

52mm sq.**San Ace 52**

15mm thick

External thermistor model /
Built-in thermistor model

Note: Optional external thermistors are sold separately.

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)

52×52×15mm (Mass : 55g)**Specifications External thermistor model**

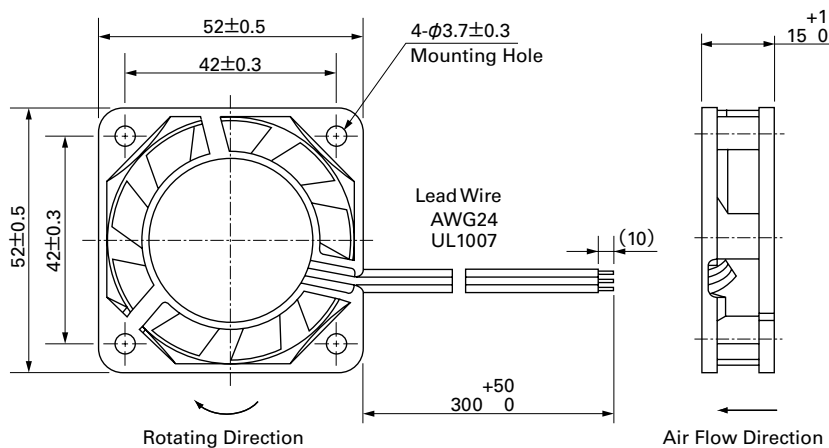
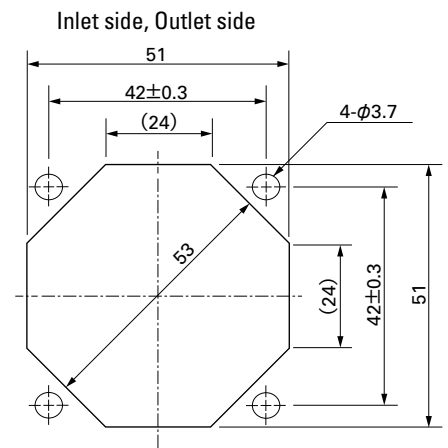
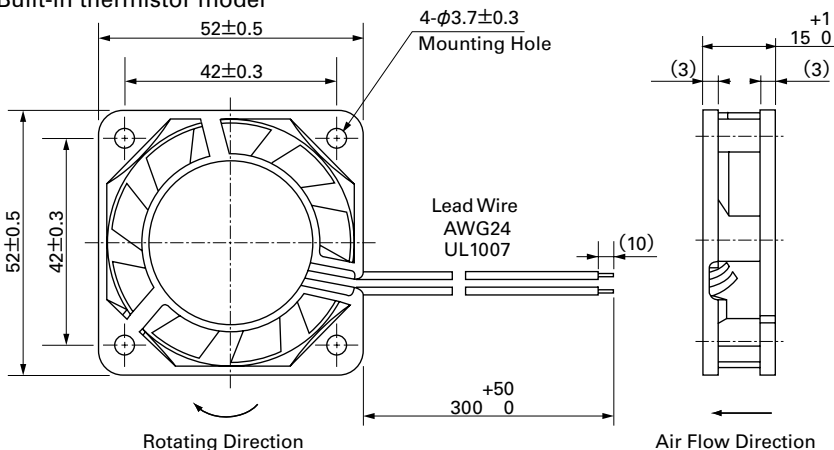
Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Air Flow [m ³ /min] [CFM]		Static Pressure [Pa] [inchH ₂ O]		SPL [dB(A)]	Operating Temperature [°C]	Life Expectancy [h]
109P0512T7H12	12	10.2 to 13.8	0.13	1.56	4,600	0.255	9.0	31.9	0.128	27	-10 to +70	60,000
			0.09	1.08	2,300	0.13	4.6	8.8	0.035	17		

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 (Thermistor: 169-002).

Built-in thermistor model

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]
109P0512T7H122	12	10.2 to 13.8	0.13	1.56	4,900	0.27	9.5	36.2	0.145	28	-10 to +70	60,000
			0.09	1.08	2,400	0.14	4.9	9.6	0.039	17		

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.

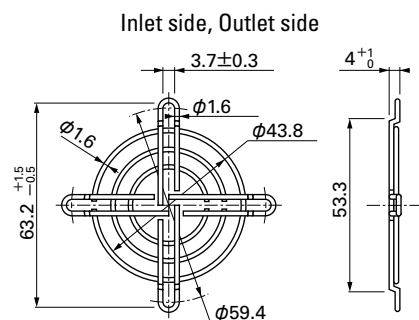
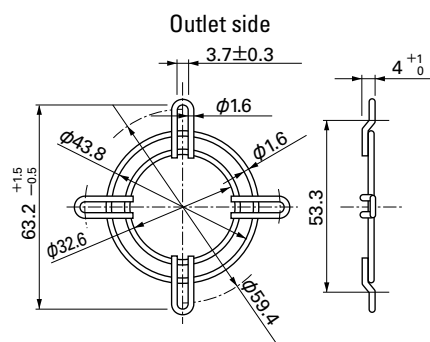
Dimensions (Unit : mm)**External thermistor model****Reference dimensions of mounting holes and vent opening (Unit : mm)****Built-in thermistor model**

Options (Unit : mm)

Finger guards

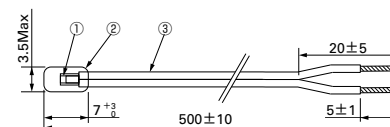
Model : 109-149 Surface treatment : Nickel-chrome plating Color (silver)

Model : 109-149E Surface treatment : Nickel-chrome plating Color (silver)



Thermistor

Model : 169-002



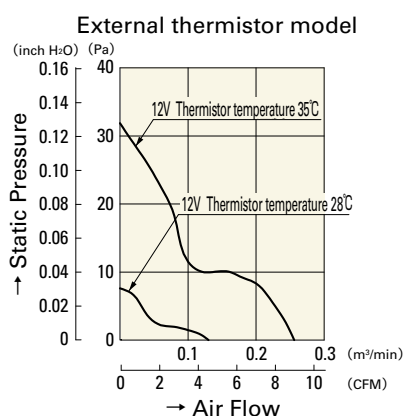
Number	Name	Standards,materials, etc.
①	Thermistor	Chip
②	Insulated cord	Epoxy resin
③	Lead	UL2555 CSA TR-64 AWG#28 (blue)

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

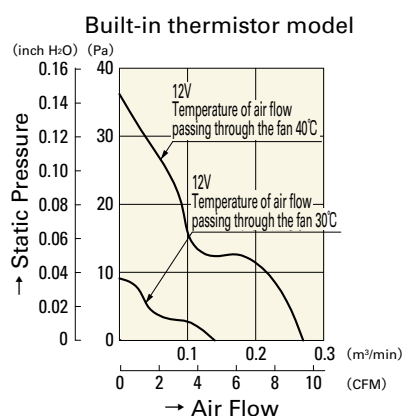
Manufactured by OHIZUMI MFG CO.,LTD.

Mfr. Part No. 159-682-86 □□□

Air Flow and Static Pressure Characteristics



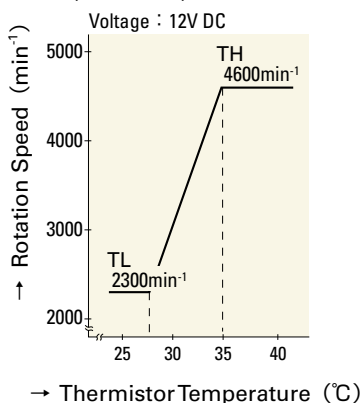
109P0512T7H12



109P0512T7H122

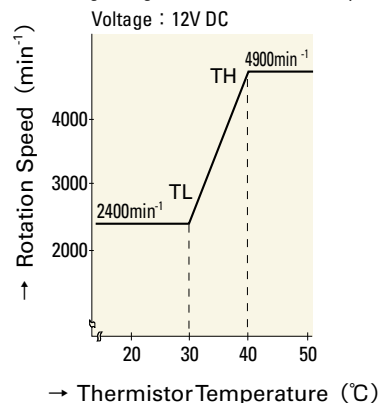
Temperature-Rotation Speed Characteristics

External thermistor model
■ Characteristics of Thermistor-detected Temperature vs Speed



109P0512T7H12

Built-in thermistor model
■ Typical characteristics of temperature of air flowing through the fan versus rotation speed



109P0512T7H122

Mouser Electronics

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Sanyo Denki:

[109P0512T7H12](#) [109P0512T7H122](#)