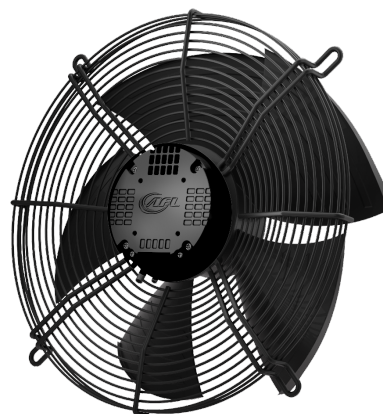


Model No. A3P450-EC092-001 / A3P450-EC092-002

EC Axial fan



Technical data

Voltage ⁽¹⁾	AC 230 [V]
Frequency	50/60 [Hz]
Speed	1080 $\pm 10\%$ [min ⁻¹]
Power nom. / Current nom.	100 [W] / 0.72 [A]
Power max. / Current max	132 [W] / 0.97 [A]
Air flow	max. 4140 [m ³ /h]
Noise	52 [dBA]
Degree of protection	IP54
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 5.0 [kg] (-001) Approx 10.0 [kg] (-002)
Lead wire pulled Out strength	min. 20
L10 life	min. 40.000 [h]
Impeller material	PA66

⁽¹⁾ AC 200 – 277 V range

⁽²⁾ Testing conditions: AC 260 V, 3 s

⁽³⁾ Tripping current 10 mA, 1s

⁽⁴⁾ See Fig.1, Fig.2

⁽⁵⁾ Duty 30% ~ 70%, +10V, tach output 10K Ω , it needs 10K Ω pull-up resistance between +10V line and tach output line

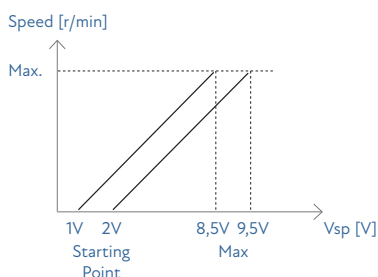


Fig. 1

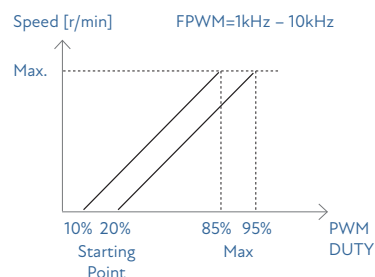


Fig. 2

Environmental requirement

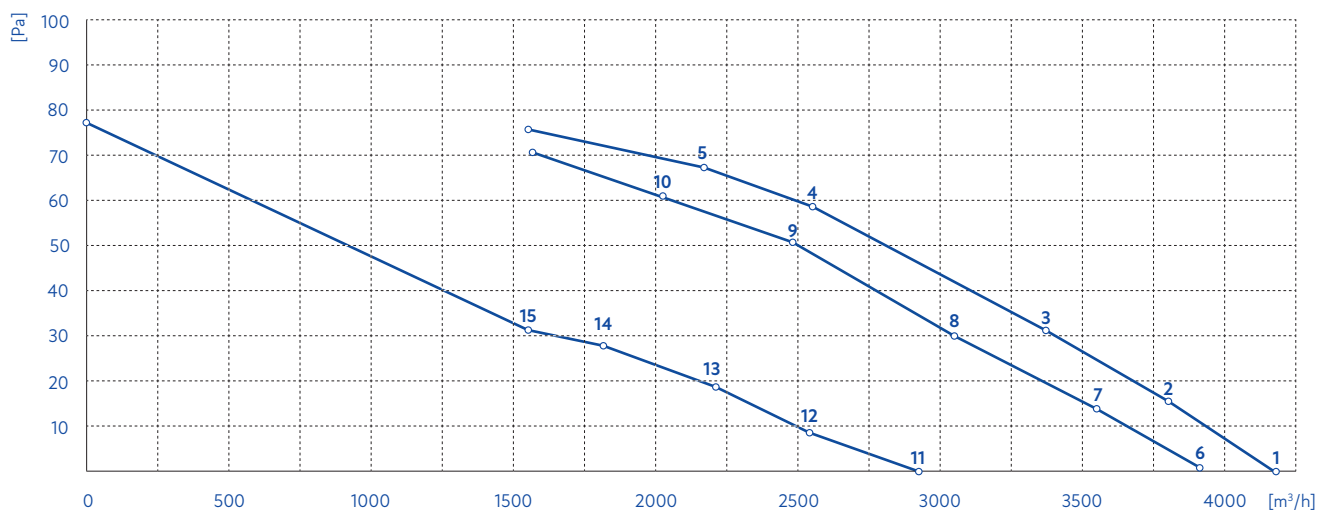
Storage temperature range	-25 – 60 [°C]
Operating, storage humidity	30 – 95 [%] RH non condensing
Operating temperature range	-25 – 60 [°C] heat sink of ic 115 [°C] max other electronic parts 85 [°C] max ball bearing 80 [°C] max coil 120 [°C] max

Angle Tolerance	Classification of a shorter side of subjected angle			
	X ≤ 10	10 < X ≤ 50	50 < X ≤ 120	120 < X ≤ 400
Tolerance	$\pm 1^\circ$	$\pm 30'$	$\pm 20'$	$\pm 10'$

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

Model No. A3P450-EC092-001 / A3P450-EC092-002

Air performance



Item	Voltage [V]	Frequency [Hz]	Speed [min ⁻¹]	Power [W]	Current [A]	Airflow [m³/h]	Pressure [Pa]	Vsp [V]
1	230	50	1086	94	0.71	4142	0	10
2	230	50	1086	101	0.76	3784	16	
3	230	50	1086	116	0.86	3366	31	
4	230	50	1077	132	0.97	2562	59	
5	230	50	1063	130	0.95	2131	66	
6	230	50	1005	80	0.62	3873	0	7.5
7	230	50	1005	90	0.67	3578	13	
8	230	50	1007	93	0.72	3090	30	
9	230	50	1007	109	0.82	2491	51	
10	230	50	1006	108	0.82	2033	61	
11	230	50	760	35	0.29	2896	0	5.5
12	230	50	760	37	0.31	2589	9	
13	230	50	760	43	0.35	2229	19	
14	230	50	749	44	0.36	1811	28	
15	230	50	749	44	0.35	1560	31	

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,
- Evaluate the fan refer to this specifications. If the load or power supply voltage of the motor should be changed, please contact with us.

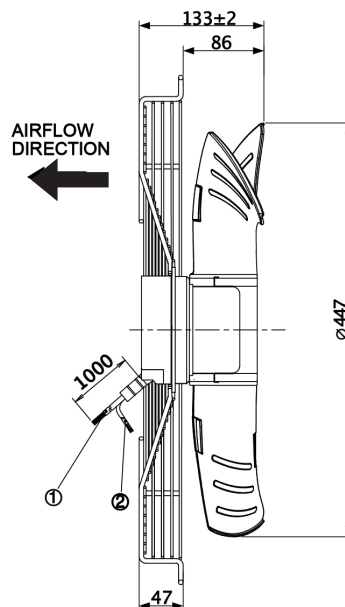
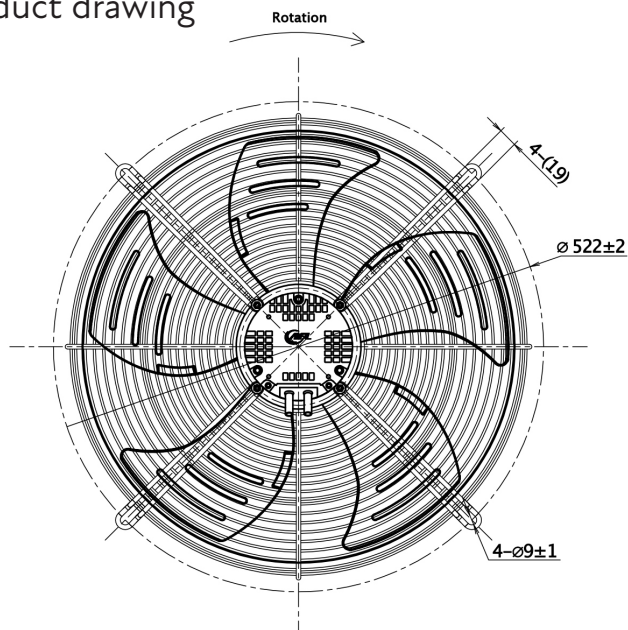
Others

- 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.

Model No. A3P450-EC092-001

■ suction □ blowing

■ Product drawing



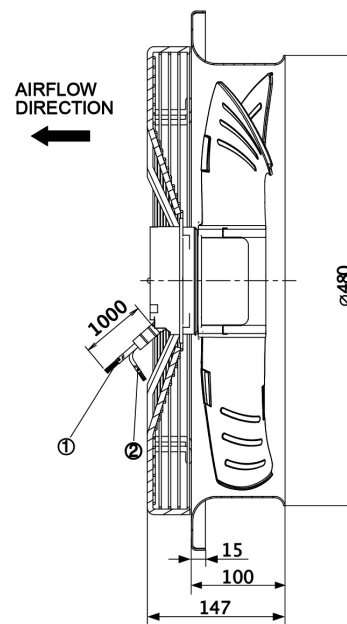
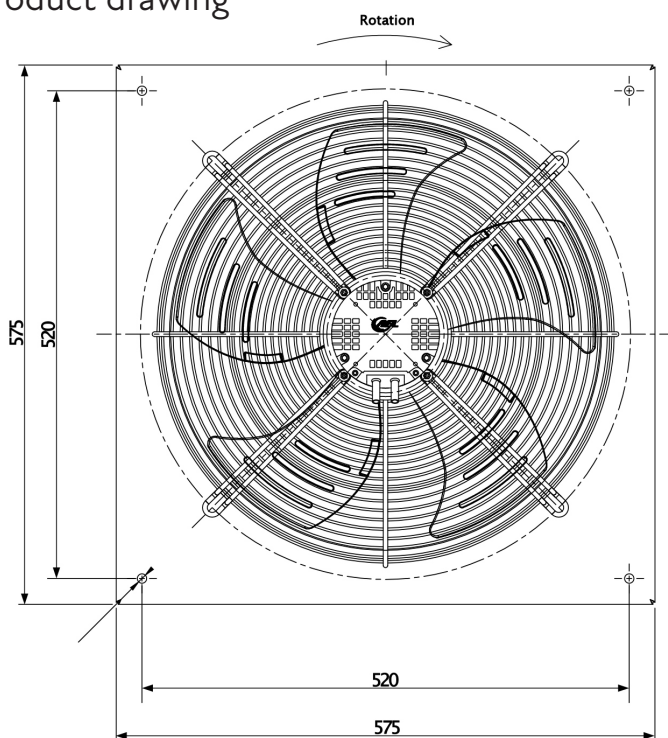
Connection	Color	Function
L	brown	230 V 50/60 Hz
1 N	blue	
PE	yellow / green	Protective earth

Connection	Color	Function
Vcc	red	DC 10V
2 Vsp	yellow	0-10V/PWM
GND	blue	GND
FG	white	1 Pulse/R

Model No. A3P450-EC092-002

■ suction □ blowing

■ Product drawing



Connection	Color	Function
L	brown	230 V 50/60 Hz
1 N	blue	
PE	yellow / green	Protective earth

Connection	Color	Function
Vcc	red	DC 10V
2 Vsp	yellow	0-10V/PWM
GND	blue	GND
FG	white	1 Pulse/R