CSM_R87B_DS_E_4_2

Comprehensive Lineup of Single, Double, and Triple Axial Fans with Easy One-step Mounting

- Mounts in a square cutout and conceals the hole-cut to simplify installation work.
- Cover can be set to open either upward or downward for convenience in confined spaces.
- Enhanced accessories (finger guard, filter, plug cord, mounting screws).
- Optional Replacement Filter and Vent Attachment.
- The lineup includes Single, Double, and Triple Box Fans with eight models with plastic blades and eight models with metal blades.



Refer to Safety Precautions for All Axial Fans.

Model Number Structure

Model Number Legend

R87B-___A15_PF___

Attachment

R87B-N□

1 5

Options and Accessories

R87B-P□□□

167

Number	Category	Symbol	Meaning of symbol
1	Fan (blade material)	F T N	R87F Axial Fan (with plastic blades) R87T Axial Fan (with metal blades) No fan
	Optional parts	Р	Options and accessories
2	Power supply classification	A1 A3 A4 A6	100 VAC 115 VAC 200 VAC 230 VAC
3	Speed classification	H M L	High speed Middle speed Low speed
4	Airflow direction	None R	In Out
5	Number of fans	None 2 3	1 2 3
6	Part type	F	Filter
7	Reference number	01	

Note: These tables show only how to read model numbers. They do not indicate which products are available.

Refer to "Ratings and Ordering Information" when placing an order.

Ordering Information

		T	
Туре	Number of fans	Model	Accessories
	1	R87B-FA□A15HPF(R)	
Plastic blades High speed	2	R87B-FA A15HPF(R)2	
riigii opeca	3	R87B-FA□A15HPF(R)3	
	1	R87B-FA□A15LPF(R)	
Plastic blades Low speed	2	R87B-FA A15LPF(R)2	Filter
Low opeca	3 R87B-FA□A15LPF(R)3		Finger guard
	1 R87B-TA□A15HPF(R)		Plug cord
Metal blades High speed	2 R87B-TA\(\text{A15HPF}(R)\)2		Mounting bolts
riigii opeca	3	R87B-TA□A15HPF(R)3	
Metal blades	1	R87B-TA□A15MPF(R)	
Medium	2	R87B-TA□A15MPF(R)2	
speed	3	R87B-TA□A15MPF(R)3	
	For 1	R87B-N	Filter
Attachment	For 2	R87B-N2	Finger guard
	For 3	R87B-N3	Mounting screws
Replacement Filter	Any	R87B-PF01	Set of two filters

Ratings and Ordering Information ecomponents.com

Item	Model	R87B-F	R87B-T				
Motor type		Single-phase shading coil induction motor (2-pole,	open type)				
Terminal type		Terminals					
Insulation class		IEC class B (130°C) UL class A (105°C) CSA class A (105°C)	IEC class B (130°C) UL class A (105°C)				
Insulation resistance		100 $\mbox{M}\Omega$ min. (at 500 VDC) Between all power supply connection parts and no	n-current carrying metal parts				
Dielectric strength		2,000 VAC for 1 min Between all power supply connection parts and non-current carrying metal parts					
Ambient operating te	mperature	-30 to 70°C (with no icing)	-20 to 70°C (with no icing)				
Storage temperature		-40 to 85°C (with no icing)					
Ambient humidity		25% to 85%					
Protection		Impedance protection					
Materiala	Frame	Die-cast aluminum					
Materials	Blades	Glass polycarbonate	Steel plate (black coating)				
Bearings		Ball bearings					
Compliant standards	•	PSE, EN/IEC 60335 (CE self-declaration)					
Certified standards*		UL/CSA UL					

Note: The rated current is the total for all fans.

Safety Precautions

Refer to Safety Precautions for All Axial Fans.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

^{*}The compliant standards and certified standards apply to the listed Axial Fans.

Single Box Fan R87B-A-A-F-PF(R)

Ratings and Ordering Information

Airflow Direction: In

Item	Rated voltage (V)	Permitted voltage fluctuation	Frequency (Hz)	rotat speed	ted ional (r/min) k	flow	mum rate nin) *	sta pressu	mum atic ıre (Pa) k	_	ise 3) *	Weight		
Model	, ,	range (%)	range (%)	range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
R87B-FA1A15HPF	100													
R87B-FA3A15HPF	115	85% to 110%	50/60	0.700	2 100	1.3	1.5	91	85	49	52			
R87B-FA4A15HPF	200	rated voltage	30/60	2,700	3,100	1.3	1.5	91	65	49	52			
R87B-FA6A15HPF	230											Approx.		
R87B-FA1A15LPF	100									42		1,120 g		
R87B-FA3A15LPF	115	85% to 110%	50/60	2,100	0.000	0.0	1.0	43	42		43			
R87B-FA4A15LPF	200	rated voltage			2,200	0.9	1.0	43	42		43			
R87B-FA6A15LPF	230													
R87B-TA1A15HPF	100							<i>C.</i>						
R87B-TA3A15HPF	115	85% to 110%	E0/60	0.650	0.000	1.1	1.0	0 07	60	45	48			
R87B-TA4A15HPF	200	rated voltage	50/60	2,650	3,000	1.1	1.3	67	63	45	46			
R87B-TA6A15HPF	230											Approx.		
R87B-TA1A15MPF	100											1,150 g		
R87B-TA3A15MPF	115	85% to 110%	E0/60	0.000	0.600	0.0	1.0	44	45	41	44			
R87B-TA4A15MPF	200	rated voltage	50/60	2,300	2,300 2,600	0.8	1.0	41	45	41	44			
R87B-TA6A15MPF	230													

Note: An asterisk (*) indicates a nominal value.

Airflow Direction: Out

Item	Rated voltage (V)	Permitted voltage fluctuation range (%)	Frequency (Hz) Rated rotational speed (r/min) *		Maximum flow rate (m³/min) *		Maximum static pressure (Pa)		Noise (dB) *		Weight			
Model	, ,	range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz			
R87B-FA1A15HPFR	100													
R87B-FA3A15HPFR	115	85% to 110%	50/60	2,700	3,100	1.3	1 5	91	85	49	50			
R87B-FA4A15HPFR	200	rated voltage	30/60	2,700	3,100	1.3	.3 1.5	91	65	49	52	Approx. 1,120 g		
R87B-FA6A15HPFR	230													
R87B-FA1A15LPFR	100						1.0	43			43			
R87B-FA3A15LPFR	115	85% to 110%	50/60	2,100	0.000	0.0			42	42				
R87B-FA4A15LPFR	200	rated voltage			2,200	0.9								
R87B-FA6A15LPFR	230													
R87B-TA1A15HPFR	100													
R87B-TA3A15HPFR	115	85% to 110%	50/00	0.050	0.000					45	40			
R87B-TA4A15HPFR	200	rated voltage	50/60	2,650	3,000	1.1	1.3	67	63	45	48			
R87B-TA6A15HPFR	230											Approx.		
R87B-TA1A15MPFR	100											1,150 g		
R87B-TA3A15MPFR	115	85% to 110%	50/00	0.000	0.000	0.0	4.0		45	4.4				
R87B-TA4A15MPFR	200	rated voltage	50/60	2,300	2,300 2,60	2,600	2,600 0.8	0.8	1.0	41	45	41	44	
R87B-TA6A15MPFR	230													

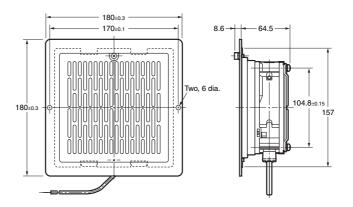
Note: An asterisk (*) indicates a nominal value.

- The data in this table comes from measurements that were taken with the filter and cover attached.
- The model number of the AC Axial Fan in the Box Fan can be determined from the model number of the Box Fan as follows:

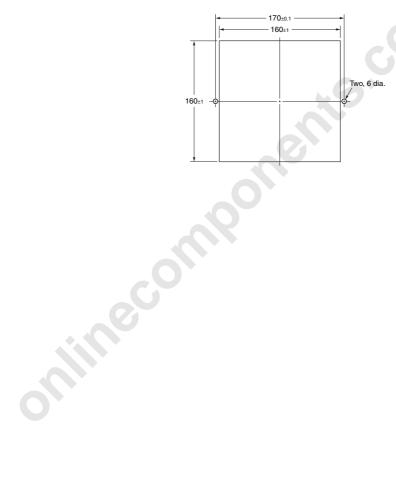
 $R87B-FA1A15HPF \rightarrow R87F-A1A15HP$

The model number of the Axial Fan can be determined by extracting the underlined portions from the model number of the Box Fan as shown.





Panel Cutout Dimensions



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

In the interest of product improvement, specifications are subject to change without notice.

Ratings and Ordering Information

Airflow Direction: In

Item	Rated voltage	Permitted voltage fluctuation	Frequency (Hz)	rotat	ted ional r/min) *	flow	mum rate nin) *	static p	mum ressure a) *	-	ise 3) *	Weight
Model	(V)	range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
R87B-FA1A15HPF2	100											
R87B-FA3A15HPF2	115	85% to	50/00	0.700	0.400	0.0	0.0	00	40		50	
R87B-FA4A15HPF2	200	110% rated voltage	50/60	2,700	2,700 3,100	2.6 3.0	86	48	55	56		
R87B-FA6A15HPF2	230											Approx.
R87B-FA1A15LPF2	100											2,220 g
R87B-FA3A15LPF2	115	85% to	F0/C0	2,100	2,200	0.0	2.1	47	44	45	46	
R87B-FA4A15LPF2	200	110% rated voltage	50/60		2,200	2.0	2.1	47	44			
R87B-FA6A15LPF2	230											
R87B-TA1A15HPF2	100			0.050		0.4	0.7		63	40		
R87B-TA3A15HPF2	115	85% to	F0/C0					68			50	
R87B-TA4A15HPF2	200	110% rated voltage	50/60	2,650	3,000	2.4	2.7	68	63	49	52	
R87B-TA6A15HPF2	230											Approx.
R87B-TA1A15MPF2	100							7				2,260 g
R87B-TA3A15MPF2	115	85% to	F0/60	0.000	0.000	1.6	1.0	44	40	4.4	47	
R87B-TA4A15MPF2	200	110% rated voltage	50/60	2,300	2,300 2,600 1	0 1.6 1.9	41 43	44	47			
R87B-TA6A15MPF2	230	· ·9-										

Note: An asterisk (*) indicates a nominal value.

Airflow Direction: Out

Item	Rated voltage (V)	oltage voltage	Frequency (Hz)	rotat speed	ted ional (r/min) k	flow	mum rate nin) *	static p	mum ressure a) *		ise 3) *	Weight
Model	. ,	range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
R87B-FA1A15HPFR2	100											
R87B-FA3A15HPFR2	115	85% to	50/60	0.700	2.100	0.6	3.0	86	48	55	56	
R87B-FA4A15HPFR2	200	110% rated voltage	50/60	2,700	3,100	2.6	3.0	86	46	55	56	
R87B-FA6A15HPFR2	230											Approx.
R87B-FA1A15LPFR2	100											2,220 g
R87B-FA3A15LPFR2	115	85% to 110% rated	50/60	2,100	0.000	2.0	2.1	47	44	45	46	
R87B-FA4A15LPFR2	200	voltage			2,200	2.0	2.1	47				
R87B-FA6A15LPFR2	230	3										
R87B-TA1A15HPFR2	100											
R87B-TA3A15HPFR2	115	85% to 110% rated	50/60	0.650	2 000	2.4	2.7	68	63	49	52	
R87B-TA4A15HPFR2	200	voltage	50/60	2,650	3,000	2.4	2.7	68	63	49	52	
R87B-TA6A15HPFR2	230	3										Approx.
R87B-TA1A15MPFR2	100											2,260 g
R87B-TA3A15MPFR2	115	85% to	50/00	0.000	0.000	1.0	1.0	44	40	4.4	47	
R87B-TA4A15MPFR2	200	110% rated voltage		2,300	2,300 2,600	00 2,600	2,600 1.6	1.6 1.9	41 43	44 47	47	
R87B-TA6A15MPFR2	230											

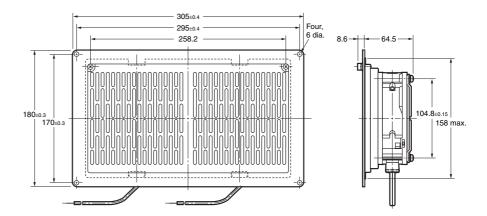
Note: An asterisk (*) indicates a nominal value.

- The data in this table comes from measurements that were taken with the filter and cover attached.
- The model number of the AC Axial Fan in the Box Fan can be determined from the model number of the Box Fan as follows:

R87B-FA1A15HPF→R87F-A1A15HP

The model number of the Axial Fan can be determined by extracting the underlined portions from the model number of the Box Fan as shown.





Panel Cutout Dimensions



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In the interest of product improvement, specifications are subject to change without notice.

Triple Box Fan R87B-A-A-15-PF(R)3

Ratings and Ordering Information

Airflow Direction: In

Item	Rated voltage (V)	Permitted voltage fluctuation	Frequency (Hz)	rotat	ted ional r/min) *	flow	mum rate nin) *	staticp	mum ressure a) *	_	ise 3) *	Weight
Model	(۷)	range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
R87B-FA1A15HPF3	100											
R87B-FA3A15HPF3	115	85% to 110%	50/60	0.700	0.100	3.9	4.5	86	56	F.C.	50	
R87B-FA4A15HPF3	200	rated voltage	50/60	2,700	3,100	3.9	4.5	86	56	56	58	
R87B-FA6A15HPF3	230											Approx.
R87B-FA1A15LPF3	100				0 2,200		3.1	42 41		41 47	48	3,380 g
R87B-FA3A15LPF3	115	85% to 110%	50/60	2,100		2.9			41			
R87B-FA4A15LPF3	200	rated voltage	50/60		2,200	2.9			41			
R87B-FA6A15LPF3	230											
R87B-TA1A15HPF3	100				250 0000	000 0.5	4.0	68 63	00	50		
R87B-TA3A15HPF3	115	85% to 110%	F0/60	0.650							F0	
R87B-TA4A15HPF3	200	rated voltage	50/60	2,650	3,000	3.5	4.0		63	50	53	
R87B-TA6A15HPF3	230											Approx.
R87B-TA1A15MPF3	100											3,410 g
R87B-TA3A15MPF3	115	85% to 110%	50/60	2 200	2 600	2.4	2.0	44	45	45	48	
R87B-TA4A15MPF3	200	rated voltage	50/60	2,300 2,600	2,300 2,600	00 2,600 2.4 2	2.8 41	41 45	40	40		
R87B-TA6A15MPF3	230											

Note: An asterisk (*) indicates a nominal value.

Airflow Direction: Out

ltem	Rated voltage	Permitted voltage fluctuation (Hz)		Rated rotational speed (r/min) *		Maximum flow rate (m³/min) *		Maximum static pressure (Pa) *		Noise (dB) *		Weight
Model	(V)	range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
R87B-FA1A15HPFR3	100											
R87B-FA3A15HPFR3	115	85% to 110%	50/60	2,700	3,100	3.9	4.5	86	56	56	50	
R87B-FA4A15HPFR3	200	rated voltage	30/60	2,700	3,100	3.9	4.5	00	36	56	58	
R87B-FA6A15HPFR3	230											Approx.
R87B-FA1A15LPFR3	100											3,380 g
R87B-FA3A15LPFR3	115	85% to 110%	E0/60	2,100	2,200	2.9	3.1	42	41	47	48	
R87B-FA4A15LPFR3	200	rated voltage	50/60		2,200	2.9	3.1					
R87B-FA6A15LPFR3	230											
R87B-TA1A15HPFR3	100					3.5 4.0						
R87B-TA3A15HPFR3	115	85% to 110%	50/60	2,650	3,000		68 63	63	50	53		
R87B-TA4A15HPFR3	200	rated voltage	30/60	2,030	3,000	3.5	4.0	00	63	50	55	
R87B-TA6A15HPFR3	230											Approx.
R87B-TA1A15MPFR3	100											3,410 g
R87B-TA3A15MPFR3	115	85% to 110%	E0/60	0.000	0.600	0.4	0.0	44	45	45	48	
R87B-TA4A15MPFR3	200	rated voltage	50/60	50/60 2,300 2	2,300 2,600 2	0 2,600	2,600 2.4	2.4 2.8	2.8 41 45	45	40	
R87B-TA6A15MPFR3	230											

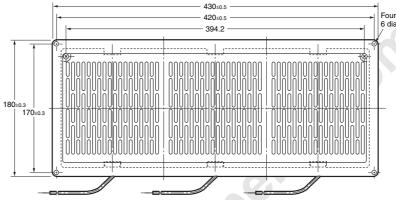
Note: An asterisk (*) indicates a nominal value.

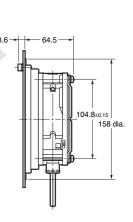
- The data in this table comes from measurements that were taken with the filter and cover attached.
- The model number of the AC Axial Fan in the Box Fan can be determined from the model number of the Box Fan as follows:

 $R87B-FA1A15HPF \rightarrow R87F-A1A15HP$

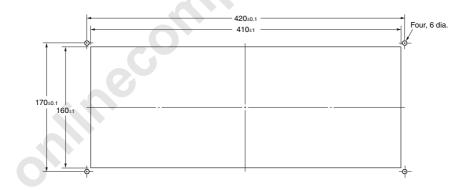
The model number of the Axial Fan can be determined by extracting the underlined portions from the model number of the Box Fan as shown.







Panel Cutout Dimensions



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

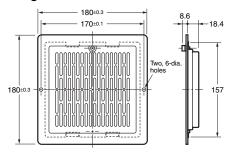
In the interest of product improvement, specifications are subject to change without notice.

Optional Parts

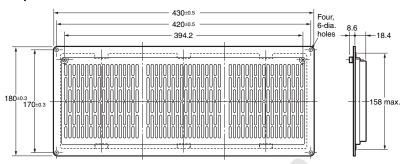
R87B-N / R87B-PF

R87B-N□ (Attachment)

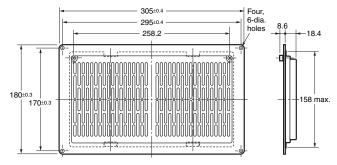
Single Box



Triple Box



Double Box

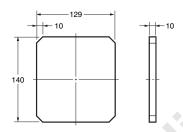


Ratings and Ordering Information

Model	Item	Туре	Weight
R87B-N		Single	Approx. 570 g
R87B-N2		Double	Approx. 1,100 g
R87B-N3		Triple	Approx. 1,700 g

Note: The panel cut-out dimensions are the same as those for the Box Fan.

R87B-PF01 (Replacement Filter)



Ratings and Ordering Information

Model	Item	Qty.	Weight (grams per filter)
R87B-PF01		2	6

Filter Performance

Heat	Filtration	Pressure	drop (Pa)	Dust	Dust
resistano (°C)	wind velocity (m/s)	Initial	Final	removal (%)	suction amount (g/mm²)
100	2.5	49	70	70 min.	300

Pay careful attention to clogging in the filter. A clogged filter will
prevent the Fan from providing a cooling effect.

Replacing the Filter

- Turn OFF the power, wait approximately one minute, and then open the cover. Remove the filter, replace it with a new filter, close the cover, and then firmly tighten the handle screw. This completes the filter replacement.
- As a general guide to the replacement frequency, check the color of the filter regularly and replace it when the color shows a noticeable change.
- It is recommended that the filter be replaced soon after the color changes noticeably in order to maintain the Fan's performance. (Replacement Filter: R87B-PF01)

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Accessories

		1					
Model Item	Mounting bolts (M4)	Hexagonal nuts (M4)	Plain washers	Spring washers	Cable with plug	Finger Guard (See note.)	Filter (See note.)
R87B-□A□A1□□PF(R) (Single, with fan)	2	2	4	2	1	2	1
R87B-□A□A1□□PF(R)2 (Double, with fan)	4	4	8	4	2	4	2
R87B-□A□A1□□PF(R)3 (Triple, with fan)	4	4	8	4	3	6	3
R87B-N (Single, without fan)	2	2	4	2	None	1	1
R87B-N2 (Double, without fan)	4	4	8	4	None	2	2
R87B-N3 (Triple, without fan) Note: The Finger Guard and	4	4	8	4	None	3	3

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To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.