

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Grain Dryer Standard Efficiency Three-Phase Product code : 13207634
Catalog # : 00736AP3FGD184TZ-S

Frame	: 182/4TZ	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 105 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 14.3-12.9/6.45 A	Protection degree	: IP55
L. R. Amperes	: 160-144/72.2 A	Cooling method	: IC418 - TEAO
LRC	: 11.2x(Code N)	Mounting	: F-3
No load current	: 4.83-5.60/2.80 A	Rotation ¹	: CCW
Rated speed	: 3535 rpm	Starting method	: Direct On Line
Slip	: 1.81 %	Approx. weight ³	: 71.0 lb
Rated torque	: 7.43 ft.lb		
Locked rotor torque	: 390 %		
Breakdown torque	: 520 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1922 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads				
Efficiency (%)	0.000	83.6	86.7	86.7	87.9	87.8	87.5	Max. traction	: 216 lb
	0.000								
Power Factor	0.00	0.00	0.61	0.74	0.74	0.84	0.82	0.89	Max. compression : 287 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6205 ZZ
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	0 h	0 h
Lubricant amount	:	0 g	0 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 2 Revision		
Checked by				
Date	26/03/2024			

Customer :

Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date	26/03/2024				