

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W01 - TEAO - Grain Dryer

Product code : 13248532

Frame	: 143/5TZ	Cooling method	: IC418 - TEAO
Insulation class	: F	Minimum air speed over motor	: 12.1 m/s
Duty cycle	: S1	Mounting	: F-3/B3T
Ambient temperature	: -20 °C to +40 °C	Rotation ¹	: Counter clockwise
Altitude	: 3280 ft	Starting method	: Direct On Line
Protection degree	: IP55	Approx. weight ³	: 35.9 lb
Design	: B	Moment of inertia (J)	: 0.1092 sq.ft.lb

Output	1.5 HP (1.1 kW)		3 HP (2.2 kW)
Poles	2		2
Frequency	60 Hz		60 Hz
Rated voltage	208-230/460 V		208-230/460 V
Rated current	5.33-4.82/2.41 A		8.40-7.60/3.80 A
L. R. Amperes	61.3-55.4/27.7 A		60.5-54.7/27.4 A
LRC	11.5		7.2
No load current	2.99-3.47/1.73 A		2.98-3.46/1.73 A
Rated speed	3550 rpm		3480 rpm
Slip	1.39 %		3.33 %
Rated torque	2.19 ft.lb		4.46 ft.lb
Locked rotor torque	450 %		220 %
Pull up torque	380 %		185 %
Breakdown torque	620 %		290 %
Service factor	1.00		1.00
Temperature rise	105 K		105 K
Noise level ²	68.0 dB(A)		68.0 dB(A)
Locked rotor time (hot)	15 s		10 s
Locked rotor time (cold)	27 s		18 s
Efficiency (%)	50%	69.5	79.3
	75%	76.3	81.7
	100%	79.7	81.7
Power Factor	50%	0.51	0.73
	75%	0.63	0.84
	100%	0.72	0.89

Bearing type Lubrication interval Lubricant amount Lubricant type	Drive end	Non drive end	Foundation loads
	6205-ZZ	6203-ZZ	Max. traction :
	-	-	Max. compression :
	-	-	Load 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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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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