

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Grain Dryer Standard Efficiency Three-Phase Product code : 13184647

Frame	: 182/4TZ	Cooling method	: IC418 - TEAO
Insulation class	: F	Mounting	: F-3
Duty cycle	: Cont.(S1)	Rotation ¹	: CCW
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 88.9 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.2183 sq.ft.lb
Design	: B		

Output [HP]	10	7.5
Poles	2	2
Frequency [Hz]	60	60
Rated voltage [V]	208-230/460	208-230/460
Rated current [A]	26.1-23.6/11.8	20.0-18.1/9.04
L. R. Amperes [A]	191-172/86.1	190-172/85.9
LRC [A]	7.3x(Code H)	9.5x(Code L)
No load current [A]	6.21-7.20/3.60	6.21-7.20/3.60
Rated speed [RPM]	3480	3520
Slip [%]	3.33	2.22
Rated torque [ft.lb]	15.1	11.2
Locked rotor torque [%]	229	320
Breakdown torque [%]	320	440
Service factor	1.00	1.00
Temperature rise	105 K	105 K
Locked rotor time	16s (cold) 9s (hot)	18s (cold) 10s (hot)
Noise level ²		
Efficiency (%)	25%	0.000
	50%	89.3
	75%	89.4
	100%	88.3
Power Factor	25%	0.00
	50%	0.76
	75%	0.86
	100%	0.90

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6206 ZZ	6205 ZZ	Max. traction : 270 lb
Sealing	: V'Ring	Without	Max. compression : 359 lb
		Bearing Seal	
Lubrication interval	: 0 h	0 h	
Lubricant amount	: 0 g	0 g	
Lubricant type	: Mobil Polyrex EM		

Notes

Minimum Air flow @ 7.5 HP - 23.1 m/s
Minimum Air flow @ 10. HP - 28.3 m/s

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 changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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