

60mm sq.**San Ace 60**

15mm thick, 20mm thick, 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)

60×60×25mm (Mass : 90g)**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]
109R0612T4H12(121)	12	10.2 to 13.8	0.13	1.56	3,800	0.53	18.7	40.2	0.161	28	-10 to +60	60,000
			0.10	1.20	1,900	0.26	9.2	9.8	0.039	15		

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.

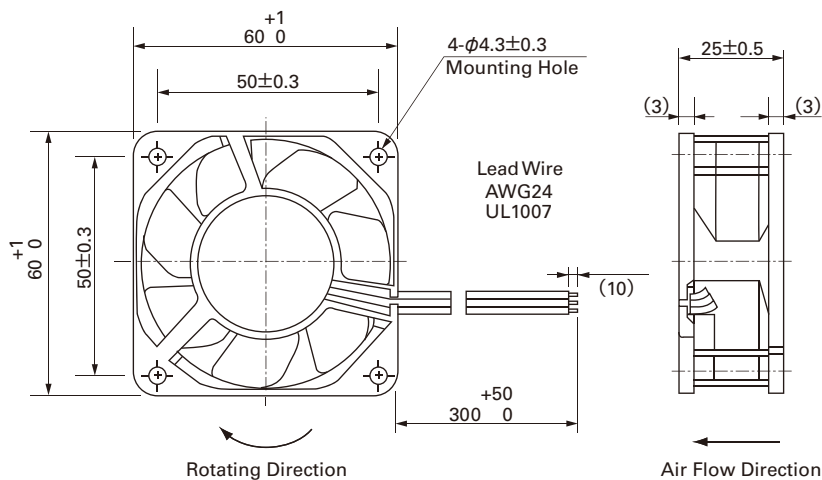
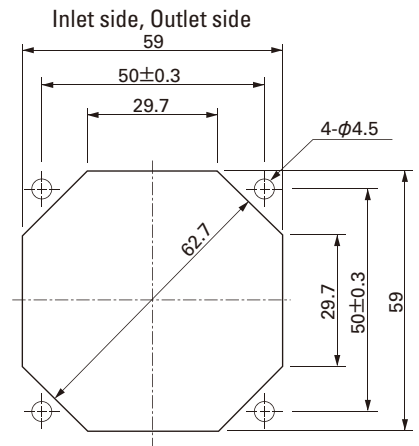
with a built-in thermistor The numbers in () represent ribless models.

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]
109R0612T4H122(123)	12	10.2 to 13.8	0.13	1.56	3,950	0.55	19.4	41.8	0.168	28	-10 to +60	60,000
			0.10	1.20	1,950	0.27	9.5	10.3	0.041	15		

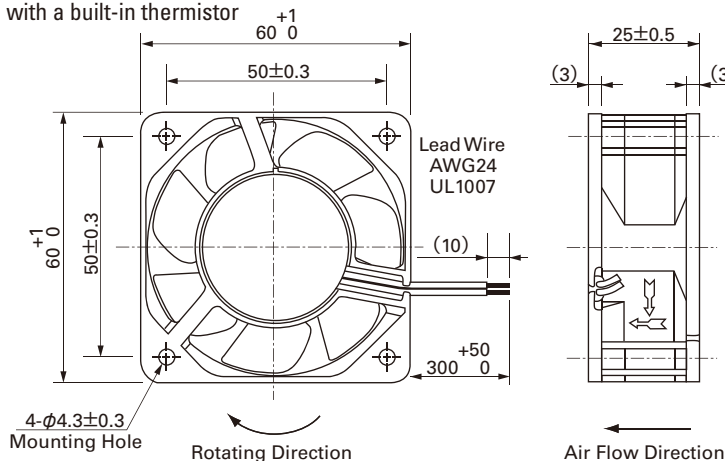
Note: The top row gives characteristics shown when the temperature is 40°C, while the bottom row gives characteristics shown when the temperature is 30°C.

Dimensions (Unit : mm) (With ribs)

with an external thermistor

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

with a built-in thermistor

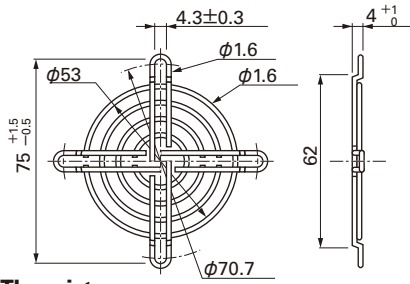


Options (Unit : mm)

Finger guards

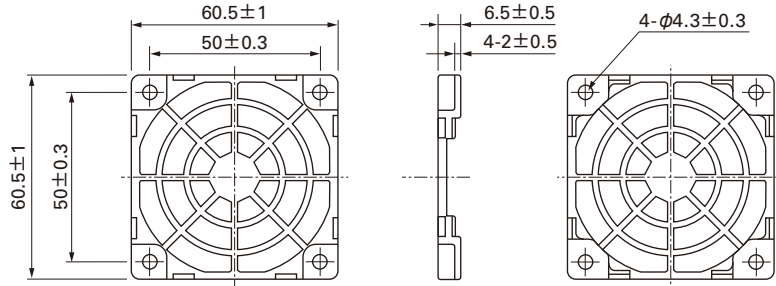
Model : 109-139E Surface treatment : Nickel-chrome plating (silver)
: Cation electropainting (black)

Inlet side, Outlet side



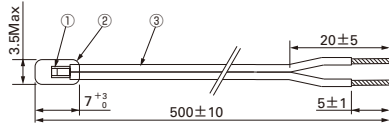
Resin finger guards

Model : 109-1003G



Thermistor

Model : 169-002

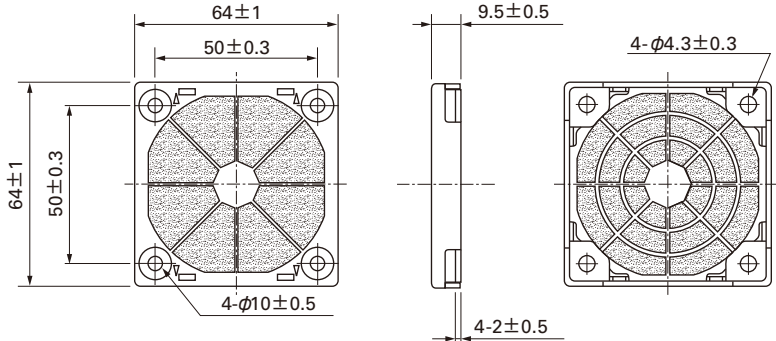


Number	Name	Standards, materials, etc.
①	Thermistor	Chip
②	Insulated cord	Epoxy resin
③	Lead	UL2555 CSA TR-64 AWG#28 (blue)
Item	Spec	
2-1	Resistance	R25 6.8KΩ ±3%
2-2	B constant	B25/50 3950K ±2%
2-3	Maximum rated power	188mW (25°C under still air)
2-4	Insulation resistance	100MΩ or more (DC500V megger)
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

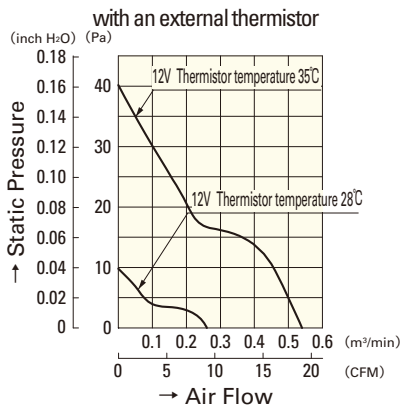
Manufactured by OHIZUMI MGF CO.,LTD.

Resin filter kits

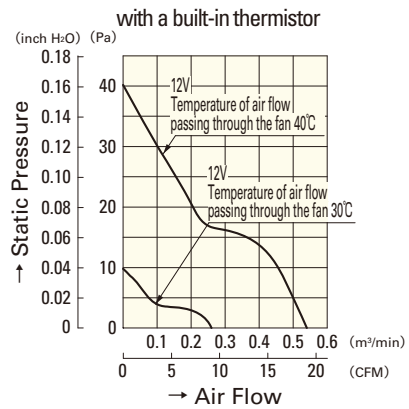
Model : 109-1003F13 (13PPI), 109-1003F20 (20PPI)
: 109-1003F30 (30PPI), 109-1003F40 (40PPI)



Air Flow and Static Pressure Characteristics



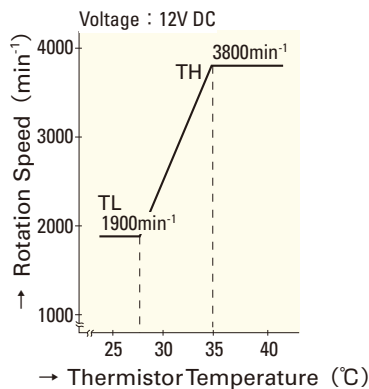
109P0612T4H12(121)



109P0612T4H122(123)

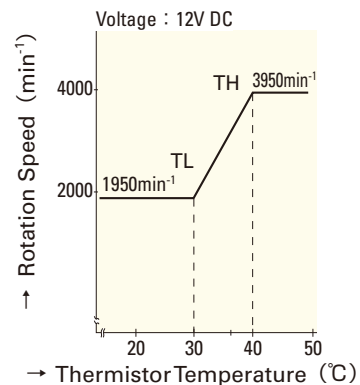
Temperature-Rotation Speed Characteristics

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



109P0612T4H12(121)

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



109P0612T4H122(123)