

Product data sheet

Specifications

Product Name: Axial fan with shaded pole motor

Product Model: F2E-150S/B-230

Motor Code: M2E07202-AB

Order Number:2018.011/013



Naming rules

1.1 Product code description

Example:

F2E	-	150	-	B	-	230
1		2		3		4

1-Company code or fan outlet method

2-External dimensions

3-Bearing type (S: sleeve bearing B: ball bearing)

4-Input voltage (1:115V, 2:230V, 3:380V)

1.2 Motor code description

Example:

M	-	2	-	E	-	072	-	02	-	A	-	B
1		2		3		4		5		6		7

1-Motor

2-Pole number (2:2 poles, 4:4 poles, 6:6 poles, 8:8 poles);

3-Input voltage (S: 115V, E: 230V, D: 380V);

4-Motor outer diameter;

5-Motor design serial number;

6-AC power;

7-Insulation level (B: Grade B, F: Grade F)

Production standard and safety regulations

1	The product satisfy requirements	<input checked="" type="checkbox"/> GB12350 《Safety requirements of small power motors》
		<input type="checkbox"/> GB/T13275 《General technical requirements for general centrifugal fan》
		<input checked="" type="checkbox"/> EN60335-1 《Household and similar electrical appliances-safety》
		<input type="checkbox"/> EN62368-1 《Household and similar electrical appliances-safety》
		<input checked="" type="checkbox"/> UL507 electric fan standard
2	Management system certification	<input checked="" type="checkbox"/> Quality Management System ISO9001:2015
		<input checked="" type="checkbox"/> Environmental Management System ISO14001:2015
		<input type="checkbox"/> Occupational Health and Safety Management System ISO 45001:2008

3	Certificate	<input checked="" type="checkbox"/> CCC Self-declaration Self-declaration No:2024000401000296 According to the standard: GB/T12350-2022
		<input checked="" type="checkbox"/> CE
		<input checked="" type="checkbox"/> UL/CUL/Certificate No: E324860-20240522
		<input type="checkbox"/> TUV /Certificate No:
4	Vibration of the fan	<input checked="" type="checkbox"/> Fan effective value of vibration velocity according JB/T8689 standard

General Specification

ITEMS		Specification/Condition		
1	Outline. Dimension	See enclosed drawing		
2	Type of motor	Axial flow fan with shaded pole motor		
3	No. of Poles	2poles		
4	Starting voltage	90V		
5	Voltage range	90V-235V		
6	Rated .voltage/Frequency	230V AC	50HZ	60HZ
7	Rated current	Testing under the rated voltage	0.29A±10%	0.27A±10%
8	Power consumption		43W±10%	40W±10%
9	Rated speed		2600RPM±10%	2620RPM±10%
10	Max airflow		370±5% ³ m ³ h	325±5% ³ m ³ h
11	Max static pressure		70Pa	83Pa
12	No.of fan blades	7P		
13	Rotating direction	Observe clockwise from the fan blade side.		
14	Air outlet direction	Straight in and straight out		
15	Operating temperature	The standard temperature rise is less than or equal to 60K. Test the temperature rise at 25 ° C in the laboratory with 1.1 times the rated voltage (50Hz)		
16	Max noise	58dBa±5%		
17	Life time	Fans endurance test: can continuous work within 30000hours (under nominal voltage, environmental temperature is 25℃、humidity<70%RH、fans full-speed operation。		
18	Failure warning (selectable)	Alarm: <input type="checkbox"/> Closed <input type="checkbox"/> Opened Passive touch spot Touch spot loading: 8A/AC125V 6A/AC250V 8A/DC12V 6A/DC24V		
19	Signal feedback (selectable) FG signal	<input type="checkbox"/> FG signal		
20	Description of other functions	/		
21	Weight	0.875KG		

22	Place of production	Shanghai, China
23	Air capacity and air pressure curve	

Flow (M ³ /h)	Static pressure Pf (Pa) - 50Hz	Static pressure Pf (Pa) - 60Hz
0	85	70
100	75	60
200	50	40
300	25	15
380	0	-
320	-	0

Main Materials/parts Specification

Materials/Parts		Specification
1	Housing	Aluminum ADC12
2	Blade	PBT+GF
3	Bearing type	Ball Bearing Bearing spec: NMB 608
4	Enameled wire	QA-1/155 Enamel Wire
5	Lead way	/
	Length of lead	170±20mm (Test line, not included by default)
	Wire specification	UL3266 20WG 125°C
6	Flame retardant rating	V-0: The fire burn out within 30seconds after two times of 10seconds burning testing for samples. Not Allow the objects drop after burning.
7	Lead wire pipe	Heat-shrink tube
8	Connector	3-position screw terminals
9	Terminal shell	PA66+GF-FR

10	Capacitance	/
11	(Centrifugal fan project) Inlet cones	<input type="checkbox"/> Yes <input type="checkbox"/> No

Electrical Specifically

1	Insulation resistance	100M Ω /between unshackled wire and frame at 500VDC/1min
2	Dielectric strength	Between wire and frame 1800VAc 5mA 1S
3	Ingress protection	IP20
4	Motor protection type	Impedance protection
5	Thermal protection reset type	/
6	Operating temperature of protector	/

Environmental Specification

1	Working temperature range	Temperature: -30 $^{\circ}$ C~+60 $^{\circ}$ C
2	Working humidity range	Humidity: 0-70%RH
3	Keeping temperature range	Temperature: -40 $^{\circ}$ C~+70 $^{\circ}$ C
4	Keeping humidity range	Humidity: 0-85%RH
5	Insulation shock	IEC61858 Class B
6	Packing vibration test	After packaging, conduct a 1.1G load vibration test in XYZ directions for 30 minutes. No serious damage
7	Packing shock proof test	After bundling, the height is 60 cm. A drop test is performed from a height of 1 corner and 3 edges onto 6 sides, resulting in no significant damage.

Shape and installation drawings



