

SPECIFICATION

MODEL K-EC280-R110



1.General Specification

	ltem	Specification	Notes				
1	Model	K-EC280-R110					
2	Outline Dimension	Ф280Х100					
3	Rated Voltage	110VDC					
4	Operating voltage range	77~138VDC					
5	Rated Current	3.5A±10%	At Rated Voltage,				
6	Power Consumption	385W±10%	25℃, 65% RH,				
7	Rotating Speed±10%	3550RPM±5%	Free Air				
8	Max Airflow±10%	2060(m3/h)	At Rated Voltage				
9	Max Static Pressure±10%	1030Pa	AMCA-210-99 Standard				
10	Noise Level	80dB(A)					
11	Operation mode	S1					
12	No. of Pole	4Poles					
13	Rotating Direction	Clockwise, viewed from the rotor end.					
14	Structure type	Outer rotor					
15	Motor Type	DC Brushless					
16	Balance	G6.3					
17	Life L₁₀ at 25℃	>20000/hrs (Ordinary Humidity)					
18	Insulation	Class B					
19	Weight	4.5Kg					

2. Environmental Specification

	Item	Specification / Condition		
1	Operating Temperature Range	-20℃~+60℃ (normal humidity)		
2	(Storage Temperature Range)	-20℃~+60℃ (normal humidity)		

3. Main Materials/Parts Specification

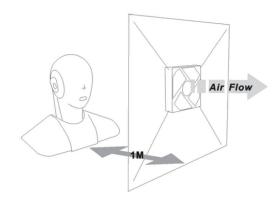
	Materials/Parts	Specification
1	Housing	N/A
2	Impeller)	galvanized steel sheet)
3	Bearing	NMB/NSK 6001 Z
4	Connector	N/A



4. Electrical Specification

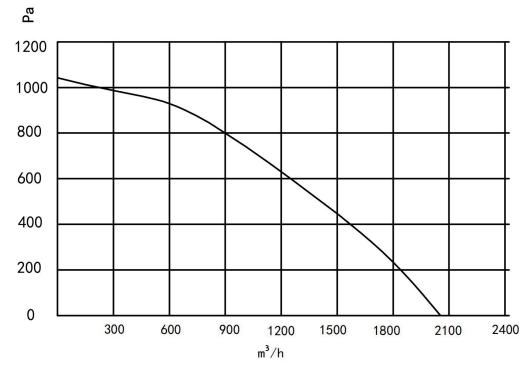
	Item	Specification/Condition		
1	Locked 1.Auto power off after locked at rated voltage for 1 sec.			
	Rotor Protection)	2.After auto power off, circuit attempt to restart in 2-6 sec.		
2	Polarity Protection	Open circuit when Vcc& GND are exchanged. Circuit won't be burned within5 seconds when Vcc GND are exchanged.		
3	InsulationResistance	$10 M\Omega/Between$ unshielded wire and frame at 500VDC/min		
4	Dielectric Strength	5 mA Max./Measured between lead wire(+) and frame at 500 VAC/ min.		

5.NoiseMeasureCondition



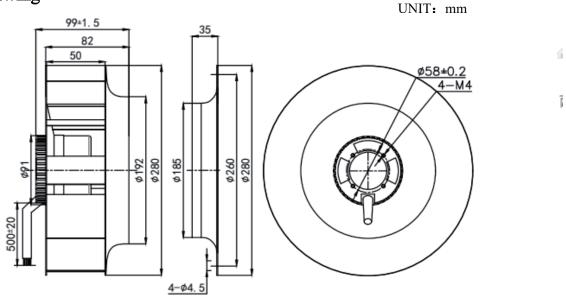
Measurement Systems:				
1.ANECHOIC Room Noise Measurement System.				
2.Digital Head Measurement System, 16-bits				
version.				
3.SQlab III, Mobile Multichannel Analysis System.				
4.Specifications:ISO 374, ISO 374, ISO 779,				
CNS 6753, JIS 8346				
5.Background Noise: < 17dB(A)				

6.AirflowPerformance





7.Product Drawing

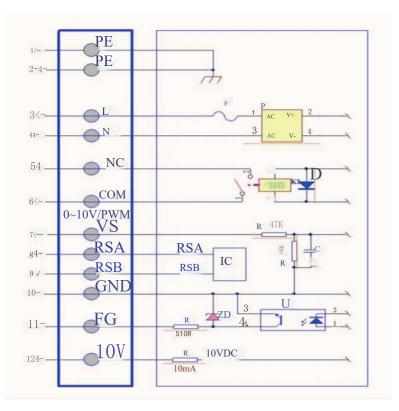


8.Connection

External Wiring Diagram

Color	Brown	Black	Yellow-Græn	Red	Blue	Yellow	White	Green	Purple
Function	L	Ν	PE	+10 VDC Input	GND	0-10VDC PWM	FG	RS485A	RS485B

Speed control(0-10VDC)circuit diagram



Model:K-EC280-R110



Notes:

1.1 Please do not touch and push Fan Blade with fingers or others, fan blade and bearings may be damaged and it causes noise defect.

1.2 Do not carry the fan by its lead wires.

1.3 Please don't install this fan in series with 2x voltage inputs. For example,

if a single fan rated at 115VAC (12VDC), then don't install two of them in series with 230VAC (24VDC) input.

1.4 Fans are not suitable to be used in an environment that contains aggressive or corrosive fluids.

1.5 Always ensure that fan is stored according to the storage temperatures specified.

Do not store in an environment with a high humidity level.

If the fans were stored for longer than 6 months, it is highly recommended to apply functional testing before shipping.

1.6 During installation, caution should be taken when mounting the fan. Incorrect mounting can cause excess resonance, vibration and noise.

1.7 During testing it is important to consider safety at all times.

A suitable guard should be fitted to the fan to prevent personal injury.

1.8 Unless otherwise stated, all tests are carried out at relative temperature and humidity conditions of 25° C, 65° RH.