

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Grain Dryer Single-Phase

Product code :

14862261

Catalog # :

00456AP1DGD145TZ-S

Frame : 143/5TZ
Output : 3 HP (2.2 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230 V
Rated current : 12.6 A
L. R. Amperes : 126 A
LRC : 10.0x(Code L)
No load current : 6.60 A
Rated speed : 3530 rpm
Slip : 1.94 %
Rated torque : 4.46 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 420 %
Insulation class : F
Service factor : 1.00

Locked rotor time : 12s (cold) 7s (hot)
Temperature rise : 105 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC418 - TEAO
Mounting : F-3
Rotation¹ : Both (CW and CCW)
Noise level² : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 54.6 lb

Output	50%	75%	100%
Efficiency (%)	70.0 75.5	77.0 81.5	81.5 82.5
Power Factor	0.81 0.90	0.89 0.95	0.93 0.97

Foundation loads
Max. traction : 115 lb
Max. compression : 170 lb

	Drive end	Non drive end
Bearing type	6205 ZZ	6202 ZZ
Sealing	V'Ring	Without Bearing Seal
Lubrication interval	-	-
Lubricant amount	-	-
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		
Checked by				
Date	26/03/2024			
		Revision		

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



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 2 / 2	Revision
Checked by					
Date	26/03/2024				