

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W22 Cooling Tower - TEFC - NEMA Premium Efficiency

Frame	: 324T	Locked rotor time	: 20 s (hot) 36 s (cold)
Output	: 40 HP (30 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 575 V	Altitude	: 3280 ft
Rated current	: 37.7 A	Protection degree	: IP55
L. R. Amperes	: 230 A	Cooling method	: IC418 - TEAO
LRC	: 6.1	Minimum air speed over motor	: 13.6 m/s
No load current	: 13.8 A	Mounting	: F-1
Rated speed	: 1775 rpm	Rotation ¹	: Both
Slip	: 1.39 %	Noise level ²	: 66.0 dB(A)
Rated torque	: 116 ft.lb	Vibration class	: A
Locked rotor torque	: 230 %	Starting method	: Direct On Line
Pull up torque	: 170 %	Coupling	: Direct
Breakdown torque	: 240 %	Approx. weight ³	: 504 lb
Insulation class	: F	Painting plan	: 222E
Service factor	: 1.25	Color	: RAL 5009
Moment of inertia (J)	: 9.16 sq.ft.lb	Design	: B

Output	50%	75%	100%
Efficiency (%)	93.6	94.1	94.1
Power Factor	0.72	0.80	0.85

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

	Drive end	Non drive end
Bearing type #1	6312-2RS-C3	6212-2RS-C3
Bearing type #2	-	-
Lubrication interval	-	-
Lubricant amount #1	-	-
Lubricant amount #2	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads	
Max. traction	: 3657 N
Max. compression	: 5900 N

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)
6.2	5.4	4.9	2.8	2.0	1.3	0.9

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.

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			1868684941	
Checked by	AUTOMATICO			Page	Rev.
Date	02/07/2026			1 / 2	0

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Customer : V.J. PAMENSKY CANADA INC.

Product line : W22 Cooling Tower - TEFC - NEMA Premium
Efficiency

Space heater information
Voltage: 110-127/200-240 V
Output: 32-43/27-38 W

Notes

Customer information
CSA
Class I, Div 2, Gr A, B, C, D, 1.15SF - T3
Class I, Zone 2, IIC, 1.15SF - T3
Class II, Div 2, Gr F, G - T4
For use on PWM: Gr. A, B, C, D, F,
VT 1000:1, CT 20:1, 1.00SF - T3

Standards

Specification : MG1 - Part 10
Test : MG1 - Part 12
Noise : MG1 - Part 9

Vibration : MG1 - Part 7
Tolerance : MG1 - Part 12

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