Product data sheet



Specifications

Product Name: Axial flow fan with shaded pole motor

Product Model: F2E-150S/B-115

Motor Code: M2S07202-AB

Order Number: 2018.012/014





Naming rules

1.1 Product code description

Example:

- 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:

230

4

- 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)

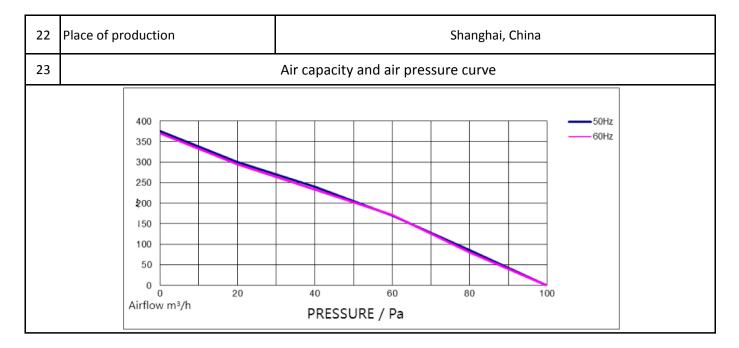
Production standard and safety regulations

	The product satisfy requirements	☑GB12350 《Safety requirements of small power motors》	
		☐GB/T13275 《General technical requirements for general centrifugal fan》	
1		☑EN60335-1 《Household and similar electrical appliances-safety》	
		□EN62368-1 《Household and similar electrical appliances-safety》	
		☑UL507 electric fan standard	
2	Management system certification	 ✓ Quality Management System IS09001:2015 ✓ Environmental Management System IS014001:2015 ✓ Occupational Health and Safety Management System ISO 45001:2008 	

		Self-declaration No:2024000401000296
		According to the standard: GB/T12350-2022
3	Certificate	☑CE
		☑UL/CUL/Certificate No: E324860-20240522
		□TUV /Certificate No:
4	Vibration of the fan	☐ Fan effective value of vibration velocity according JB/T8689 standard

General Specification

	ITEMS	Sp	ecification/Condition	
1	Outline. Dimension	See enclosed drawing		
2	Type of motor	Axial flow fan with shaded p	oole motor	
3	No. of Poles	2poles		
4	Starting voltage	90V		
5	Voltage range	90V-245V		
6	Rated .voltage/Frequency	115V AC	50HZ	60HZ
7	Rated current		0.60A±10%	0.54A±10%
8	Power consumption	1	44W±10%	41W±10%
9	Rated speed	Testing under the rated voltage	2600RPM±10%	2560RPM±10%
10	Max airflow		355±5%m³h	350±5% m³h
11	Max static pressure		/	/
12	No.of fan blades	7P		
13	Rotating direction	Clockwise when observed fr	om the fan blade side	
14	Air outlet direction	Straight in and straight out		
15	Operating temperature	The standard temperature r temperature rise at 25 ° C ir (50Hz)	•	
16	Max noise		58dBa±5%	
17	Life time	Fans endurance test: can continuous work within 30000hours (under nominal voltage, environmental temperature is 25 $^{\circ}$ C $^{\circ}$ humidity $^{\circ}$ 70%RH $^{\circ}$ fans full-speed operation $^{\circ}$		
18	Failure warning(selectable)	Alarm: □Closed □ Opened Passive touch spot Touch spot loading: 8A/AC125V 6A/AC250V 8A/DC12V 6A/DC24V		
19	Signal feedback(selectable)FG signal		□FG signal	
20	Description of other functions	/		
21	Weight		0.875KG	



Main Materials/parts Specification

Materials/Parts		Specification
1	Housing	Aluminum ADC12 SDC12
2	Blade	PBT+GF
3	Bearing type	Ball Bearing Bearing spec: NMB 608
4	Enameled wire	QA-2/155 Enamel Wire
	Lead way	Terminal block
5	Length of lead	110±20mm(Test line, not included by default)
	Wire specification	UL3266 18AWG 125℃
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	□Yes □No

Electrical Specifically

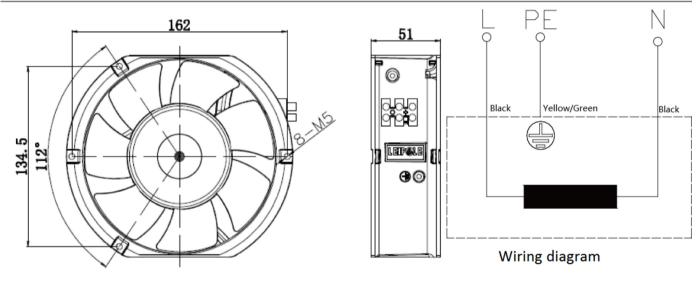
1	Insulation resistance	100M Ω /between unshackled wire and frame at 500VDC/1min
2	Dielectric strength	Between wire and frame 1800VAc 5mA 1S
3	Ingress protection	IP34

	4	Motor protection type	Impedance protection
	5	Thermal protection reset type	/
Ī	6	Operating temperature of protector	/

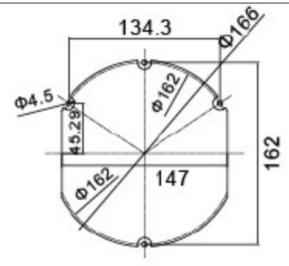
Environmental Specification

1	Working temperature range	Temperature: -30 $^{\circ}$ C $^{\sim}$ +60 $^{\circ}$ C
2	Working humidity range	Humidity: 0-70%RH
3	Keeping temperature range	Temperature: -40°C~+70°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



Cut-out size drawing



Notes

- 1. Our products should be used within the specification appointed condition, so we will not guarantee this product quality if your application exceeds the limitations outlined in this specification.
- 2. Unless we are notified in advance of the required parameters, the shipped products shall be consistent with this specification sheet, and the parameters not specified in this specification sheet shall be the same as the samples finally recognized by your company
- 3. Improper mounting may cause harsh resonance, vibration and noise. Please mount this fan motor properly without applying excessive or uneven force at the mounting points to avoid vibration and noise. Dampers at the mounting points can reduce noise and vibrations greatly.
- Please use fan guards to avoid personal accidental injuries.
- 5. Unless this fan motor is specified for use in abnormal environments designated by IP rating level, this fan is designed to operate under normal environ mental conditions.
- 6. Please avoid operating M-FAN's products in poisonous material (organic, cyanogens , formalin, phenol, etc.) or corrosive gas environment (H_2S , SO_2 , NO_2 , etc.)
- Please use filters to clean the air-intake in very dusty air environments for extended fan life.
 - Under the condition of ensuring that the product performance and life remain unchanged or even
- 8. improved. Unless otherwise agreed in advance, we reserve the right to use parts from multiple sources with the same specifications, and changes in raw materials and structure will not be notified in advance.
- 9. Always ensure that fans are stored according to the storage temperatures specified. Do not store in a high humidity environment. If the fans are stored for more than 6 months, we recommend functional testing before using.
- 10. Make sure to turn off the power before connection or disconnecting the connectors. This may cause short of electronic parts.