

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W01 - TEAO - Grain Dryer

Product code : 18366731

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	7.5 HP (5.5 kW)		10 HP (7.5 kW)
Poles	2		2
Frequency	60 Hz		60 Hz
Rated voltage	230 V		230 V
Rated current	30.0 A		39.5 A
L. R. Amperes	315 A		316 A
LRC	10.5		8.0
No load current	12.3 A		12.3 A
Rated speed	3540 rpm		3490 rpm
Slip	1.67 %		3.06 %
Rated torque	11.0 ft.lb		14.8 ft.lb
Locked rotor torque	250 %		190 %
Pull up torque	210 %		160 %
Breakdown torque	470 %		340 %
Service factor	1.00		1.00
Temperature rise	105 K		105 K
Noise level ²	72.0 dB(A)		72.0 dB(A)
Locked rotor time (hot)	9 s		6 s
Locked rotor time (cold)	16 s		11 s
Efficiency (%)	50%	73.1	78.0
	75%	79.8	83.0
	100%	83.0	85.0
Power Factor	50%	0.92	0.94
	75%	0.95	0.96
	100%	0.96	0.97

	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			1847389405	
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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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