

AC Axial Fan  
**KA**



□ 92 × 38 (□ 3.6" × 1.5")  
 Max. airflow: 1.1 m<sup>3</sup>/min (50 Hz)  
 1.3 m<sup>3</sup>/min (60 Hz)  
 Max. static pressure:  
 62 Pa (50 Hz) 80 Pa (60 Hz)  
 Mass: 450 g

Fan model code

- KA2B4
- KA47D5
- KA52B3
- KA52B5
- KA55B3
- KA55B4
- KA60B3
- KA60B5
- KAJ55B4
- KAJ60B5

**Standard specification**

(\*1: Rated values appear on name plate)

Max. Airflow m <sup>3</sup> /min	Max. Static Pressure Pa	Noise dB	Speed min <sup>-1</sup>	Rated Vol. V (±10 %)	Freq. Hz	Input W *1	Current mA*1	Lock Current mA	Model Code				
									Lead Wire Type	Std*2	Terminal Type	Std*2	
1.1/ 1.3	39/ 46	62/ 80	0.25/ 0.32	31/ 38	2850/ 3300	50/ 60	8.5/8 7/6	200/160 200/160	200/160 200/160	KA55B4	U	KA55B3	UP
										KAJ55B4	P		
										KA60B5	U	KA60B3	UP
										KAJ60B5	P		
										KA2B4	U		
0.8/ 0.9	28/ 32	29/ 36	0.12/ 0.15	26/ 28	2250/ 2650	50/ 60	8/7	180/150 180/150	180/150 180/150	KA52B5	U	KA52B3	UP
										KA47D5	U		

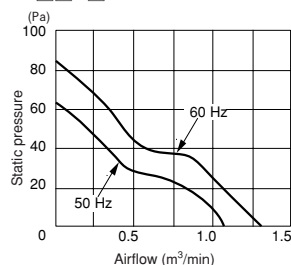
- Figures in the table are average measured values. Please request the product delivery specification when preparing a purchase specification.
- \*2: The symbols in the standards column denote that they are registered in the following standards files, U: UL E48889
- \*2: Products conforming to the specifications of the Electrical Appliance and Material Safety Law (Japan) can be used in case the products are assembled in electric appliances used in Japan. (Products marked with the (PSE)E mark)

**General specification**

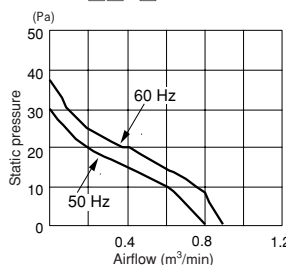
Materials Used	Venturi: Aluminum alloy die casting Propeller: PBT resin Bearing: Double - sided shielded ball bearing
Motor	Shaded pole induction motor Protection type: Impedance protection
Common Elec. Spec.	See page G-12.
Usage Range	Rated voltage ±10 %
Operating Temp. Range	-20 °C ~ +60 °C
Standard Carton	20 to a carton of (450 x 380 x 150) mm, mass 10 kg

**Standard airflow and static pressure characteristics (At rated voltage)**

KA□□B□

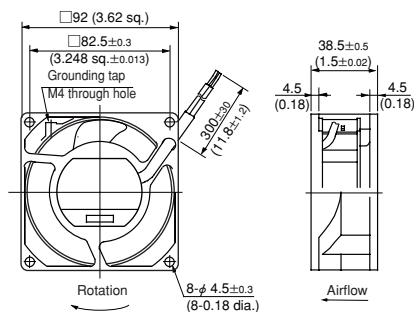


KA□□D□

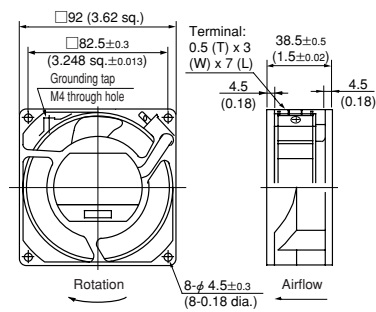


**External dimensions in mm (inches)**

● Lead wire type (KA□□□4/KA□□□5)



● Terminal type (KA□□□3)

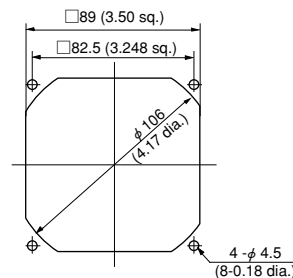


Lead wire specification  
 KAJ series: Heat resistant PVC 0.75 mm<sup>2</sup> (30 conductors, 0.18 dia.)  
 KA series: AWG22 UL1015

**Mounting hole dimensions in mm (inches)**  
[Recommendation]

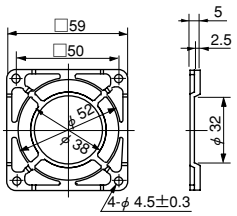
Options (sold separately)

- Guard: F92UL guard
- Filter: F92 filter
- Power code: T2P1 code, D2P1 code, UL2P1 code



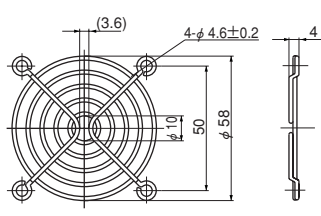
Identical for the intake and outlet sides

**F60P Guard (Mass 4 g)**



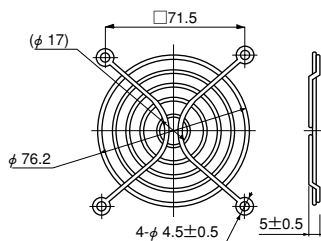
Material: Polycarbonate (black)  
UL94V-2

**F60UL Guard (Mass 12 g)**



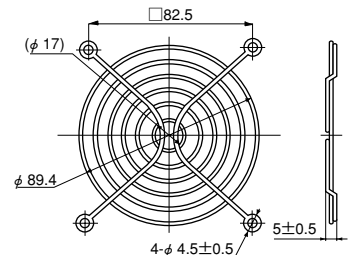
Material: Mild steel wire 1.6 dia.  
Surface treatment:  
Nickel chromium plating

**F80UL Guard (Mass 14 g)**



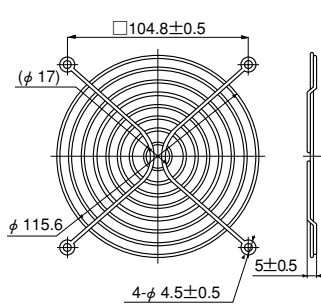
Material: Mild steel wire 1.6 dia.  
Surface treatment:  
Nickel chromium plating

**F92UL Guard (Mass 16 g)**



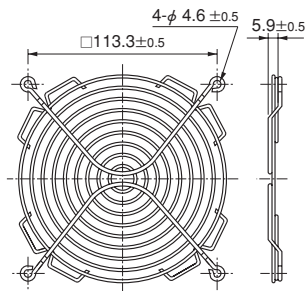
Material: Mild steel wire 1.6 dia.  
Surface treatment:  
Nickel chromium plating

**F120UL Guard (Mass 29 g)**



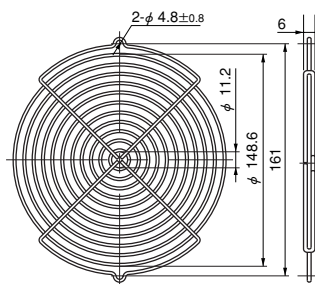
Material: Mild steel wire 1.6 dia.  
Surface treatment:  
Nickel chromium plating

**F127UL Guard**



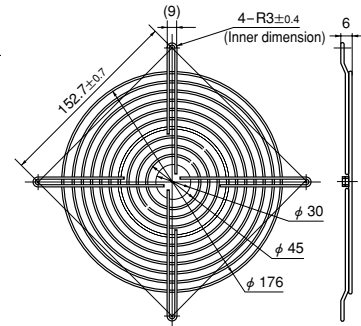
Material: Mild steel wire 1.6 dia.  
Surface treatment:  
Nickel chromium plating

**GUARD 172**



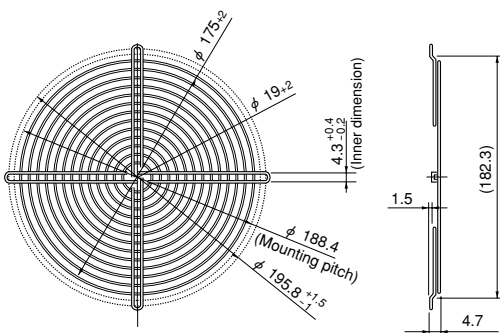
Material: Mild steel wire 2 dia.  
Surface treatment:  
Nickel chromium plating

**F180UL Guard**



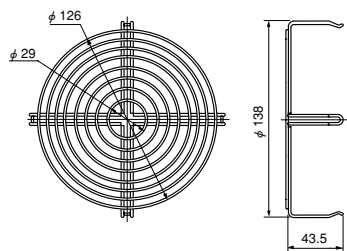
Material: Mild steel wire 1.6 dia.  
Surface treatment:  
Nickel chromium plating

**F200UL Guard (Mass 82 g)**



Material: Mild steel wire 1.6 dia.  
Surface treatment:  
Nickel chromium plating

**SCN Guard (Mass 55 g)**



Material: Mild steel wire 1.6 dia.  
Surface treatment:  
Nickel chromium plating

• Guard special for intake side of  
SCN (metal venturi) fans.

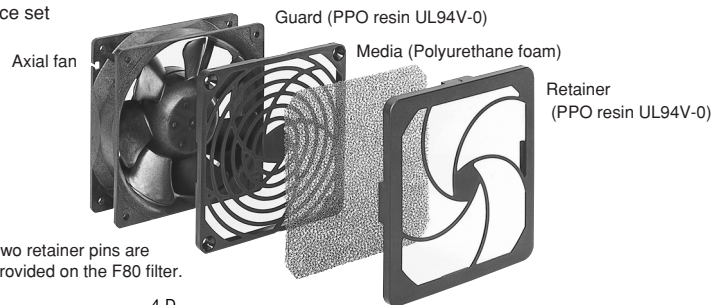
List of mating fan series

Guard	F60P	F60UL	F80UL	F92UL	F120UL	F127UL	GUARD 172	F180UL	F200UL	SCN
SCN					○*1					○*2
AC Axial Fans			○	○						
VE			○							
WE				○						
KA				○						
CU					○					
CN					○					
MA								○		
PA								○		
DC Axial Fans	○	○	○	○	○	○	○	○	○	○
TUDC	○	○								
PUDC			○							
KUDC				○						
DO925C				○						
KLDC				○						
CUDC					○					
D1225C					○					
DC Axial Fans										
CNDC					○					
D1238T					○					
D1238B					○					
D1338B						○				
D1338S						○				
D1751M							○			
D1751S							○			
G0638D		○								
G0838C			○							
G0938B				○						
G1238B					○					
G1751M								○		

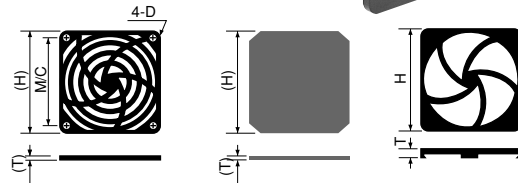
\*1: Can be installed only on outlet side. \*2: Can be installed only on intake side.  
All guards conform to the UL standard when combined with NIDEC SERVO fans.  
The installation of a filter, guard and other accessories will constitute a ventilating load, reducing the airflow. Select a suitable guard, taking into consideration the increase in air resistance. (See Figs. 12 and 13 on page G-7.)

## Filter

3-piece set



Note: Two retainer pins are provided on the F80 filter.



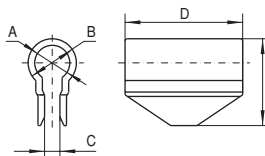
## List of mating fan series

Filter	F80	F92	F120
PUDC	○		
KUDC		○	
D0925C		○	
KLDC		○	
CUDC			○
D1225C			○
CNDC			○
D1238T			○
D1238B			○
G0838C	○		
G0938B		○	
G1238B			○

Filter	F80	F92	F120
VE	○		
WE		○	
KA		○	
CU			○
CN			○

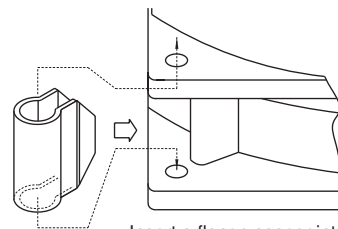
Component (Model Code)	H	T	M/C	D
<b>F80 Filter</b>	83.6	10	71.5	φ 3.8
<b>F92 Filter</b>	96.5	10	82.5	φ 3.8
<b>F120 Filter</b>	123.7	10.7	104.8	φ 4.6

## Flange spacer



Component (Model Code)	A mm	B mm	C mm	D mm	E mm	Mating Model Code
Flange Spacer PUDC (※)	5	8	2	17	14.5	KUDC,PUDC
Flange Spacer CUDC (※)	8	11	3.5	15	19.8	CUDC
Flange Spacer CNDC	8	11	3.5	28	19.8	CNDC

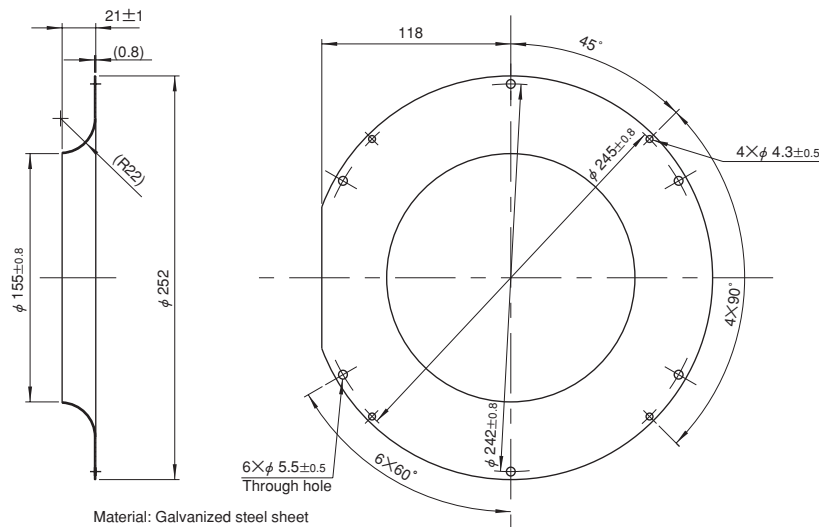
※Ribbed venturis (PUDC-R, CUDC-R) are available for PUDC and CUDC.



Insert a flange spacer into the ribs of a venturi.

(Installing a flange spacer)

## Inlet ring



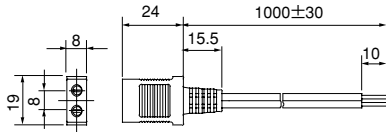
Component (Model Code)	Mating Model Code
E2271 Inlet ring	E2271Z

## Plug cords for AC fans

(Common specification: Rated 3 A, voltage 250 V, dielectric strength 1 minute at 1500 V 50 Hz)

### D2P1 cord (Mass 35 g)

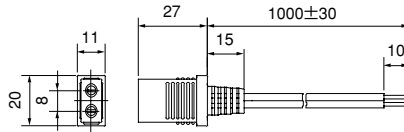
Certified under the Electrical Appliance and Material Safety Law (Japan) (<PS>E mark approved)  
Cord 0.18 dia. 30 conductors Black, heat resistant vinyl



\* D2P2 cord with 2m length also available.

### UL2P1 cord (Mass 41 g)

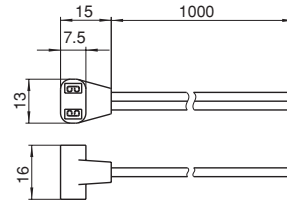
UL standard product (UL file No. E78112)  
Cord 0.16 dia. 41 conductors Black, heat resistant vinyl



\* UL2P2 cord with 2m length also available.

### T2P1 cord

For wiring inside equipment  
Cord 0.18 dia. 30 conductors Black, heat resistant vinyl

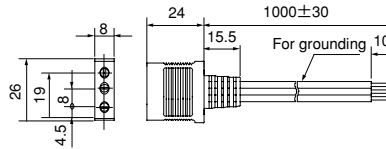


\* T2P2 cord with 2m length also available.

### D3P1 cord (Mass 59 g)

Certified under the Electrical Appliance and Material Safety Law (Japan) (<PS>E mark approved)  
Cord:

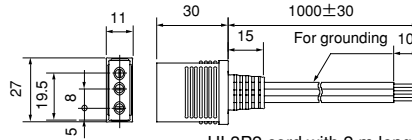
For power feeding 0.18 dia. 30 conductors Black, heat resistant vinyl  
For grounding 0.18 dia. 50 conductors Black, heat resistant vinyl



### UL3P1 cord (Mass 60 g)

UL standard product (UL file No. E78112)  
Cord:

For power feeding 0.16 dia. 41 conductors Black, heat resistant vinyl  
For grounding AWG18 green/yellow spiral, heat resistant vinyl



\* UL3P2 cord with 2 m length also available.

## List of mating fan series

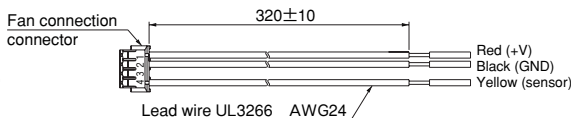
Cord	T2P1	T2P2	D2P1	D2P2	D3P1	UL2P1	UL2P2	UL3P1	PL3P2
WE	○	○	○	○		○	○		
KA	○	○	○	○		○	○		
CU	○	○	○	○		○	○		
CN (2 terminals)	○	○	○	○		○	○		
CN (3 terminals)					○			○	○
MA	○	○	○	○		○	○		
PA	○	○	○	○		○	○		

## Plug cords for DC fans

### DCLD030ST-ZZ01 (S sensor output cord)



### DCLD030PT-ZZ01 (P sensor output cord)



• Lead wire ends are sheathed to protect conductors. (Sheath peeling dimension 10±5)

Component (Model Code)	Mating Model Code
DCLD030ST-ZZ01	E1033H□□B□AM-04
DCLD030PT-ZZ01	