

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W01 - TEAO - Grain Dryer

Product code : 18617209

Frame	: 182/4TZ	Cooling method	: IC418 - TEAO
Insulation class	: F	Minimum air speed over motor	: 16.8 m/s
Duty cycle	: S1	Mounting	: F-3/B3T
Ambient temperature	: -20 °C to +40 °C	Rotation ¹	: Both
Altitude	: 3280 ft	Starting method	: Direct On Line
Protection degree	: IP55	Approx. weight ³	: 0.0 lb
		Moment of inertia (J)	: 0.0000 sq.ft.lb

Output		5 HP (3.7 kW)	7.5 HP (5.5 kW)
Poles		2	2
Frequency		60 Hz	60 Hz
Rated voltage		230 V	230 V
Rated current		19.8 A	29.1 A
L. R. Amperes		224 A	224 A
LRC		11.3	7.7
No load current		4.90 A	4.90 A
Rated speed		3547 rpm	3508 rpm
Slip		1.47 %	2.56 %
Rated torque		7.31 ft.lb	11.1 ft.lb
Locked rotor torque		300 %	200 %
Pull up torque		255 %	170 %
Breakdown torque		410 %	260 %
Service factor		1.00	1.00
Temperature rise		80 K	105 K
Noise level ²		72.0 dB(A)	72.0 dB(A)
Locked rotor time (hot)		7 s	5 s
Locked rotor time (cold)		13 s	9 s
Efficiency (%)	50%	73.4	79.3
	75%	79.9	83.2
	100%	82.9	83.9
Power Factor	50%	0.95	0.97
	75%	0.97	0.98
	100%	0.98	0.98

	Drive end	Non drive end	Foundation loads
Bearing type	6206-ZZ	6205-ZZ	Max. traction : -
Lubrication interval	-	-	Max. compression : -
Lubricant amount	-	-	Load type : -
Lubricant type	MOBIL POLYREX EM		Load torque : -
			Load inertia (J=GD ² /4) : -

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.

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Performed by	farazq			1847384882	
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Thermal protection	ID	Application	Type	Quantity
	1	Winding	Thermostat - 2 wires	1 x Phase
				Sensing Temperature
				155°C

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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