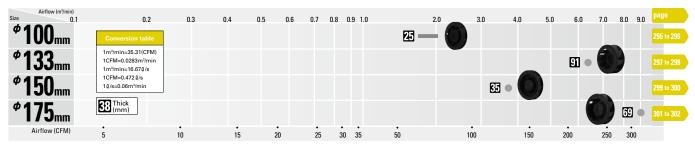
Splash Proof Centrifugal Fan

Centrifugal fans of IP54 waterproof capability.

Related product

Splash Proof Fan \Rightarrow p. 245 Centrifugal Fan \Rightarrow p. 371 Oil Proof Fan \Rightarrow p. 303

Domain Diagram



Model Numbering System Not every combination of the following codes or characters is available. Contact us for an available combination.

9W1T	Μ	48	Р	4	Η	01
Type name 9W1T: Splash Proof Centrifugal Fan	Impeller size M : Φ100mm J : Φ133mm N : Φ150mm G : Φ175mm	Voltage 24 : 24V 48 : 48V	PWM control function P	Frame thickness 0: 69mm thick MIN 1: 35mm thick 4: 25mm thick	Speed code H,G etc	Individual customer's spec 2 or 3 digits

Ingress protection ratings (IP code)

IP Codes used by SANYO DENKI express the level of protection that internal electrical components (for fans: electrical components and motor coils) have against solid objects, water, and access to hazardous parts. San Ace Splash Proof Centrifugal fans feature high protection levels.

Definition of Ingress Protection (IP Code)

Ingress Protection (IP Code) is defined in IEC (International Electrotechnical Commission) 60529* DEGREES OF PROTECTION PROVIDED BY ENCLOSURES (IP Code). *IEC 60529:2001

I P <u>X</u> X

- Second digit: Protection against water

- First digit: Protection against solid objects and access to hazardous parts

First digit	Definition					
0	No protection					
1	Protection against solid objects > 50 mm					
2	Protection against solid objects > 12.5 mm					
3	Protection against solid objects > 2.5 mm					
4	Protection against solid objects > 1 mm					
5	Protection against a level of dust that could hinder operation or impair safety					
6	Complete protection against dust					
Second digit	Definition					
0	No protection					
1	Protection against dripping water					
2	Protection against water spray up to 15°					
3	Protection against spraying water					
4	Protection against splashing water					
5	Protection against low pressure water jets					
6	Protection against high pressure water jets					
7	Protection against temporary immersion in water					
8	Protection against submersion in water					

How to Read Specifications

Model No. 9GA0412G7001	The second	(2) Operating Voltage Range [V]	③ Rated Current [A]	(4) Rated Input	5 Rated Speed	(E Max. A	6) Airflow		7 tic Pressure	8 SPL	9 Operating Temperature	10 Expected Life
9GA0412G7001	[V]				Rated Speed	Max. A	Airflow	Max. Sta	tic Prossura	SPI	Operating Temperature	Exported Life
		[V]	[A]							-		
	12			[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
_		7 to 13.8	0.17	2.04	13,100	0.36	12.7	192	0.77	42	-20 to +70	40,000/60°C (70,000/40°C)
 ①Rated Voltage ②Operating Voltage Ran ③Rated Current ④Rated Input ⑤Rated Speed ⑥Max. Airflow ⑦Max. Static Pressure ⑧SPL ⑨Operating Temperature ⑩Expected Life 	nge The The The The (ac The (acc ove "SP Plea e The	voltage range current value input value du rotating spee maximum air cording to the volume of air maximum sta cording to the e rcoming the re L" is Sound Pre ase refer to the temperature of	over whi during the f d during t volume th company generated tic pressu company' esistance essure Le e technica range ove	ch fan op e fan's rated he fan's rated hat the fan's r hat the fa 's dual-ch d by the f ure value 's dual-ch of the de ovel. The n al material	eration is g ted operation d operation rated operat n can output namber device that the fan amber device vice that us noise level d I section for	uarantee on without without icion with ut during ce). n time p can out ce). The es the f uring th the me	ed but load t load nout load parted c period tput dur static p fan whe fan's ethod us	d operation ing rat ressure n it pro rated c rated c	ed opera e is the f pels air. peration neasure	tion an's for the noi	ce to propel air	by

DC Fan Common Specifications

Material ·······Frame,Impeller:Plastics / Frame:Aluminum,Impeller:Plastics
* For details, refer to the appropriate page.
Expected Life \cdots Varies for each model (L10:Survival rate:90% at 60°C ,rated voltage, and continuously run in a free air state)
* Splash proof fan: Varies for each model (Indoor, L10:Survival rate:90% at 60 $^\circ$,rated voltage, and continuously run
in a free air state)
Motor Protection ••••••Burnout protection at locked rotor condition and Reverse polarity protection
Dielectric Strength · · · · · · AC50/60Hz 500VAC 1minute(between lead conductor and frame)
Insulation Resistance \cdots 10M Ω or more at 500VDC megger (between lead conductor and frame)
Sound Pressure Level(SPL) ··· Expressed as the value at 1m from air inlet side
Lead Wire ·······For details, refer to the appropriate page.

Overheating protection function

Protection Functions:

If the fan blades are restricted, an overcurrent occurs and leads to a rise in the fan coil temperature. This can result in reduced performance, damage, or a fire. To prevent this from occurring, SANYO DENKI's fans incorporate an overheating protection function. Refer to the catalog for the types of protection functions.

Burnout protection function at locked rotor condition

• Current cutoff system

If the fan blades are restricted, the coil current is cut off at regular cycles to prevent overheating of the coil. When the hindrance is removed, the fan restarts automatically.

Reverse polarity protection function

No problem about fan even if positive & negative lead are connected in reverse. However, when wiring fans with sensors or PWM speed control function, connecting positive and negative leads in reverse may damage the fans.