



80x80x25 mm

San Ace 80W 9WL type  

General Specifications

- Material Frame: Aluminum (Black coating), Impeller: Plastic (Flammability: UL 94V-1)
- Expected life See the table below. (L10 life: 90% survival rate for continuous operation in indoor free air at 60°C, rated voltage) Expected life at 40°C is for reference only.
- Motor protection function Locked rotor burnout protection, Reverse polarity protection
For details, please refer to p. 573.
- Dielectric strength 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance 10 MΩ or more with a 500 VDC megger (between lead wire conductors and frame)
- Sound pressure level (SPL) At 1 m away from the air inlet
- Storage temperature -30 to +70°C (Non-condensing)
- Lead wire ⊕Red ⊖Black (Sensor) Yellow (Control) Brown
(For models without PWM control function, there is no speed control wiring.)
- Mass 150 g
- Ingress protection IP68

Specifications

The models listed below **have pulse sensors with PWM control function.**

Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle* [%]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min] [CFM]		Max. static pressure [Pa] [inchH ₂ O]		SPL [dB (A)]	Operating temperature [°C]	Expected life [h]				
9WL0812P4J001	12	10.8 to 13.2	100	0.6	7.2	7400	2.07	73.0	177	0.71	49	-20 to +70	180000/60°C (215000/40°C)				
			20	0.06	0.72	1800	0.5	17.6	10.4	0.04	16						
9WL0812P4G001			100	0.3	3.6	5500	1.54	54.3	98	0.39	43						
			25	0.05	0.6	1400	0.39	13.7	6.3	0.02	14						
9WL0812P4H001			100	0.12	1.44	3700	1.03	36.3	44	0.17	31						
			25	0.04	0.48	1100	0.3	10.5	3.9	0.01	13						
9WL0824P4J001			24	21.6 to 26.4	100	0.28	6.72	7400	2.07	73.0	177			0.71	49	-20 to +70	180000/60°C (215000/40°C)
					20	0.05	1.2	2400	0.67	23.6	18.6			0.07	22		
9WL0824P4G001	100	0.14			3.36	5500	1.54	54.3	98	0.39	43						
	20	0.02			0.48	1200	0.33	11.6	4.6	0.01	13						
9WL0824P4H001	100	0.05			1.2	3700	1.03	36.3	44	0.17	31						
	30	0.02			0.48	1100	0.3	10.5	3.9	0.01	13						

* PWM input frequency is 25 kHz; models without specifications at 0% PWM duty cycle have zero fan speed at 0%.

The following sensor and control options are available for selection.

Differs according to the model. Refer to the table on p. 611. **Without sensor** **Pulse sensor** **Lock sensor**

The models listed below **have pulse sensors.**

Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min] [CFM]		Max. static pressure [Pa] [inchH ₂ O]		SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9WL0812L4001	12	8 to 13.2	0.06	0.72	2300	0.64	22.6	17	0.068	22	-20 to +70	180000/60°C (215000/40°C)
9WL0824F4001	24	12 to 26.4	0.045	1.08	3300	0.92	32.5	35	0.14	29		

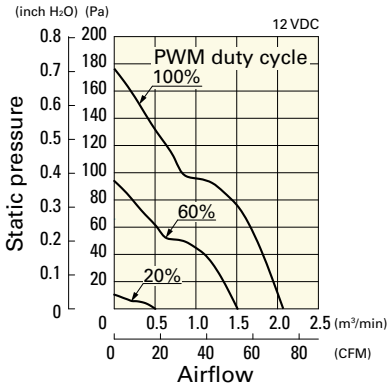
The following sensor and control options are available for selection.

Available for all models. **Without sensor**

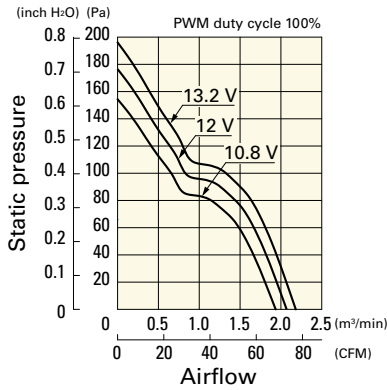
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9WL0812P4J001 With pulse sensor with PWM control function

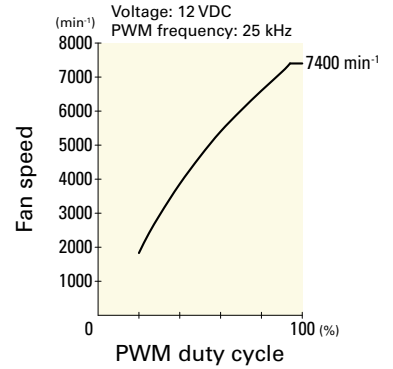
PWM duty cycle



Operating voltage range

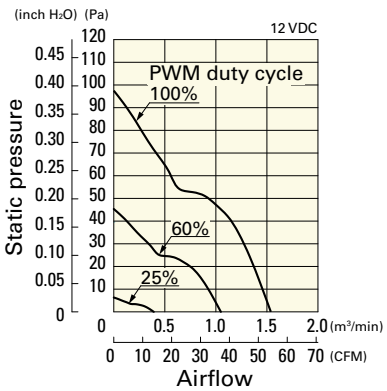


PWM duty - Speed characteristics example

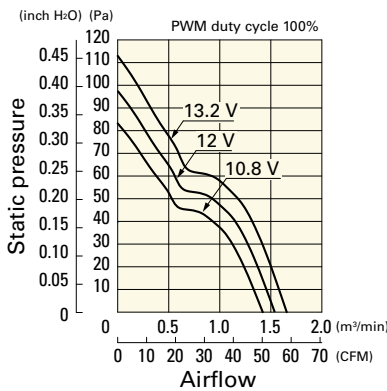


9WL0812P4G001 With pulse sensor with PWM control function

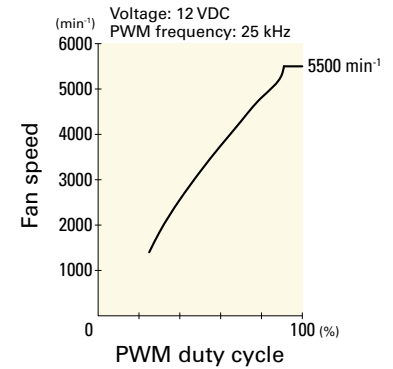
PWM duty cycle



Operating voltage range

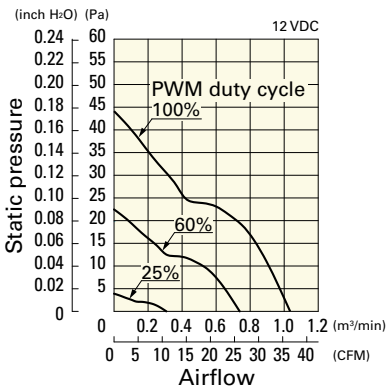


PWM duty - Speed characteristics example

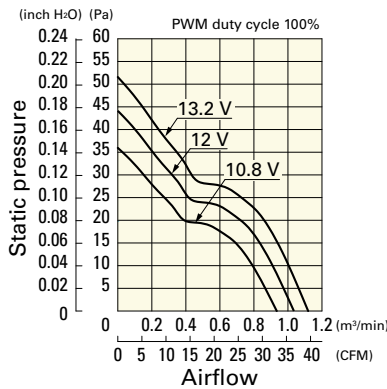


9WL0812P4H001 With pulse sensor with PWM control function

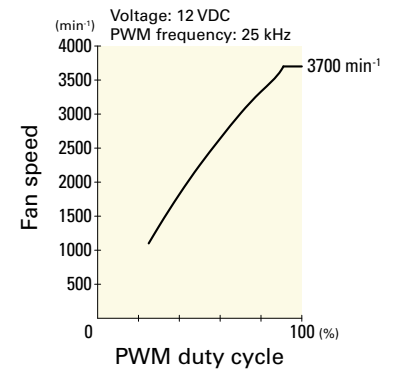
PWM duty cycle



Operating voltage range

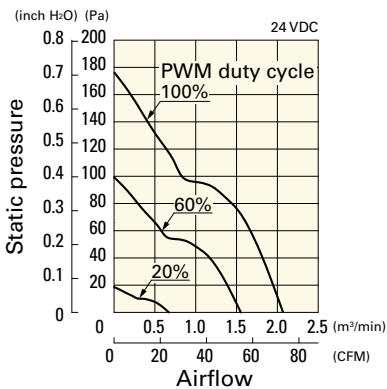


PWM duty - Speed characteristics example

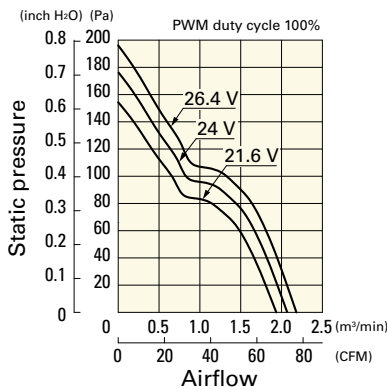


9WL0824P4J001 With pulse sensor with PWM control function

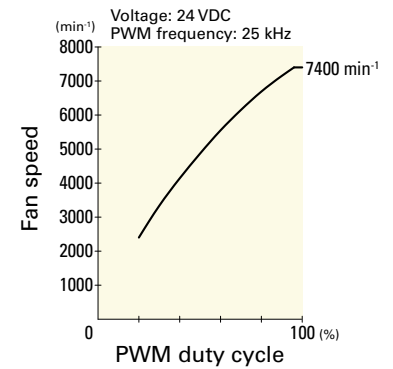
PWM duty cycle



Operating voltage range



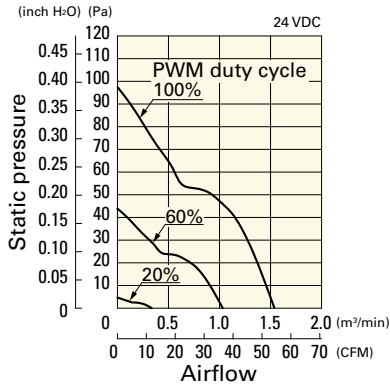
PWM duty - Speed characteristics example



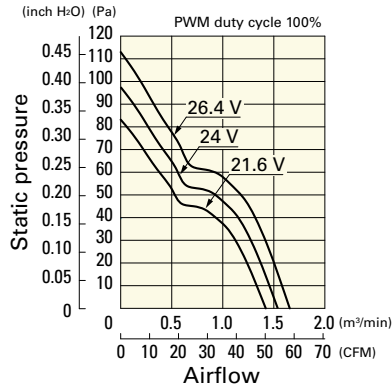
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9WL0824P4G001 With pulse sensor with PWM control function

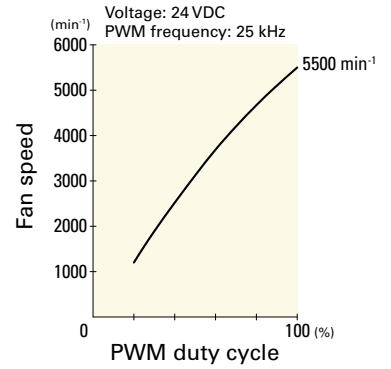
PWM duty cycle



Operating voltage range

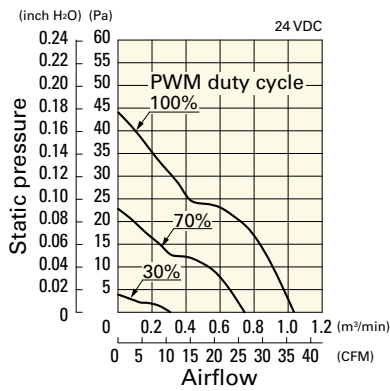


PWM duty - Speed characteristics example

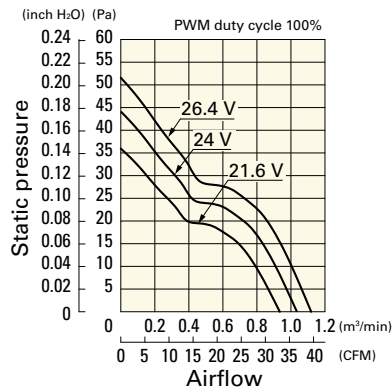


9WL0824P4H001 With pulse sensor with PWM control function

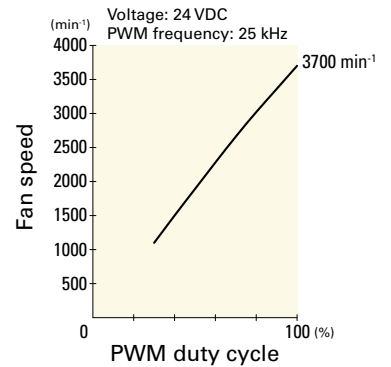
PWM duty cycle



Operating voltage range



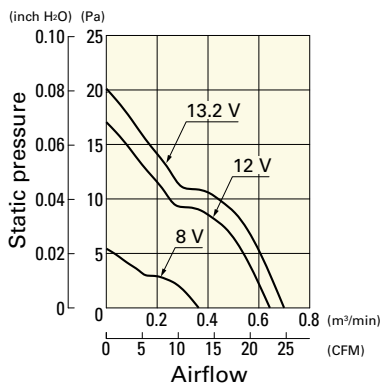
PWM duty - Speed characteristics example



Airflow - Static Pressure Characteristics

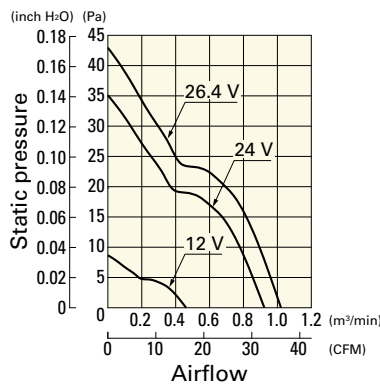
9WL0812L4001 With pulse sensor

Operating voltage range

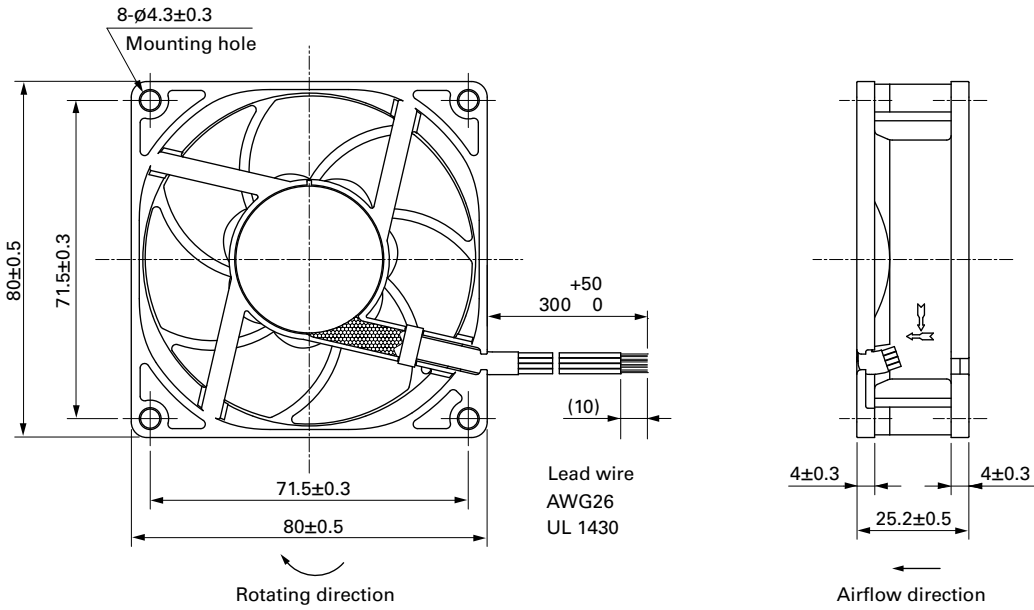


9WL0824F4001 With pulse sensor

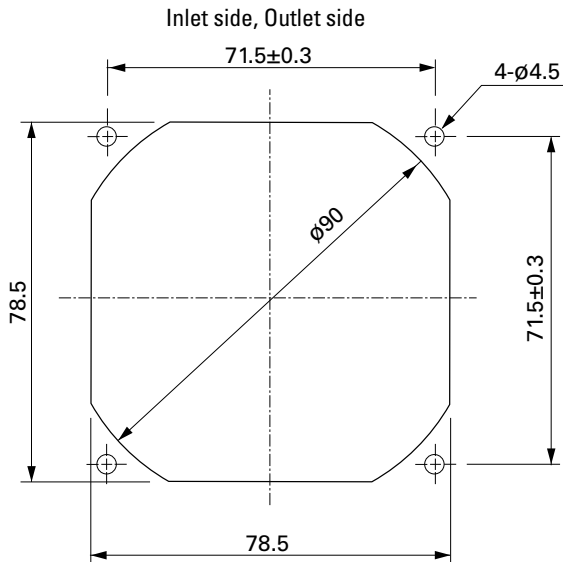
Operating voltage range



Dimensions (unit: mm)



Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)



Options

Finger guards

page: p. 558

Model no.: 109-049E, 109-049H, 109-049C

Resin finger guards

page: p. 565

Model no.: 109-1002G



80x80x25 mm

San Ace 80W 9WP type

General Specifications

- Material Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-1)
- Expected life See the table below. (L10 life: 90% survival rate for continuous operation in indoor free air at 60°C, rated voltage) Expected life at 40°C is for reference only.
- Motor protection function Locked rotor burnout protection, Reverse polarity protection
For details, please refer to p. 573.
- Dielectric strength 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance 10 MΩ or more with a 500 VDC megger (between lead wire conductors and frame)
- Sound pressure level (SPL) At 1 m away from the air inlet
- Storage temperature -30 to +70°C (Non-condensing)
- Lead wire ⊕Red ⊖Black Sensor Yellow
- Mass 130 g
- Ingress protection IP68

Specifications

The models listed below **have ribs and pulse sensors**. For models without ribs, append "1" to the end of model numbers.

Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9WP0812G401	12	10.8 to 13.2	0.38	4.56	4500	1.5 53	80.4 0.323	40	-20 to +60	40000/60°C (70000/40°C)
9WP0812H401		10.2 to 13.8	0.13	1.56	2900	1.03 36.4	35.3 0.142	29		60000/60°C (90000/40°C)
9WP0824S401	24	20.4 to 27.6	0.1	2.4	3400	1.2 42.4	48.0 0.193	34		40000/60°C (70000/40°C)
9WP0824H401			0.07	1.68	2900	1.03 36.4	35.3 0.142	29		60000/60°C (90000/40°C)
9WP0848S401	48	40.8 to 55.2	0.06	2.88	3400	1.2 42.4	48.0 0.193	34		40000/60°C (70000/40°C)

The following sensor and control options are available for selection.

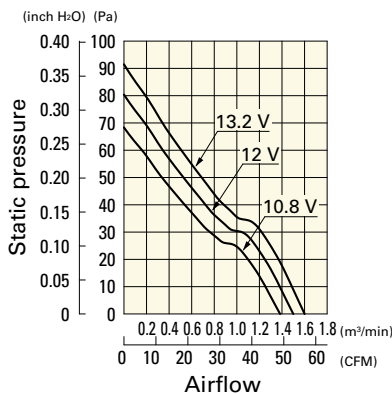
Available for all models. **Without sensor**

Differs according to the model. Refer to the table on p. 612. **Lock sensor** **PWM control**

Airflow - Static Pressure Characteristics

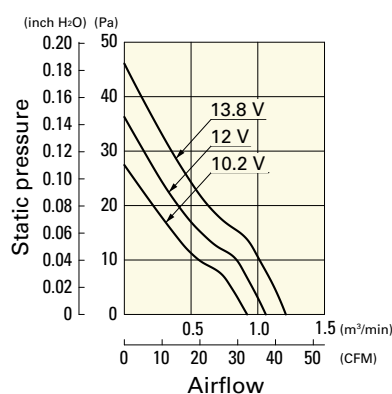
9WP0812G401 With pulse sensor

Operating voltage range



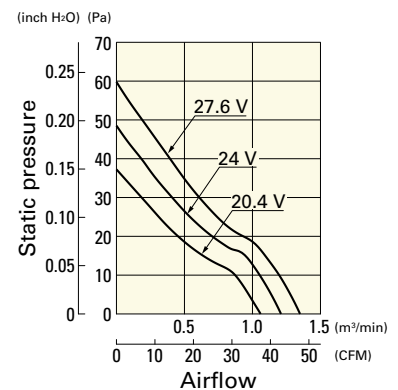
9WP0812H401 With pulse sensor

Operating voltage range



9WP0824S401 With pulse sensor

Operating voltage range



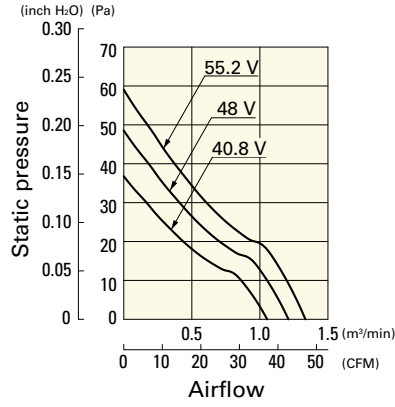
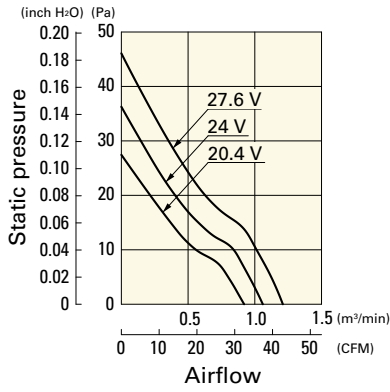
Airflow - Static Pressure Characteristics

9WP0824H401 With pulse sensor

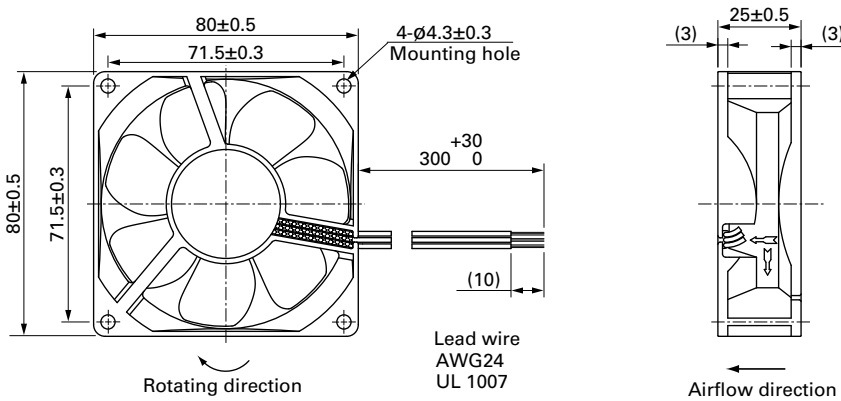
9WP0848S401 With pulse sensor

Operating voltage range

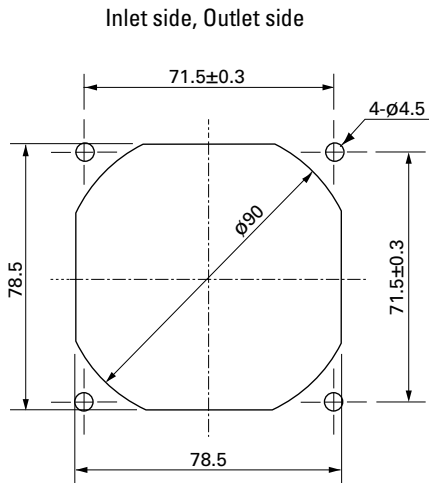
Operating voltage range



Dimensions (unit: mm) (With ribs)



Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)



Options

Finger guards

page: p. 558

Model no.: 109-049E, 109-049H, 109-049C

Resin finger guards

page: p. 565

Model no.: 109-1002G