EC92-CB310E-175WM EC MOTOR FAN EXT ROTOR.

DATASHEET-INSTALLATION GUIDE.

En-GB METRIC. M Series

TRANSMONK simply precise.



1.0 Introduction

The specification describes the standards, operating environment, and technical requirements of the product.

- 2.0 Requirements of product standards and safety regulations
 - 2.1 Standards and requirements of the product followed
 - 2.1.1 GB12350 (Safety requirements of small power motors)
 - 2.1.2 EN60335-1 (Safety requirements of household and similar electrical appliances)
 - 2.2 The fan is CCC and CE approved.
 - 2.3 All materials are ROHS compliant
- 3.0 Mechanical requirements
 - 3.1 Motor magnetic materials

QZ-2 180 degree Celsius / High Strength enamelled wire QZ-2 180 degree Celsius

Stator and Rotor permeability magnetic material: Silicon Steel

Rotor: Die-Casting Aluminium

- 3.2 Balancing: The residual unbalance weight is less than the permit value of G6.3 (balancing precision grade, according to the standard of JB/T9101) when the fan is running at rated voltage and frequency.
- 3.3 Vibration: Vibration speed virtual value of fans accord with JB/T8689.
- 3.4 Lifespan: The fan is designed to run for a lifespan of 30,000~40,000 hours when the fan is running at rated voltage, rated load and maximum operating temperature.
- 4.0 Electrical Protection: The motor is equipped with the overload protection function, cut off temperature is between 150-160 degrees Celsius and reset temperature is between 90-120 degree Celsius

Leakage current: According to GB 12350

Installation mode: Horizontal & Vertical

Mode of speed regulation: Please provide the controller details with which you want to regulate the fan speed

5.0 Quality requirements

Quality requirements in accordance with ISO9001:2000 and inhouse quality standards

6.0 Operating and storing environmental requirements

Operating temperature range: -20 to +60 degree Celsius

Operating humidity range: 30% to 95% RH

Operating altitude: </= 1000 m

Ambient atmospheric pressure: 80-110 Kpa

Transportation/Storing temperatures range: -25 ~ +60 degree Celsius

Transportation/Storing humidity range: 30% ~ +95% RH

Packaging: Carton / Wooden packing

7.0 Standard of noise test: As per ISO 13347 (Determination of fan sound power levels under standardized laboratory conditions)

Product specification

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Fan model	EC92-CB310E-175WM
Motor type	EC external rotor
Power Supply	1~ 230 Volt
Voltage range	200-277
Frequency	50-60Hz
Input power	175 Watts
Speed	1770 RPM
Current	1.3 Amp
Airflow@0 pa	2430 CMH
Sound power	73 dB
Impeller type	Backward curve

Technical data

Protection class	IP44
Thermal class	F(155 degree)
Fan life*	~ 30,000 to 40,000 hours
Weight	3.3Kg
Rotation direction	Clockwise, viewed toward rotor
Certification	CE
Impeller material	Metal
Rotor	Die-casting Aluminium
Bearing	Maintenance free ball bearing

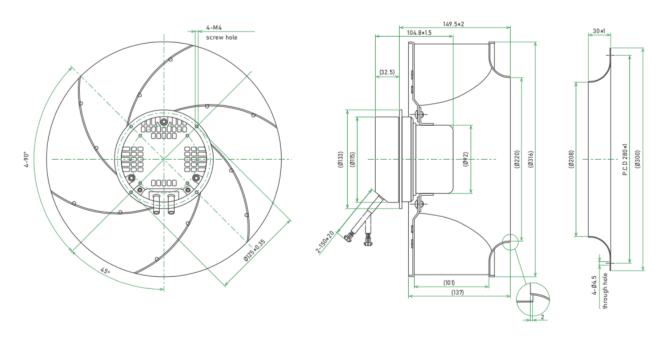
Product specification

Technical data

Installation mode	Horizontal / Vertical
Control method 1	0 - 10 VDC / PWM
Control method 2	
Power output 1	+ 10 V DC
Power output 2	
Tech output	1 Pulse/Rotation**
Inbuilt protection	Over/Under temperature, voltage & current Locked rotor

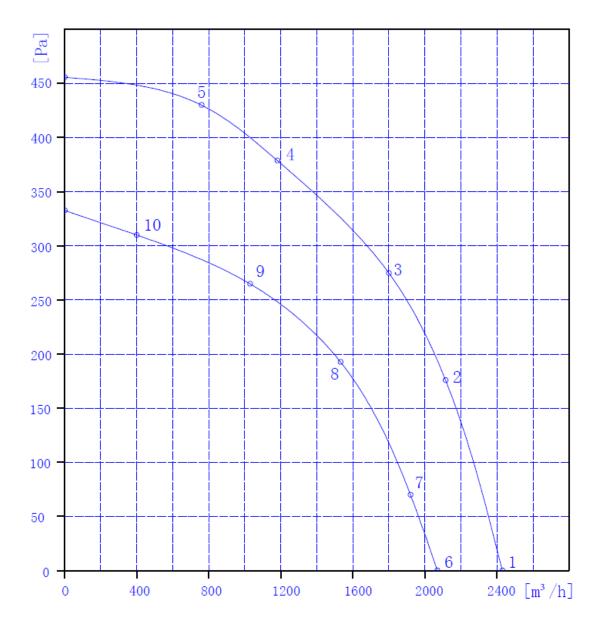
^{*}If the fan is running continuously at rated voltage, rated load and maximum operating temperature

Drawing (all dimensions are in mm)



^{**}Needs 10K0hm pull-up resistance between +10V line & tach output line

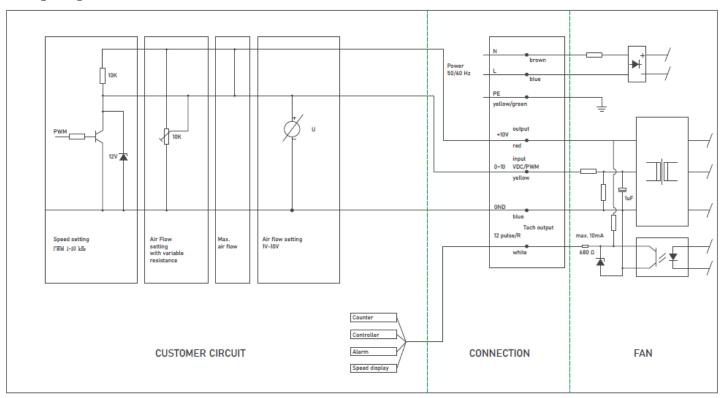
Performance curve



Data point table

Number	RPM	Power (W)	Airflow (CMH)	Pressure (Pa)
1	1786	170	2430	0
2	1796	253	2105	175
3	1793	290	1800	275
4	1788	265	1197	380
5	1771	167	790	430
6	1516	105	2090	0
7	1512	127	1910	70
8	1512	168	1515	190
9	1506	156	1016	263
10	1506	112	400	310

Wiring Diagram (Three Phase)



Important Note

Cannot be used in coal mines where methane mixed gas and coal dust may cause explosion hazard.

Keep away from rotating parts when the fan is in running condition.

Cannot be placed and used in places where corrosive gas or steam is present.

Do not touch any of the high voltage line when the product is powered on.

The bearings used are ball bearings so please prevent the rotor from direct impact.

In order to avoid the circuit from breakdown OR insulation from damage, do not pull the wire harness while moving the product.

Customer fan unit should connect to ground well.

Do not touch the fan blade in running condition

Please use the fan under the conditions specified in this datasheet and contact us in case of any queries