DC Fan Motors

Thermally speed controlled fans □60mm PICO ACE

Silent,energy-saving

Photo: externally-mounted thermistor

Features

Motor protection system ·····Current cut system (with reverse-connection protection)

Dielectric strength·····50/60 Hz, 500 VAC, 1 minute

·····(between lead conductor and frame)

Operating thermally range ·····−10℃ to +60℃ (non-condensing)

Fan power lead·····H speed, ⊕ red, ⊖ black

·····Control lead, brown

Fail-safe·····The motor runs fast when the thermistor is unable to detect the temperature (in cases such as an open cir cuit or short-circuit).

15mm thick with an external thermistor

Specifications

Model No	Rated voltage (V)	Operating voltage range (V)	Rated current (A)	Rated input (W)	Rated rotating speed (min⁻¹)	Air flow (m³/min)	Air flow (CFM)	Static pressure (Pa)	Noise (dB[A])	Mass (g)
109P0612T7H12	12	10.2～13.8	0.12	1.44	4,100	0.4	14.1	38.2	32	60
			0.08	0.96	2,050	0.2	7.1	9.3	18	

Notes: The top row gives characteristics shown when the thermistor temperature is 35℃,while the bottom row gives characteristics shown when the thermistor temperature is 28℃.

20mm thick with an external thermistor

Specifications

Model No	Rated voltage (V)	Operating voltage range (V)	Rated current (A)	Rated input (W)	Rated rotating speed (min⁻¹)	Air flow (m³/min)	Air flow (CFM)	Static pressure (Pa {mmH₂O})	Noise (dB[A])	Mass (g)
109P0612T6H12	12	10.2～13.8	0.15	1.8	4,200	0.42	14.8	31.9	31	90
			0.1	1.2	2,100	0.21	7.4	8.8	21	

Notes: The top row gives characteristics shown when the thermistor temperature is 35℃,while the bottom row gives characteristics shown when the thermistor temperature is 28℃.

25mm thick with an external thermistor

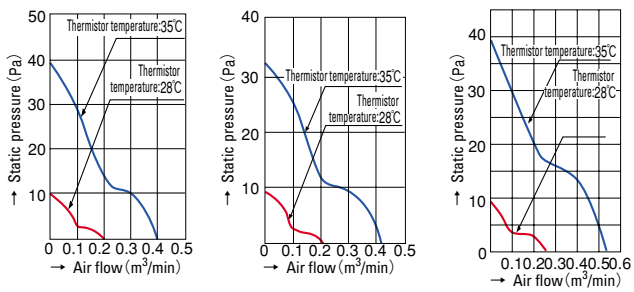
Specifications

Model No	Rated voltage (V)	Operating voltage range (V)	Rated current (A)	Rated input (W)	Rated rotating speed (min⁻¹)	Air flow (m³/min)	Air flow (CFM)	Static pressure (Pa)	Noise (dB[A])	Mass (g)
109R0612T4H12(121)	12	10.2～13.8	0.13	1.56	3,800	0.53	18.7	40.2	28	90
			0.1	1.2	1,900	0.26	9.2	9.8	15	

The numbers in ( ) represent ribless models.

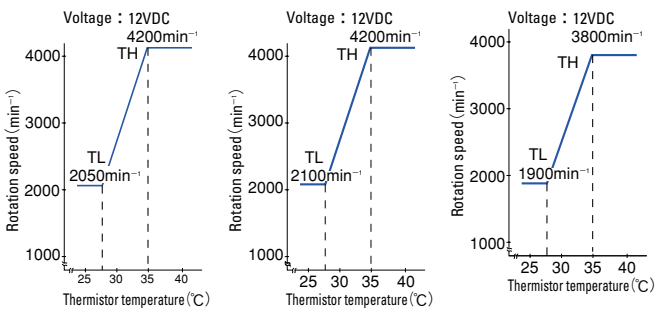
Notes: The top row gives characteristics shown when the thermistor temperature is 35℃, while the bottom row gives characteristics shown when the thermistor temperature is 28℃.

Typical air flow and static pressure characteristics

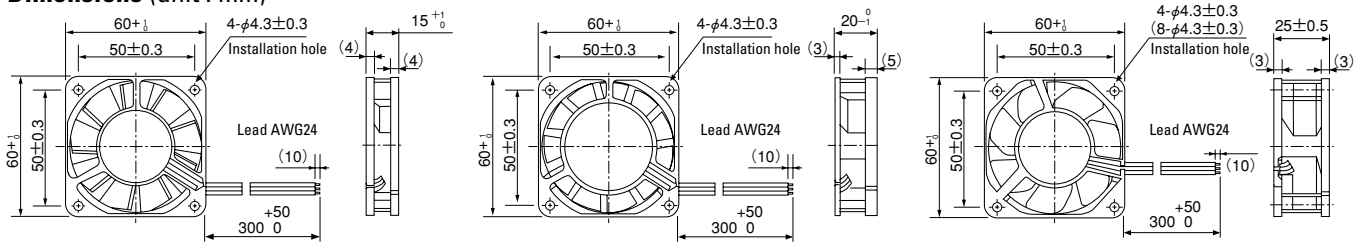


109P0612T7H12 **109P0612T6H12** **109R0612T4H12**

Typical characteristics of thermistor-detected temperature versus rotation speed



Dimensions (unit : mm)



15mm thick with a built-in thermistor

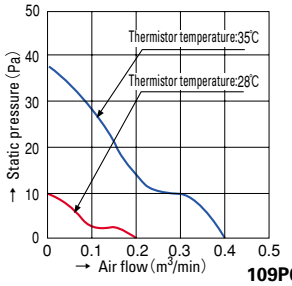
Specifications

Model No	Rated voltage (V)	Operating voltage range (V)	Rated current (A)	Rated input (W)	Rated rotating speed (min⁻¹)	Air flow (m³/min)	Air flow (CFM)	Static pressure (Pa)	Noise (dB[A])	Mass (g)
109P0612T7H122	12	10.2～13.8	0.12	1.44	4,300	0.42	14.8	42.0	32	60
			0.08	0.96	2,100	0.2	7.0	9.7	18	

Note 1: The top row gives characteristics shown when the emperature is 40℃, while the bottom row gives characteristics shown when the temperature is 30℃.

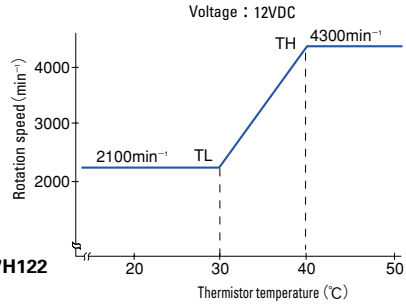
Note 2: The noise levels are calculated by converting measurements taken at 30cm to those measured at 1m.

Typical air flow and static pressure characteristics

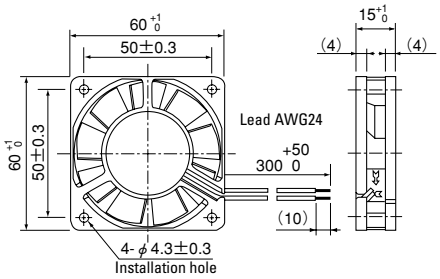


109P0612T7H122

Typical characteristics of temperature of air flowing through the fan versus rotation speed



Dimensions (unit : mm)



20mm thick with a built-in thermistor

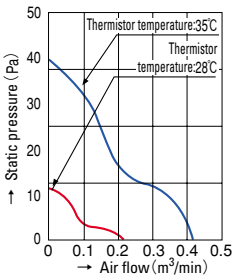
Specifications

Model No	Rated voltage (V)	Operating voltage range (V)	Rated current (A)	Rated input (W)	Rated rotating speed (min⁻¹)	Air flow (m³/min)	Air flow (CFM)	Static pressure (Pa)	Noise (dB[A])	Mass (g)
109P0612T6H122	12	10.2～13.8	0.15	1.8	4,400	0.44	15.5	35.0	33	90
			0.1	1.2	2,150	0.22	7.8	9.2	21	

Note 1: The top row gives characteristics shown when the emperature is 40℃, while the bottom row gives characteristics shown when the temperature is 30℃.

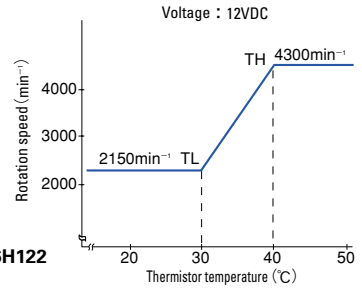
Note 2: The noise levels are calculated by converting measurements taken at 30cm to those measured at 1m.

Typical air flow and static pressure characteristics

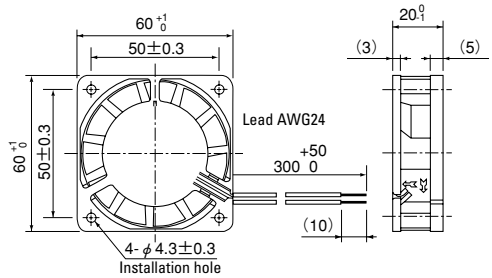


109P0612T6H122

Typical characteristics of temperature of air flowing through the fan versus rotation speed



Dimensions (unit : mm)



25mm thick with a built-in thermistor

Specifications

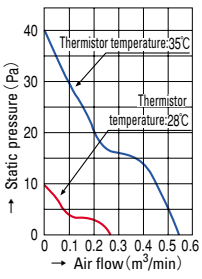
Model No	Rated voltage (V)	Operating voltage range (V)	Rated current (A)	Rated input (W)	Rated rotating speed (min⁻¹)	Air flow (m³/min)	Air flow (CFM)	Static pressure (Pa)	Noise (dB[A])	Mass (g)
109R0612T4H122(123)	12	10.2～13.8	0.13	1.56	3,950	0.55	19.4	41.8	28	90
			0.1	1.2	1,950	0.27	9.5	10.3	15	

The numbers in （ ） represent ribless models.

Note 1: The top row gives characteristics shown when the emperature is 40℃, while the bottom row gives characteristics shown when the temperature is 30℃.

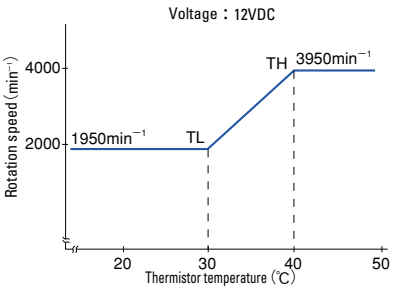
Note 2: The noise levels are calculated by converting measurements taken at 30cm to those measured at 1m.

Typical air flow and static pressure characteristics

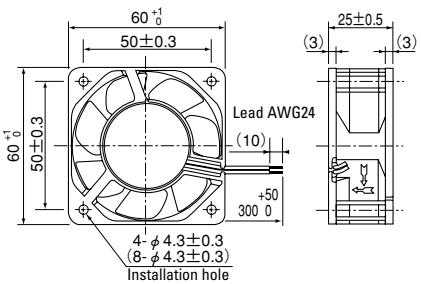


109R0612T4H122

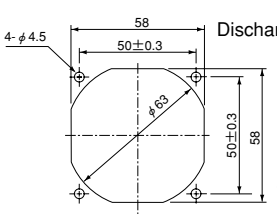
Typical characteristics of temperature of air flowing through the fan versus rotation speed



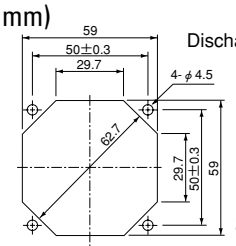
Dimensions (unit : mm)



Reference dimensional diagram for installation holes (unit : mm)



15mm thick・**20**mm thick



25mm thick

SANYO DENKI

1-15-1, Kita-otsuka, Toshima-ku,Tokyo 170-8451, Japan. PHONE : +81 3 3917 5151
Home Page:http//www.sanyodenki.co.jp