

92mm sq.

San Ace 92

25mm thick
with an external thermistor/
with a built-in thermistor



General Specifications

- Material Frame: Plastics (Flammability: UL94V-0), Impeller: Plastics (Flammability: UL94V-1)
- Life Expectancy Varies for each model (L10: Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire ⊕red ⊖black (Control) brown (Only for external thermistor type)
- Fail-safe The motor becomes high speed when the thermistor is unable to detect the temperature in case of open or short circuit etc. (Models equipped with a pulse sensor are excluded.)
- Storage Temperature ... -30°C to +70°C (Non-condensing)

92×92×25mm [Mass : 150g]

Specifications with an external thermistor The numbers in () represent ribless models.

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Air Flow [m ³ /min] [CFM]	Static Pressure [Pa] [inchH ₂ O]	SPL [dB(A)]	Operating Temperature [°C]	Life Expectancy [h]
109P0912T4H12(121)	12	10.2 to 13.8	0.2	2.4	2,850	1.45 51.2	45.1 0.181	33	-10 to +60	40,000
			0.1	1.2	1,400	0.71 25.0	11.3 0.045	18		

Note: The top row gives characteristics shown when the thermistor temperature is 35°C, while the bottom row gives characteristics shown when the thermistor temperature is 28°C.

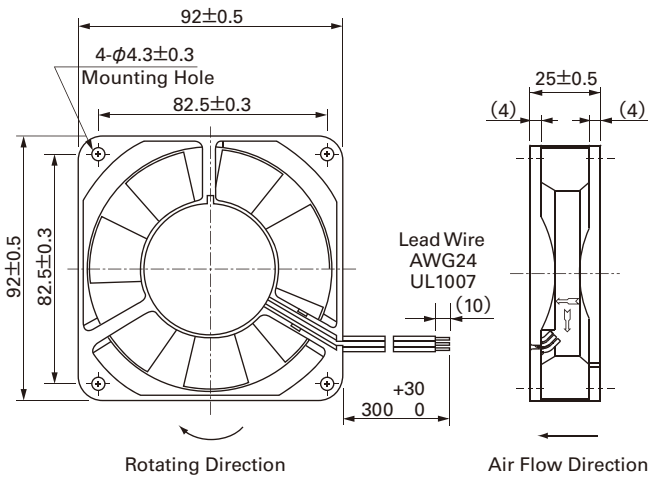
with a built-in thermistor The numbers in () represent ribless models.

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Air Flow [m ³ /min] [CFM]	Static Pressure [Pa] [inchH ₂ O]	SPL [dB(A)]	Operating Temperature [°C]	Life Expectancy [h]
109P0912T4H122(123)	12	10.2 to 13.8	0.2	2.4	3,000	1.52 53.7	50.0 0.201	35	-10 to +60	40,000
			0.1	1.2	1,400	0.71 25.0	11.3 0.045	18		

Note: The top row gives characteristics shown when the temperature is 40°C, while the bottom row gives characteristics shown when the temperature is 30°C.

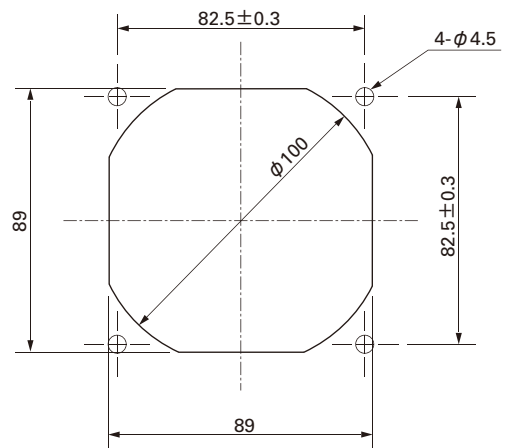
Dimensions (Unit : mm) (With ribs)

with an external thermistor

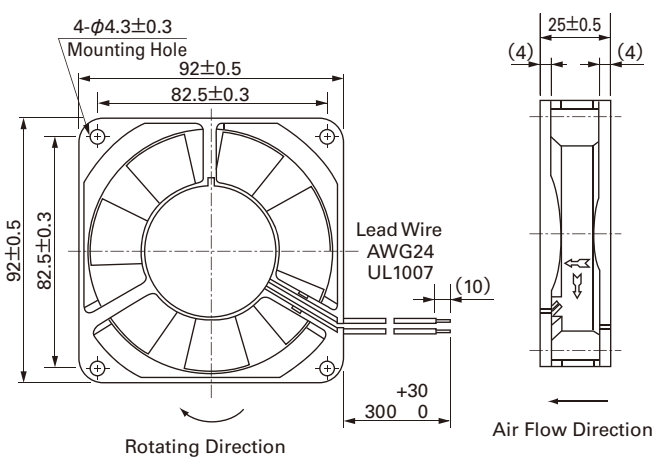


Reference dimension of mounting holes and vent opening (Unit : mm)

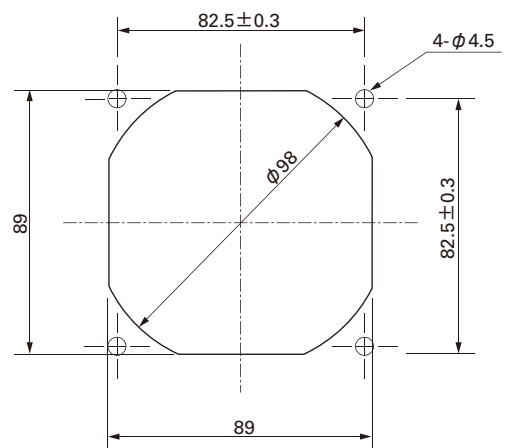
Outlet side



with a built-in thermistor



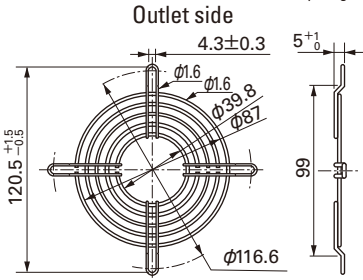
Inlet side



Options (Unit : mm)

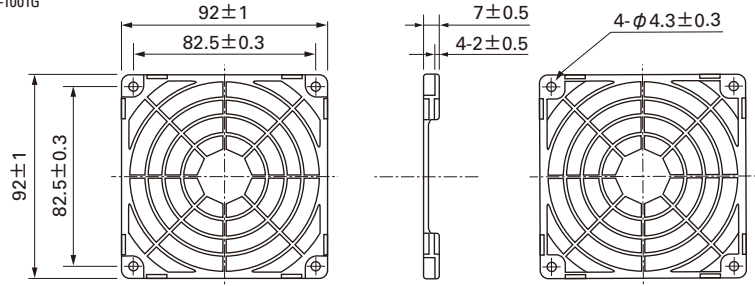
Finger guards

Model : 109-099C Surface treatment : Nickel-chrome plating (silver) Color : 109-099H : Cation electropainting (black)



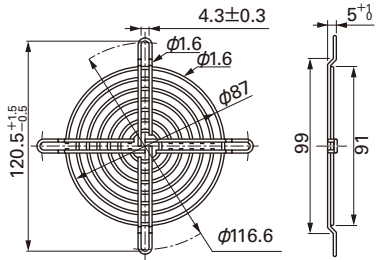
Resin finger guards

Model : 109-1001G



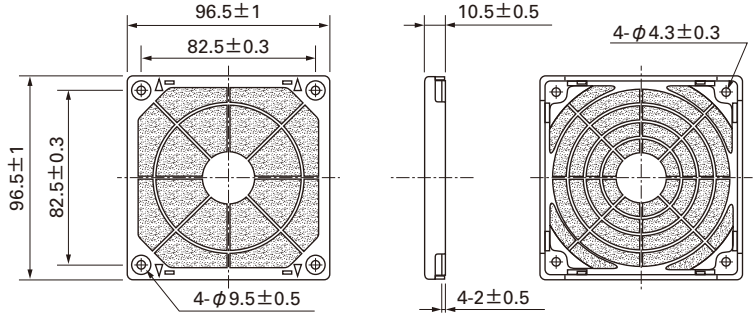
Model : 109-099E Surface treatment : Nickel-chrome plating (silver) Color : 109-099H : Cation electropainting (black)

Inlet side, Outlet side



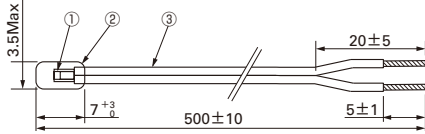
Resin filter kits

Model : 109-1001F13 (13PPI), 109-1001F20 (20PPI), 109-1001F30 (30PPI), 109-1001F40 (40PPI)



Thermistor

Model : 169-002

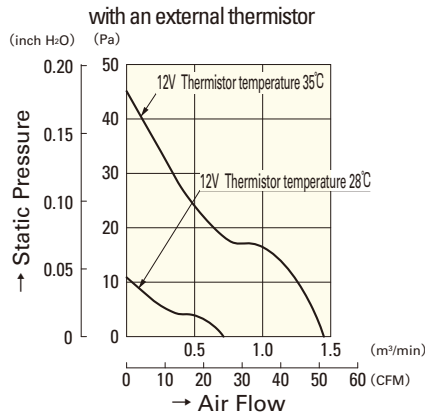


Number	Name	Standards, materials, etc.
①	Thermistor	Chip
②	Insulated cord	Epoxy resin
③	Lead	UL2555 CSA TR-64 AWG#28 (blue)

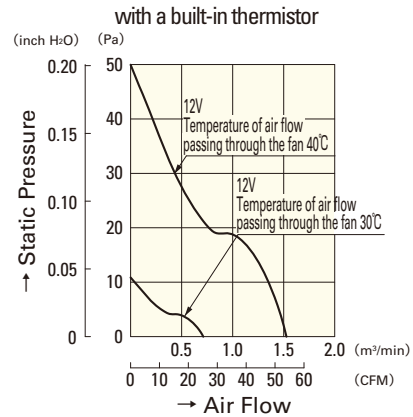
Item	Spec	
2-1	Resistance	R25 6.8KΩ ± 3%
2-2	B constant	B25/50 3950K ± 2%
2-3	Maximum rated power	188mW (25°C under still air)
2-4	Insulation resistance	100MΩ or more (DC500V megger)
2-5	Dielectric strength	No problem (AC1500V 1 minute)
2-6	Operating temperature range	-30°C to +80°C
2-7	Storage temperature range	-40°C to +100°C

Manufactured by OHIZUMI MGF CO.,LTD.

Air Flow and Static Pressure Characteristics



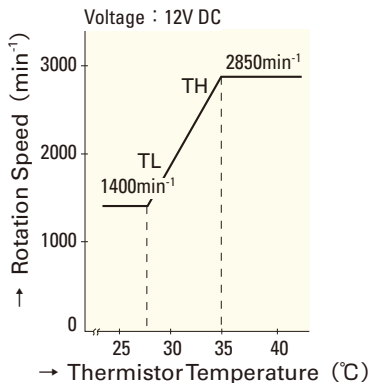
109P0912T4H12(121)



109P0912T4H122(123)

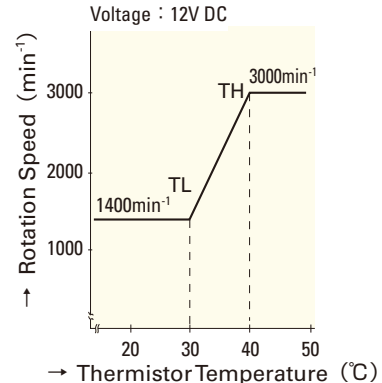
Temperature-Rotation Speed Characteristics

with an external thermistor
 ■ Characteristics of Thermistor-detected Temperature vs Speed



109P0912T4H12(121)

with a built-in thermistor
 ■ Typical characteristics of temperature of air flowing through the fan versus rotation speed



109P0912T4H122(123)

Mouser Electronics

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