

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W01 - TEAO - Grain Dryer

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	: Counter clockwise
Altitude	: 3280 ft	Starting method	: Direct On Line
Protection degree	: IP55	Approx. weight ³	: 74.5 lb
Design	: B	Moment of inertia (J)	: 0.1922 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	208-230/460 V	208-230/460 V	
Rated current	14.3-12.9/6.45 A	19.6-17.7/8.86 A	
L. R. Amperes	160-144/72.2 A	159-144/71.8 A	
LRC	11.2	8.1	
No load current	4.83-5.60/2.80 A	4.83-5.60/2.80 A	
Rated speed	3535 rpm	3495 rpm	
Slip	1.81 %	2.92 %	
Rated torque	7.31 ft.lb	11.1 ft.lb	
Locked rotor torque	390 %	260 %	
Pull up torque	330 %	220 %	
Breakdown torque	520 %	350 %	
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)	14 s	7 s	
Locked rotor time (cold)	25 s	13 s	
Efficiency (%)	50%	83.6	86.7
	75%	86.7	87.9
	100%	87.8	87.5
Power Factor	50%	0.61	0.74
	75%	0.74	0.84
	100%	0.82	0.89

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	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)	
	Drive end	Non drive end	Drive end	Non drive end	Drive end	Non drive end	Drive end	Non drive end	Drive end	Non drive end	Drive end	Non drive end	Drive end	Non drive end
		12.7		13.0		8.6		8.8		7.3		7.6		7.6
		8.4		8.6		4.5		4.6		3.5		3.6		3.6
		2.0		2.0										

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

Notes
See notes on page 2.

Rev.	Changes Summary		Rev.	Checked	Date
Performed by	farazq		1850603926		
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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	Vibration
	: MG1 - Part 10	: MG1 - Part 7
	Test : MG1 - Part 12	Tolerance : MG1 - Part 12
	Noise : MG1 - Part 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.

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