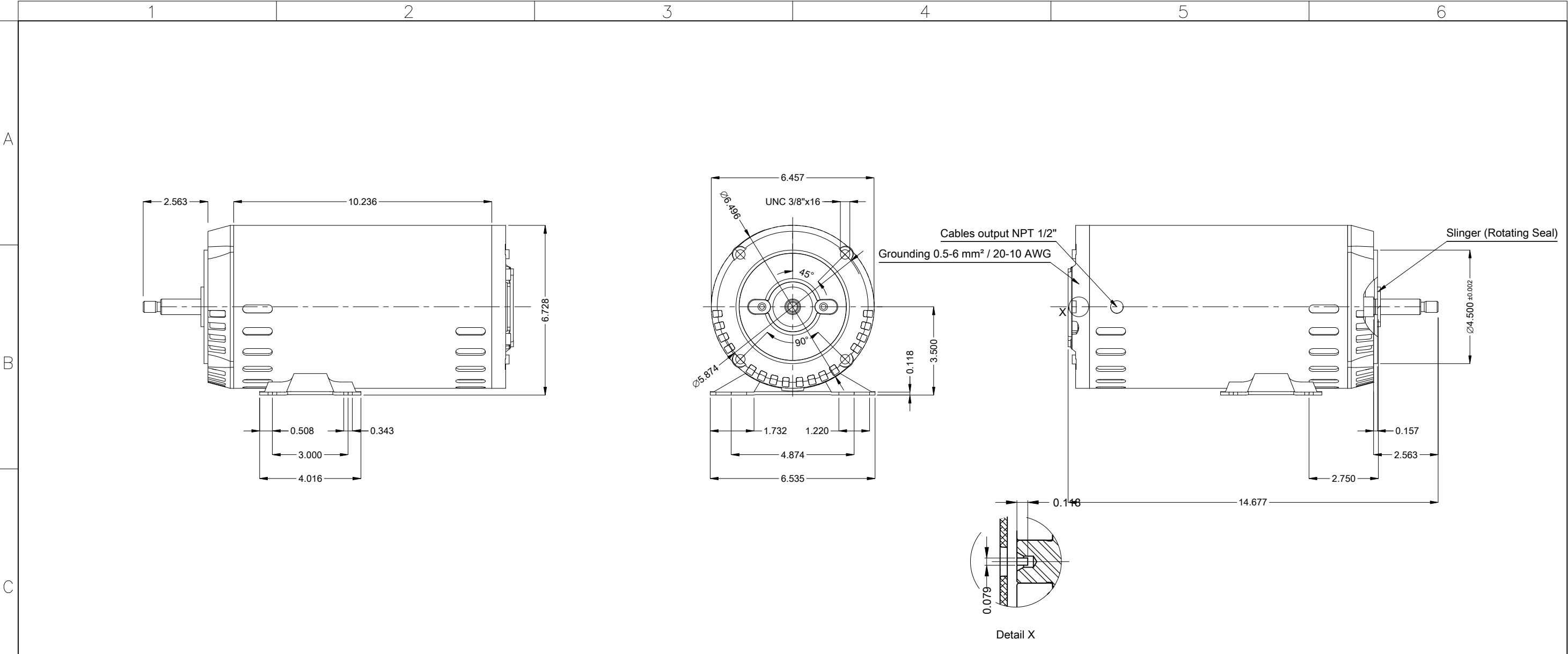
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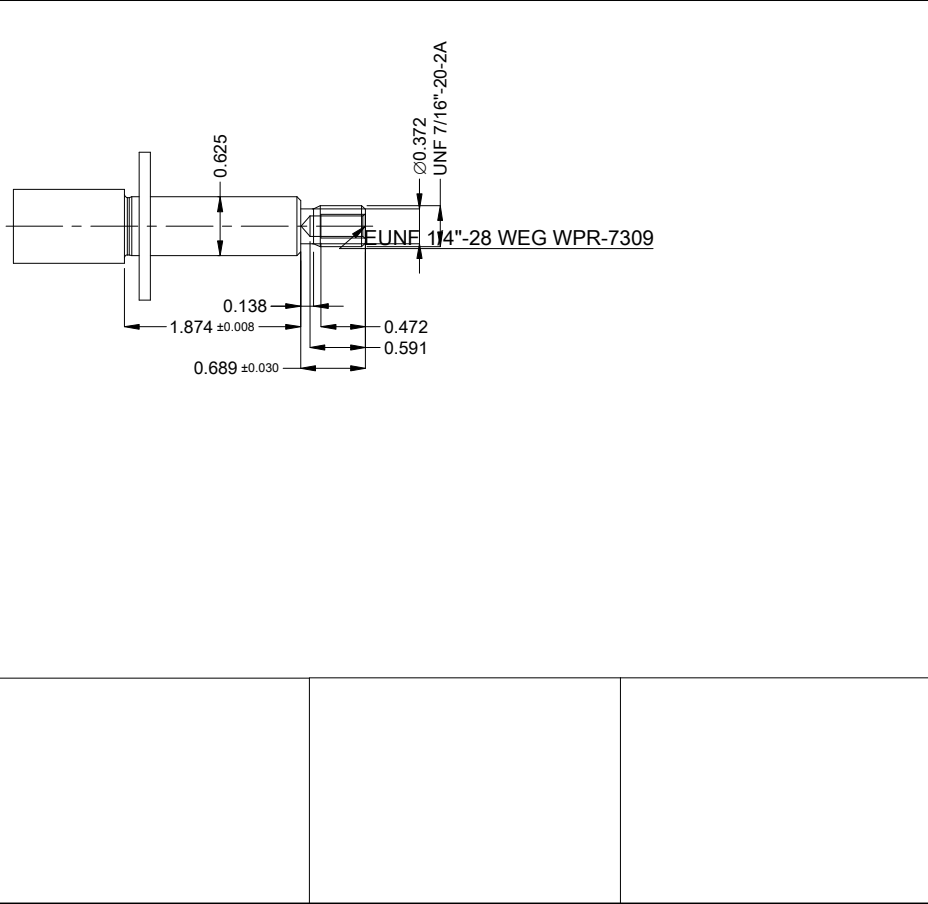
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D	
	Design A
	Dipping impregnation - polyester
	Counterclockwise rotation
	Shaft material - stainless steel AISI 304
	Supplied without key
	Slinger ring on shaft end
	2RS NDE ball bearing
	2RS DE ball bearing
E	Without overload protector at bearing
	Without alarm thermal protection
	Without switch off thermal protection
	Color Munsell N 1 matte black
	Painting plan 207N
	Mounting MARKET F-1/B34R(D)
	Mounting B34D



5 HP 02 Poles 60 Hz										A
V.J. PAMENSKY CANADA INC.										
Scale 1 : 4										
PIRWUSER										00
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	PIRWUSER	THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED NEMA DREW OFF					PREVIEW			
CHECKED		FRAME 56J IP21 ODP					WDD 00			
RELEASED										
REL. DATE							SHEET 1 / 1			