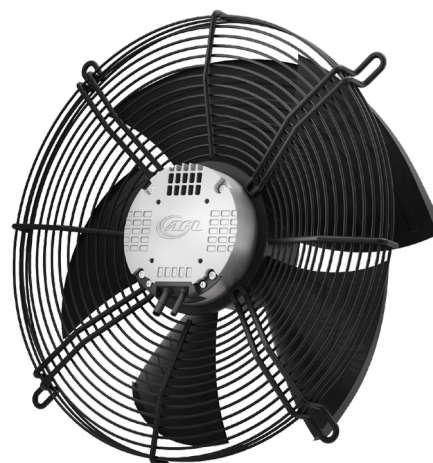


Model No. A3P450-EC102-040-045

EC Axial fan



Technical data

Voltage ⁽¹⁾	AC 230 [V]
Frequency	50/60 [Hz]
Speed	1700 ±10% [min ⁻¹]
Power nom. / Current nom.	400 [W] / 1.8 [A]
Power max. / Current max	429 [W] / 2.04 [A]
Air flow	max. 6080 [m ³ /h]
Noise	70 [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⁾	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 6.5 [kg] (-040,-041) Approx 11.5 [kg] (-042,-043) Approx 5.5 [kg] (-044,-045)
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, 3s

⁽³⁾ Tripping current: 10 mA, 1s

⁽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

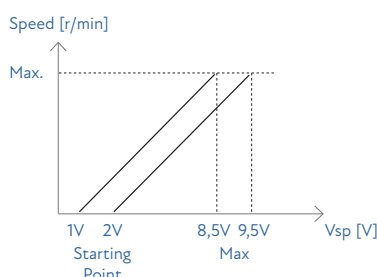


Fig. 1

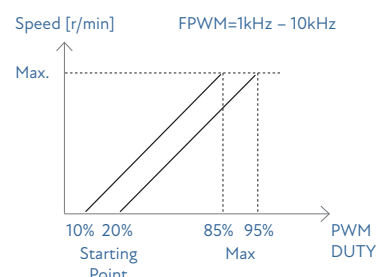


Fig. 2

Environmental requirement

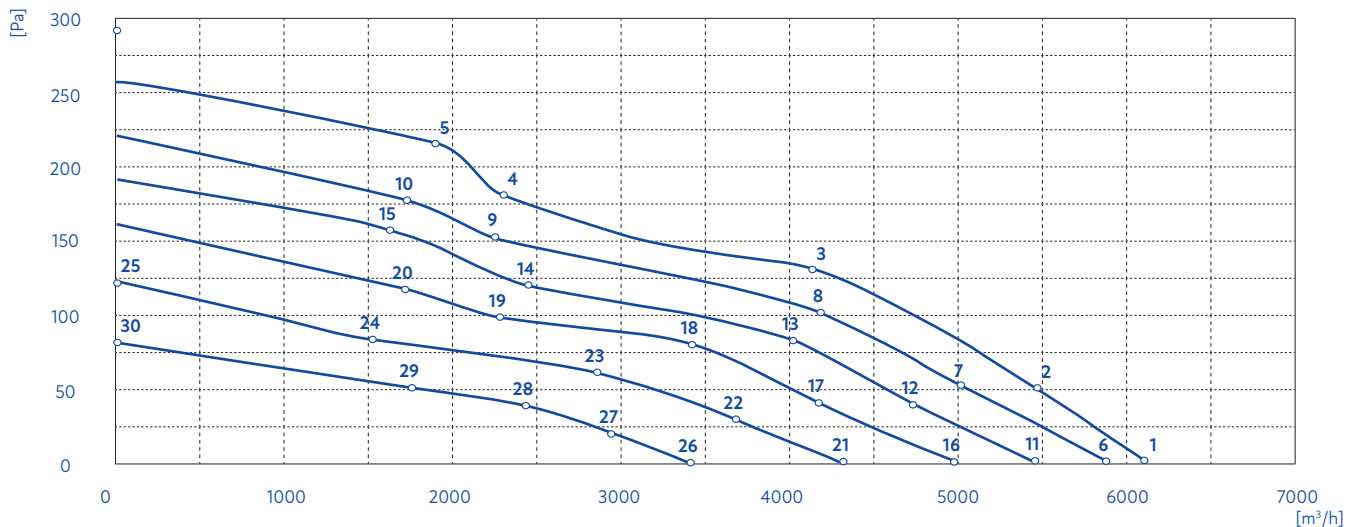
Storage temperature range	-25 – 60 [°C]
Operating, storage humidity	30 – 95 [%] RH non condensing
Operating temperature range	-20 – 60 [°C] heat sink of ic 115 [°C] max other electronic parts 85 [°C] max ball bearing 80 [°C] max coil 120 [°C] max

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

Model No. A3P450-EC102-040-045

Air performance



Item	Voltage [V]	Frequency [Hz]	Speed [min ⁻¹]	Power [W]	Current [A]	Airflow [m³/h]	Pressure [Pa]	Vsp [V]	Item	Voltage [V]	Frequency [Hz]	Speed [min ⁻¹]	Power [W]	Current [A]	Airflow [m³/h]	Pressure [Pa]	Vsp [V]
1	230	50	1726	368	1.71	6085	0	10	16	230	50	1410	195	0.92	4973	0	5
2	230	50	1699	389	1.80	5454	51		17	230	50	1344	200	0.94	4170	41	
3	230	50	1638	390	1.81	4119	131		18	230	50	1316	204	0.96	3410	80	
4	230	50	1577	407	1.91	2288	182		19	230	50	1307	205	0.97	2261	99	
5	230	50	1540	429	2.04	1889	216		20	230	50	1242	205	0.96	1713	117	
6	230	50	1651	323	1.50	5861	0		21	230	50	1230	130	0.63	4306	0	
7	230	50	1594	325	1.51	5008	51	7	22	230	50	1171	130	0.63	3672	30	4
8	230	50	1551	322	1.50	3269	127		23	230	50	1140	134	0.64	2847	61	
9	230	50	1470	317	1.47	2242	153		24	230	50	1079	136	0.65	1535	84	
10	230	50	1413	327	1.52	1723	178		25	230	50	955	135	0.65	0	122	
11	230	50	1542	261	1.22	5444	0	6	26	230	50	989	70	0.36	3410	0	3
12	230	50	1542	263	1.23	4731	40		27	230	50	957	69	0.36	2926	19	
13	230	50	1427	263	1.23	4014	81		28	230	50	933	73	0.38	2418	39	
14	230	50	1421	268	1.25	2436	121		29	230	50	942	77	0.39	1742	50	
15	230	50	1322	267	1.24	1623	157		30	230	50	774	75	0.38	0	80	

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.

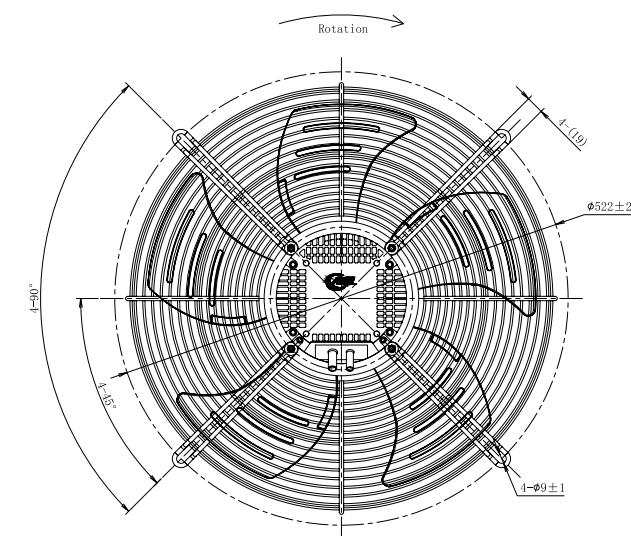
Others

- 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.

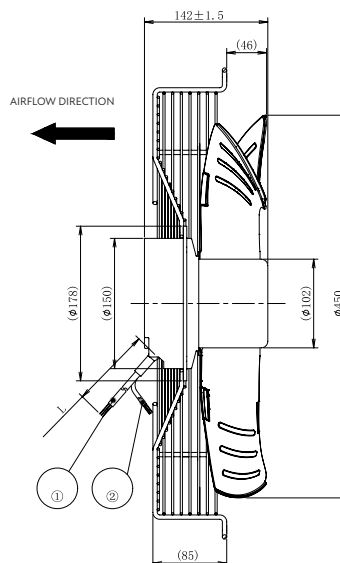
Model No. A3P450-EC102-040

■ suction □ blowing

■ Product drawing



Line	Connection	Color	Function
1	L	brown	Single-phase 50/60 Hz
	N	blue	
	PE	yellow / green	Protective earth

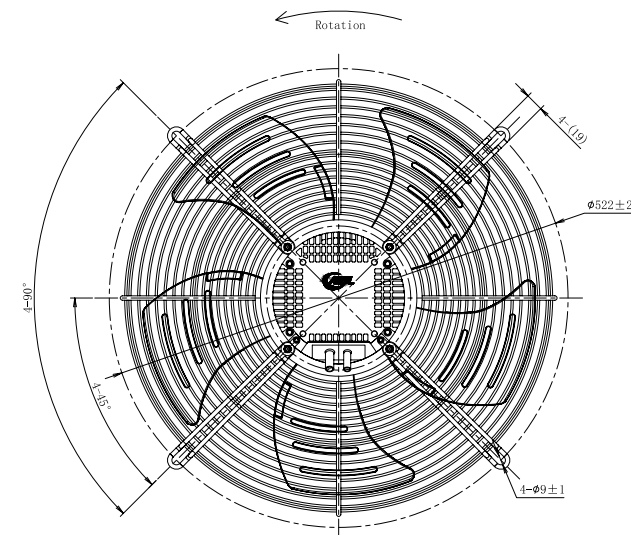


Line	Connection	Color	Function
2	Vcc	red	DC 10V
	Vsp	yellow	0-10V/PWM
	GND	blue	GND
	FG	white	12 Pulse/R

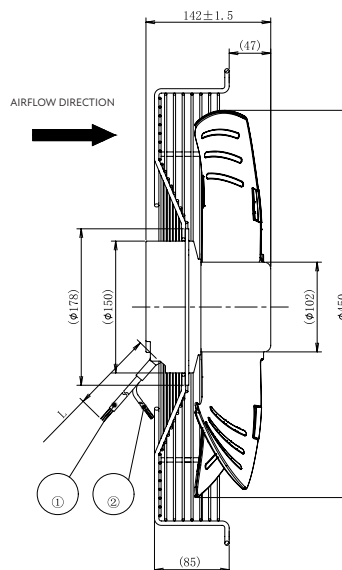
Model No. A3P450-EC102-041

□ suction ■ blowing

■ Product drawing



Line	Connection	Color	Function
1	L	brown	Single-phase 50/60 Hz
	N	blue	
	PE	yellow / green	Protective earth

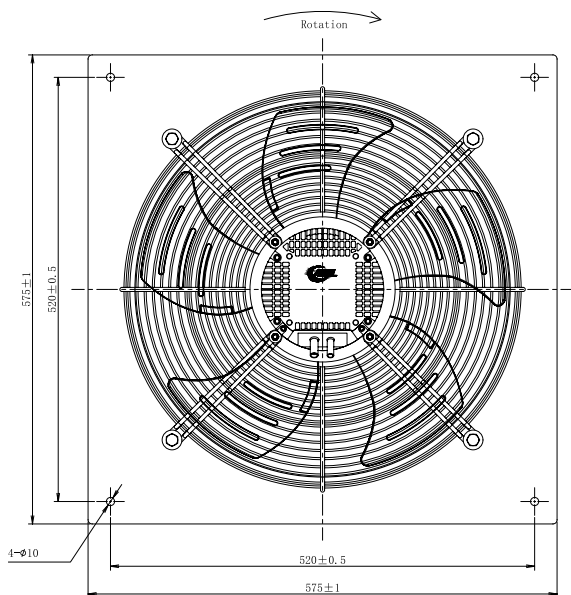


Line	Connection	Color	Function
2	Vcc	red	DC 10V
	Vsp	yellow	0-10V/PWM
	GND	blue	GND
	FG	white	12 Pulse/R

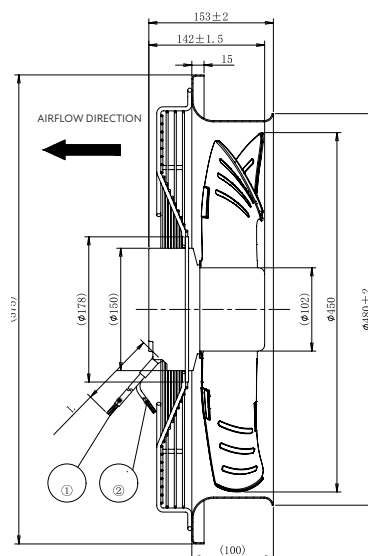
Model No. A3P450-EC102-042

■ suction □ blowing

Product drawing



Line	Connection	Color	Function
1	L	brown	Single-phase 50/60 Hz
	N	blue	
	PE	yellow / green	Protective earth

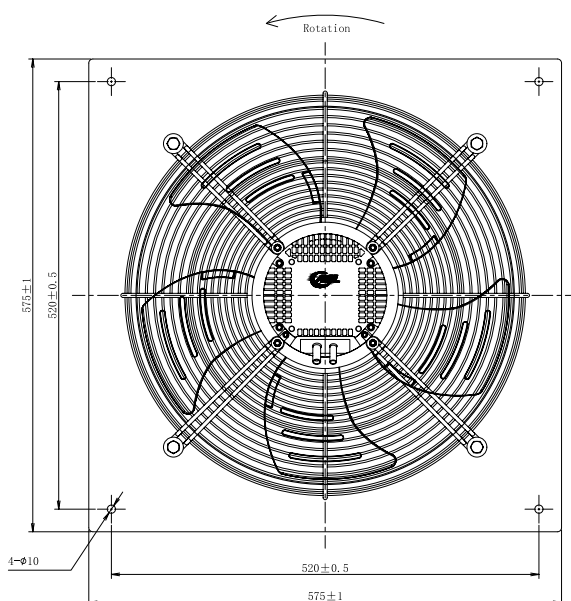


Line	Connection	Color	Function
2	Vcc	red	DC 10V
	Vsp	yellow	0-10V/PWM
	GND	blue	GND
	FG	white	12 Pulse/R

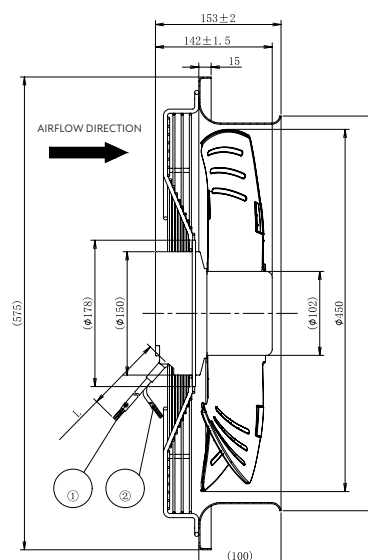
Model No. A3P450-EC102-043

□ suction ■ blowing

Product drawing



Line	Connection	Color	Function
1	L	brown	Single-phase 50/60 Hz
	N	blue	
	PE	yellow / green	Protective earth

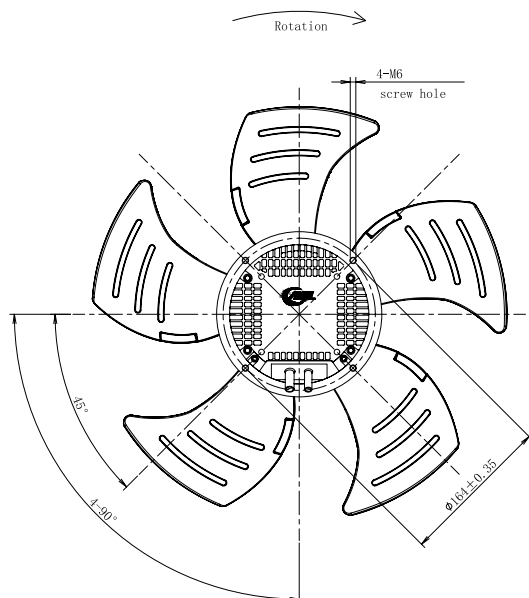


Line	Connection	Color	Function
2	Vcc	red	DC 10V
	Vsp	yellow	0-10V/PWM
	GND	blue	GND
	FG	white	12 Pulse/R

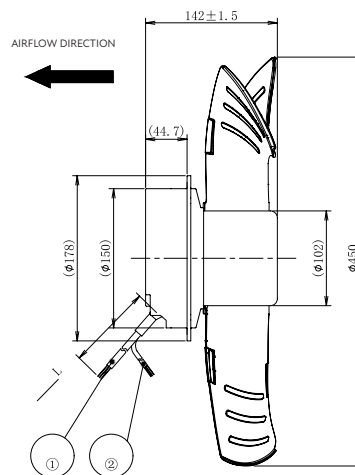
Model No. A3P450-EC102-044

■ suction □ blowing

■ Product drawing



Line	Connection	Color	Function
1	L	brown	Single-phase 50/60 Hz
	N	blue	
	PE	yellow / green	Protective earth

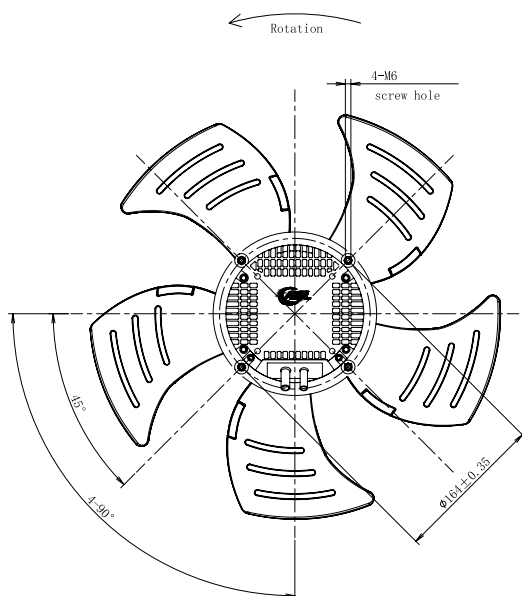


Line	Connection	Color	Function
2	Vcc	red	DC 10V
	Vsp	yellow	0-10V/PWM
	GND	blue	GND
	FG	white	12 Pulse/R

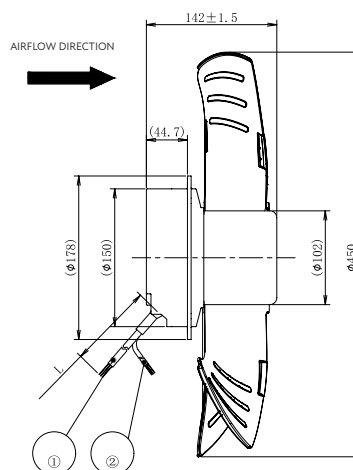
Model No. A3P450-EC102-045

□ suction ■ blowing

■ Product drawing



Line	Connection	Color	Function
1	L	brown	Single-phase 50/60 Hz
	N	blue	
	PE	yellow / green	Protective earth



Line	Connection	Color	Function
2	Vcc	red	DC 10V
	Vsp	yellow	0-10V/PWM
	GND	blue	GND
	FG	white	12 Pulse/R