

Model No. B3P225-EC092-040

EC Backward Curved Centrifugal Fan+

This specification is specified for 3-phase DC brushless motor. Items except having indicated in the specification, are applied to China compulsory product Certification and CE, and to meet the EU ERP requirements.



Technical data

Voltage ⁽¹⁾	AC 230 [V]
Frequency	50/60 [Hz]
Speed	3000 ±10% [min ⁻¹]
Power nom. / Current nom.	200 [W] / 1.3 [A]
Power max. / Current max	226 [W] / 1.62 [A]
Air flow	max. 1500 [m ³ /h]
Noise	71 [dBA]
Leakage current ⁽²⁾	max. 3,5 [mA]
Insulation class ⁽³⁾	B class
Dielectric resistance	AC 1800 V
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 2.2 [Kg]
Lead wire pulled Out strength	min. 20
L10 life	min. 40000 [h]

⁽¹⁾ AC 200 – 277 V range

⁽²⁾ Testing conditions: AC 260 V, 3s

⁽³⁾ Tripping current: 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

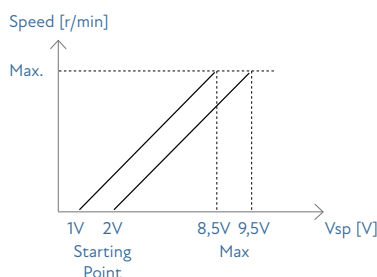


Fig. 1

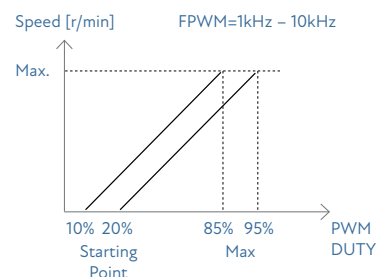


Fig. 2

Environmental requirement

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

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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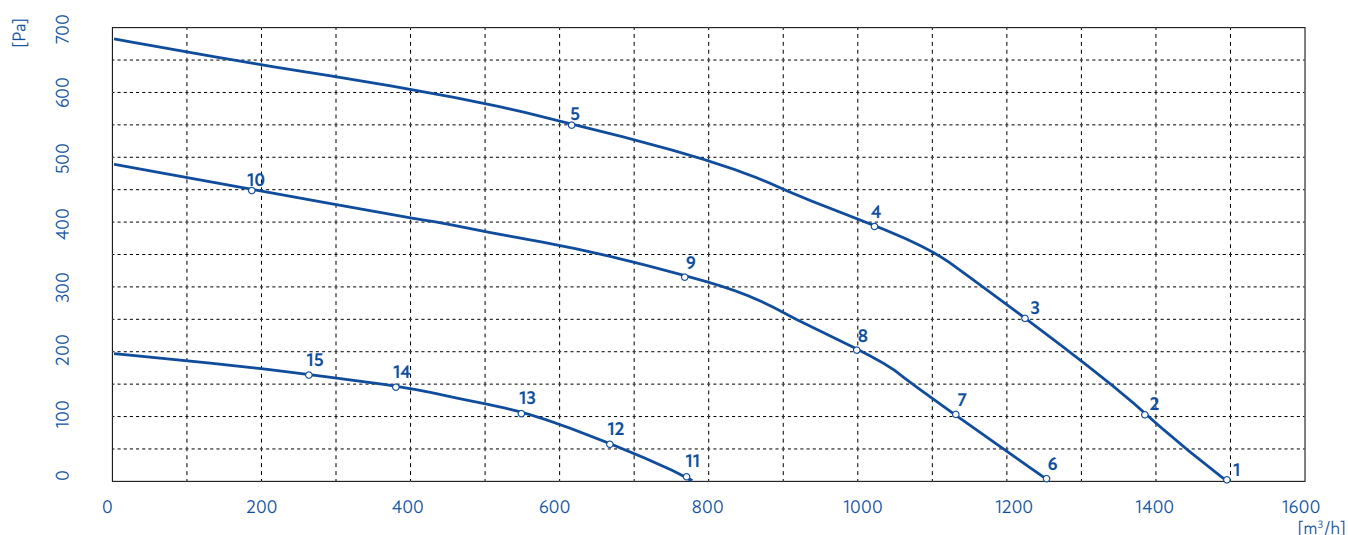
Note in use

- 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,
- Do not use relay or other mechanical switch on power supply line, because impact voltage may damage the fan,
- Switch on/off the device by the control input,
- 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.

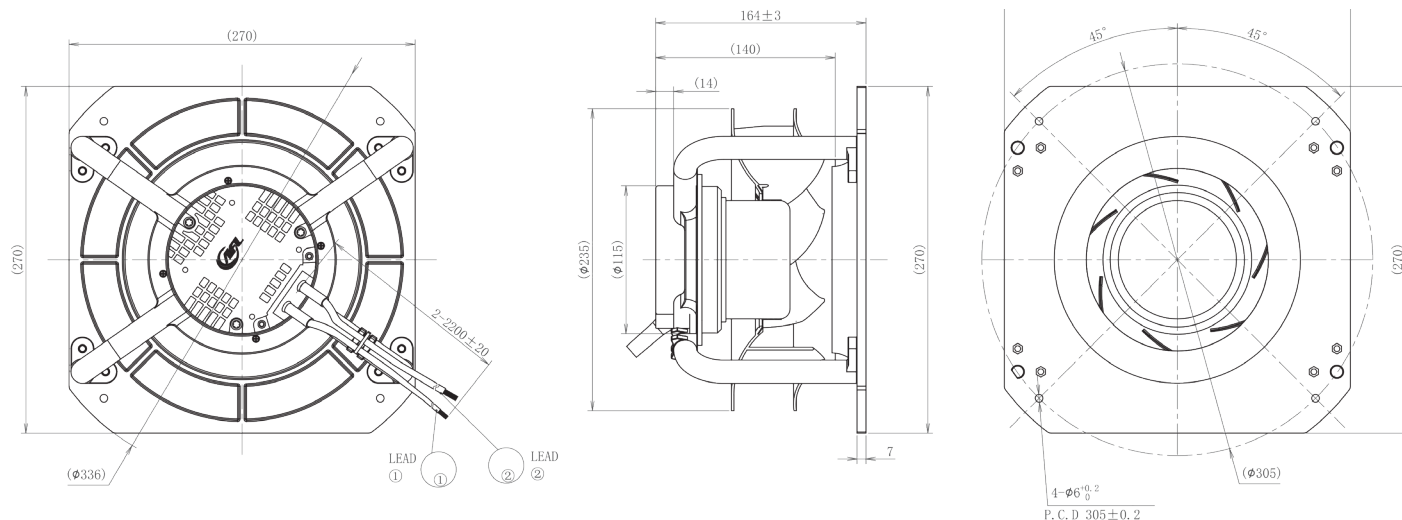
Air performance



Item	Voltage [V]	Frequency [Hz]	Speed [m ⁻¹]	Power [W]	Current [A]	Airflow [m ³ /h]	Pressure	Vsp
1	230	50	2951	177	1.29	1491	0	10V
2	230	50	2952	195	1.42	1386	101	
3	230	50	2947	218	1.57	1228	249	
4	230	50	2945	226	1.62	1025	389	
5	230	50	2943	204	1.48	619	546	
6	230	50	2487	106	0.82	1253	0	7V
7	230	50	2482	121	0.92	1130	102	
8	230	50	2484	131	0.98	997	200	
9	230	50	2487	131	0.99	764	313	
10	230	50	2482	85	0.68	188	444	
11	230	50	1539	28	0.26	766	0	4V
12	230	50	1539	32	0.28	668	52	
13	230	50	1538	33	0.29	547	100	
14	230	50	1539	32	0.29	379	140	
15	230	50	1539	30	0.27	264	158	

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Product drawing



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

Notes on various control possibilities and their applications

