

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.

Rev.	Changes Summary	Rev.	Checked	Date
Performed by	farazq	1847394230		
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	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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