EC Axial Fan





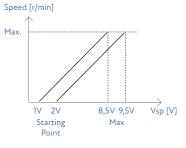






Technical data

V L (1)			
Voltage (1)	AC 230 [V]		
Frequency	50/60 [Hz]		
Speed	1380 ±10% [min ⁻¹]		
Power nom. / Current nom.	90 [W] / 0.65 [A]		
Power max. / Current max	111 [W] / 0.85 [A]		
Air flow	max. 2811 [m³/h]		
Noise	57 [dBA]		
Degree of protection	IP44		
Leakage current (2)	max. 3.5 [mA]		
Dielectric resistance (3)	AC 1800V		
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 5.9 [kg]		
Lead wire pulled Out strength	min. 20		
Balancing grade	G 6.3		
L10 life	min. 40.000 [h]		
Impeller material	PA66		



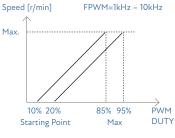


Fig. 1

Fig. 2

■ Environmental requirement

-25 – 60 [°C]		
30 – 95 [%] RH non condensing		
-25 – 60 [°C]		
heat sink of ic 115 [°C] max		
other electronic parts 85 [°C] max		
ball bearing 80 [°C] max		
coil 120 [°C] max		

⁽a) See Fig.1, Fig.2 (b) Duty 30% \sim 70%, +10V, tach output 10K Ω , it needs 10K Ω pull-up resistance between +10V line and tach output line

Angle	Classification of a shorter side of subjected angle					
Tolerance	X≤10	10 <x≤50< th=""><th>50<x≤120< th=""><th>120<x≤400< th=""></x≤400<></th></x≤120<></th></x≤50<>	50 <x≤120< th=""><th>120<x≤400< th=""></x≤400<></th></x≤120<>	120 <x≤400< th=""></x≤400<>		
Tolerance	<u>+</u> 1°	±30'	±20'	±10'		

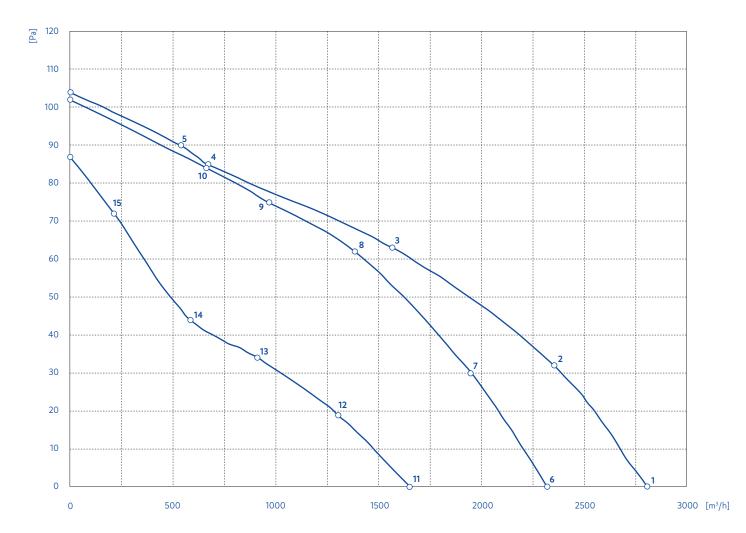
General	Classification of basic dimension					
Tolerance	X≤6	6 <x≤30< th=""><th>0<x≤120< th=""><th>120<x≤400< th=""></x≤400<></th></x≤120<></th></x≤30<>	0 <x≤120< th=""><th>120<x≤400< th=""></x≤400<></th></x≤120<>	120 <x≤400< th=""></x≤400<>		
Tolerance	±0.1	±0.2	±0.3	±0.5		



Power<125W, not subject to the ErP directive regulations

⁽¹⁾ AC 200 – 277 V range (2) Testing conditions: AC 260 V, 3 s (3) Tripping converent 10 mA, 1s

Air performance



ltem	Voltage [V]	Frequency [Hz]	Speed [min ⁻¹]	Power [W]	Current [A]	Airflow [m³/h]	Pressure [Pa]	Vsp [V]
1	230	50	1377	110	0.84	2811	0	
2	230	50	1303	111	0.85	2355	32	
3	230	50	1196	107	0.82	1567	63	10
4	230	50	1032	95	0.74	670	85	
5	230	50	1002	93	0.72	538	90	
6	230	50	1139	62	0.5	2327	0	
7	230	50	1141	76	0.6	1949	30	
8	230	50	1141	93	0.73	1387	62	7
9	230	50	1113	105	0.78	969	75	
10	230	50	1025	95	0.73	663	84	
11	230	50	802	23	0.21	1653	0	
12	230	50	802	27	0.24	1304	19	
13	230	50	802	33	0.28	910	34	5
14	230	50	802	38	0.34	585	44	
15	230	50	801	57	0.47	212	72	

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

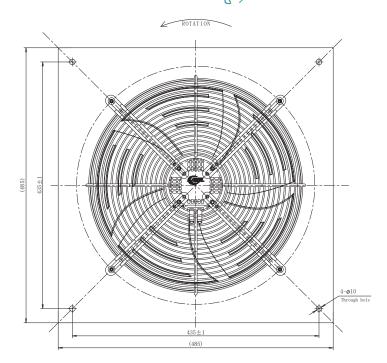
- The intellectual asset of the fan in the form of patent belongs to our corporation so any patent problem will not be caused during the actual application. Our corporation will not be responsible for any patent dispute or problem that caused by the product method and new technique project which are 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,
- The company reserves the right to make modifications and changes.

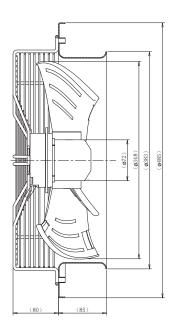
Product drawing

With wind guide panel

Model No. A3P350-EC072-013 (blowing)







Line	Connection	Color	Function
1	L	brown	C:
	N	blue	Single-phase 50/60 Hz
	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



■ Notes on various control possibilities and their applications

