Model No. B3P133-EC072-010

EC Backward Curved Centrifugal Fan+

Technical data

Voltage [1]	AC 230 [V]
Frequency	50/60 [Hz]
Speed	4500 ±10% [min^{-1}]
Power nom. / Current nom.	45 [W] / 0.32 [A]
Power max. / Current max.	62 [W] / 0.47 [A]
Air flow	max. 420 [m³/h]
Noise	68 [dBA]
Degree of protection	IP44
Leakage current [2]	max. 3.5 [mA]
Dielectric resistance [3]	AC 1800 [V]
Insulation class	B class
Control input [4]	0-10V VDC/PWM
Output	+10Vdc
Tach output [5]	1 Pulse/R
Protected mode	Over-temperature / over-current/ locked protected
Appearance	There should not be any defects and dirty which Spoil goods value
Mass	Approx 1.2 [kg]
Lead wire pulled Out strength	min. 20
L10 life	min. 40000 [h]
Impeller material	PA66
Mounting frame material	PA66

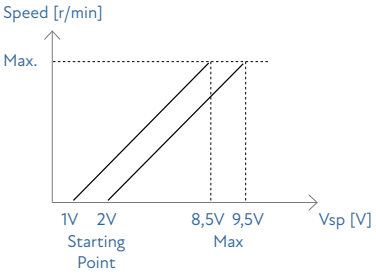

Fig. 1

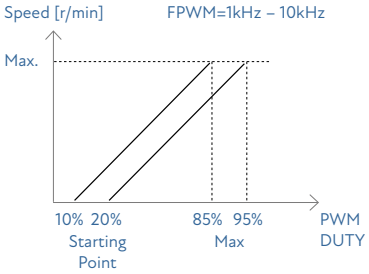

Fig. 2

Environmental requirement

Storage temperature range	-25 – 60 [°C]
Operating, storage humidity	30 – 95 [%] RH non condensing
Operating temperature range	-20 ~ 60 [°C]
	heat sink of ic 115 [°C] max
	other electronic parts 85 [°C] max
	ball bearing 80 [°C] max
	coil 120 [°C] max

[1] AC 200 – 277 V range
[2] Testing conditions: AC 260 V, 3s
[3] Tripping current 1s, 10 mA
[4] See Fig.1, Fig.2
[5] Duty 30% ~ 70%, +10V, tach output 10KΩ, it needs 10KΩ pull-up resistance between +10V line and tach output line

Angle Tolerance	Classification of a shorter side of subjected angle			
	X≤10	10<X≤50	50<X≤120	120<X≤400
Tolerance	±1°	±30’	±20’	±10’

General Tolerance	Classification of basic dimension			
	X≤6	6<X≤30	0<X≤120	120<X≤400
Tolerance	±0.1	±0.2	±0.3	±0.5

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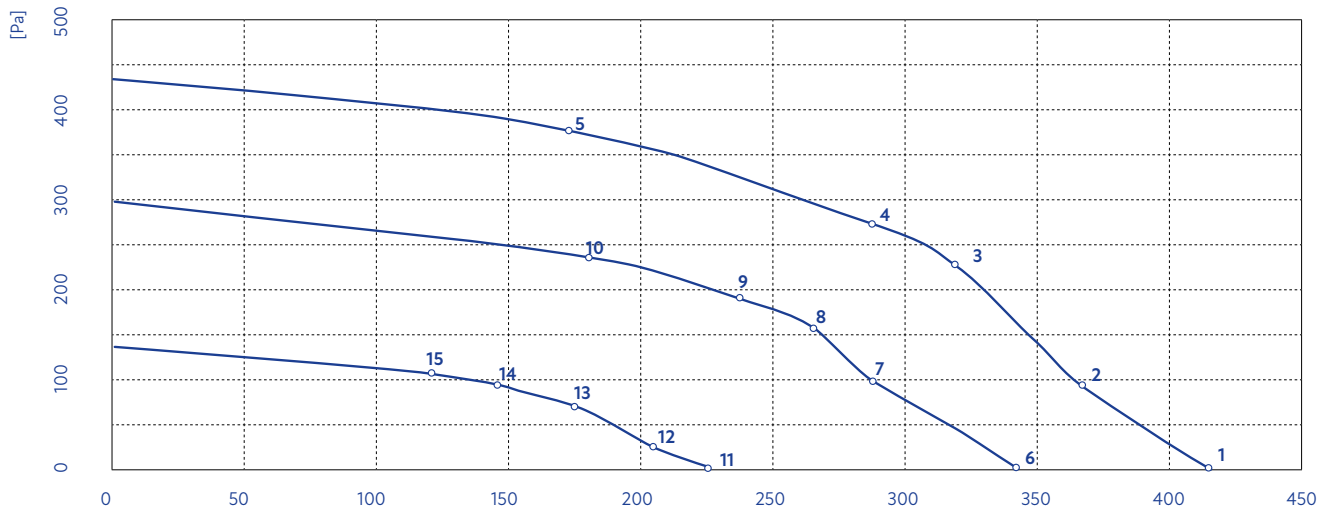
Air performance



Item	Voltage [V]	Frequency [Hz]	Speed [min-1]	Power [W]	Current [A]	Airflow [m³/h]	Pressure [Pa]	Vsp [V]
1	230	50	4543	47	0.37	415	0	
2	230	50	4541	51	0.40	367	93	
3	230	50	4537	56	0.44	319	228	10
4	230	50	4538	62	0.47	288	273	
5	230	50	4543	54	0.43	173	378	
6	230	50	3751	28	0.24	340	0	
7	230	50	3760	32	0.27	285	98	
8	230	50	3761	35	0.28	270	155	7
9	230	50	3747	33	0.27	235	190	
10	230	50	3740	34	0.28	180	235	
11	230	50	2477	11	0.12	225	0	
12	230	50	2486	12	0.12	205	30	
13	230	50	2481	12	0.13	175	70	5
14	230	50	2487	13	0.13	145	95	
15	230	50	2487	12	0.13	120	105	

Note in use

- Since this motor has no reversing connection, to prevent motor damaged by over starting current, the peak current can not exceed 2.5A,
- Please do not perform extraction and insertion of the connector under revolution irrespective of power on and power off,
- Do not add shock to the ball bearing,
- Fan can be cooled by ventilation, please consider ventilated condition around the fan when using it,
- Do not carry with lead wires when handle a fan, if add huge strength to lead wires that the soldered part in fan may be shed,
- Evaluate the fan refer to this specifications. If the load or power supply voltage of the motor should be changed, please contact with us.

Others

- The intellectual asset of the fan in the form of patent belongs to our corporation so any patent problem will not be caused during the actual application. Our corporation will not be responsible for any patent dispute or problem that caused by the product method and new technique project which are developed by using this fan,
- It should be assured that this specification can not be revealed to any third party without the consent of our corporation,
- Materials of motor contain six substances Pb Cr (VI+) Cd Hg PBB and PBDE those contents comply with the RoHS instruction.
- The company reserves the right to make modifications and changes.

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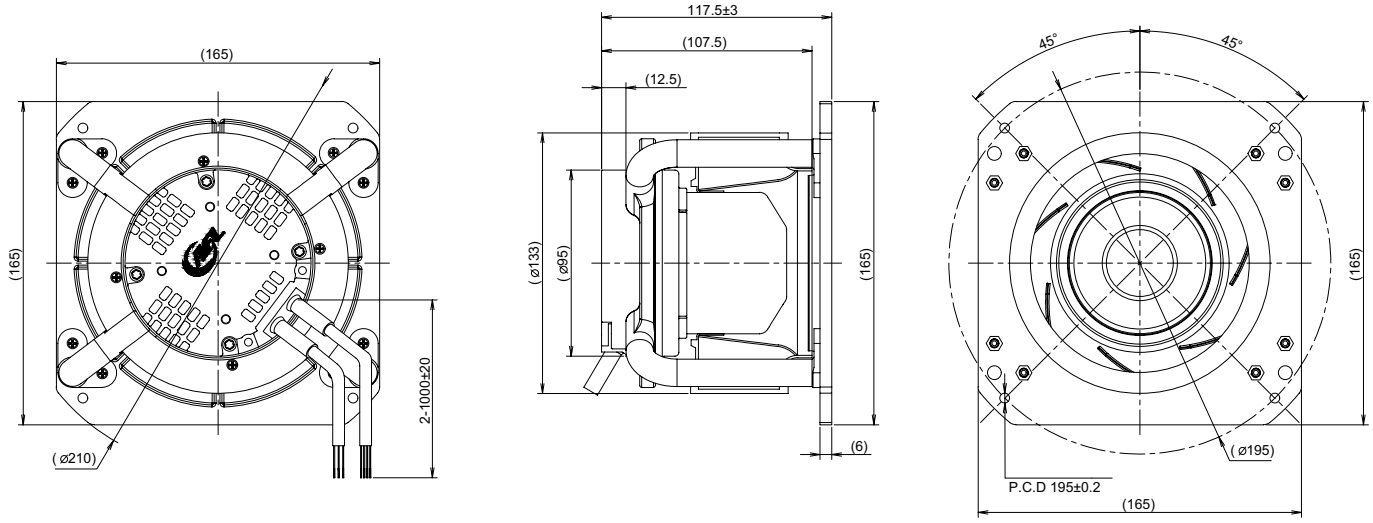
Product drawing



Line	Connection	Color	Function
1	L	brown	Single-phase 50/60 Hz
	N	blue	
	PE	yellow / green	Protective earth
2	Vcc	red	DC 10V
	Vsp	yellow	0-10V/PWM
	GND	blue	GND
	FG	white	1 Pulse/R