Model No.

B3P250-EC102-001

Technical data

Voltage [1]	AC 230 [V]
Frequency	50/60 Hz
Speed	3350 ±10% [min^{-1}]
Power nom. / Current nom.	330 [W] / 1.55 [A]
Power max. / Current max.	420 [W] / 1.94 [A]
Air flow	max. 1925 [m^3/h]
Noise	84 [dBA]
Leakage current [2]	max. 3.5 [mA]
Dielectric ressistance [3]	AC 1800 [V]
Insulation class	B class
Control input [4]	0-10V VDC PWM
Output	+10Vdc
Tach output [5]	12 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 5.0 [kg]
Lead wire pulled Out strength	min. 20
Balancing grade	G 6.3
L10 life	min. 40000 [h]
Impeller material	sheet aluminium

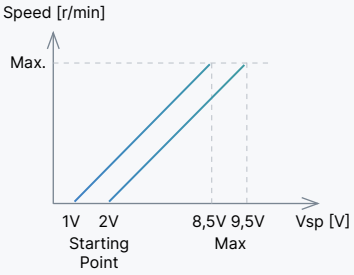

Fig. 1

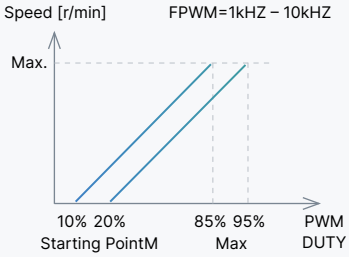

Fig. 2

Environmental requirement

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

[1] AC 200 – 277 V range
[2] Testing conditions: AC 260 V, 3 s
[3] Tripping current: 10 mA, 1s
[4] Testing conditions: DC 500 V
[5] See Fig.1, Fig.2
[6] 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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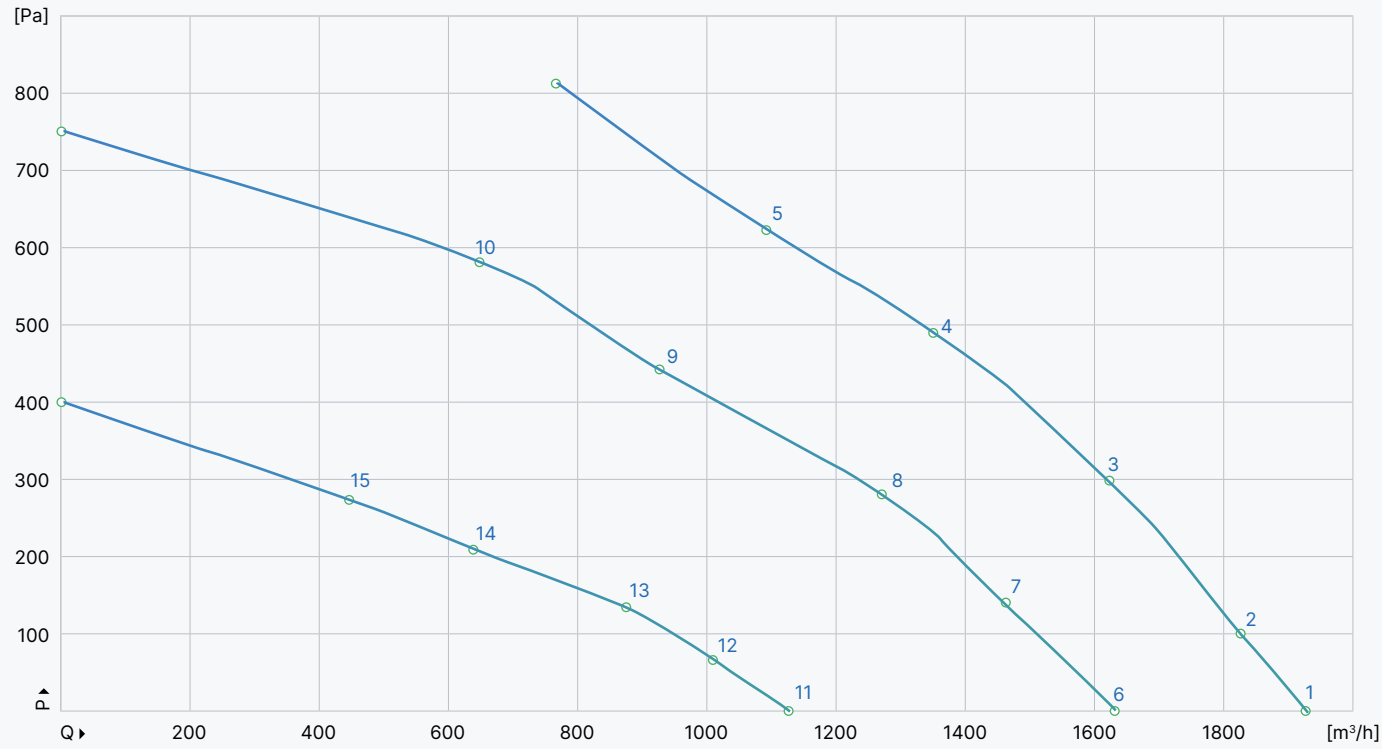
Air performance



Item	Voltage [V]	Frequency [Hz]	Speed [min⁻¹]	Power [W]	Current [A]	Airflow [m³/h]	Pressure [Pa]	Vsp [V]
1	230	50	3350	338	1.57	1926	0	
2	230	50	3345	360	1.67	1822	103	
3	230	50	3347	412	1.90	1620	302	10
4	230	50	3292	420	1.94	1347	492	
5	230	50	3225	407	1.88	1088	624	
6	230	50	2830	204	0.95	1627	0	
7	230	50	2829	230	1.07	1457	142	
8	230	50	2828	256	1.19	1263	286	7
9	230	50	2724	245	1.13	919	445	
10	230	50	2827	251	1.16	643	582	
11	230	50	1950	67	0.31	1121	0	
12	230	50	1949	75	0.35	1004	68	
13	230	50	1949	84	0.39	870	136	5
14	230	50	1877	80	0.37	633	211	
15	230	50	1948	82	0.38	443	276	

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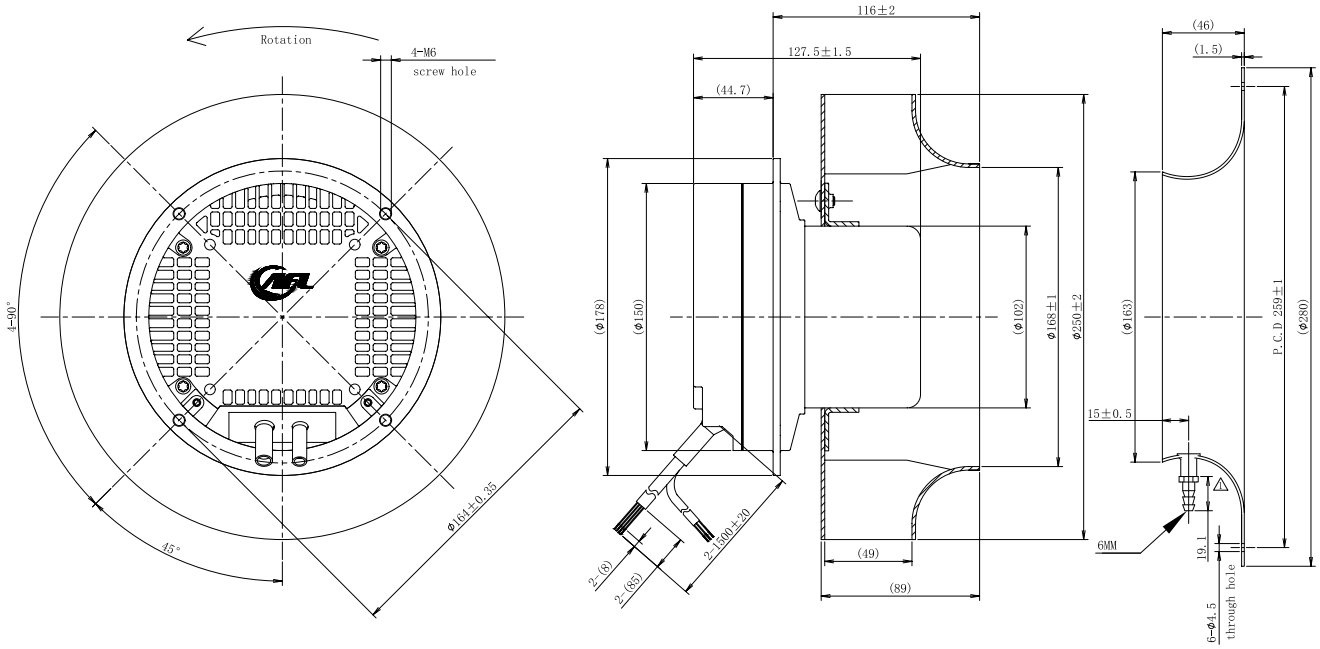
Note in use

- Since this motor has no reversing connection, the over current protector is necessary in case the damage from the over current,
- 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,
- The company reserves the right to make modifications and changes.

Product drawing



Line	Connection	Color	Function
1	L	brown	Single-phase 50/60 Hz
	N	blue	
	PE	yellow / green	Protective earth
2	+10V	red	+10V output
	0-10V/PWM	yellow	Speed control input
	GND	blue	GND
	TACH	white	Tach output EC072, EC092: 1 pulse/R EC102, EC137: 12 pulse/R

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