

AC Axial Fans with Terminals (80 × 80 × t38 mm)

R87F-A□A85

Specifications

Ratings and Ordering Information

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

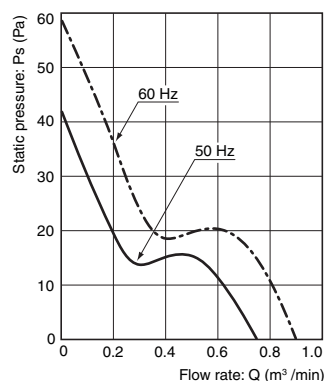
Item Model	Rated voltage (V)	Permitted voltage fluctuation range (%)	Frequency (Hz)	Rated current (A) *		Rated input (W) *		Rated rotational speed (r/min) *		Maximum flow rate (m³/min) *		Maximum static pressure (Pa) *		Noise (dB) *	
				50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
R87F-A1A85HP	100 VAC	85% to 110% rated voltage	50/60	0.140	0.115	10	9	2,700	3,200	0.8	0.9	42.1	58.8	32	36
R87F-A3A85HP	115 VAC			0.120	0.100										
R87F-A4A85HP	200 VAC			0.080	0.060										
R87F-A6A85HP	230 VAC			0.060	0.050										
R87F-A1A85LP	100 VAC	85% to 110% rated voltage	50/60	0.090	0.080	7	6	2,200	2,500	0.6	0.7	25.0	32.0	26	29
R87F-A3A85LP	115 VAC			0.080	0.070										
R87F-A4A85LP	200 VAC			0.050	0.040										
R87F-A6A85LP	230 VAC			0.040	0.040										

Characteristics

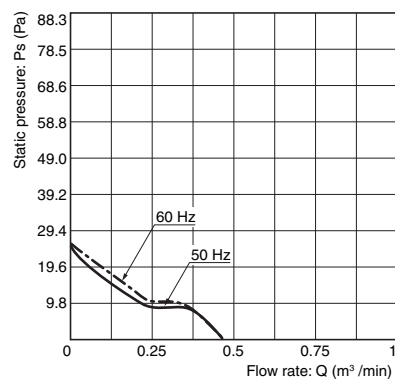
Motor type	Single-phase shading coil induction motor (2-pole, open type)
Terminal type	Terminals
Insulation class	IEC class B (130°C) UL class A (105°C) CSA class A (105°C)
Insulation resistance	100 MΩ min. (at 500 VDC) between all power supply connections and uncharged metal parts.
Insulation withstand voltage	2,000 VAC (1 minute) between all power supply connections and uncharged metal parts.
Ambient operating temperature	−30 to 70°C (no icing)
Ambient storage temperature	−40 to 85°C (no icing)
Ambient humidity	25% to 85%
Protection	Impedance protection
Materials	Frame: Die-cast aluminum Blades: Glass polycarbonate
Bearings	Ball bearings
Weight	Approx. 280 g
Compliant standards	PSE, EN/IEC 60335 (CE marking compliant)
Certified standards	UL/CSA

Flow Rate and Static Pressure Characteristics (Reference Values)

R87F-A□A85HP



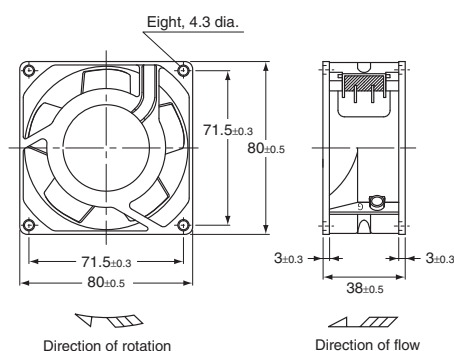
R87F-A□A85LP



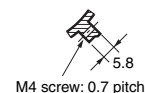
Note: For details on measurement conditions, refer to *Flow Rate and Static Pressure on Safety Precautions for All Axial Fans*.

Dimensions

(Unit: mm)

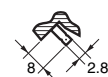


Screw hole for grounding



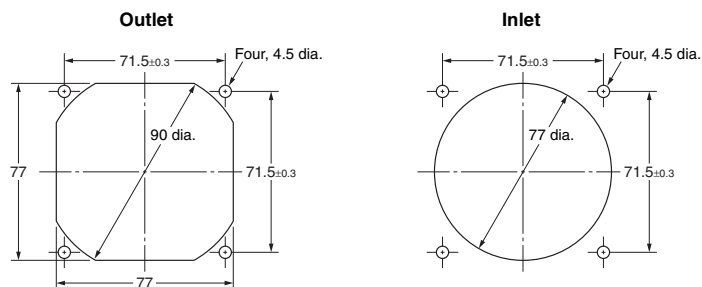
M4 screw: 0.7 pitch

Terminal shape



Faston #110 terminal
(or equivalent)

Panel Cutouts



Options

Name	Model	Datasheet available
Plug Cord	R87F-PC	Refer to page 24.
Finger Guard	R87F-FG80	Refer to page 25.
Filter	R87F-FL80	Refer to page 26.
Set model	R87F-SET8038	Refer to page 25.

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.