

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	: 74.1 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	575 V	575 V	
Rated current	5.16 A	7.09 A	
L. R. Amperes	57.8 A	57.4 A	
LRC	11.2	8.1	
No load current	2.24 A	2.24 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)	12.7	13.0
	P2(0,5;1,0)	8.6	8.8
	P3(0,25;1,0)	7.3	7.6
	P4(0,9;0,5)	8.4	8.6
	P5(0,5;0,5)	4.5	4.6
	P6(0,5;0,25)	3.5	3.6
	P7(0,25;0,25)	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			1850604889
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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		

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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