

AC Axial Fan CN



□ 120 × 38 (□ 4.7" × 1.5")
Max. airflow: 2.6 m³/min (50 Hz)
3.0 m³/min (60 Hz)
Max. static pressure:
83 Pa (50 Hz) 88 Pa (60 Hz)
Mass: 500 g

Fan model code

CN115B5

CN2B2

CN2B3

CN2B5

CN47D2

CN47D3

CN47D5

CN48B3

CN48D3

CN48D5

CN50B5

CN52B2

CN52B3

CN52B5

CN55B2

CN55B3

CN55B5

CN60B2

CN60B3

CN60B5

CNJ47D5

CNJ48D5

CNJ55B5

CNJ60B5

Standard specification

(*1: Rated values appear on name plate)

Max. Airflow m³/min	CFM	Max. Static Pressure Pa	inH ₂ O	Noise dB	Speed min ⁻¹	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
2.6/ 3.0	92/ 106	83/ 88	0.33/ 0.35	44/ 48	2800/ 3200	100	50/ 60	14/12	200/180	300/270	CN55B5	UC	CN55B3, CN55B2	UCP
								15/13	200/180	300/270	CNJ55B5	P		
								14/12	110/90	155/135	CN60B5	UC	CN60B3, CN60B2	UCP ^{Note}
								15/13	110/90	155/135	CNJ60B5	P		
								16/13	200/170	300/260	CN2B5	UC	CN2B3, CN2B2	UCP
								14/13	110/90	160/140	CN52B5	UC	CN52B3, CN52B2	UCP ^{Note}
2.4/ 2.8	85/ 99	74/ 84	0.30/ 0.34	43/ 47	2700/ 3150	115	50/ 60	18/15	120/100	140/120			CN48B3	UP
								11/10	150/130	210/180	CN115B5	UCT		
								13/13	100/90	130/120	CN50B5	UCT		
1.6/ 1.6	56/ 56	23/ 24	0.09/ 0.10	33/ 35	1700/ 1800	100-120	50/ 60	9/8.5	110/100	110/100	CN47D5	UCT	CN47D3, CN47D2	UCP
								8.5/8	110/100	110/100	CNJ47D5	P		
								9/8.5	60/50	60/50	CN48D5	UCT	CN48D3	UCP
								9/8.5	60/50	60/50	CNJ48D5	P		

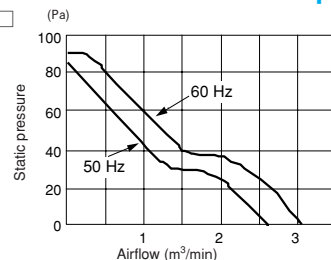
- Figures in the table are average measured values. Please request the product delivery specification when preparing a purchase specification.
 - *2: The symbols in the standards column denote that they are registered in the following standards files, U: UL E48889, C: CSA LR49399, LR108118 T: TUV R60229-60302
 - *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 (PS)E mark)
- (Note) Since CN60B2, and CN52B2, do not have a ground terminal, they are not products conforming to the specifications of the Electrical Appliance and Material Safety Law (Japan)

General specification

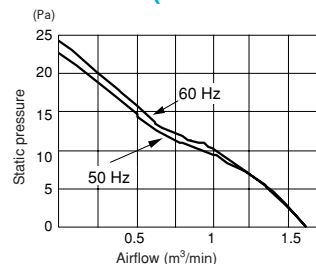
Materials Used	Venturi: Aluminum alloy die casting Propeller: Glass fiber reinforced polycarbonate resin Bearing: Double - sided shielded ball bearing
Motor	Shaded pole induction motor Protection type: Impedance protection
Common Elec. Spec.	See page G-12.
Usage Range	Rated voltage ±10 %
Operating Temp. Range	-20 °C ~ +60 °C (-20 °C ~ +55 °C in TÜV standard)
Standard Carton	20 to a carton of (450 x 380 x 160) mm, mass 11 kg

Standard airflow and static pressure characteristics (At rated voltage)

CN□□B□

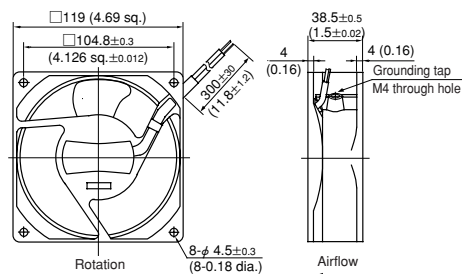


CN□□D□



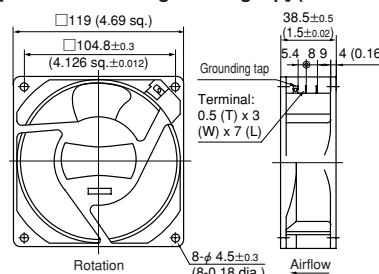
External dimensions in mm (inches)

Lead wire type (CN□□□5)



Lead wire specification
CNJ series: Heat resistant PVC 0.75 mm² (30 conductors, 0.18 dia.)
CN series: AWG22 UL1015

Terminal type [2 terminals: without grounding tap] (CN□□□2) [3 terminals: with grounding tap] (CN□□□3)

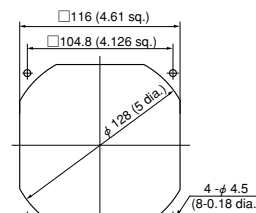


(Note) There is no grounding tap for CN series terminal type.

Mounting hole dimensions in mm (inches) [Recommendation]

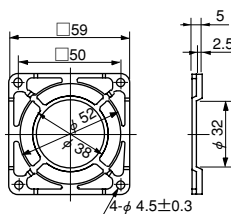
Options (sold separately)

- Guard: F120UL guard
- Filter: F120 filter
- Power code: T2P1 code, D2P1 code, UL2P1 code (for 2 terminals)
D3P1 code, UL3P1 code (for 3 terminals)



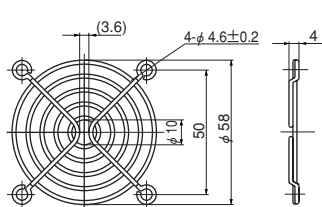
Identical for the intake and outlet sides

F60P Guard (Mass 4 g)



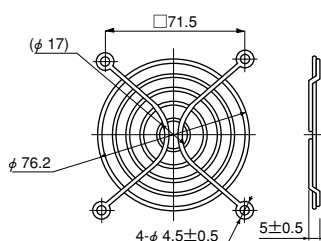
Material: Polycarbonate (black)
UL94V-2

F60UL Guard (Mass 12 g)



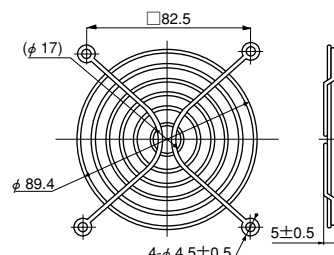
Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

F80UL Guard (Mass 14 g)



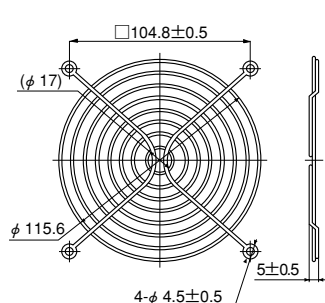
Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

F92UL Guard (Mass 16 g)



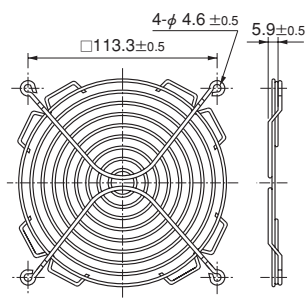
Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

F120UL Guard (Mass 29 g)



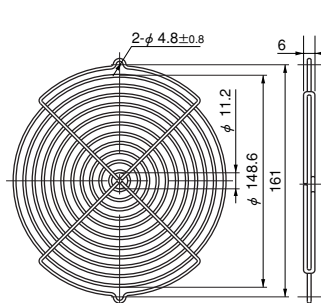
Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

F127UL Guard



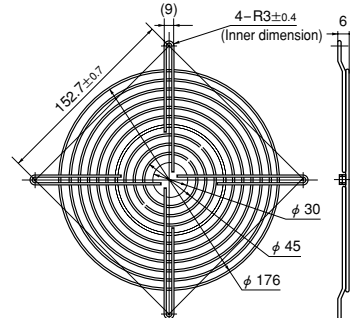
Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

GUARD 172



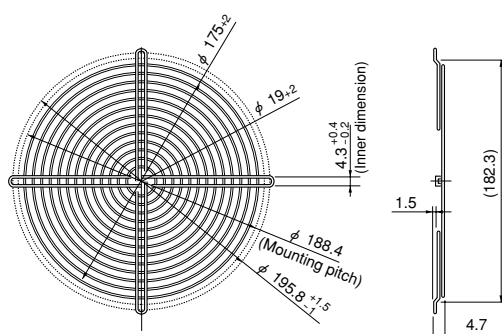
Material: Mild steel wire 2 dia.
Surface treatment:
Nickel chromium plating

F180UL Guard



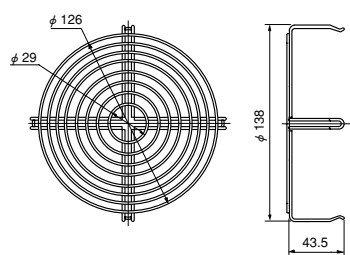
Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

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.

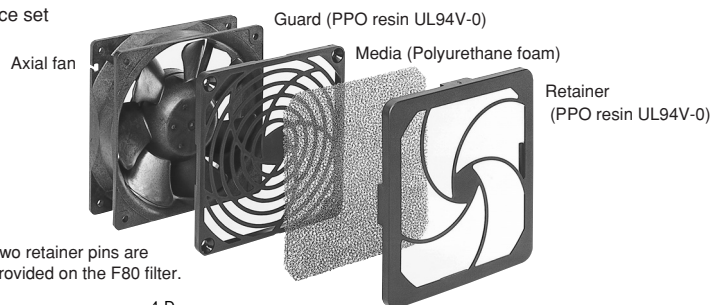
List of mating fan series

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

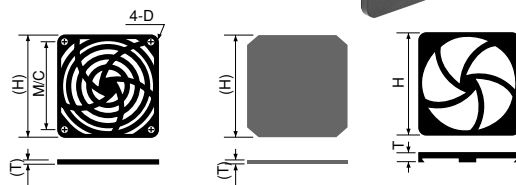
*1: Can be installed only on outlet side. *2: Can be installed only on intake side.
All guards conform to the UL standard when combined with NIDEC SERVO fans.
The installation of a filter, guard and other accessories will constitute a ventilating load, reducing the airflow. Select a suitable guard, taking 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.



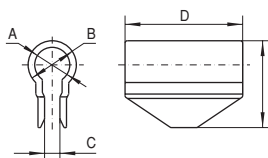
List of mating fan series

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			○

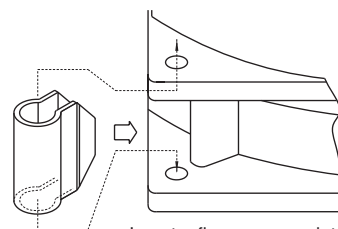
Component (Model Code)	H	T	M/C	D
F80 Filter	83.6	10	71.5	φ 3.8
F92 Filter	96.5	10	82.5	φ 3.8
F120 Filter	123.7	10.7	104.8	φ 4.6

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

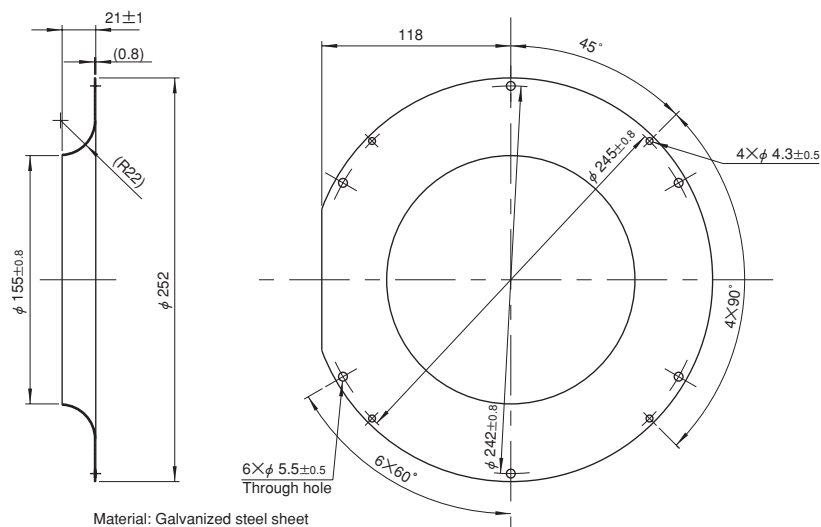
※Ribbed venturis (PUDC-R, CUDC-R) are available for PUDC and CUDC.



Insert a flange spacer into the ribs of a venturi.

(Installing a flange spacer)

Inlet ring



Material: Galvanized steel sheet

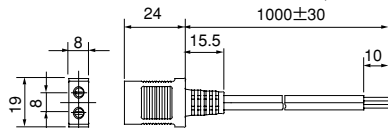
Component (Model Code)	Mating Model Code
E2271 Inlet ring	E2271Z

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)

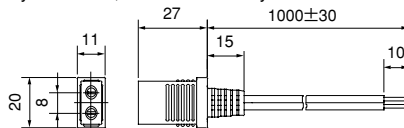
Certified under the Electrical Appliance and Material Safety Law (Japan) (<PS>E mark approved)
Cord 0.18 dia. 30 conductors Black, heat resistant vinyl



* D2P2 cord with 2m length also available.

UL2P1 cord (Mass 41 g)

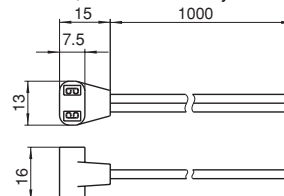
UL standard product (UL file No. E78112)
Cord 0.16 dia. 41 conductors Black, heat resistant vinyl



* UL2P2 cord with 2m length also available.

T2P1 cord

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

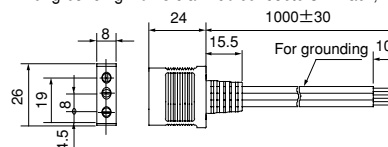


* T2P2 cord with 2m length also available.

D3P1 cord (Mass 59 g)

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

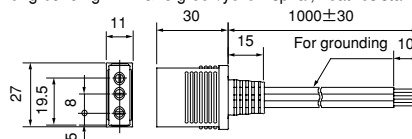
For power feeding 0.18 dia. 30 conductors Black, heat resistant vinyl
For grounding 0.18 dia. 50 conductors Black, heat resistant vinyl



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



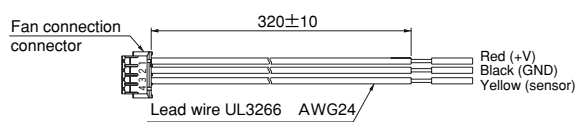
* UL3P2 cord with 2 m length also available.

List of mating fan series

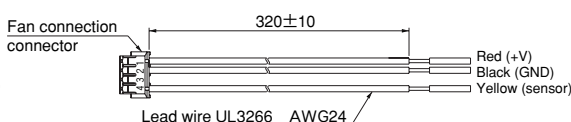
Cord	T2P1	T2P2	D2P1	D2P2	D3P1	UL2P1	UL2P2	UL3P1	PL3P2
WE	○	○	○	○		○	○		
KA	○	○	○	○		○	○		
CU	○	○	○	○		○	○		
CN (2 terminals)	○	○	○	○		○	○		
CN (3 terminals)					○			○	○
MA	○	○	○	○		○	○		
PA	○	○	○	○		○	○		

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	