Box Fan **R87B**

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 Legend

R87B-___**A15**_**PF**___ 1 2 3 4 5

Attachment

R87B-N

15

Options and Accessories

R87B-P

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.

* "In" is the direction of external air flowing in.

"Out" is the direction of internal air flowing out.



Ordering Information

Туре	Number of fans	Model	Accessories
	1	R87B-FA A15HPF(R)	
Plastic blades High speed	2	R87B-FA A15HPF(R)2	
riigii opood	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 A15HPF(R)2	Mounting bolts
riigii opood	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

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) cULus class B (130°C)	IEC class B (130°C) UL class A (105°C) cULus class B (130°C)					
Insulation resistand	ce	100 $M\Omega$ 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	temperature	–30 to 70°C (with no icing)	-20 to 70°C (with no icing)					
Storage temperatur	e	-40 to 85°C (with no icing)						
Ambient humidity		25% to 85%						
Protection		Impedance protection						
Mada ada la	Frame	Die-cast aluminum						
Materials	Blades	Glass polycarbonate	Steel plate (black coating)					
Bearings		Ball bearings						
Compliant standard	ls [*]	PSE, EN/IEC 60335 (CE self-declaration)						
Certified standards	*	cULus						
Note: The rated curre	ent is the total for a	Il fans						

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

 $\ensuremath{\ast}$ The compliant standards and certified standards apply to the listed Axial Fans.

Safety Precautions

Refer to the Safety Precautions for All Axial Fans on our website.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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Single Box Fan R87B-AA15PF(R)

Ratings and Ordering Information

Airflow Direction: In

Item	Rated voltage (V)	Permitted voltage fluctuation range (%)		rotat speed	Rated rotational speed (r/min) *		Maximum flow rate (m³/min) *		Maximum static pressure (Pa) *		Noise (dB) *			
Model	. ,	range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz			
R87B-FA1A15HPF	100 VAC													
R87B-FA3A15HPF	115 VAC	85% to 110%	50/60	2,700	2 1 0 0	1.3	1.5	86	85	10	50			
R87B-FA4A15HPF	200 VAC	rated voltage	50/60	2,700	3,100	1.3	1.5	80	60	49	52			
R87B-FA6A15HPF	230 VAC											Approx. 1,120 g		
R87B-FA1A15LPF	100 VAC	85% to 110%						43		42	43			
R87B-FA3A15LPF	115 VAC		50/60	2,100	0.000	0.9	1.0		42					
R87B-FA4A15LPF	200 VAC	rated voltage			2,200	0.9	1.0							
R87B-FA6A15LPF	230 VAC													
R87B-TA1A15HPF	100 VAC													
R87B-TA3A15HPF	115 VAC	85% to 110%	50/00	0 700	0.000					45	40			
R87B-TA4A15HPF	200 VAC	rated voltage	50/60	2,700	3,000	1.1	1.3	70	63	45	48			
R87B-TA6A15HPF	230 VAC											Approx.		
R87B-TA1A15MPF	100 VAC											1,150 g		
R87B-TA3A15MPF	115 VAC	85% to 110%	50/00	0.400	0 700			44	40	44				
R87B-TA4A15MPF	200 VAC	rated voltage	50/60	2,400	2,400	2,400 2	2,700	0.8	0.9	41 40	40	41	44	
R87B-TA6A15MPF	230 VAC													

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

Airflow Direction: Out

Item	Rated voltage (V)	Permitted voltage fluctuation	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 VAC											
R87B-FA3A15HPFR	115 VAC	85% to 110%	50/60	0 700	2 1 0 0	1.3	1.5	96	85	10	50	
R87B-FA4A15HPFR	200 VAC	rated voltage	50/60	2,700	3,100			86	60	49	52	
R87B-FA6A15HPFR	230 VAC											Approx. 1,120 g
R87B-FA1A15LPFR	100 VAC							43	42	42	43	
R87B-FA3A15LPFR	115 VAC	85% to 110%	50/60	2 100	0.000	0.0	1.0					
R87B-FA4A15LPFR	200 VAC	rated voltage		2,100	2,200	0.9	1.0					
R87B-FA6A15LPFR	230 VAC											
R87B-TA1A15HPFR	100 VAC											
R87B-TA3A15HPFR	115 VAC	85% to 110%	50/60	0 700	2 000			70		45	48	
R87B-TA4A15HPFR	200 VAC	rated voltage	50/60	2,700	3,000	1.1	1.3	70	63	45	48	
R87B-TA6A15HPFR	230 VAC											Approx.
R87B-TA1A15MPFR	100 VAC											1,150 g
R87B-TA3A15MPFR	115 VAC	85% to 110%	50/00	0.400	0 700			44	40	44		
R87B-TA4A15MPFR	200 VAC	rated voltage	50/60	2,400	2,400 2	2,700 0.8 0	0.9	41 40	40	41	44	
R87B-TA6A15MPFR	230 VAC											

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

• The data in this table comes from measurements that were taken with the filter and cover attached.

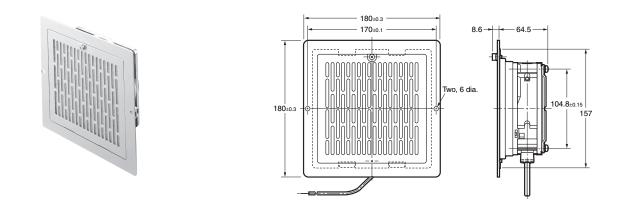
• The model number of the AC Axial Fan in the Box Fan can be determined from the model number of the Box Fan as follows:

R87B-FA1A15HPF→R87F-A1A15HP

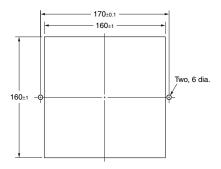
The model number of the Axial Fan can be determined by extracting the underlined portions from the model number of the Box Fan as shown.

R87B

Dimensions



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.

Double Box Fan R87B-AA15PF(R)2

Ratings and Ordering Information

Airflow Direction: In

Item	Rated voltage	Permitted voltage fluctuation	Frequency (Hz)	rotat	ted ional r/min) *	flow	mum rate nin) *	staticp	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 VAC											
R87B-FA3A15HPF2	115 VAC	85% to 110% rated	50/60	2,700	2 1 0 0	2.6	3.0	00	45	55	56	
R87B-FA4A15HPF2	200 VAC	voltage	50/60	2,700	3,100	2.0	3.0	82	40	55	50	
R87B-FA6A15HPF2	230 VAC	voltage										Approx.
R87B-FA1A15LPF2	100 VAC			2,100			2.1	2.1 44	42	45		1,800 g
R87B-FA3A15LPF2	115 VAC	85% to	50/60		2,200	2.0					46	
R87B-FA4A15LPF2	200 VAC	110% rated voltage			2,200	2.0						
R87B-FA6A15LPF2	230 VAC											
R87B-TA1A15HPF2	100 VAC											
R87B-TA3A15HPF2	115 VAC	85% to	50/00	0 700	0.000	0.5			00	40	52	
R87B-TA4A15HPF2	200 VAC	110% rated voltage	50/60	2,700	3,000	2.5	2.9	68	63	49	52	
R87B-TA6A15HPF2	230 VAC											Approx.
R87B-TA1A15MPF2	100 VAC											1,800 g
R87B-TA3A15MPF2	115 VAC	85% to	50/60	0.400	0 700	1.6	1 0	41	43	44	47	
R87B-TA4A15MPF2	200 VAC	110% rated 5 voltage	00/00	2,400	2,700	1.6	1.8	41	43	44	47	
R87B-TA6A15MPF2	230 VAC											

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

Airflow Direction: Out

Item	Rated voltage (V)	tage fluctuation	Rated voltage Fr voltage fluctuation		rotat speed	Rated rotational speed (r/min) *		Maximum flow rate (m³/min) *		Maximum static pressure (Pa) *		Noise (dB) *		
Model	. ,	range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz			
R87B-FA1A15HPFR2	100 VAC													
R87B-FA3A15HPFR2	115 VAC	85% to	50/60	0 700	2 1 0 0	2.6	3.0		45	55	50			
R87B-FA4A15HPFR2	200 VAC	110% rated voltage	50/60	2,700	3,100			82	45	55	56			
R87B-FA6A15HPFR2	230 VAC											Approx.		
R87B-FA1A15LPFR2	100 VAC						2.1	44	42	45		1,800 g		
R87B-FA3A15LPFR2	115 VAC	85% to	50/60	2,100	0.000	2.0					46			
R87B-FA4A15LPFR2	200 VAC	110% rated voltage			2,200	0 2.0								
R87B-FA6A15LPFR2	230 VAC													
R87B-TA1A15HPFR2	100 VAC													
R87B-TA3A15HPFR2	115 VAC	85% to	50/00	0 700	0.000	0.5	0.0	68	63	49	52			
R87B-TA4A15HPFR2	200 VAC	110% rated voltage	50/60	2,700	3,000	2.5	2.9	68	63	49	52			
R87B-TA6A15HPFR2	230 VAC											Approx.		
R87B-TA1A15MPFR2	100 VAC											1,800 g		
R87B-TA3A15MPFR2	115 VAC	85% to	50/00	0.400	0 700	10	1.0		40		47			
R87B-TA4A15MPFR2	200 VAC	110% rated voltage	50/60	2,400	2,400 2	2,400 2,700	2,700 1.	1.6	1.6 1.8 4	41 43	43	44	47	
R87B-TA6A15MPFR2	230 VAC													

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:

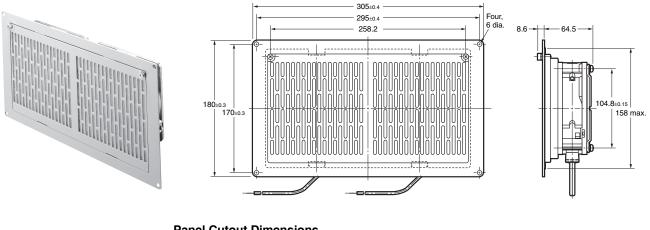
R87B-FA1A15HPF→R87F-A1A15HP

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.

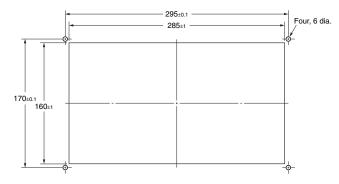
R87B

Dimensions

(Unit: mm)



Panel Cutout Dimensions



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

Triple Box Fan R87B-AA15PF(R)3

Ratings and Ordering Information

Airflow Direction: In

Item	Rated voltage	Permitted voltage fluctuation	Frequency (Hz)	rotat	ted tional r/min) *	flow	mum rate nin) *	static p	mum ressure a) *		ise 3) *	Weight			
Model	(V)	range (%)	range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz			
R87B-FA1A15HPF3	100 VAC														
R87B-FA3A15HPF3	115 VAC	85% to 110%	50/60	50/60	50/60	50/60	2,700	3,100	00 3.9	4.5	82	60	56	58	
R87B-FA4A15HPF3	200 VAC	rated voltage	50/00	2,700	3,100	0.9	4.5	02	60	90	50				
R87B-FA6A15HPF3	230 VAC											Approx.			
R87B-FA1A15LPF3	100 VAC							3.1 40		47		2,700 g			
R87B-FA3A15LPF3	115 VAC	85% to 110%	50/60	2,100	0 2,200	2.9	3.1		39		48				
R87B-FA4A15LPF3	200 VAC	rated voltage			2,200	2.9									
R87B-FA6A15LPF3	230 VAC														
R87B-TA1A15HPF3	100 VAC				0.000			68	63						
R87B-TA3A15HPF3	115 VAC	85% to 110%	50/60	0 700		3.8				50	53				
R87B-TA4A15HPF3	200 VAC	rated voltage	50/60	2,700	3,000	3.0	4.0	00	03	50	55				
R87B-TA6A15HPF3	230 VAC											Approx.			
R87B-TA1A15MPF3	100 VAC											2,800 g			
R87B-TA3A15MPF3	115 VAC	85% to 110% rated voltage	50/60	2,400	2 700	2.4	20	41	40	45	48				
R87B-TA4A15MPF3	200 VAC		50/60	2,400	00 2,700	2.4	2.8	41	40	40	40				
R87B-TA6A15MPF3	230 VAC														

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

Airflow Direction: Out

ltem	Rated voltage	Permitted voltage fluctuation	Frequency (Hz)			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 VAC														
R87B-FA3A15HPFR3	115 VAC	85% to 110%	50/60 2	50/60	50/00	50/60	2,700	2 100	100 3.9	4.5	00	60	56	58	
R87B-FA4A15HPFR3	200 VAC	rated voltage		2,700	00 3,100	3.9	4.5	82	00	50	50				
R87B-FA6A15HPFR3	230 VAC											Approx. 2,700 g			
R87B-FA1A15LPFR3	100 VAC				2,200	2.9	3.1	40	39	47	48				
R87B-FA3A15LPFR3	115 VAC	85% to 110%	50/60	0.100											
R87B-FA4A15LPFR3	200 VAC	rated voltage	50/60	2,100	2,200	2.9									
R87B-FA6A15LPFR3	230 VAC														
R87B-TA1A15HPFR3	100 VAC						3.8 4.0								
R87B-TA3A15HPFR3	115 VAC	85% to 110%	50/60	2,700	2 000	20			63	50	53				
R87B-TA4A15HPFR3	200 VAC	rated voltage	50/60	2,700	3,000	3,000 3.8	3.0	4.0	68	03	50	55			
R87B-TA6A15HPFR3	230 VAC											Approx.			
R87B-TA1A15MPFR3	100 VAC											2,800 g			
R87B-TA3A15MPFR3	115 VAC	85% to 110% rated voltage	50/60	0.400	0 700	0.4	0.0	44	40	45	40				
R87B-TA4A15MPFR3	200 VAC		50/60	2,400	2,400	2,400 2	2,400	2,400 2	400 2,700	2.4	2.4 2.8 4	41 40	45 48	40	
R87B-TA6A15MPFR3	230 VAC														

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:

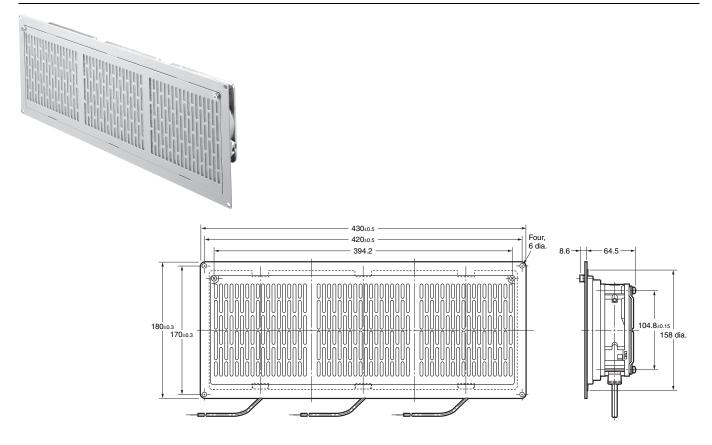
 $\underline{\mathsf{R87}}\mathsf{B}\text{-}\underline{\mathsf{FA1A15HP}}\mathsf{F}{\rightarrow}\mathsf{R87}\mathsf{F}\text{-}\mathsf{A1A15HP}$

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.

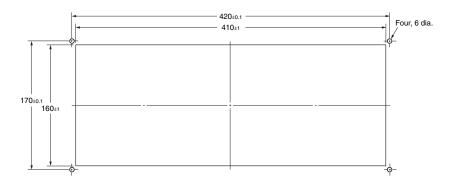
R87B

(Unit: mm)

Dimensions



Panel Cutout Dimensions

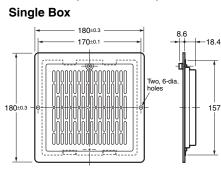


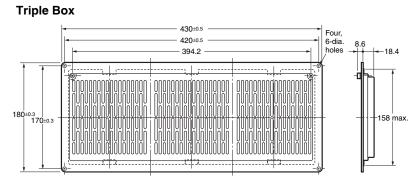
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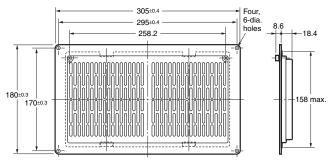
Optional Parts **R87B-N**/**R87B-PF**

R87B-N (Attachment)





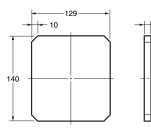
Double Box



10

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

R87B-PF01 (Replacement Filter)



Ratings and Ordering Information

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

Ratings and Ordering Information

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

Filter Performance

Ī	Heat	Filtration	Pressure	drop (Pa)	Dust	Dust
	resistance (°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

- 1. 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)

Accessories

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)	4	4	8	4	None	3	3

Note: The Finger Guard and Filter are to be assembled into the Box Fan.

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Terms and Conditions Agreement

Read and understand this catalog.

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(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

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Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions. Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

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

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