



·DC· SD180FAP (68)



180x180x65mm / 7X2.5inch Sinwan DC Fan, 500~215 CFM

SINWAN IP68/69K DC Plastic Impeller

Model No	Rated Volt VDC	Voltage Range VDC	Input Power Watt	Rated Current Amp	Ref. Speed RPM	Max. Airflow CFM m3/min	Max. Static Pressure Inch/H2O mm	Noise Level db(A)	PQ Curves	UL
SD180FAP-12SH** (68)	12	9~13.8	64.8	5.4	3700	490 13.9	1.25 31.75	68	SH	✓
SD180FAP-12HH** (68)	12	9~13.8	50.4	4.2	3400	460 13	1.10 27.94	63	HH	✓
SD180FAP-12H** (68)	12	9~13.8	23	1.9	2800	375 10.6	0.7 17.78	53	H	✓
SD180FAP-12M** (68)	12	10~14	13.2(~18)	1.1(~1.5)	2200	300 8.5	0.58 14.73	46	M	✓
SD180FAP-12L** (68)	12	10~14	5.5	0.45	1500	215 6.1	0.42 10.67	36	L	✓
SD180FAP-24SH** (68)	24	12~27.6	63.6	2.65	3800	500 14.2	1.3 33.02	69	SH	✓
SD180FAP-24HH** (68)	24	12~27.6	50.4(~60)	2.1(~2.5)	3500	470 13.3	1.2 30.48	65	HH	✓
SD180FAP-24H** (68)	24	12~27.6	24(~27.6)	0.97(~1.15)	2800	375 10.6	0.7 17.78	53	H	✓
SD180FAP-24M** (68)	24	12~28	13(~14.88)	0.52(~0.62)	2200	300 8.5	0.58 14.73	46	M	✓
SD180FAP-24L** (68)	24	15~28	5	0.20	1500	215 6.1	0.42 10.67	36	L	✓
SD180FAP-48SH** (68)	48	24~55	62.4	1.3	3800	500 14.2	1.3 33.02	69	SH	✓
SD180FAP-48HH** (68)	48	24~55	49.4	1.03	3500	470 13.3	1.2 30.48	65	HH	✓
SD180FAP-48H** (68)	48	24~55	23.5	0.48	2800	375 10.6	0.7 17.78	53	H	✓
SD180FAP-48M** (68)	48	28~60	14.5	0.30	2200	300 8.5	0.58 14.73	46	M	✓
SD180FAP-48L** (68)	48	30~63	5.8	0.12	1500	215 6.1	0.42 10.67	36	L	✓

- ** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice, data tolerance +-10%

Motor

Motor Type: Microprocessor brushless DC Motor, auto cutoff, auto restart
Burnout Protection: Electronically protected, polarity protected
IP Protection: IP68 or IP69K optional on request

Mechanical

Frame: Aluminum die cast, black color
Impeller: 5 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing: Two ball bearings
Rotation: CW seen on rotor
Connection: Wire lead or terminal flat pin connecting
Weight: 1450g (3.2Lbs)

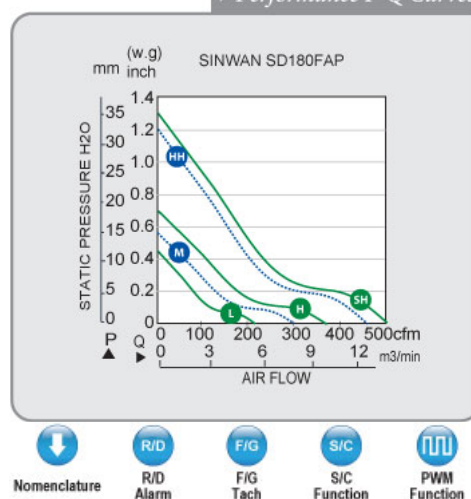
Electrical

Dielectric Strength: 500 VAC/min. Max leakage 500mA
Speed Control: Optional: PWM, S/C NTC thermister
Signal Output: Optional: RD alarm output, FG tachometer output

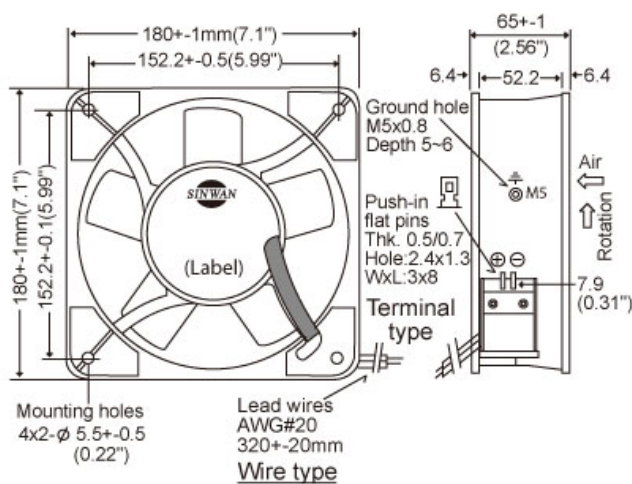
Environment

Operating Temp: -20C~+65C
Storage Temp: -20C~+75C (at 65%RH)
Life Expectancy: L10 90K hours at 35C, 40K hours at 60C

Performance P-Q Curves



► Outline Dimensions



Function Leads

⊕ Red color	Alarm R/D-Yellow color
⊖ 5V Green	Tacho F/G-White color
12V Blue	Speed control:
24V Black	Thermister NTC S/C-Orange
38V Brown	Pules W.Mod.PWM-Purple
48V Brown	Speed setting vs Vol. S/V-Gray

Relevant products

