



termavis

DC/AC AXIAL FAN CATALOGUE



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About Us

Founded in 2023, Termavis specializes in solution for thermal systems, fans, precision engineering, and high-performance systems for aerospace, defense, and industrial applications. With expertise in design, analysis, manufacturing, and testing, we provide innovative, reliable, and customized solutions to meet the most demanding technical challenges.

We operate from two engineering facilities in Ankara—one in İvedik, which houses our engineering office and test assembly workshop, and another in Ankara Teknopark, dedicated to advanced engineering and research. Our state-of-the-art tools, including CATIA for design and ANSYS for analysis, enable us to deliver high-quality, performance-driven results.

Beyond engineering, Termavis collaborates with clients to optimize production, enhance products, and drive innovation. Our expert engineers develop custom solutions that meet global industry standards.

As an ISO-compliant company, we are committed to continuous improvement, quality control, and on-time delivery. Whether developing aerospace components, electromechanical systems, or thermal solutions, Termavis ensures cutting-edge performance, reliability, and efficiency in every project.

Termavis — Providing Technology With Accuracy And Creativity.



DC AXIAL FANS



25x25x10

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type: Brushless DC Motor, auto cutoff auto restart optional

Burnout Protection: Electronically protected, polarity protected

IP Protection: IP55, IP67 (Optional)

Frame: Glass fiber reinforced thermoplastic, rated UL94V-0

Impeller: 5 blades, glass fiber reinforced plastic, rated UL94V-0

Bearing: Two ball bearings

Rotation: CCW seen on rotor

Connection: Wire lead or terminal flat pin connecting

Weight: 8g (0.018 Lbs)

Dielectric Strength: 500 VAC/min. Max leakage 0.5mA

Speed Control: Optional: PWM, S/C NTC thermister

Signal Output: Optional: RD Rotation Detector, FG Frequency Generator

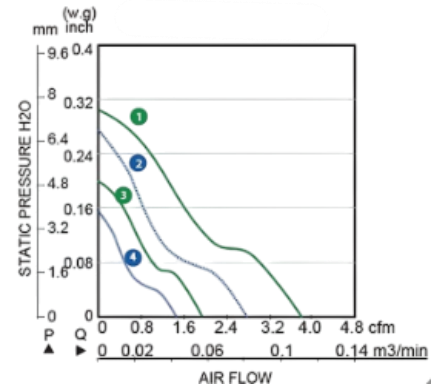
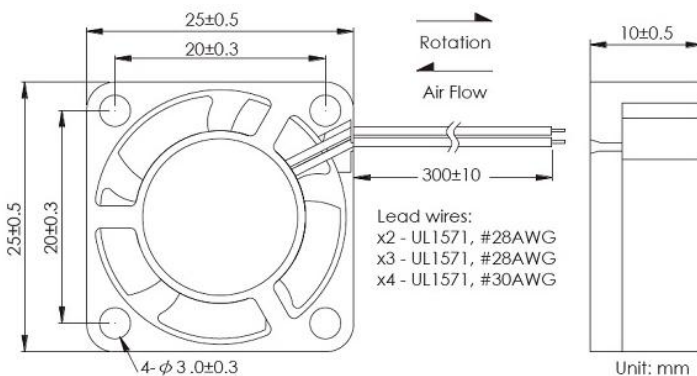
Operating Temp: -20C~+65C

Storage Temp: -20C~+75C (at 65%RH)

Life Expectancy: L10 - B:70K hours at 40C / Y:50K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm/H2O	db(A)	
5	4.5~5.5	1.1	0.22	14000	3.8	0.1	0.29	7.37	29	1
5	4~7	1.1	0.22	12000	2.8	0.1	0.27	6.86	28	2
5	4~7	0.75	0.15	9500	2.0	0.1	0.2	5.08	24	3
5	4~7	0.45	0.09	6500	1.5	0	0.16	4.06	18	4
5	4~7	0.35	0.07	6000	1.4	0	0.15	3.81	17	5
12	7~14	0.72 (~0.96)	0.06 (~0.08)	12000	2.8	0.1	0.27	6.86	28	2
12	7~14	0.6	0.05	9500	2.0	0.1	0.2	5.05	24	3
12	7~14	0.48	0.04	6500	1.5	0	0.16	4.06	18	4
24	14~27.6	1.56	0.065	12000	2.8	0.1	0.27	6.86	28	2
24	14~27.6	0.96	0.04	9500	2.0	0.1	0.2	5.08	24	3
24	14~28	0.72	0.03	6500	1.5	0	0.16	4.06	18	4



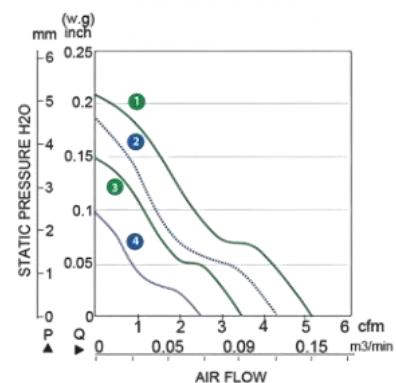
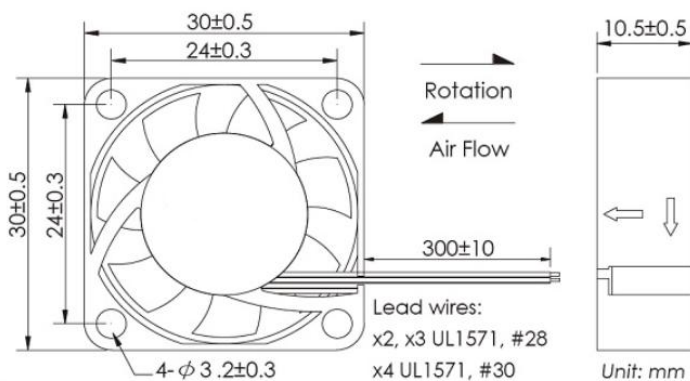
30x30x10

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor, auto cutoff auto restart optional
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55, IP67 (Optional)
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	8g (0.018 Lbs)
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Rotation Detactor, FG Frequency Generator
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 - B:70K hours at 40C / Y:50K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure	Noise Level	PQ Curves	
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
5	4~7	1.4	0.28	11000	5.1	0.1	0.21	5.33	30	1
5	4~7	1.5	0.21	9000	4.2	0.1	0.18	4.57	28	2
5	4~7	0.9	0.18	8000	3.3	0.1	0.15	3.81	23	3
5	4~7	0.6	0.12	5500	2.5	0.1	0.10	2.54	19	4
12	8~13.8	1.44 (~1.8)	0.12(~0.15)	11000	5.1	0.1	0.21	5.33	30	1
12	8~13.8	1.44	0.12	9000	4.2	0.1	0.18	4.57	28	2
12	8~13.8	1.2	0.10	8000	3.6	0.1	0.15	3.81	23	3
12	8~13.8	0.84	0.07	5500	2.5	0.1	0.10	2.54	19	4
24	12~27.6	1.92	0.08	9000	4.2	0.1	0.18	4.57	28	2
24	12~27.6	1.68	0.07	8000	3.6	0.1	0.15	3.81	23	3
24	12~27.6	1.44	0.06	5500	2.5	0.1	0.10	2.54	19	4



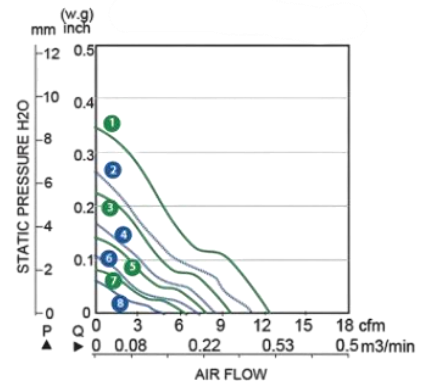
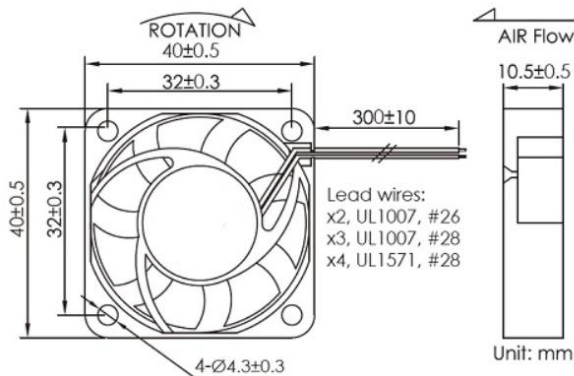
40x40x10

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor, auto cutoff auto restart optional
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55, IP67 (Optional)
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	16g
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Rotation Detactor, FG Frequency Generator
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 - B:70K hours at 40C / Y:50K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	9~14	2.4	0.2	10000	12.5	0.4	0.35	8.89	39	1
12	9~14	1.68	0.14	9000	11.0	0.3	0.27	6.86	37	2
12	9~14	1.32	0.11	8000	9.5	0.3	0.22	5.59	35	3
12	9~14	1.2	0.1	7000	8.5	0.2	0.18	4.57	32	4
12	9~14	1.8	0.09	6500	8.0	0.2	0.15	3.81	28	5
12	9~14	0.96	0.08	6000	7.5	0.2	0.12	3.05	26	6
12	9~14	0.84	0.07	5000	6.5	0.2	0.08	2.03	24	7
24	16~27	2.4	0.1	10000	12.5	0.4	0.35	8.89	39	1
24	16~27	2.16	0.09	9000	11	0.3	0.27	6.86	37	2
24	16~27	1.92	0.08	8000	9.5	0.3	0.22	5.59	35	3
24	16~27	1.68	0.07	7000	8.5	0.2	0.18	4.57	32	4
24	16~27	1.44	0.06	6500	8.0	0.2	0.15	3.81	28	5
24	16~27	1.2	0.05	6000	7.5	0.2	0.12	3.05	26	6
24	16~27	0.96	0.04	5000	6.5	0.2	0.08	2.03	24	7
24	16~27	0.72	0.03	4000	5.0	0.1	0.06	1.52	22	8



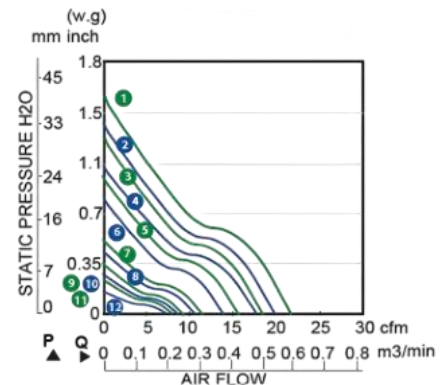
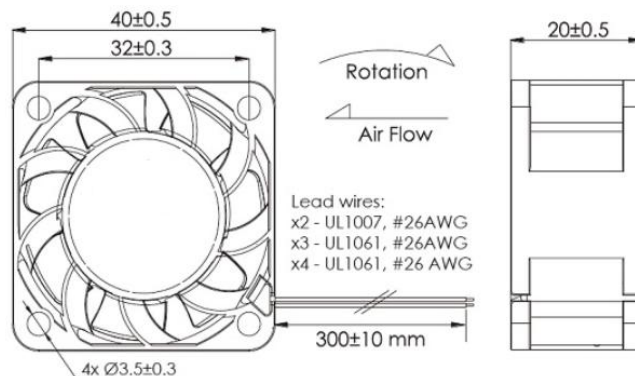
40x40x20

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55, IP67 (Optional)
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or Terminal flat pin connecting
Weight:	30g
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Alarm output, FG Tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 - B:70K hours at 40C / Y:50K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	7~13.2	6.36	0.53	17000	22	0.6	1.6	40.64	55	1
12	7~13.2	5.4	0.45	16000	20	0.6	1.45	36.83	53	2
12	7~13.2	5.4	0.42	15000	18.8	0.5	1.28	32.51	51	3
12	7~13.2	4.8	0.4	14000	17	0.5	1.1	27.94	49	4
12	7~13.2	4.44	0.37	13000	15.6	0.4	0.93	23.62	47	5
12	7~13.2	4.2	0.35	12000	14.5	0.4	0.8	20.32	44	6
12	7~13.2	3.96	0.33	10000	12	0.3	0.55	13.97	40	7
12	7~13.2	3.36	0.28	9000	10.5	0.3	0.44	11.18	38	8
12	7~13.2	2.4	0.2	8000	9.5	0.3	0.35	8.89	33	9
12	7~13.2	1.92	0.16	7000	8.2	0.2	0.27	6.86	30	10
12	7~13.2	1.44	0.12	6000	7	0.2	0.2	5.08	27	11
12	7~13.2	1.2	0.1	5000	5.8	0.2	0.14	3.56	23	12
24	14~26.4	6.72	0.28	17000	22	0.6	1.6	40.64	55	1
24	14~26.4	5.28	0.22	16000	20	0.6	1.45	36.83	53	2
24	14~26.4	4.8	0.2	15000	18.8	0.5	1.28	32.51	51	3
24	14~26.4	4.56	0.19	14000	17	0.5	1.1	27.94	49	4



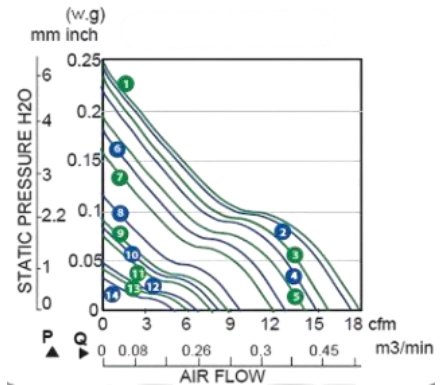
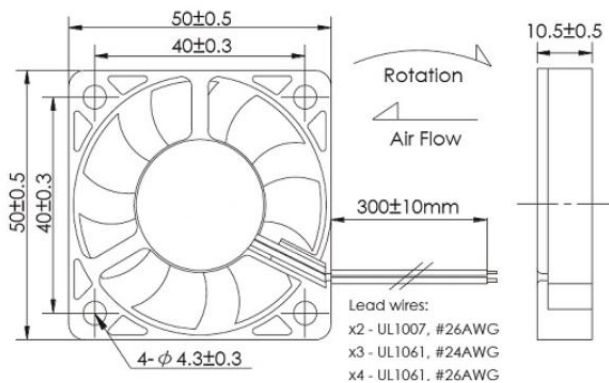
50x50x10

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55, IP67 (Optional)
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or Terminal flat pin connecting
Weight:	32g
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Alarm output, FG Tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 - B:70K hours at 40C / Y:50K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
5	4.5~5.5	1.5	0.3	7000	14	0.4	0.2	5.08	36	5
5	4.5~5.5	1.05	0.21	6500	13	0.4	0.18	4.57	35	6
5	4.5~5.5	1.05	0.21	6000	12	0.3	0.16	4.06	33	7
5	4.5~5.5	0.95	0.19	5000	10	0.3	0.12	3.05	27	9
5	4.5~5.5	0.8	0.16	4500	9	0.3	0.09	2.29	25	10
5	4.5~5.5	0.75	0.15	4000	8	0.2	0.08	2.03	23	11
5	4.5~5.5	0.65	0.13	3500	7	0.2	0.05	1.27	18	12
5	4.5~5.5	0.5	0.1	3000	6	0.2	0.04	1.02	15	13
5	4.5~5.5	0.4	0.08	2500	5	0.1	0.03	0.76	13	14
12	7~13.2	1.8	0.15	8500	17	0.5	0.24	6.1	44	2
12	7~13.2	1.68	0.14	8000	16	0.5	0.23	5.84	41	3
12	7~13.2	1.44	0.12	7500	15	0.4	0.22	5.59	38	4
12	7~13.2	1.2	0.1	7000	14	0.4	0.2	5.08	36	5
12	7~13.2	1.08	0.09	6000	12	0.3	0.16	4.06	33	7
24	14~26.4	3.6	0.15	9000	18	0.5	0.26	6.6	46	1
24	14~26.4	2.4	0.1	7200	15	0.4	0.22	5.59	37	4
24	14~26.4	1.92	0.08	6500	13	0.4	0.18	4.57	35	6
24	14~26.4	1.68	0.07	5500	11	0.3	0.142	3.61	30	8



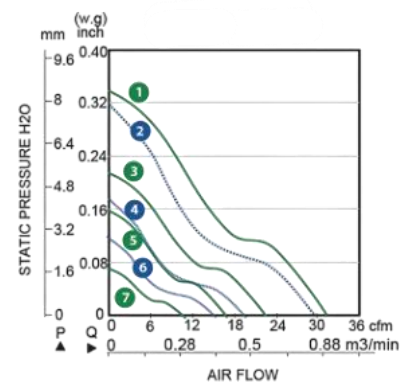
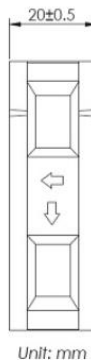
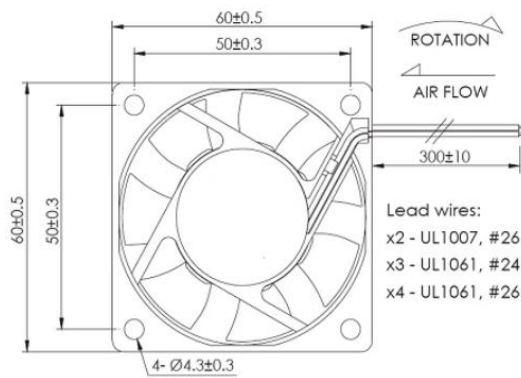
60x60x20

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor, auto cutoff auto restart optional
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55, IP67 (Optional)
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	40g
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Rotation Detactor, FG Frequency Generator
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 - B:70K hours at 40C / Y:50K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
5	4~6	1.3	0.25	4500	17	0.5	0.16	4.06	27	5
5	4~6	1	0.19	3800	15	0.4	0.11	2.79	26	6
5	4~7	0.8	0.15	2500	10	0.3	0.07	1.78	22	7
12	8~13.8	5.04	0.42	7000	32	0.9	0.34	8.64	43	1
12	8~13.8	4.08	0.34	6500	30	0.8	0.32	8.13	40	2
12	8~13.8	3.36	0.28	5600	23	0.7	0.21	5.33	33	3
12	8~13.8	2.2	0.18	4700	18	0.5	0.17	4.32	28	4
12	8~13.8	1.8	0.15	3800	15	0.4	0.11	2.79	26	6
12	8~14	1.2	0.10	2500	10	0.3	0.07	1.78	22	7
24	12~27.6	4.8	0.2	6500	30	0.8	0.32	8.13	40	2
24	12~27.6	4.32	0.18	5600	23	0.7	0.21	5.33	33	3
24	12~27.6	3.6	0.15	4700	18	0.5	0.17	4.32	28	4
24	12~27.6	3.1	0.13	3800	15	0.4	0.11	2.79	26	6
24	12~28	1.7	0.07	2500	10	0.3	0.07	1.78	22	7
48	24~55	3.4	0.07	5600	23	0.7	0.21	5.33	33	3



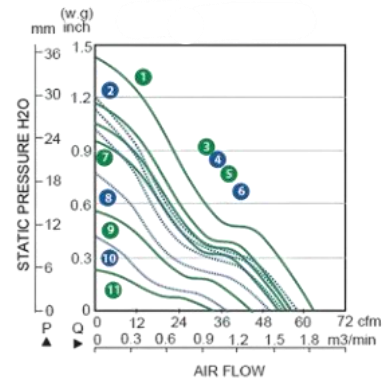
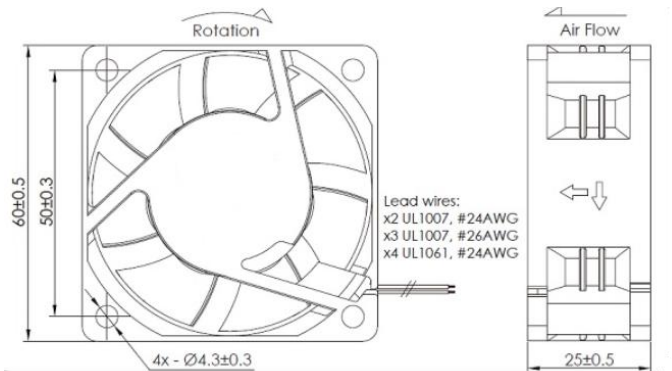
60x60x25

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, Polarity protected
IP Protection:	IP55, IP68 (Optional)
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	Glass fiber reinforced thermoplastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	60g
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Rotation Detactor, FG Frequency Generator
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 - B:70K hours at 40C / Y:50K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	7~13.2	14.4	1.2	9800	57	1.6	1.17	29.72	66	3
12	7~13.2	9	0.75	8200	54	1.5	0.94	23.88	65	7
12	7~13.2	7.2	0.6	7500	49	1.4	0.787	19.99	63	8
12	7~13.2	6	0.5	6800	45	1.3	0.559	14.2	56	9
12	7~13.2	4.8	0.4	6000	40	1.1	0.433	11	53	10
12	7~13.2	2.4	0.2	5000	35	1	0.25	6.35	40	11
24	14~26.4	16.32	0.68	11000	63	1.8	1.4	35.56	69	1
24	14~26.4	14.4	0.6	10000	58	1.6	1.19	30.23	68	2
24	14~26.4	12	0.5	9500	56.8	1.6	1.15	29.21	66	4
24	14~26.4	10.8	0.45	9000	56	1.6	1.08	27.43	66	5
24	14~26.4	9.6	0.4	8500	54.2	1.5	1.02	25.91	65	6
24	14~26.4	8.4	0.35	8200	54	1.5	0.94	23.88	65	7
24	14~26.4	7.2	0.3	7500	49	1.4	0.787	19.99	63	8
48	28~56	21.6	0.45	9800	57	1.6	1.17	29.72	66	3
48	28~56	15.3	0.3	8200	54	1.5	0.94	23.88	65	7
48	28~56	9.6	0.2	7500	49	1.4	0.787	19.99	63	8



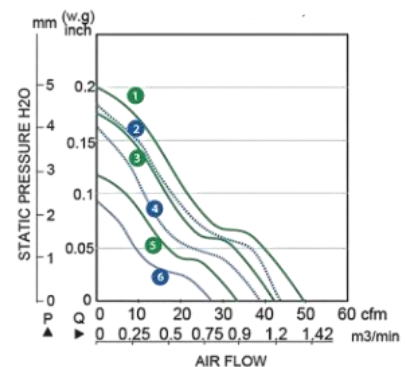
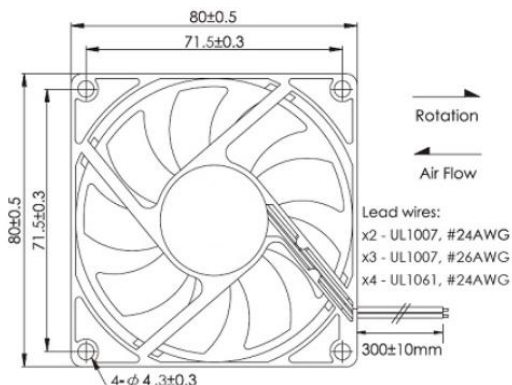
80x80x15

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor, auto cutoff auto restart optional
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55, IP56 (Optional)
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	9 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	40g
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Rotation Detactor, FG Frequency Generator
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 - B:70K hours at 40C / Y:50K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
5	4~6	1.4	0.28	3600	39	1.1	0.16	4.06	38	4
5	4~7	1.0	0.20	3100	33	0.9	0.12	3.05	34	5
5	4~7	0.8	0.15	2700	28	0.8	0.09	2.29	31	6
12	8~13.8	2.2	0.18	3600	39	1.1	0.16	4.06	38	4
12	8~13.8	1.8	0.15	3100	33	0.9	0.12	3.05	34	5
12	8~14	1.4	0.12	2700	28	0.8	0.09	2.29	31	6
24	12~27.6	6.0	0.25	4500	50	1.4	0.2	5.08	48	1
24	12~27.6	4.8	0.2	4000	43	1.2	0.18	4.57	42	2
24	12~27.6	3.6	0.15	3800	41	1.2	0.17	4.32	40	3
24	12~27.6	2.9	0.12	3600	39	1.1	0.16	4.06	38	4
24	12~27.6	2.4	0.1	3100	33	0.9	0.12	3.05	34	5
24	12~28	2.0	0.08	2700	28	0.8	0.09	2.29	31	6



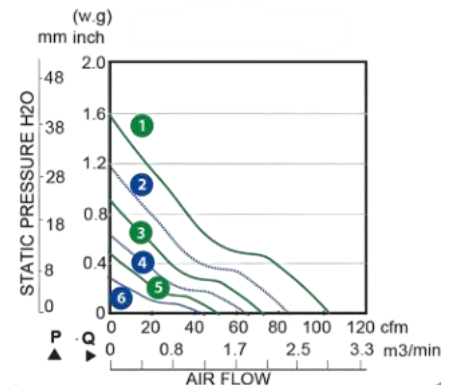
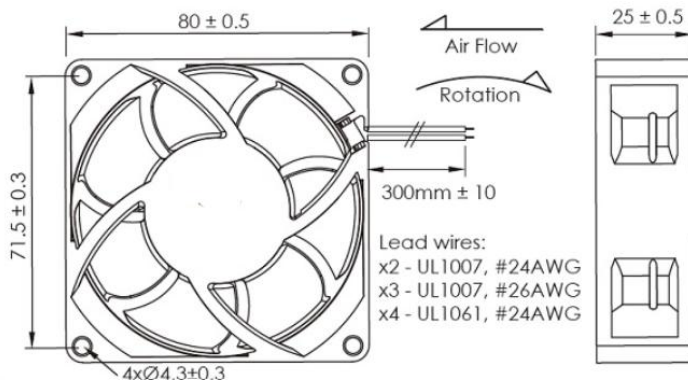
80x80x25

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, Polarity protected
IP Protection:	IP55, IP56 (Optional)
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or Terminal flat pin connecting
Weight:	108g
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: R/D alarm output, F/G Tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 - B:70K hours at 40C / Y:50K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	7~13.2	19.2	1.6	9500	105	3	1.6	40.64	65	1
12	7~13.2	11.52	0.96	8000	86	2.4	1.2	30.48	60	2
12	7~13.2	8.64	0.72	7000	76	2.2	0.85	21.59	55	3
12	7~13.2	6.48	0.54	6000	65	1.8	0.63	16	50	4
12	7~13.2	5.4	0.45	5000	54	1.5	0.5	12.7	45	5
12	7~13.2	3.6	0.3	4000	43	1.2	0.3	7.62	40	6
24	14~26.4	20	0.85	9500	105	3	1.6	40.64	65	1
24	14~26.4	12	0.5	8000	86	2.4	1.2	30.48	60	2
24	14~26.4	9.12	0.38	7000	76	2.2	0.85	21.59	55	3
24	14~26.4	6.96	0.29	6000	65	1.8	0.63	16	50	4
24	14~26.4	6	0.25	5000	54	1.5	0.5	12.7	45	5
48	34~56	21.6	0.45	9500	105	3	1.6	40.64	65	1
48	34~56	18.24	0.38	8000	86	2.4	1.2	30.48	60	2
48	34~56	12.96	0.27	7000	76	2.2	0.85	21.59	55	3
48	34~56	9.6	0.2	6000	65	1.8	0.63	16	50	4



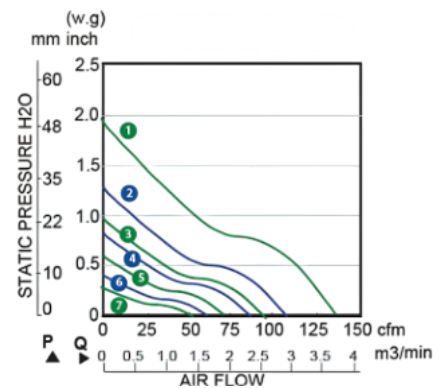
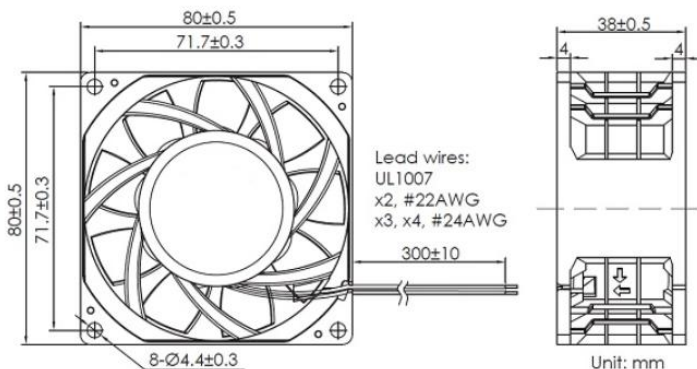
80x80x38

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55, IP68 (Optional)
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	9 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	210g
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister on request
Signal Output:	Optional: RD Rotation Detactor, FG Frequency Generator
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure	Noise Level	PQ Curves	
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	7~13.2	42	3.5	9000	132	3.7	2	50.8	66	1
12	7~13.2	24	2	7500	107	3	1.36	34.54	62	2
12	7~13.2	15	1.25	6500	93	2.6	1.0	25.4	59	3
12	7~13.2	10.8	0.9	5800	82	2.3	0.78	19.81	52	4
12	7~13.2	7.2	0.6	5000	71	2	0.58	14.73	49	5
12	7~13.2	4.8	0.4	4200	60	1.7	0.41	10.41	45	6
12	7~13.2	3.6	0.3	3500	50	1.4	0.28	7.11	41	7
24	14~26.4	45.6	1.9	9000	132	3.7	2	50.8	66	1
24	14~26.4	21.6	0.9	7500	107	3	1.36	34.54	62	2
24	14~26.4	14.4	0.6	6500	93	2.6	1.0	25.4	59	3
24	14~26.4	10.8	0.45	5800	82	2.3	0.78	19.81	52	4
24	14~26.4	7.2	0.3	5000	71	2	0.58	14.73	49	5
48	28~56	43.2	0.9	9000	132	3.7	2	50.8	66	1
48	28~56	27.8	0.58	7500	107	3	1.36	34.54	62	2
48	28~56	24.5	0.51	6500	93	2.6	1.0	25.4	59	3
48	28~56	16.8	0.35	5800	82	2.3	0.78	19.81	52	4



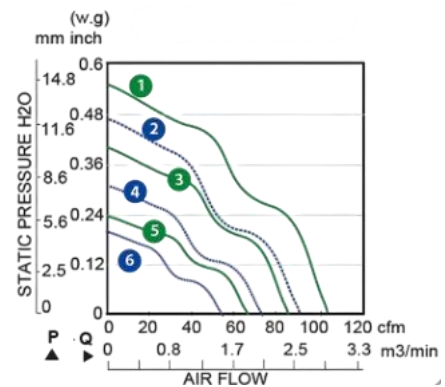
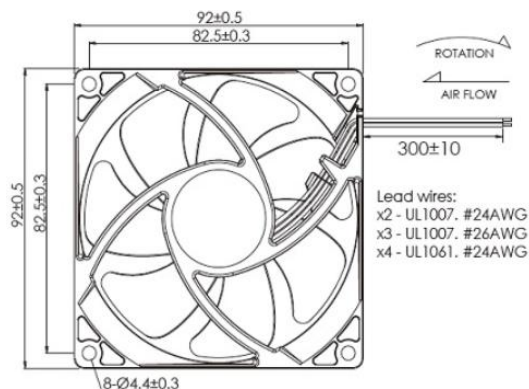
92x92x25

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55, IP68 (Optional)
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	Glass fiber reinforced thermoplastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or Terminal flat pin connecting
Weight:	80g
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Rotation Detector, FG Frequency Generator
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 - B:70K hours at 40C / Y:50K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure	Noise Level	PQ Curves	
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	7~13.2	10.2	0.85	5500	103	2.9	0.58	14.73	55	1
12	7~13.2	8.4	0.7	5000	94	2.7	0.47	11.94	52	2
12	7~13.2	5.4	0.45	4500	85	2.4	0.4	10.16	50	3
12	7~13.2	4.2	0.35	4000	76	2.2	0.31	7.87	47	4
12	7~13.2	3.6	0.3	3500	66	1.9	0.24	6.1	44	5
12	7~13.2	3	0.25	3000	57	1.6	0.19	4.83	40	6
24	14~26.4	10.32	0.43	5500	103	2.9	0.58	14.73	55	1
24	14~26.4	8.4	0.35	5000	94	2.7	0.47	11.94	52	2
24	14~26.4	5.52	0.23	4500	85	2.4	0.4	10.16	50	3
24	14~26.4	4.56	0.19	4000	76	2.2	0.31	7.87	47	4
24	14~26.4	3.6	0.15	3500	66	1.9	0.24	6.1	44	5
24	14~26.4	3.12	0.13	3000	57	1.6	0.19	4.83	40	6
48	28~56	9.6 (~14.4)	0.2 (~0.3)	5500	103	2.9	0.58	14.73	55	1
48	28~56	7.2 (~9.6)	0.15 (~0.2)	5000	94	2.7	0.47	11.94	52	2
48	28~56	4.8 (~7.2)	0.1 (~0.15)	4500	85	2.4	0.4	10.16	50	3
48	28~56	2.88 (~4.8)	0.06 (~0.1)	4000	76	2.2	0.31	7.87	47	4



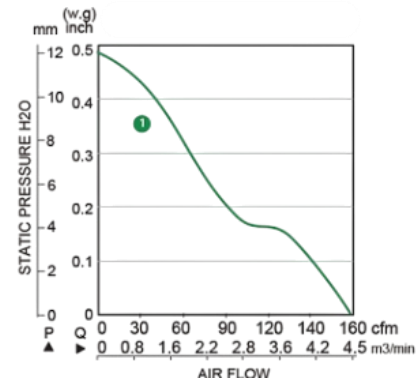
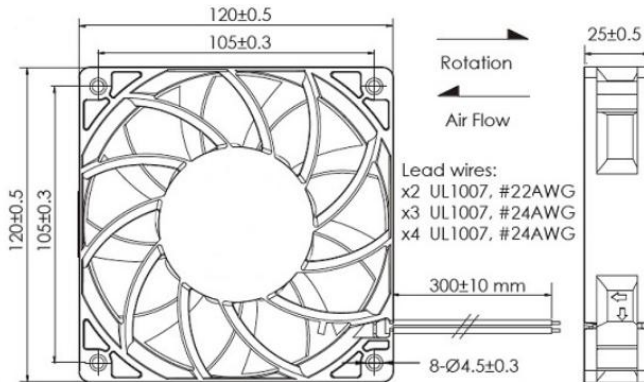
120x120x25

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, Polarity protected
IP Protection:	IP55, IP68 (Optional)
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	9 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or Terminal flat pin connecting
Weight:	205g
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Rotation Detactor, FG Frequency Generator
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	7~13.2	16.8	1.4	4000	160	4.5	0.49	12.45	57	1
24	14~26.4	20.4	0.85	4000	160	4.5	0.49	12.45	57	1
48	28~56	14.4	0.3	4000	160	4.5	0.49	12.45	57	1



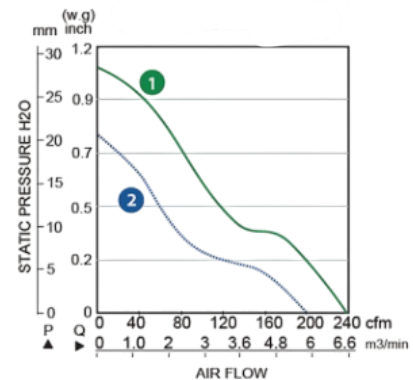
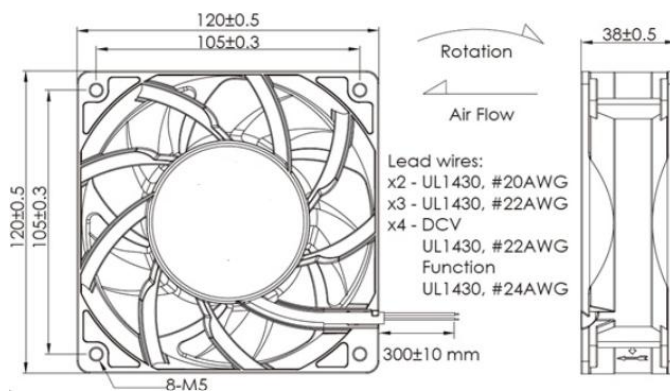
120x120x38

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55, IP68 (Optional)
Frame:	Aluminum die cast, black color
Impeller:	5 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or Terminal flat pin connecting
Weight:	455g
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister on request
Signal Output:	Optional: RD Rotation Detector, FG Frequency Generator
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	7~13.8	40.8	3.4	7000	200	5.7	3.2	81.28	62	4
24	14~26.4	108	4.3	12000	300	8.5	4.6	116.84	78	1
24	14~26.4	96	4	10000	250	7.1	4.0	101.6	73	2
24	14~26.4	87.6	3.65	9000	225	6.4	3.45	87.63	69	3
24	14~26.4	76.8	3.2	8000	200	5.7	3.2	81.28	65	4
24	14~26.4	62.4	2.6	7000	190	5.4	3.0	76.2	62	5
24	14~26.4	52.8	2.2	6000	175	5	2.85	72.39	60	6
48	28~56	120	2.5	12000	300	8.5	4.6	116.84	78	1
48	28~56	110.4	2.3	10000	250	7.1	4.0	101.6	73	2
48	28~56	96	2.0	9000	225	6.4	3.45	87.63	69	3
48	28~56	86.4	1.8	8000	200	5.7	3.2	81.28	65	4



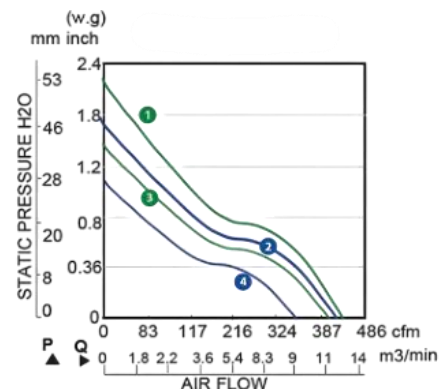
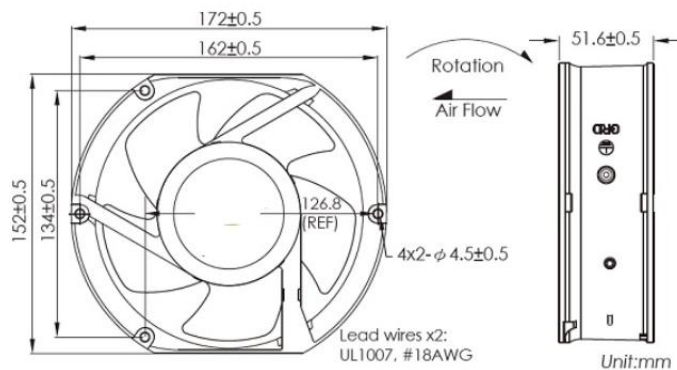
172x150x51

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, Polarity protected
IP Protection:	IP55, IP68 (Optional)
Frame:	Aluminum die cast, black color
Impeller:	5 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	610g
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Rotation Detector, FG Frequency Generator
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
24	14~26.4	78	3.25	5500	400	11.3	1.52	38.61	69	3
24	14~26.4	43.2	1.8	4500	330	9.3	1.11	28.19	64	4
48	28~56	124.8	2.6	6500	472	13.4	2.12	53.85	73	1
48	28~56	96	2	6000	436	12.3	1.8	45.72	71	2
48	28~56	69.6	1.45	5500	400	11.3	1.52	38.61	69	3
48	28~56	40.8	0.85	4500	330	9.3	1.11	28.19	64	4



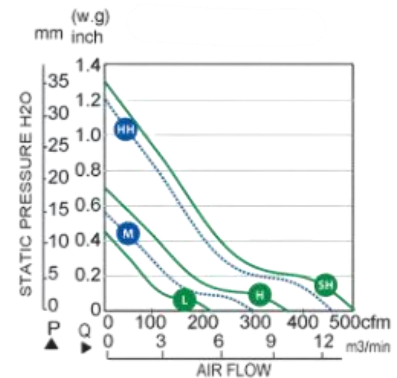
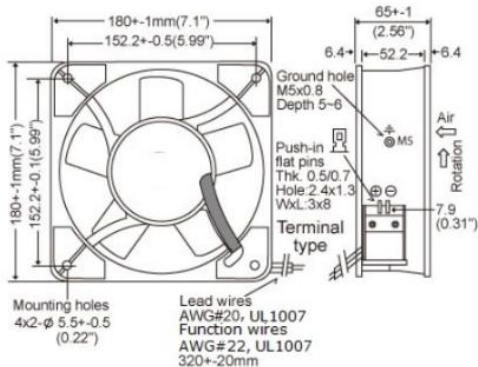
180x180x65

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor, auto cutoff, auto restart
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55, IP68 (Optional)
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:	1450 g (3.2 Lbs)
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister on request
Signal Output:	Optional: R/D alarm output, tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 90K hours at 35C, 40K hours at 60C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	9~13.8	64.8	5.4	3700	490	13.9	1.25	31.75	68	SH
12	9~13.8	50.4	4.2	3400	460	13	1.1	27.94	63	HH
12	9~13.8	23	1.9	2800	375	10.6	0.7	17.78	53	H
12	10~14	13.2	1.1	2200	300	8.5	0.58	14.73	46	M
		(~18)	(~1.5)							
12	10~14	5.5	0.45	1500	215	6.1	0.42	10.67	36	L
24	12~27.6	63.6	2.65	3800	500	14.2	1.3	33.02	69	SH
24	12~27.6	50.4	2.1	3500	470	13.3	1.2	30.48	65	HH
		(~60)	(~2.5)							
24	12~27.6	24	0.97	2800	375	10.6	0.7	17.78	53	H
		(~27.6)	(~1.15)							
24	12~28	13	0.52	2200	300	8.5	0.58	14.73	46	M
		(~14.88)	(~0.62)							
48	24~55	62.4	1.3	3800	500	14.2	1.3	33.02	69	SH
48	24~55	49.4	1.03	3500	470	13.3	1.2	30.48	65	HH
48	24~55	23.5	0.48	2800	375	10.6	0.7	17.78	53	H
48	28~60	14.5	0.30	2200	300	8.5	0.58	14.73	46	M



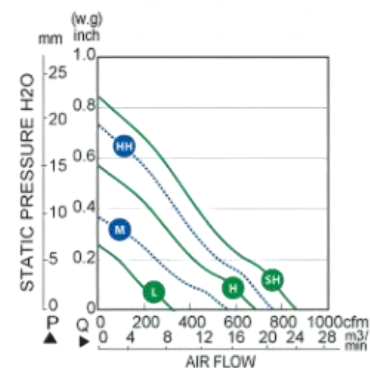
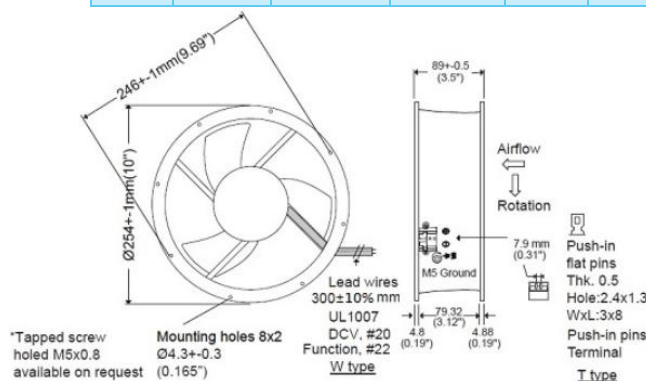
254x89

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Brushless DC Motor, auto cutoff, auto restart
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55, IP68 (Optional)
Frame:	Aluminum die cast, black color treatment
Impeller:	3 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire leads or push-in flat pins terminal connecting, terminal block optional.
Weight:	1,830 Gr (4 Lbs)
Dielectric Strength:	500 VDC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister, 0~10V control voltage S/V
Signal Output:	Optional: R/D alarm, tachometer F/G outputs
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 90K hours at 35C, 40K hours at 60C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	9~13	64.8	5.4	2400	830	23.5	0.78	19.81	60	SH
12	9~13	50.4	4.2	2200	750	21.2	0.69	17.53	56	HH
12	9~13	23 (~37.2)	1.9 (~3.1)	2000	690	19.5	0.58	14.73	47	H
12	9~14	13.2 (~18)	1.1 (~1.5)	1650	550	15.6	0.37	9.4	39	M
12	10~16	5.5	0.45	1000	350	9.9	0.25	6.35	28	L
24	16~27	120	5.0	3300	1100	31.1	1.6	40.64	77	EH
24	16~27	100.8	4.2	3000	1000	28.3	1.05	26.67	75	SHH
24	16~27	63.6	2.65	2500	850	24.1	0.83	21.08	62	SH
24	16~27	50.4	2.0	2300	760	21.5	0.71	18.03	58	HH
24	16~27	36	1.5	2000	690	19.5	0.58	14.73	47	H
24	16~27.6	28.8	1.2	1650	550	15.6	0.37	9.4	39	M
24	18~30	16.8	0.7	1000	350	9.9	0.25	6.35	28	L
48	24~53	124.8	2.6	3300	1100	31.1	1.6	40.64	77	EH
48	24~53	96	2	3000	1000	28.3	1.05	26.67	75	SHH
48	24~53	62.4	1.5	2500	850	24.1	0.83	21.08	62	SH
48	24~53	62.4	1.3	2300	760	21.5	0.71	18.03	58	HH
48	24~53	48	1.0	2000	690	19.5	0.58	14.73	49	H
48	24~56	33.6	0.7	1650	550	15.6	0.37	9.4	39	M



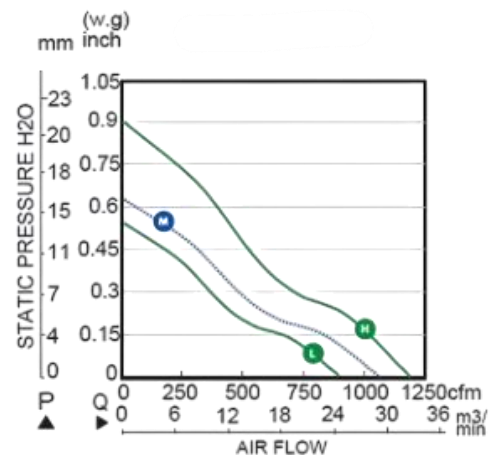
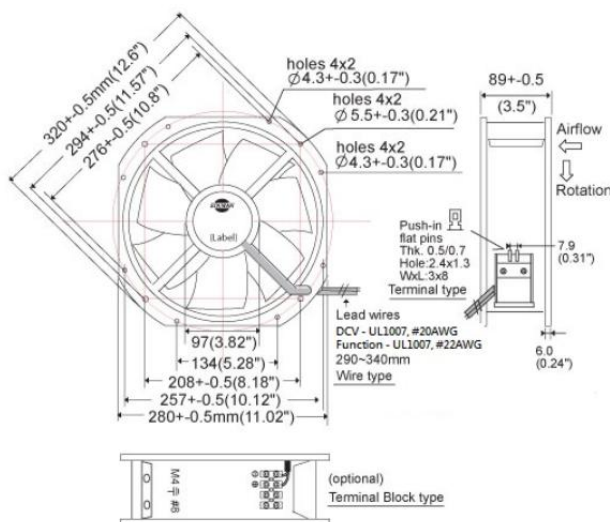
280x280x89

DC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	<i>Brushless DC Motor, auto cutoff, auto restart</i>
Burnout Protection:	<i>Electronically protected, polarity protected</i>
IP Protection:	<i>IP55, IP67 (Optional)</i>
Frame:	<i>Aluminum die cast, natural color(AN) or black color(AP)</i>
Impeller:	<i>7 blades, glass fiber reinforced plastic, rated UL94V-0</i>
Bearing:	<i>Two ball bearings</i>
Rotation:	<i>CCW seen on rotor</i>
Connection:	<i>Wire lead or terminal flat pin connecting</i>
Weight:	<i>2,800g (6.2 Lbs)</i>
Dielectric Strength:	<i>500 VDC/min. Max leakage 0.5mA</i>
Speed Control:	<i>Optional:PWM, S/C NTC thermister on request</i>
Signal Output:	<i>Optional:R/D alarm output, tachometer output</i>
Operating Temp:	<i>-20C~+65C</i>
Storage Temp:	<i>-20C~+75C (at 65%RH)</i>
Life Expectancy:	<i>L10 85K hours at 35C, 40K hours at 60C</i>



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	9~13.5	90	7.5	2100	1011	28.6	0.63	16	63	M
12	9~13.5	50	4.2	1800	867	24.6	0.55	13.97	59	L
24	18~27.6	104.4	4.35	2450	1180	33.4	0.90	22.86	79	H
24	18~27.6	58.8 (~72)	2.45 (~3.0)	2200	1060	30	0.65	16.51	65	M
24	18~27.6	26.4(~52.8)	1.1 (~2.2)	1800	867	24.6	0.55	13.97	59	L
48	24~55	105.6	2.2	2450	1180	33.4	0.90	22.86	79	H
48	24~55	57.6	1.2	2200	1060	30	0.65	16.51	65	M
48	24~55	26.Nis	0.55	1500	722	20.4	0.50	12.7	59	L



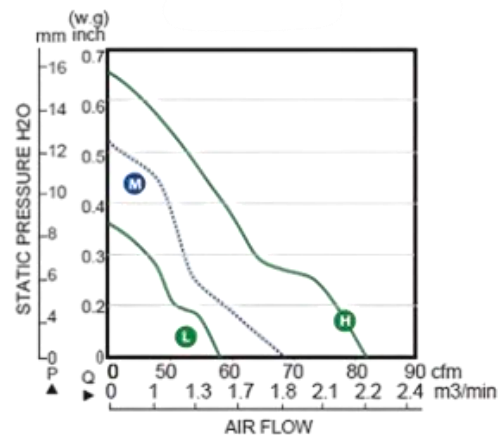
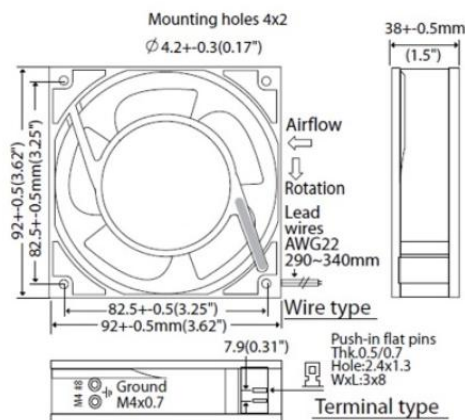
92x92x38

DC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Brushless DC motor, alarm, tach,pwm, thermal speed controls
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55,56 optional request
Frame:	Aluminum die cast, natural coating treatment
Impeller:	Metal fan blades. Welded spoting joint metal fan blades
Bearing:	Ball bearing
Rotation:	CCW at left (L), seen on rotor
Connection:	Wire lead or Terminal push-pin connecting for choice
Weight:	-
Dielectric Strength:	500VAC/min. Max. leakage 0.5mA
Speed Control:	-
Signal Output:	Optional:R/D alarm output, tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	Life expectancy 90K hours at 35C, 40K hours at 65C based on L10 Formula



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	8~13	8	0.67	5000	82	2.3	0.65	16.51	49	H
12	8~13	6	0.5	4200	69	2	0.52	13.21	45	M
12	8~13	4	0.33	3500	58	1.6	0.36	9.14	33	L
24	15~26	8	0.33	5000	82	2.3	0.65	16.51	49	H
24	15~27	6	0.25	4200	69	2	0.52	13.21	45	M
24	15~28	4	0.16	3500	58	1.6	0.36	9.14	33	L
48	28~53	8	0.16	5000	82	2.3	0.65	16.51	49	H
48	28~56	6	0.13	4200	69	2	0.52	13.21	45	M
48	28~56	4	0.08	3500	58	1.6	0.36	9.14	33	L



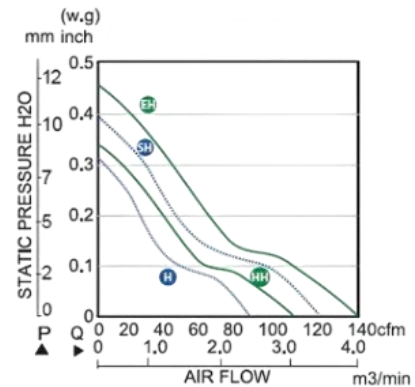
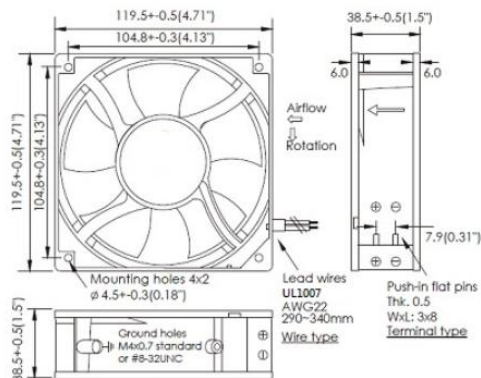
120x120x38

DC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Brushless DC motor, alarm, tach, pwm, thermal speed controls
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55,56 optional request
Frame:	Aluminum die-cast, black color treatment
Impeller:	Metal steel fan blades, welded spoting joint blades & metal rotor
Bearing:	Two Ball bearings
Rotation:	CCW at left (L), seen on rotor
Connection:	Wire lead or Terminal push-pin connecting for choice
Weight:	440 Gr (0.97Lbs)
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Pwm, thermal NTC S/C
Signal Output:	Alarm R/D, Tach F/G
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 80K hours at 45C, 40K hours at 55C,



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure	Noise Level	PQ Curves	
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
5	4~6	9.5(~15)	1.9(~3)	3200	120	3.4	0.42	10.67	44	SH
5	4~6	9.5	1.9	2800	103	2.9	0.37	9.4	41	HH
5	4~6	8	1.6	2500	94	2.7	0.35	8.89	36	H
12	8~13.8	10.6(~15)	0.88(~1.3)	3800	140	4	0.45	11.43	46	EH
12	8~13.8	10.6	0.88	3200	120	3.4	0.40	10.16	41	SH
12	10~13.8	8.4	0.7	3000	110	3.1	0.38	9.65	41	HH
12	8~13.8	6	0.5	2500	94	2.7	0.35	8.89	35	H
24	12~27.6	10.3(~15)	0.43(~0.62)	3800	140	4	0.45	11.43	47	EH
24	12~27.6	10.3	0.43	3600	130	3.7	0.40	10.16	45	SH
24	12~27.6	8.4	0.35	3000	110	3.1	0.38	9.65	41	HH
38	24~44	10.3(~15)	0.27(~0.4)	3800	140	4	0.45	11.43	47	EH
38	24~44	10.3	0.27	3200	120	3.4	0.40	10.16	45	SH
48	38~55	10.6(~15)	0.22(~0.32)	3800	140	4	0.45	11.43	47	EH
48	38~55	10.6	0.22	3600	130	3.7	0.40	10.16	45	SH
48	38~55	7.7	0.16	3000	110	3.1	0.38	9.65	41	HH



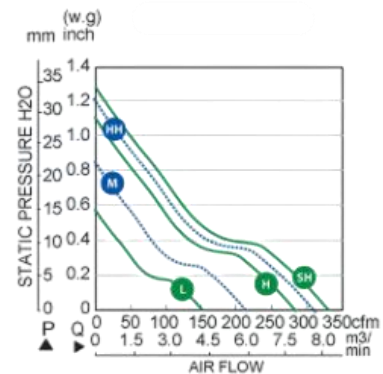
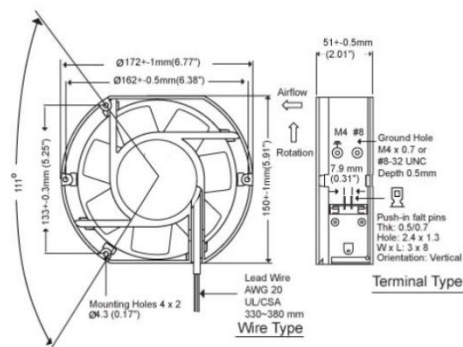
172x150x51

DC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Brushless DC Motor, auto cutoff, auto restart
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55,56 optional request
Frame:	Aluminum die cast, black color(AP)
Impeller:	7 blades, all metal
Bearing:	Two ball bearings
Rotation:	CW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	920 g (2.02 Lbs)
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional:PWM, S/C NTC thermister
Signal Output:	Optional:R/D alarm output, tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 50K hours at 50C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	8~14	64.8	5.4	4300	320	9.1	1.1	27.94	64	SH
12	8~14	50.4	4.2	4100	300	8.5	1.05	26.67	61	HH
12	8~14	23	1.9	3700	275	7.8	0.95	24.13	55	H
12	9~14	13.2	1.1	2800	210	5.9	0.82	20.83	46	M
12	9~15	5.5	0.45	2000	150	4.2	0.58	14.73	37	L
24	15~27.6	63.6	2.65	4350	325	9.2	1.25	31.75	65	SH
24	15~27.6	50.4	2.1	4200	310	8.8	1.2	30.48	63	HH
24	15~27.6	24	0.97	3850	295	8.4	1.1	27.94	58	H
24	17~28	13	0.52	2800	210	5.9	0.82	20.83	45	M
24	17~28	5	0.20	2000	150	4.2	0.58	14.73	37	L
48	22~55	62.4	1.3	4350	325	9.2	1.25	31.75	65	SH
48	22~55	49.4	1.3	4200	310	8.8	1.2	30.48	63	HH
48	22~55	23.5	0.48	3850	295	8.4	1.1	27.94	58	H
48	24~58	14.5	0.30	2800	210	5.9	0.82	20.83	45	M
48	24~60	5.8	0.12	2000	150	4.2	0.58	14.73	37	L



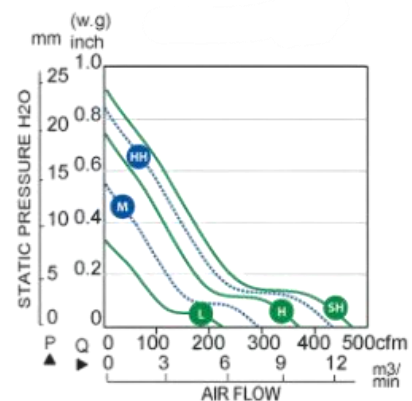
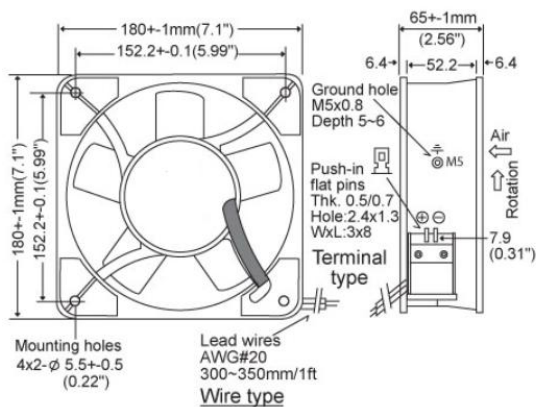
180x180x65

DC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Brushless DC Motor, auto cutoff, auto restart
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55,56 optional request
Frame:	Aluminum die cast, black color(AP)
Impeller:	5 blades, all metal
Bearing:	Two ball bearings
Rotation:	CW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	1,400g (3.08 Lbs)
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request
Signal Output:	Optional:R/D alarm output, tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 50K hours at 50C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	9~13.8	64.8	5.4	3700	475	13.5	0.87	22.1	64	SH
12	9~13.8	50.4	4.2	3400	440	12.5	0.82	20.83	62	HH
12	9~13.8	23	1.9	2800	360	10.2	0.72	18.29	58	H
12	10~14	13.2	1.1	2200	295	8.4	0.55	13.97	49	M
12	10~14	5.5	0.45	1600	220	6.2	0.38	9.65	38	L
24	12~27.6	63.6	2.65	3800	480	13.6	0.88	22.35	66	SH
24	12~27.6	50.4	2.1	3500	445	12.6	0.82	20.83	62	HH
24	12~27.6	24	0.97	2800	360	10.2	0.72	18.29	58	H
24	12~28	13	0.52	2200	295	8.4	0.55	13.97	49	M
24	15~28	5	0.20	1600	220	6.2	0.38	9.65	38	L
48	24~53	62.4	1.3	3800	480	13.6	0.88	22.35	66	SH
48	24~53	49.4	1.03	3500	445	12.6	0.82	20.83	62	HH
48	24~55	23.5	0.48	2800	360	10.2	0.72	18.29	58	H
48	28~58	14.5	0.30	2200	295	8.4	0.55	13.97	49	M
48	30~60	5.8	0.12	1600	220	6.2	0.38	Eyl.65	38	L



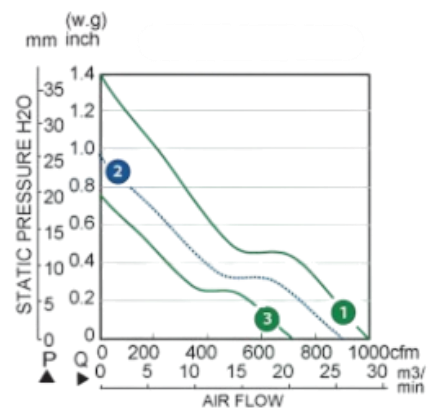
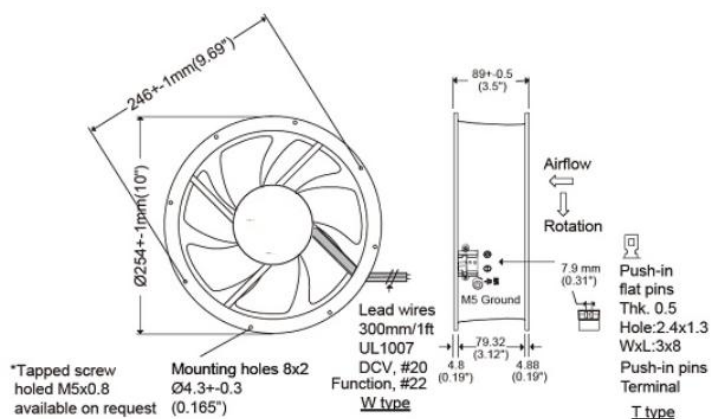
254x89

DC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Brushless DC Motor, auto cutoff, auto restart
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55,56 optional request
Frame:	Aluminum die cast, black color(AP)
Impeller:	7 blades, all metal
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	2,300g (5.07Lbs)
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional: PWM, S/C NTC thermister, S/V (0~10V) speed control
Signal Output:	Optional: RD alarm output, FG tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 50K hours at 50C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	10~13.2	64.8(~78)	5.4(~6.5)	2800	890	25.2	1.1	27.94	70	1
12	10~13.8	50.4	4.2	2500	830	23.5	1.08	27.43	65	2
12	10~13.8	22.8	1.9	2000	680	19.3	0.88	22.35	58	3
24	18~26	63.6(~86.4)	2.65(~3.6)	3300	1030	29.2	1.43	36.32	73	1
24	18~26.4	50.4	2.1	2500	830	23.5	1.08	27.43	65	2
24	18~27.6	36	1.5	2000	680	19.3	0.88	22.35	58	3
48	24~53	62.4(~86.4)	1.3(~1.8)	3300	1030	29.2	1.43	36.32	73	1
48	24~55	62.4	1.3	2500	830	23.5	1.08	27.43	65	2
48	24~58	48	1	2000	680	19.3	0.88	22.35	58	3



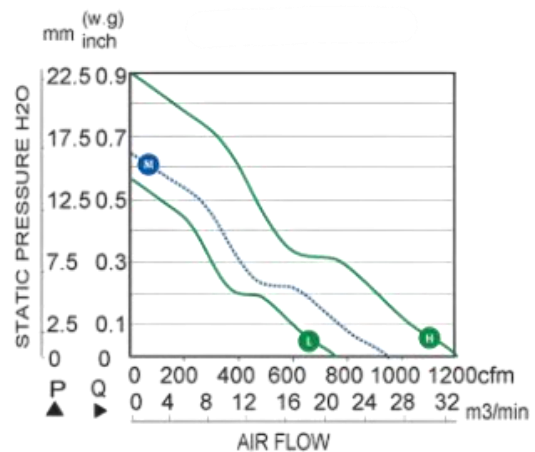
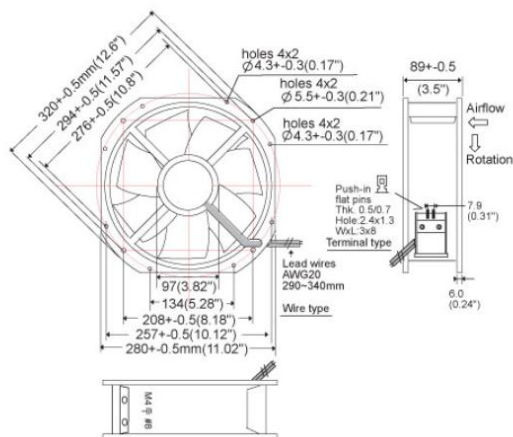
280x280x89

DC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Brushless DC Motor, auto cutoff, auto restart
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55,56 optional request
Frame:	Aluminum die cast, natural color(AN)
Impeller:	7 blades, all metal
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	2,950g (6.5 Lbs)
Dielectric Strength:	500 VAC/min. Max leakage 0.5mA
Speed Control:	Optional:PWM, S/C NTC thermister, S/V (0~10V) speed control on request
Signal Output:	Optional:R/D alarm output, tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 50K hours at 50C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	9~13.5	90	7.5	2100	1011	28.6	0.63	16	55	M
12	9~13.5	50	4.2	1800	867	24.6	0.55	13.97	48	L
24	18~27.6	104.4	4.35	2450	1180	33.4	0.90	22.86	72	H
24	18~27.6	58.8	2.45	2200	1060	30	0.65	16.51	56	M
24	18~27.6	26.4(~52.8)	1.1(~2.2)	1800	867	24.6	0.55	13.97	48	L
48	24~55	105.6	2.2	2450	1180	33.4	0.90	22.86	72	H
48	24~55	57.6	1.2	2200	1060	30	0.65	16.51	56	M
48	24~55	26.4	0.55	1500	722	20.4	0.50	12.7	48	L

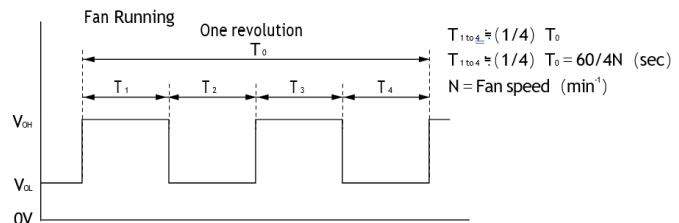
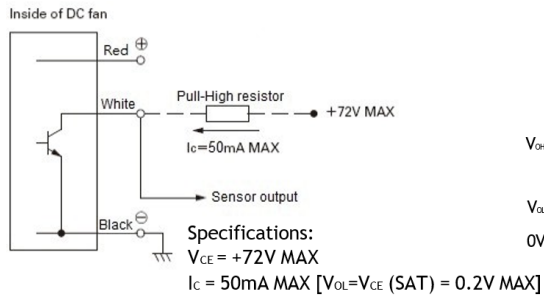


DC FAN SPECIAL FUNCTIONS

FG:TACHOMETER OUTPUT TYPE

Output Circuit: Open Collector

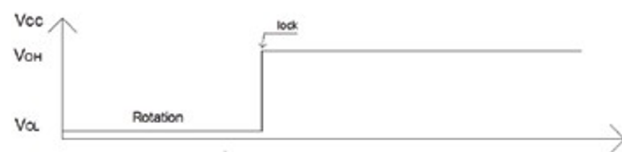
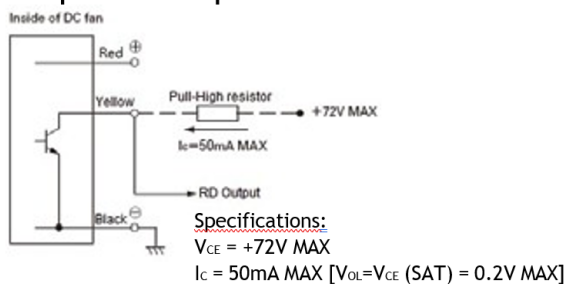
Output Waveform: (Need pull-up resistor)



RD: LOCKED ROTOR ALARM SIGNAL

Output Circuit: Open Collector

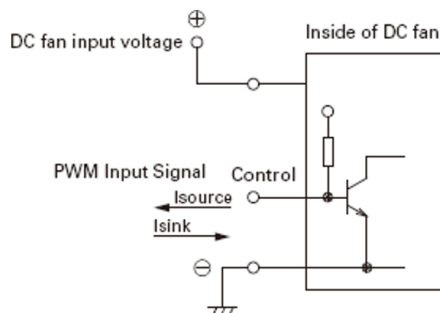
Output Waveform: (Need pull-up resistor)



PWM SPEED CONTROL

Output Circuit:

Output Waveform:

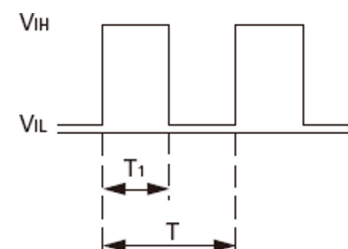


Method: PWM insensitive to
signal amplitude

Signal Voltage Range:
High signal (V_{IH}): 2.8 ~ 48 VDC
Low Signal (V_{IL}): -0.8 ~ 0.8 VDC

Frequency (1/T): 200 ~ 100KHz

Duty cycle mapping speed (T_1/T):
≤5%: 0 rpm
5%~100%: Linear ramp
100% or Open: Full speed



AC AXIAL FANS



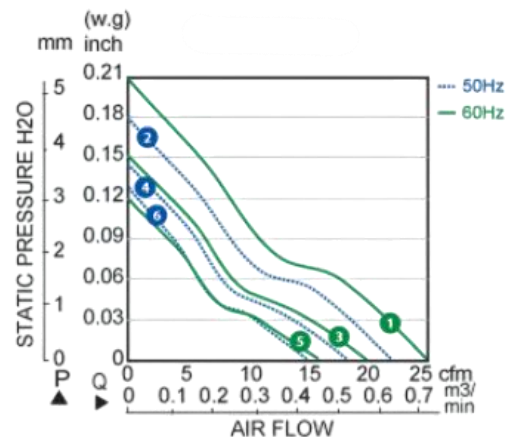
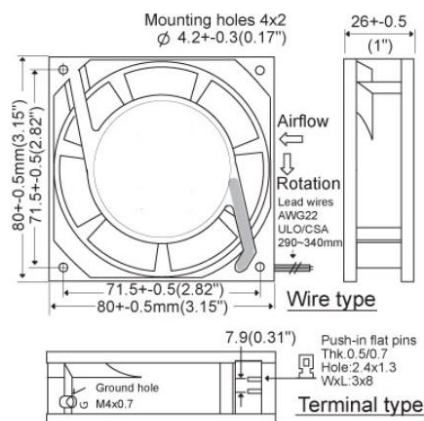
80x80x25

AC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Shaded pole induction, inner rotor, 1-phase
Burnout Protection:	Impedance protected
IP Protection:	IP44
Frame:	Aluminum die cast, black(S825AP)
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings. or sleeve bearing
Rotation:	CCW seen on rotor
Connection:	Wire leads, terminal flat pin
Weight:	260 g (0.57 Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	
Operating Temp:	Non-condensing ball bearing (-20C~+70C), sleeve (-10~+40C)
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	Ball bearing 80K hours at 45C, 50K hours at 60C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	11/9 (~14)	2500/3000	22/25	0.6/0.7	0.18/0.21	4.57/5.33	28	2/1
115	100~120	50/60	8/6	2100/2500	18/22	0.5/0.6	0.14/0.15	3.56/3.81	24	4/3
115	100~120	50/60	6/4	1900/2100	15/17	0.4/0.5	0.11 /0.12	2.79/3.05	19	6/5
230	200~240	50/60	11/9 (~14)	2500/3000	22/25	0.6/0.7	0.18/0.21	4.57/5.33	28	2/1
230	200~240	50/60	8/6	2300/2700	18/20	0.5/0.6	0.14/0.15	3.56/3.81	24	4/3
230	200~240	50/60	6/4	2100/2400	15/17	0.4/0.5	0.11 /0.12	2.79/3.05	19	6/5
115	100~120	50/60	11/9	2500/3000	22/25	0.6/0.7	0.18/0.21	4.57/5.33	28	2/1
230	200~240									
115	100~120	50/60	6/4	1900/2100	15/17	0.4/0.5	0.11/0.12	2.79/3.05	19	2/1
230	200~240									



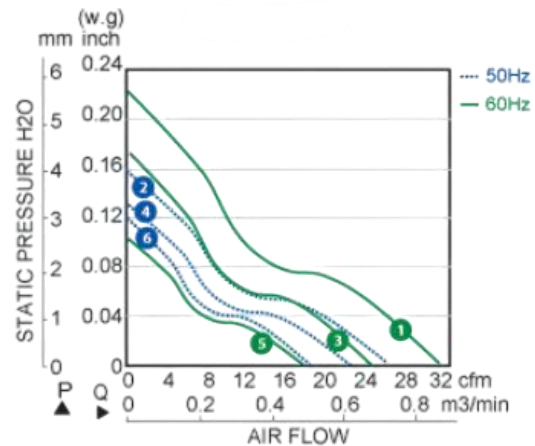
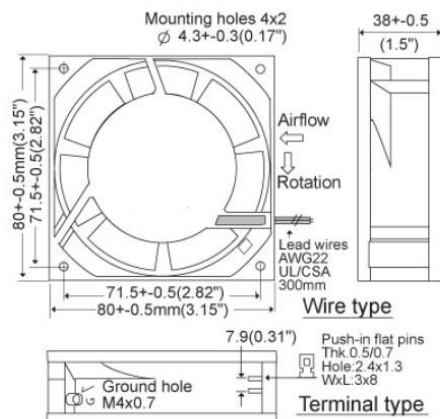
80x80x38

AC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Shaded pole induction, inner rotor, 1-phase
Burnout Protection:	Impedance protected
IP Protection:	IP44
Frame:	Aluminum die cast, black(S80AP)
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings. or sleeve bearing
Rotation:	CCW seen on rotor
Connection:	Wire leads, terminal flat pin
Weight:	400 g (0.82 Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	
Operating Temp:	Non-condensing ball bearing (-20C~+70C), sleeve (-10~+40C)
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	Ball bearing 80K hours at 45C, 50K hours at 60C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	14/12	2700/3250	26/31	0.7/0.9	0.16/0.22	4.06/5.59	29	2/1
115	100~120	50/60	11/9	2300/2550	22/24	0.6/0.7	0.13/0.17	3.3/4.32	22	4/3
115	100~120	50/60	7/5	1950/1550	19/15	0.5/0.4	0.12/0.09	3.05/2.29	18	6/5
230	200~240	50/60	14/12	2700/3250	26/31	0.7/0.9	0.16/0.22	4.06/5.59	29	2/1
230	200~240	50/60	11/9	2300/2550	22/24	0.6/0.7	0.13/0.17	3.3/4.32	22	4/3
230	200~240	50/60	7/5	1800/1700	18/17	0.5/0.5	0.12/0.10	3.05/2.54	18	6/5
115	100~120	50/60	14/12	2700/3250	26/31	0.7/0.9	0.16/0.22	4.06/5.59	29	2/1
230	200~240									
115	100~120	50/60	11/9	2300/2550	22/24	0.6/0.7	0.13/0.17	3.3/4.32	22	4/3
230	200~240									



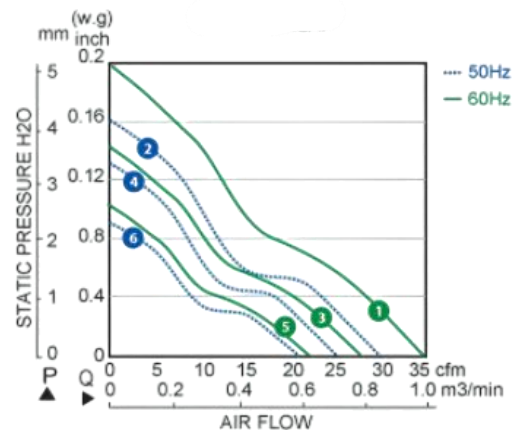
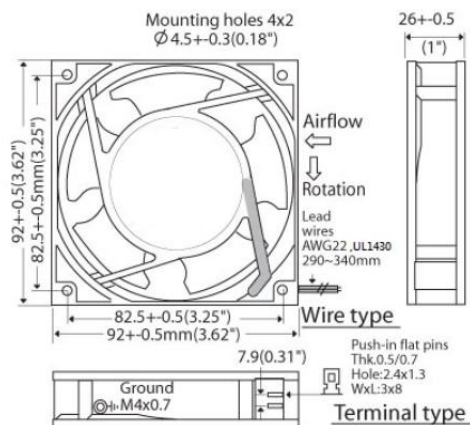
92x92x25

AC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Shaded pole induction, inner rotor, 1-phase
Burnout Protection:	Impedance protected
IP Protection:	IP44
Frame:	Aluminum die cast, black(S92AP)
Impeller:	5 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings. or sleeve bearing
Rotation:	CCW seen on rotor
Connection:	Wire leads, terminal flat pin
Weight:	290 g (0.64 Lbs)
Dielectric Strength:	Over 1 min.at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	
Operating Temp:	Non-condensing ball bearing (-20C~+70C), sleeve (-10~+40C)
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	Ball bearing 80K hours at 45C, 50K hours at 60C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	15/13	2500/3000	30/35	0.8/1	0.16/0.20	4.06/5.08	30	2/1
115	100~120	50/60	12/10	2100/2300	25/27	0.7/0.8	0.13/0.14	3.3/3.56	22	4/3
115	100~120	50/60	8/6	1800/1900	21/22	0.6/0.6	0.09/0.10	2.29/2.54	19	6/5
230	200~240	50/60	15/13	2500/3000	30/35	0.8/1	0.16/0.20	4.06/5.08	30	2/1
230	200~240	50/60	12/10	2100/2300	25/27	0.7/0.8	0.13/0.14	3.3/3.56	22	4/3
230	200~240	50/60	8/6	1800/1900	21/22	0.6/0.6	0.09/0.10	2.29/2.54	19	6/5
24	24~28	50/60	15/13	2500/3000	30/35	0.8/1	0.16/0.20	4.06/5.08	30	2/1
24	24~28	50/60	12/10	2100/2300	25/27	0.7/0.8	0.13/0.14	3.3/3.56	22	4/3
115	100~120	50/60	15/13	2500/3000	30/35	0.8/1	0.16/0.20	4.06/5.08	30	2/1
230	200~240									



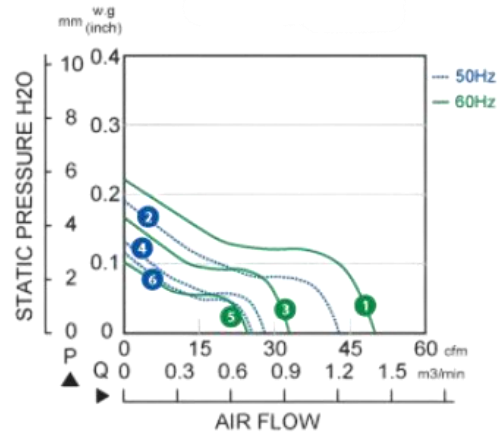
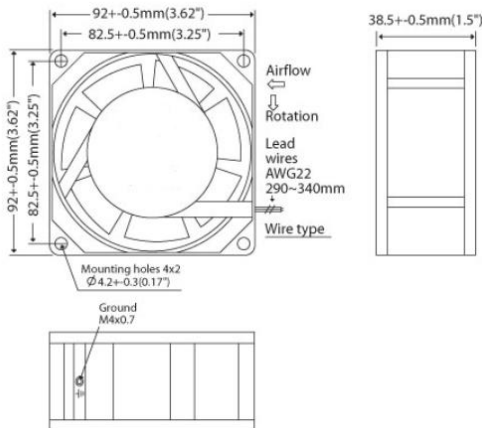
92x92x38

AC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Shaded pole induction, inner rotor, 1-phase
Burnout Protection:	Impedance protected
IP Protection:	IP44
Frame:	Aluminum die cast, black(S938AP(MS))
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings. or sleeve bearing
Rotation:	CCW seen on rotor
Connection:	Wire leads , terminal flat pin
Weight:	350 g (0.77 Lbs)
Dielectric Strength:	Over 1 min.at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	
Operating Temp:	Non-condensing ball bearing (-20C~+70C), sleeve (-10~+40C)
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	Ball bearing 90K hours at 45C, 50K hours at 60C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	11/9	2400/2900	43/50	1.2/1.4	0.18/0.22	4.57/5.59	32/36	2/1
115	100~120	50/60	7/5	2200/2400	28/32	0.8/0.9	0.14/0.17	3.56/4.32	27/31	4/3
115	100~120	50/60	4/3	1800/1600	24/23	0.7/0.7	0.12/0.11	3.05/2.79	20/18	6/5
230	200~240	50/60	11/9	2400/2900	43/50	1.2/1.4	0.18/0.22	4.57/5.59	32/36	2/1
230	200~240	50/60	7/5	2200/2400	28/32	0.8/0.9	0.14/0.17	3.56/4.32	27/31	4/3
230	200~240	50/60	4/3	1800/1600	24/23	0.7/0.7	0.12/0.11	3.05/2.79	20/18	6/5



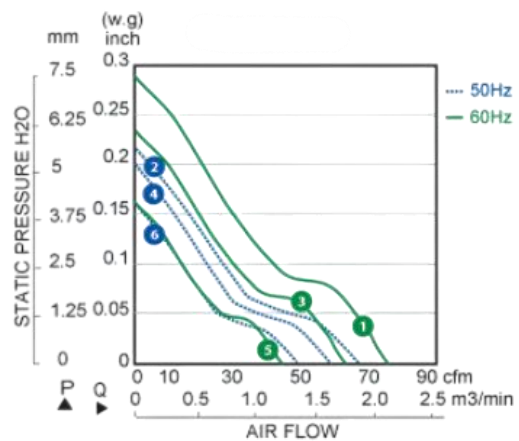
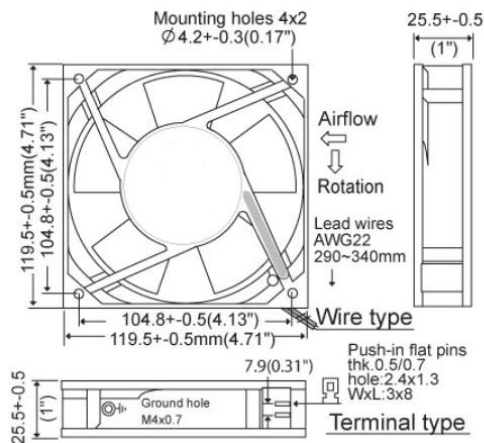
120x120x25

AC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Shaded pole induction, inner rotor, 1-phase
Burnout Protection:	Impedance protected
IP Protection:	IP44
Frame:	Aluminum die cast, black(S125AP)
Impeller:	5 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings. or sleeve bearing
Rotation:	CCW seen on rotor
Connection:	Wire leads, terminal flat pin
Weight:	370 g (0.82 Lbs)
Dielectric Strength:	Over 1 min.at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	
Operating Temp:	Non-condensing ball bearing (-20C~+70C), sleeve (-10~+40C)
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	Ball bearing 80K hours at 45C, 45K hours at 60C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	15/13	2500/2950	60/75	1.7/2.1	0.24/0.29	6.1/7.37	37	2/1
115	100~120	50/60	12/10	2300/2400	55/62	1.6/1.8	0.21/0.23	5.33/5.84	30	4/3
115	100~120	50/60	8/6	2000/1800	50/47	1.4/1.3	0.19/0.17	4.83/4.32	25	6/5
230	200~240	50/60	15/13	2500/2950	60/75	1.7/2.1	0.24/0.29	6.1/7.37	37	2/1
230	200~240	50/60	12/10	2300/2400	55/62	1.6/1.8	0.21/0.23	5.33/5.84	30	4/3
230	200~240	50/60	8/6	2000/1800	50/47	1.4/1.3	0.19/0.17	4.83/4.32	25	6/5
115	100~120	50/60	15/13 (~18)	2450/2950	58/75	1.6/2.1	0.24/0.29	6.1/7.37	37	2/1
230	200~240									



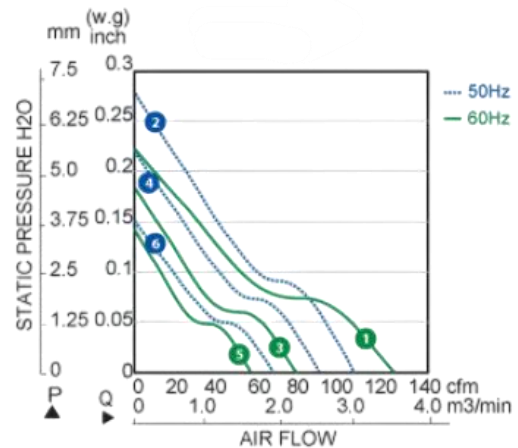
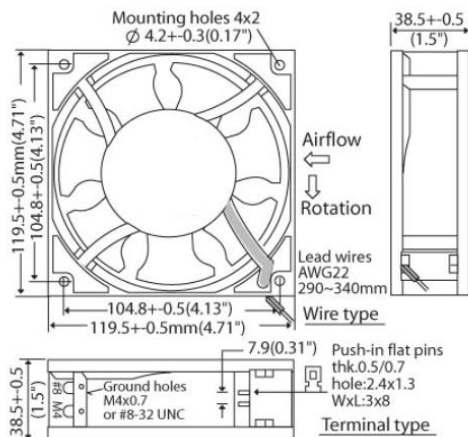
120x120x38

AC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Shaded pole induction, inner rotor, 1-phase
Burnout Protection:	Impedance protected
IP Protection:	IP44
Frame:	Aluminum die cast, black(S119AP)
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings. or sleeve bearing
Rotation:	CCW seen on rotor
Connection:	Wire leads, terminal flat pin
Weight:	600g (1.3 Lbs)
Dielectric Strength:	Over 1 min.at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	
Operating Temp:	Non-condensing ball bearing (-20C~+70C), sleeve (-10~+40C)
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	Ball bearing 80K hours at 45C, 40K hours at 60C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	16/14 (~22)	2600/3050	106/125	3.03/2005	0.30/0.32	7.62/8.13	45	2/1
115	100~120	50/60	12/10	2200/2000	88/80	2.5/2.3	0.22 /0.19	5.59/4.83	37	4/3
115	100~120	50/60	9/7	1900/1400	78/57	2.2/1.6	0.19/0.13	4.83/3.3	27	6/5
230	200~240	50/60	16/14 (~22)	2600/3050	106/125	3.03/2005	0.30/0.32	7.62/8.13	45	2/1
230	200~240	50/60	12/10	2200/1900	88/78	2.5/2.2	0.22 /0.18	5.59/4.57	37	4/3
230	200~240	50/60	9/7	2000/1500	80/60	2.3/1.7	0.20/0.15	5.08/3.81	27	6/5
115	100~120	50/60	16/14 (~22)	2650/3050	106/125	3.03/2005	0.30/0.32	7.62/8.13	45	2/1
230	200~240									
380	380~420	50/60	16/14 (~22)	2500/2600	103/108	2.9/3.1	0.28/0.29	7.11/7.37	45	2/1
440	440~480	50/60	16/14 (~22)	2600/3000	106/123	3.03/2005	0.3/0.32	7.62/8.13	45	2/1



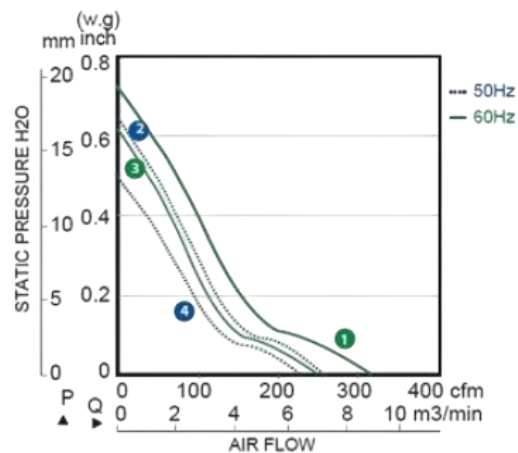
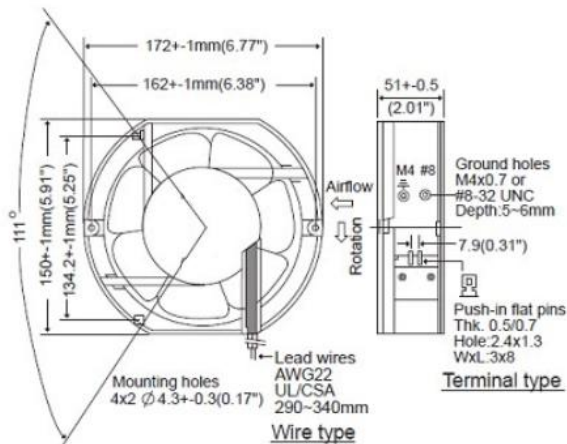
172x150x51

AC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Capacitor induction, Inner rotor, 1-phase
Burnout Protection:	Thermally protected, auto reset
IP Protection:	IP44
Frame:	Aluminum die cast, black color
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire leads, terminal flat pin
Weight:	1100 g (2.42 Lbs)
Dielectric Strength:	Over 1 min.at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional:alarm R/D, tachometer F/G
Operating Temp:	Ambient non-condensing -20~+70C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 100K hours at 35C, 50K hours at 60C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	59/56	2800/3100	282/312	8.08/2008	0.65/0.75	16.51/19.05	60/63	2/1
115	100~120	50/60	22/20	2400/2700	242/272	6.9/7.7	0.53/0.62	13.46/15.75	53/55	4/3
230	200~240	50/60	59/56	2800/3100	282/312	8.08/2008	0.65/0.75	16.51/19.05	60/63	2/1
230	200~240	50/60	22/20	2400/2700	242/272	6.9/7.7	0.53/0.62	13.46/15.75	53/55	4/3
380	380~420	50/60	59/56	2800/3100	282/312	8.08/2008	0.64/0.73	16.26/18.54	60/63	2/1
440	440~480	50/60	59/56	2800/3100	282/312	8.08/2008	0.64/0.73	16.26/18.54	60/63	2/1
115	100~120	50/60	59/56	2800/3100	282/312	8.08/2008	0.65/0.75	16.51/19.05	60/63	2/1
230	200~240	50/60	59/56	2800/3100	282/312	8.08/2008	0.65/0.75	16.51/19.05	60/63	2/1



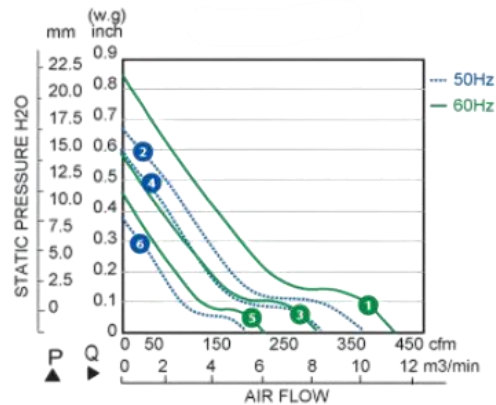
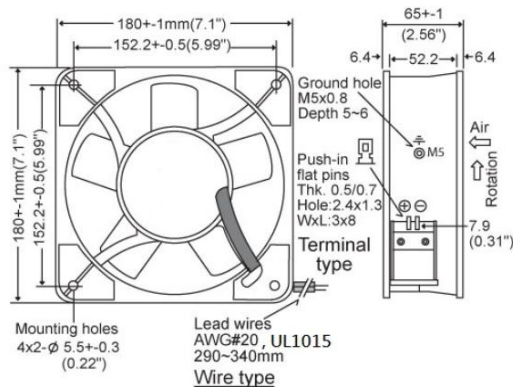
180x180x65

AC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Capacitor induction, inner rotor, 1-phase
Burnout Protection:	Thermally protected, auto cut-off, auto reset
IP Protection:	IP44
Frame:	Aluminum die cast, black(S180FAP)
Impeller:	5 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CW seen on rotor
Connection:	Wire leads, terminal flat pin
Weight:	1800 g (4.0 Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional:alarm R/D, tachometer F/G
Operating Temp:	Ambient non-condensing -20~+70C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 90K hours at 35C, 40K hours at 60C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	60/70	2800/3200	355/405	10.1/11.5	0.66/0.83	16.76/21.08	60	2/1
115	100~120	50/60	40/50	2400/2350	310/300	8.8/8.5	0.60/0.58	15.24/14.73	47	4/3
115	100~120	50/60	60/70	2800/3200	355/405	10.1/11.5	0.66/0.83	16.76/21.08	60	2/1
			40/50	2400/2350	310/300	8.8/8.5	0.60/0.58	15.24/14.73	47	4/3
115	100~120	50/60	40/50	2400/2350	310/300	8.8/8.5	0.60/0.58	15.24/14.73	47	4/3
			26/38	2000/1650	260/210	7.4/5.9	0.38/0.43	9.65/10.92	40	6/5
230	200~240	50/60	60/70	2800/3200	355/405	10.1/11.5	0.66/0.83	16.76/21.08	60	2/1
230	200~240	50/60	40/50	2400/2200	310/280	8.8/7.9	0.60/0.56	15.24/14.22	47	4/3
230	200~240	50/60	60/70	2800/3200	355/405	10.1/11.5	0.66/0.83	16.76/21.08	60	2/1
			40/50	2400/2200	310/290	8.8/8.2	0.60/0.58	15.24/14.73	47	4/3
230	200~240	50/60	40/50	2400/2350	310/300	8.8/8.5	0.60/0.58	15.24/14.73	47	4/3
			26/38	2000/1650	260/210	7.4/5.9	0.38/0.43	9.65/10.92	40	6/5
380	380~420	50/60	60/70	2750/3150	350/400	9.9/11.3	0.64/0.82	16.26/20.83	60	2/1
115	100~120	50/60	60/70	2750/3100	350/392	9.9/11.1	0.64/0.82	16.26/20.83	60	2/1
230	200~240									



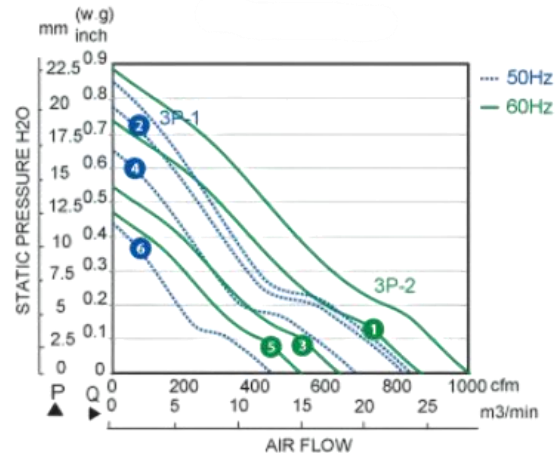
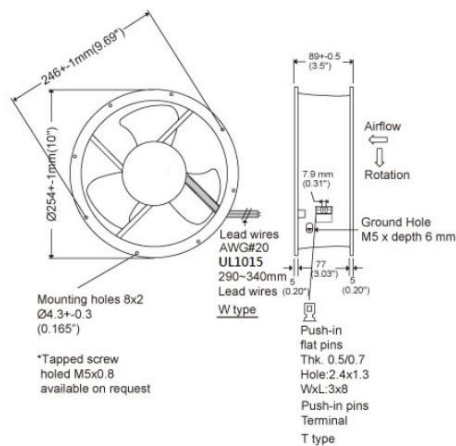
254x89

AC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Capacitor induction, inner rotor, 1-phase or 3-phase
Burnout Protection:	Thermally protected, auto cut-off, auto reset
IP Protection:	IP44
Frame:	Aluminum die cast, black color coating
Impeller:	3 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire leads-WB, or push-in terminal flat pins-TB
Weight:	2,460 g (5.4 Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional: alarm R/D, tachometer F/G
Operating Temp:	Ambient non-condensing -20~+65 °C
Storage Temp:	-40 °C~+100 °C(at 65%RH)
Life Expectancy:	L10 80K hours at 35 °C, 30K hours at 60 °C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	60/75 (~110)	2600/2700	820/860	23.2/24.4	0.78/0.73	19.81/18.54	65	2/1
115	100~120	50/60	45/55 (~80)	2200/2000	690/640	19.5/18.1	0.65/0.54	16.51/13.72	51	4/3
115	100~120	50/60	23/35	1450/1680	450/535	12.7/15.1	0.43/0.47	10.92/11.94	45	6/5
230	200~240	50/60	60/75 (~110)	2600/2700	820/860	23.2/24.4	0.78/0.73	19.81/18.54	65	2/1
230	200~240	50/60	45/55 (~80)	2200/2000	690/640	19.5/18.1	0.65/0.54	16.51/13.72	51	4/3
230	200~240	50/60	23/35	1450/1680	450/535	12.7/15.1	0.43/0.47	10.92/11.94	45	6/5
380	380~420	50/60	75/105	2600/2650	820/850	23.2/24.1	0.78/0.73	19.81/18.54	65	2/1
440	440~480	50/60	75/105	2600/2650	820/850	23.2/24.1	0.78/0.73	19.81/18.54	65	2/1



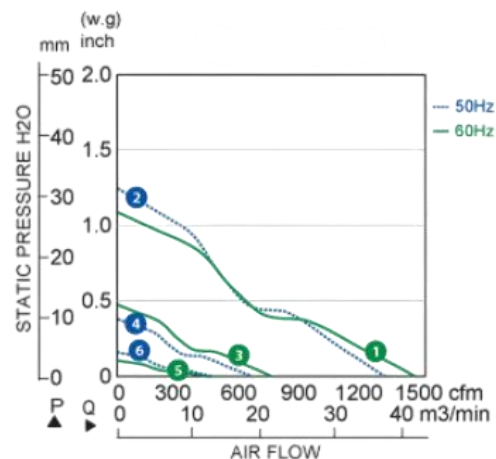
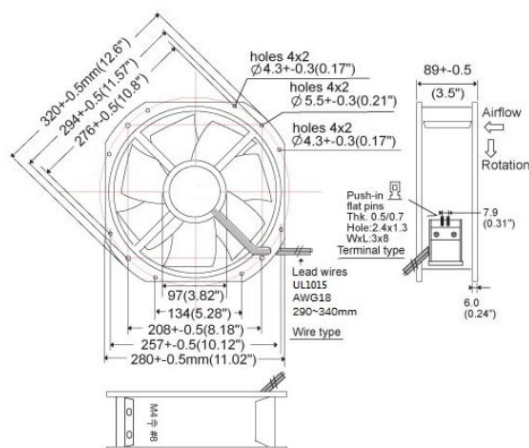
280x280x89

AC AXIAL FANS WITH PLASTIC IMPELLER

Motor Type:	Capacitor induction, inner rotor, 1-phase
Burnout Protection:	Thermal protector, auto cut-off, auto reset
IP Protection:	IP44
Frame:	Aluminum die cast, black color
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire leads, or push-in terminal flat pins
Weight:	3,950g (8.7 Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional:alarm R/D, tachometer F/G
Operating Temp:	Ambient non-condensing -20~+70C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 90K hours at 35C, 50K hours at 60C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	181/286	2800/3200	1300/1450	36.8/41.1	1.25/1.1	31.75/27.94	75	2/1
115	100~120	50/60	58/55	1500/1700	650/750	18.4/21.2	0.38/0.49	9.65/12.45	48	4/3
115	100~120	50/60	32/37	1100/1000	465/450	13.2/12.7	0.16/0.11	4.06/2.79	35	6/5
230	200~240	50/60	181/286	2800/3200	1300/1450	36.8/41.1	1.25/1.1	31.75/27.94	75	2/1
230	200~240	50/60	58/55	1500/1700	650/750	18.4/21.2	0.38/0.49	9.65/12.45	48	4/3
230	200~240	50/60	32/37	1100/1000	465/450	13.2/12.7	0.16/0.11	4.06/2.79	35	6/5
380	380~420	50/60	90/140	2750/3000	1280/1360	36.2/38.5	1.02.2001	30.48/25.4	75	2/1
440	440~480	50/60	90/140	2750/3000	1280/1360	36.2/38.5	1.02.2001	30.48/25.4	75	2/1
115	100~120	50/60	181/286	2800/3200	1300/1450	36.8/41.1	1.25/1.1	31.75/27.94	75	2/1
230	200~240									



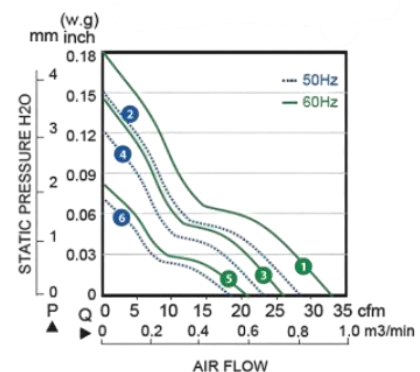
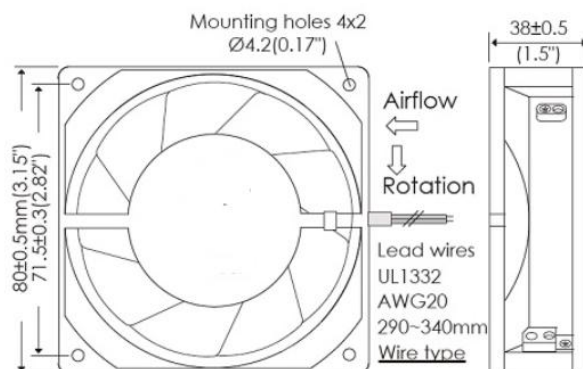
80x80x38

AC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Shaded pole induction, 1-phase, outer rotor
Burnout Protection:	Impedance protected
IP Protection:	IP55
Frame:	Aluminum die cast, black color(AP)
Impeller:	9 blades, all metal
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or Terminal flat pin connecting
Weight:	415g
Dielectric Strength:	Over 1 min, at 1,500VAC, 0.5mA, 50/60Hz
Insulation Resistance:	Over 100MΩ at DC 500V
Signal Output:	Optional: RD Alarm output, FG Tachometer output
Operating Temp:	-30C~+80C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 50K hours at 55C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2/1
115	100~120	50/60	12/10	2200/2500	23/26	0.7/0.7	0.12/0.14	3.05/3.56	30	4/3
230	200~240	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2/1
230	200~240	50/60	12/10	2200/2500	23/26	0.7/0.7	0.12/0.14	3.05/3.56	30	4/3
115	100~120	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2/1
230	200~240									
12	12~14	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2/1
24	24~28	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2/1
28	28~34	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2/1
48	48~58	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2/1
380	380~420	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2/1
440	440~480	50/60	15/13	2750/3200	28/33	0.8/0.9	0.15/0.18	3.81/4.57	35	2/1



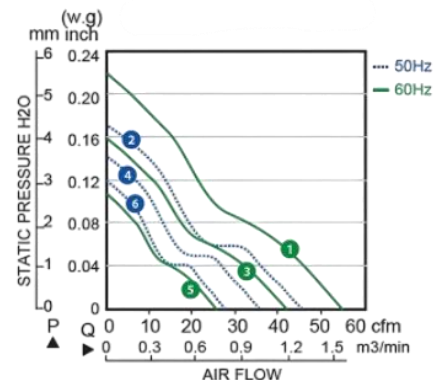
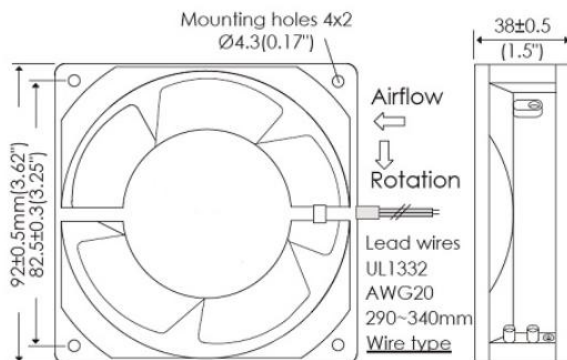
92x92x38

AC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Shaded pole induction, 1-phase, outer rotor
Burnout Protection:	Impedance protected
IP Protection:	IP55
Frame:	Aluminum die cast, black color(AP)
Impeller:	5 blades, all metal
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or Terminal flat pin connecting
Weight:	475g
Dielectric Strength:	Over 1 min, at 1,500VAC, 0.5mA, 50/60Hz
Insulation Resistance:	Over 100M Ω at DC 500V
Signal Output:	Optional: RD Alarm output, FG Tachometer output
Operating Temp:	-30C~+80C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 50K hours at 55C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	17/15	2800/3300	47/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2/1
115	100~120	50/60	13/11	2600/2800	43/47	1.2/1.3	0.14/0.16	3.56/4.06	33	4/3
230	200~240	50/60	17/15	2800/3300	47/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2/1
230	200~240	50/60	13/11	2600/2800	43/47	1.2/1.3	0.14/0.16	3.56/4.06	33	4/3
115	100~120	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2/1
230	200~240									
12	12~14	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2/1
24	24~28	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2/1
28	28~34	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2/1
48	48~58	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2/1
380	380~420	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2/1
440	440~480	50/60	17/15	2700/3150	45/55	1.3/1.6	0.17/0.22	4.32/5.59	40	2/1



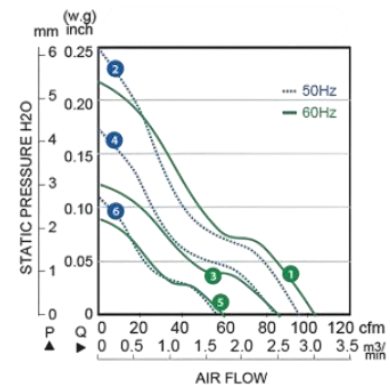
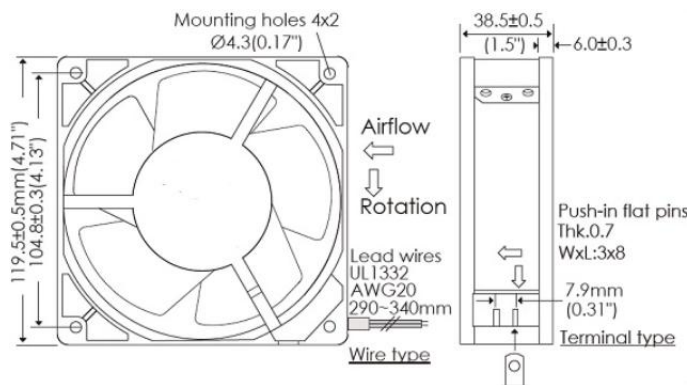
120x120x38

AC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Shaded pole induction, outer rotor, 1-phase
Burnout Protection:	Impedance protected
IP Protection:	IP55
Frame:	Aluminum die cast, black color(AP)
Impeller:	5 blades, all metal
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor, air direction V, exhaust over struts
Connection:	Wire lead or terminal flat pin connecting
Weight:	566g
Dielectric Strength:	Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional: Tachometer output F/G
Operating Temp:	Ambient non-condensing -30~+80C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 50K hours at 55C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	21/20	2650/3100	90/105	2.05/2.03	0.25/0.22	6.35/5.59	48	2/1
115	100~120	50/60	14/13	2250/2500	75/83	2.1/2.4	0.17/0.12	4.32/3.05	43	4/3
115	100~120	50/60	12/9	1800/2100	65/69	1.08/2.02	0.11/0.09	2.79/2.29	32	6/5
115	100~120	50/60	12/9	1600/1700	53/60	1.5/1.7	0.10/0.08	2.54/2.03	30	8/7
230	200~240	50/60	21/9	2650/3100	90/105	2.05/2.03	0.25/0.22	6.35/5.59	48	2/1
230	200~240	50/60	14/13	2250/2500	75/83	2.1/2.4	0.17/0.12	4.32/3.05	43	4/3
230	200~240	50/60	12/9	1800/2100	65/69	1.08/2.02	0.11/0.09	2.79/2.29	32	6/5
230	200~240	50/60	12/9	1600/1700	53/60	1.5/1.7	0.10/0.08	2.54/2.03	30	8/7



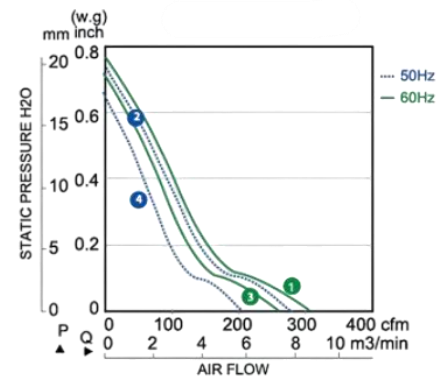
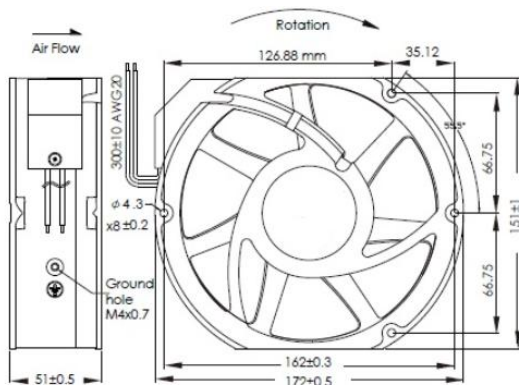
172x150x51

AC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Capacitor induction, inner rotor, 1-phase
Burnout Protection:	Thermally protected
IP Protection:	IP55
Frame:	Aluminum die-cast, black color treatment
Impeller:	All metal fan blades design
Bearing:	Two high precision permanently lubricated ball bearings
Rotation:	CCW looking at rotor, air inlet side of housing
Connection:	Wire leads or push-in terminal pin connecting for option
Weight:	800 g (1.32 Lbs)
Dielectric Strength:	Over 1 minute at 1,500 VAC, 0.5mA, 50/60 Hz
Insulation Resistance:	Over 100 Mega Ohm at DC 500V
Signal Output:	Optional: R/D alarm output, tachometer output F/G
Operating Temp:	Ambient non-condensing -30C~+75C
Storage Temp:	-40~+100C (at 65%RH)
Life Expectancy:	MTBF Formula L10 indoor life test 120K hours at 35C, 45K hours at 60C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	47/42	2850/3300	280/310	7.9/8.8	0.69/0.74	17.53/18.8	61	2/1
115	100~120	50/60	35/32	2400/2500	230/240	6.5/6.8	0.63/0.65	16/16.51	52	4/3
230	200~240	50/60	47/42	2850/3300	280/310	7.9/8.8	0.69/0.74	17.53/18.8	61	2/1
230	200~240	50/60	35/32	2400/2500	230/240	6.5/6.8	0.63/0.65	16/16.51	52	4/3
115	100~120	50/60	47/42	2850/3300	280/310	7.9/8.8	0.69/0.74	17.53/18.8	61	2/1
230	200~240									
115	100~120	50/60	35/32	2400/2500	230/240	6.5/6.8	0.63/0.65	16/16.51	52	4/3
230	200~240									
380	380~420	50/60	47/42	2850/3300	280/310	7.9/8.8	0.69/0.74	17.53/18.8	61	2/1
440	440~480	50/60	47/42	2850/3300	280/310	7.9/8.8	0.69/0.74	17.53/18.8	61	2/1



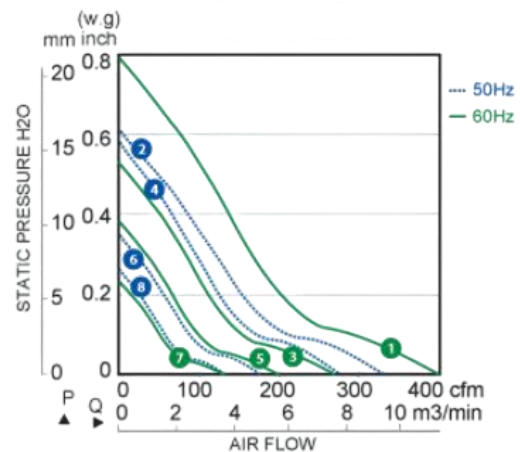
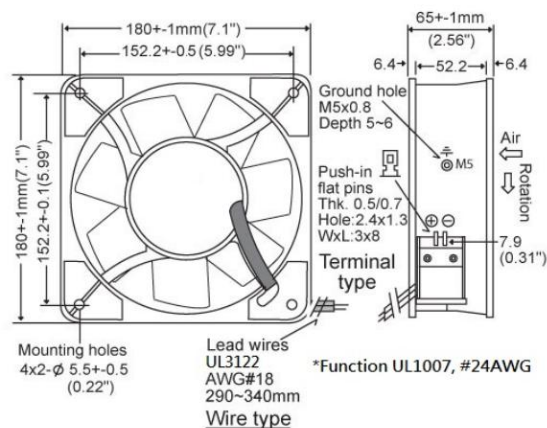
180x180x65

AC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Capacitor induction, outer rotor, 1-phase
Burnout Protection:	Thermally protected
IP Protection:	IP56, (IP68 Option)
Frame:	Aluminum die cast, natural color(AN)
Impeller:	7 blades, all metal
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	1800 g (3.96 Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 0.5mA, 50/60Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional:R/D alarm output, tachometer output F/G
Operating Temp:	Ambient non-condensing -30~+80C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 50K hours at 55C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
100	100~120	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
115	100~120	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
115	100~120	50/60	55/65	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4/3
115	100~120	50/60	20/30	1500/1600	185/200	5.2/5.7	0.35/0.38	8.89/9.65	42	6/5
115	100~120	50/60	18/25	1100/1000	130/125	3.7/3.5	0.25/0.23	6.35/5.84	35	8/7
115	100~120	50/60	3/4	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
			11/13	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4/3
200	200~240	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
230	200~240	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
230	200~240	50/60	55/65	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4/3
230	200~240	50/60	20/30	1500/1600	185/200	5.2/5.7	0.35/0.38	8.89/9.65	42	6/5
230	200~240	50/60	18/25	1100/1000	130/125	3.7/3.5	0.25/0.23	6.35/5.84	35	8/7
230	200~240	50/60	3/4	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
			11/13	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4/3



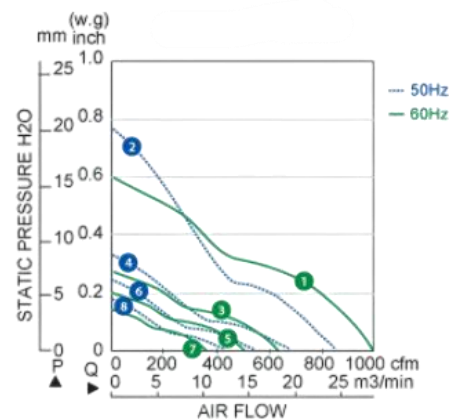
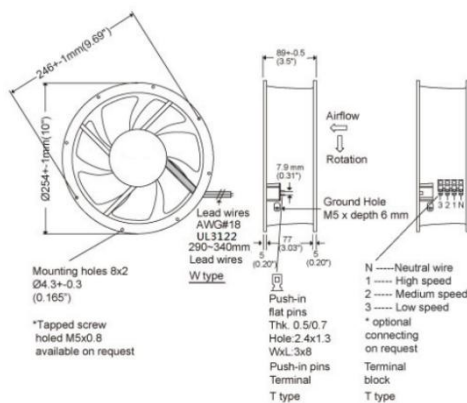
254x89

AC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Capacitor induction, outer rotor, 1-phase
Burnout Protection:	Thermally protected
IP Protection:	IP56, (IP68 Option)
Frame:	Aluminum die cast, natural color
Impeller:	7 blades, all metal
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	2,550 g (5.6Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 0.5mA, 50/60Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional: R/D alarm output, F/G tachometer output
Operating Temp:	Ambient non-condensing -30~+80C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 50K hours at 55C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
115	100~120	50/60	80/95	2300/2200	660/620	18.7/17.6	0.33/0.27	8.38/6.86	63	4/3
115	100~120	50/60	32/40	1450/1700	485/570	13.7/16.1	0.25/0.20	6.35/5.08	46	6/5
115	100~120	50/60	24/33	1200/1100	420/370	11.9/10.5	0.18/0.14	4.57/3.56	34	8/7
115	100~120	50/60	19/21	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
			16/19	2300/2200	660/620	18.7/17.6	0.33/0.27	8.38/6.86	63	4/3
115	100~120	50/60	4/5	1600/1500	560/500	15.9/14.2	0.25/0.20	6.35/5.08	46	6/5
			8/11	1200/1100	420/370	11.9/10.5	0.18/0.14	4.57/3.56	34	8/7
230	200~240	50/60	95/105	2750/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
230	200~240	50/60	80/95	2300/2200	660/620	18.7/17.6	0.33/0.27	8.38/6.86	63	4/3
230	200~240	50/60	32/40	1450/1700	485/570	13.7/16.1	0.25/0.20	6.35/5.08	46	6/5
230	200~240	50/60	24/33	1200/1250	420/438	11.9/12.4	0.18/0.15	4.57/3.81	34	8/7
230	200~240	50/60	19/21	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
			16/19	2400/2300	738/708	20.09/20.20	0.33/0.27	8.38/6.86	63	4/3
380	380~420	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
440	440~480	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1



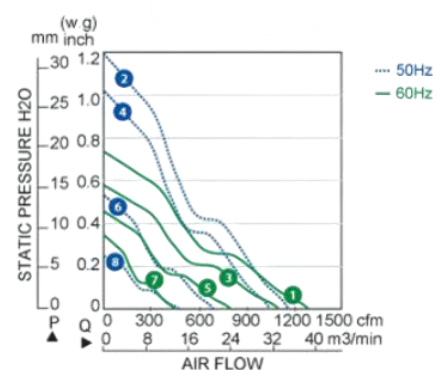
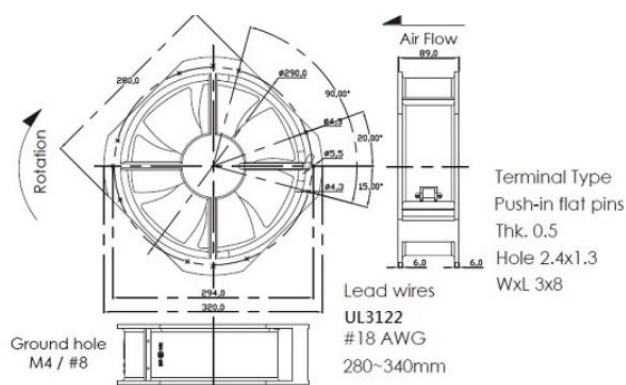
280x280x89

AC AXIAL FANS WITH METAL IMPELLER

Motor Type:	Capacitor induction, outer rotor, 1-phase
Burnout Protection:	Thermally protected
IP Protection:	IP56, (IP68 Option)
Frame:	Aluminum die cast, natural color, or black
Impeller:	7 blades, all metal steel
Bearing:	Maintenance-free 2 ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire leads, terminal flat pin or Terminal block option
Weight:	3,400g (7.4 Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 1mA, 50/60Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional: R/D alarm output, F/G tachometer output
Operating Temp:	Ambient non-condensing -30~+80C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 50K hours at 55C, 80K hours at 35C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1
115	100~120	50/60	110/180	2400/2500	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4/3
115	100~120	50/60	32/43	1500/1600	620/650	17.6/18.4	0.53/0.45	13.46/11.43	46	6/5
115	100~120	50/60	26/35	1200/1100	460/450	13.12.2007	0.25/0.35	6.35/8.89	34	8/7
115	100~120	50/60	155/210	2750/2900	1150/1250	32.6/35.4	1.2/0.75	30.48/19.05	73	2/1
			110/180	2400/2450	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4/3
115	100~120	50/60	32/43	1500/1600	620/650	17.6/18.4	0.53/0.45	13.46/11.43	46	6/5
			26/35	1200/1100	460/450	13.12.2007	0.25/0.35	6.35/8.89	34	8/7
230	200~240	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1
230	200~240	50/60	110/180	2400/2500	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4/3
230	200~240	50/60	32/43	1500/1600	620/650	17.6/18.4	0.53/0.45	13.46/11.43	46	6/5
230	200~240	50/60	26/35	1200/1100	460/450	13.12.2007	0.35/0.25	8.89/6.35	34	8/7
240	200~240	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1
230	200~240	50/60	155/210	2750/2900	1150/1000	32.6/28.3	1.2/0.75	30.48/19.05	73	2/1
			110/180	2400/2300	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4/3
230	200~240	50/60	32/43	1500/1600	620/650	17.6/18.4	0.53/0.45	13.46/11.43	46	6/5
			26/35	1200/1100	460/450	13.12.2007	0.25/0.35	6.35/8.89	34	8/7



HEAT RESISTANT AXIAL FANS



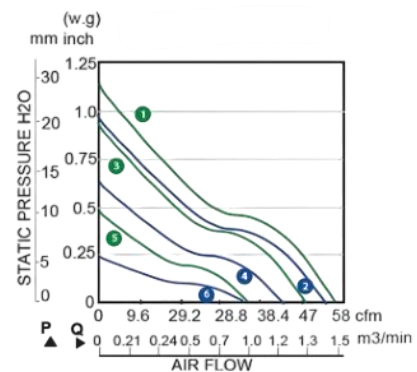
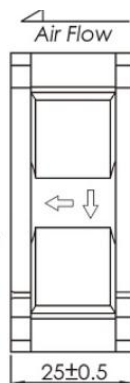
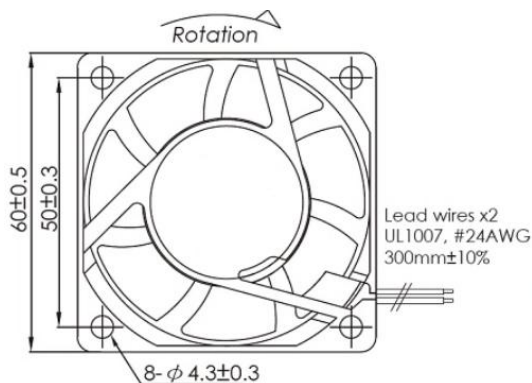
60x60x25

DC AXIAL HEAT RESISTANT FANS

Motor Type:	DC Motor
Burnout Protection:	Electronically protected, Polarity protected
IP Protection:	IP55,56,68 optional request
Frame:	Aluminum die cast, Natural color
Impeller:	7 blades, glass fiber reinforced thermoplastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	96g
Dielectric Strength:	500 VAC/min. Max leakage 5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Rotation Detactor, FG Frequency Generator
Operating Temp:	-10C~+100C
Storage Temp:	-40C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	7~13.2	14.4	1.2	9800	57	1.6	Oca.17	29.72	66	1
12	7~13.2	9	0.75	8200	54	1.5	0.94	23.88	65	2
12	7~13.2	7.2	0.6	7500	49	1.4	0.787	19.99	63	3
12	7~13.2	6	0.5	6800	45	1.3	0.559	14.2	56	4
12	7~13.2	4.8	0.4	6000	40	1.1	0.433	11	53	5
12	7~13.2	2.4	0.2	5000	35	1	0.25	6.35	40	6
24	14~26.4	8.4	0.35	8200	54	1.5	0.94	23.88	65	2
24	14~26.4	7.2	0.3	7500	49	1.4	0.787	19.99	63	3
24	14~26.4	6	0.25	6800	45	1.3	0.559	14.2	56	4
24	14~26.4	4.8	0.2	6000	40	1.1	0.433	11	53	5
24	14~26.4	3.6	0.15	5000	35	1	0.25	Haz.35	40	6



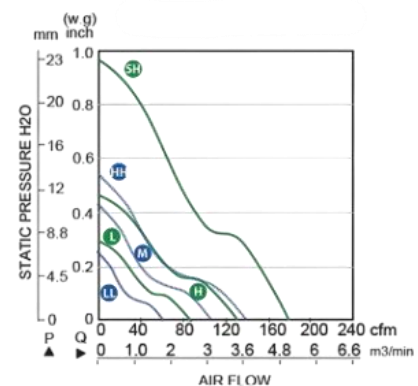
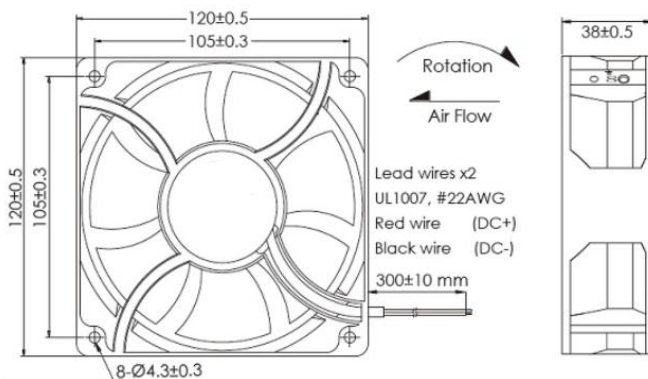
120x120x38

DC AXIAL HEAT RESISTANT FANS

Motor Type:	Brushless DC Motor, auto cutoff, auto restart
Burnout Protection:	Elctronically protected, polarity protected
IP Protection:	IP55,56,68 optional request
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead
Weight:	320g
Dielectric Strength:	500 VAC/min. Max leakage 500mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Rotation Detactor, FG Frequency Generator
Operating Temp:	-10C~+100C
Storage Temp:	-40C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	8~13.8	10.6 (~17)	0.88 (~1.43)	4200	180	5.1	0.98	24.89	54	SH
12	8~13.8	8.4 (~10)	0.7 (~0.9)	3200	136	3.9	0.56	14.22	48	HH
12	8~13.8	6.0	0.50	2900	124	3.5	0.47	11.94	44	H
12	8~13.8	4.8	0.40	2600	115	3.3	0.43	10.92	41	M
12	8~13.8	2.4	0.2	2000	90	2.5	0.32	8.13	35	L
12	8~13.8	2.4	0.2	1500	68	1.9	0.24	6.1	28	LL
24	15~26	10.3 (~22)	0.43 (~0.9)	4200	180	5.5	0.98	24.89	54	SH
24	15~26	8.4 (~11)	0.35 (~0.48)	3200	136	3.9	0.56	14.22	48	HH
24	15~26	5.5 (~12)	0.23 (~0.5)	2900	124	3.5	0.47	11.94	44	H
24	18~27	4.6 (~8)	0.19 (~0.34)	2600	115	3.3	0.43	10.92	41	M
24	18~27.6	3.6	0.15	2000	90	2.5	0.32	8.13	35	L
24	18~27.6	3.6	0.15	1500	68	1.9	0.24	6.1	28	LL
48	28~55	10.6 (~20)	0.22 (~0.41)	4200	180	5.1	0.98	24.89	54	SH
48	28~55	7.7 (~15)	0.16 (~0.3)	3200	136	3.9	0.56	14.22	48	HH
48	28~55	5.0 (~14)	0.10 (~0.29)	2900	124	3.5	0.47	11.94	44	H
48	28~55.2	3.8 (~7)	0.08 (~0.14)	2600	115	3.3	0.43	10.92	41	M
48	30~56	3.4	0.07	2000	90	2.5	0.32	8.13	35	L
48	30~56	3.4	0.07	1500	68	1.9	0.24	6.1	28	LL



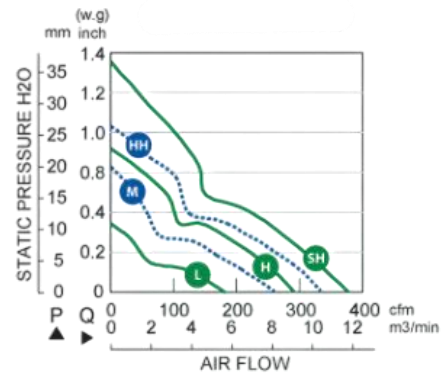
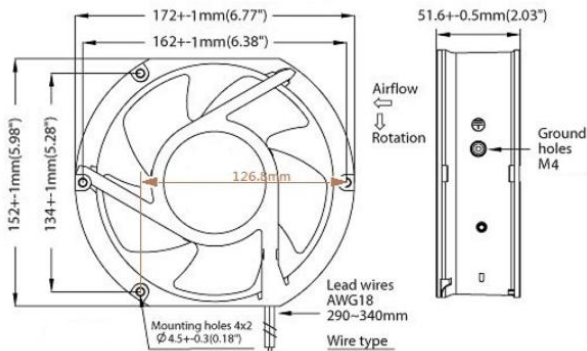
172x150x51

DC AXIAL HEAT RESISTANT FANS

Motor Type:	Brushless DC Motor, auto cutoff, auto restart
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP55,56,68 optional request
Frame:	Aluminum die cast, black color
Impeller:	5 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or Terminal flat pin connecting
Weight:	610g (1.3Lbs)
Dielectric Strength:	500 VAC/min. Max leakage 500mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Rotation Detactor, FG Frequency Generator
Operating Temp:	-10C~+100C
Storage Temp:	-40C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	8~13.8	23	1.9	4000	291	8.2	0.91	23.11	61.5	H
12	8~13.8	13.2	1.1	3500	263	7.4	0.82	20.83	57	M
12	8~13.8	5.5	0.45	2500	187	5.3	0.35	8.89	52	L
24	15~27	63.6	2.65	5200	378	10.7	1.36	34.54	68	SH
24	15~27	50.4	2.1	4400	323	9.1	1.06	26.92	63.5	HH
24	15~27.6	24 (~31.2)	0.97 (~1.3)	4000	291	8.2	0.91	23.11	61.5	H
24	17~27.6	13 (~19.2)	0.52 (~0.8)	3500	263	7.4	0.82	20.83	57	M
24	17~28	5	0.20	2500	187	5.3	0.35	8.89	52	L
48	22~53	62.4	1.3	5200	378	10.7	1.36	34.54	68	SH
48	22~53	49.4	1.3	4400	323	9.1	1.06	26.92	63.5	HH
48	22~56	23.5	0.48	4000	291	8.2	0.91	23.11	61.5	H
48	24~58	14.5	0.30	3500	263	7.4	0.82	20.83	57	M
48	24~63	5.8	0.12	2500	187	5.3	0.35	8.89	52	L



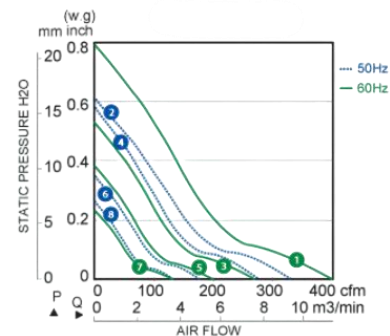
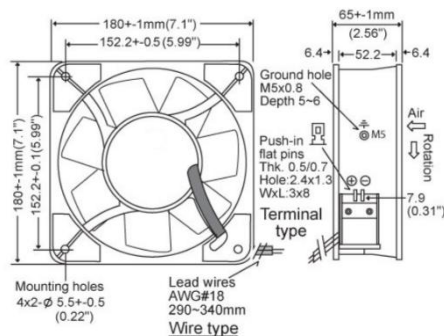
180x180x89

AC AXIAL HEAT RESISTANT FANS

Motor Type:	Capacitor induction, outer rotor, 1-phase
Burnout Protection:	Thermal protector
IP Protection:	IP56, IP68
Frame:	Aluminum die cast, natural color(AN)
Impeller:	7 blades, all metal
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	1800 g (3.96 Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 0.5mA, 50/60Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional: R/D alarm output, tachometer output F/G
Operating Temp:	Ambient non-condensing -30~+80C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 50K hours at 55C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
100	100~120	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
115	100~120	50/60	60/80	2750/3250	330/400	9.3/11.3	0.6/0.8	15.24/20.32	65	2/1
115	100~120	50/60	55/65	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4/3
115	100~120	50/60	20/30	1500/1600	185/200	5.2/5.7	0.35/0.38	8.89/9.65	42	6/5
115	100~120	50/60	18/25	1100/1000	130/125	3.7/3.5	0.25/0.23	6.35/5.84	35	8/7
115	100~120	50/60	3/4	2750/3250	330/400	9.3/11.3	0.6/0.8	15.24/20.32	65	2/1
			11/13	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4/3
115	100~120	50/60	2/3	1500/1600	185/200	5.2/5.7	0.35/0.38	8.89/9.65	42	6/5
			18/25	1100/1000	130/125	3.7/3.5	0.25/0.23	6.35/5.84	35	8/7
230	200~240	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
230	200~240	50/60	55/65	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4/3
230	200~240	50/60	20/30	1500/1600	185/200	5.2/5.7	0.35/0.38	8.89/9.65	42	6/5
230	200~240	50/60	18/25	1100/1000	130/125	3.7/3.5	0.25/0.23	6.35/5.84	35	8/7
230	200~240	50/60	3/4	2750/3250	330/400	9.3/11.3	0.6/0.8	15.24/20.32	65	2/1
			11/13	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4/3
115	100~120	50/60	60/80	2750/3250	330/400	9.3/11.3	0.6/0.8	15.24/20.32	65	2/1
/230	200~240									
380	380~440	50/60	60/80	2800/3250	330/400	9.3/11.3	0.6/0.8	15.24/20.32	64	2/1
440	380~440(~480)	50/60	60/80	2800/3250	330/400	9.3/11.3	0.6/0.8	15.24/20.32	64	2/1



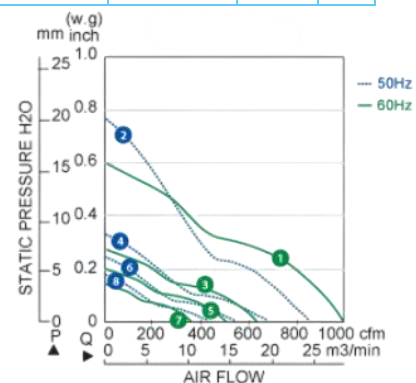
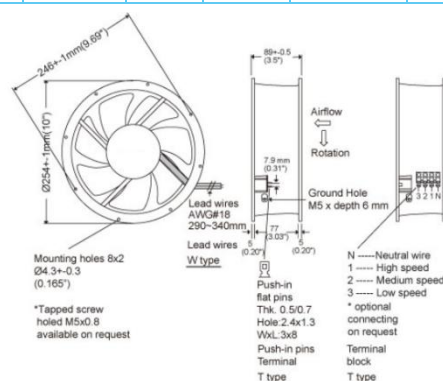
254x89

AC AXIAL HEAT RESISTANT FANS

Motor Type:	Capacitor induction, outer rotor, 1-phase
Burnout Protection:	Thermally protected
IP Protection:	IP56, IP68
Frame:	Aluminum die cast, natural color
Impeller:	7 blades, all metal
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	2,550 g (5.6Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 0.5mA, 50/60Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional: R/D alarm output, F/G tachometer output
Operating Temp:	Ambient non-condensing -30~+80C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 50K hours at 55C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
115	100~120	50/60	80/95	2300/2200	660/620	18.7/17.6	0.33/0.27	8.38/6.86	63	4/3
115	100~120	50/60	32/40	1450/1700	485/570	13.7/16.1	0.25/0.20	6.35/5.08	46	6/5
115	100~120	50/60	24/33	1200/1100	420/370	11.9/10.5	0.18/0.14	4.57/3.56	34	8/7
115	100~120	50/60	19/21	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
			16/19	2300/2200	660/620	18.7/17.6	0.33/0.27	8.38/6.86	63	4/3
115	100~120	50/60	4/5	1600/1500	560/500	15.9/14.2	0.25/0.20	6.35/5.08	46	6/5
			8/11	1200/1100	420/370	11.9/10.5	0.18/0.14	4.57/3.56	34	8/7
230	200~240	50/60	95/105	2750/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
230	200~240	50/60	80/95	2300/2200	660/620	18.7/17.6	0.33/0.27	8.38/6.86	63	4/3
230	200~240	50/60	32/40	1450/1700	485/570	13.7/16.1	0.25/0.20	6.35/5.08	46	6/5
230	200~240	50/60	24/33	1200/1100	420/370	11.9/10.5	0.18/0.14	4.57/3.56	34	8/7
230	200~240	50/60	19/21	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
			16/19	2400/2300	738/708	20.09/20.20	0.33/0.27	8.38/6.86	63	4/3
230	200~240	50/60	4/5	1600/1500	560/500	15.9/14.2	0.25/0.20	6.35/5.08	46	6/5
			8/11	1200/1100	420/370	11.9/10.5	0.18/0.14	4.57/3.56	34	8/7
115	100~120	50/60	95/105	2750/3250	840/1000	23.8/28.3	1.05/1.15	26.67/29.21	70	2/1
230	200~240									
380	380~420	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
440	440~480	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1



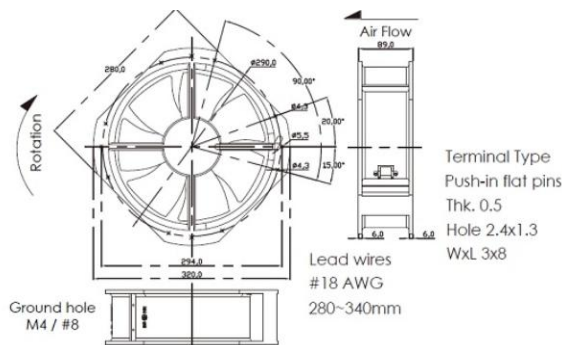
280x280x89

AC AXIAL HEAT RESISTANT FANS

Motor Type:	Capacitor induction, outer rotor, 1-phase
Burnout Protection:	Thermal protector
IP Protection:	IP56, IP68
Frame:	Aluminum die cast, natural color, or black
Impeller:	7 blades, all metal steel
Bearing:	Maintenance-free 2 ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire leads, terminal flat pin or Terminal block option
Weight:	3,400g (7.4 Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 1mA, 50/60Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional: R/D alarm output, F/G tachometer output
Operating Temp:	Ambient non-condensing -30~+80C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 50K hours at 55C, 80K hours at 35C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1
115	100~120	50/60	110/180	2400/2500	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4/3
115	100~120	50/60	32/43	1500/1600	620/650	17.6/18.4	0.53/0.45	13.46/11.43	46	6/5
115	100~120	50/60	26/35	1200/1100	460/450	13.12/2007	0.25/0.35	6.35/8.89	34	8/7
115	100~120	50/60	31/42	2750/2900	1150/1250	32.6/35.4	1.2/0.75	30.48/19.05	73	2/1
			11/18	2400/2450	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4/3
115	100~120	50/60	32/43	1500/1600	620/650	17.6/18.4	0.53/0.45	13.46/11.43	46	6/5
			26/35	1200/1100	460/450	13.12/2007	0.25/0.35	6.35/8.89	34	8/7
230	200~240	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1
230	200~240	50/60	110/180	2400/2500	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4/3
230	200~240	50/60	32/43	1500/1600	620/650	17.6/18.4	0.53/0.45	13.46/11.43	46	6/5
230	200~240	50/60	26/35	1200/1100	460/450	13.12/2007	0.35/0.25	8.89/6.35	34	8/7
240	200~240	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1
230	200~240	50/60	31/42	2750/2900	1150/1000	32.6/28.3	1.2/0.75	30.48/19.05	73	2/1
			11/18	2400/2300	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4/3
115	100~120	50/60	155/210	2800/3000	1150/1250	32.6/35.4	1.2/0.68	30.48/17.27	73	2/1
/230	200~240									
48	48~58	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1
380	380~420	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1
440	440~480	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1



IP68/69K AXIAL FANS



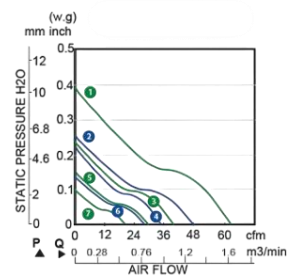
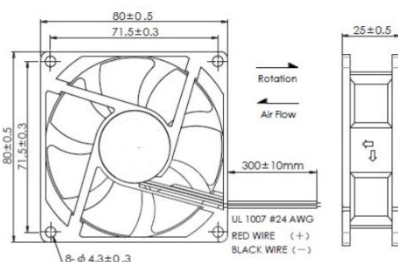
80x80x25

DC IP68/69K AXIAL FANS

Motor Type:	Brushless DC Motor, auto cutoff auto restart optional only
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP68 or IP69K optional on request
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	78g
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
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
5	4~6	1.4	0.28	3200	40	1.1	0.23	5.84	33	HH
5	4~7	1.4	0.28	2800	35	1	0.22	5.59	32	H
5	4~7	1.0	0.20	2200	30	0.8	0.15	3.81	27	M
5	4~7	0.8	0.15	1800	22	0.6	0.10	2.54	21	L
12	8~13.8	2.2 (~6.2)	0.18 (~0.52)	5000	64	1.8	0.4	10.16	42	-
12	8~13.8	2.2	0.18	3800	48	1.4	0.26	6.6	35	HH
12	8~13.8	2.2	0.18	3300	40	1.1	0.23	5.84	33	H
12	8~14	1.8	0.15	2700	32	0.9	0.16	4.06	28	M
12	8~14	1.4	0.12	2000	22	0.6	0.10	2.54	21	L
24	12~27.6	2.9 (~6)	0.12 (~0.25)	5000	64	1.8	0.4	10.16	42	-
24	12~27.6	2.9 (~4.8)	0.12 (~0.2)	3800	48	1.4	0.26	6.6	35	HH
24	12~27.6	2.9	0.12	3300	40	1.1	0.23	5.84	33	H
24	12~27.6	2.4	0.10	2700	32	0.9	0.16	4.06	28	M
24	12~28	2.0	0.08	2000	22	0.6	0.10	2.54	21	L
48	34~56	4.3	0.09	5000	64	1.8	0.4	10.16	42	-
48	34~56	3.8	0.08	3800	48	1.4	0.26	6.6	35	HH
48	34~56	3.4	0.07	3300	40	1.1	0.23	5.84	33	H
48	34~56	2.4	0.05	2700	32	0.9	0.16	4.06	28	M



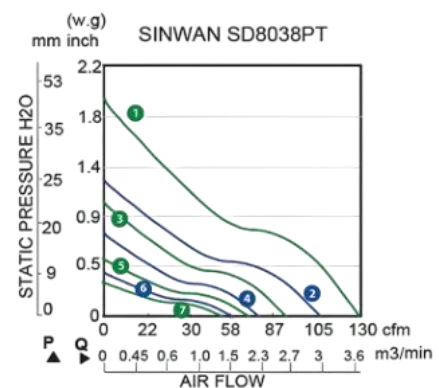
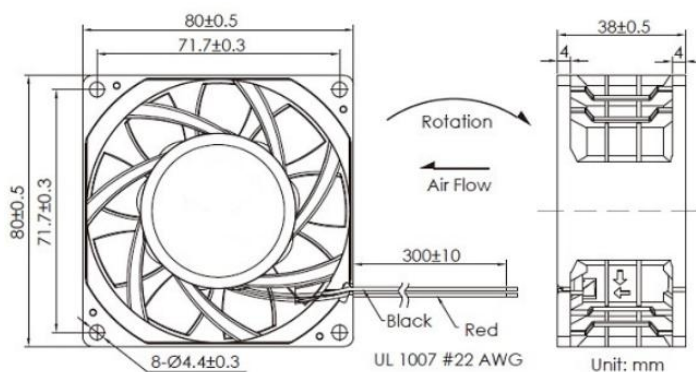
80x80x38

DC IP68/69K AXIAL FANS

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, Polarity protected
IP Protection:	IP68 or IP69K optional on request
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	9 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	210g
Dielectric Strength:	500 VAC/min. Max leakage 5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD alarm output, FG Tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	7~13.2	42	3,5	9000	132	3.7	2	50.8	66	1
12	7~13.2	24	2	7500	107	3	1.36	34.54	62	2
12	7~13.2	15	1.25	6500	93	2.6	1.0	25.4	59	3
12	7~13.2	10.8	0.9	5800	82	2.3	0.78	19.81	52	4
12	7~13.2	7.2	0.6	5000	71	2	0.58	14.73	49	5
12	7~13.2	4.8	0.4	4200	60	1.7	0.41	10.41	45	6
12	7~13.2	3.6	0.3	3500	50	1.4	0.28	7.11	41	7
24	14~26.4	45.6	1.9	9000	132	3.7	2	50.8	66	1
24	14~26.4	21.6	0.9	7500	107	3	1.36	34.54	62	2
24	14~26.4	14.4	0.6	6500	93	2.6	1.0	25.4	59	3
24	14~26.4	10.8	0.45	5800	82	2.3	0.78	19.81	52	4
24	14~26.4	7.2	0.3	5000	71	2	0.58	14.73	49	5
24	14~26.4	6.0	0.25	4200	60	1.7	0.41	10.41	45	6
24	14~26.4	4.8	0.2	3500	50	1.4	0.28	7.11	41	7
48	28~56	43.2	0.9	9000	132	3.7	2	50.8	66	1



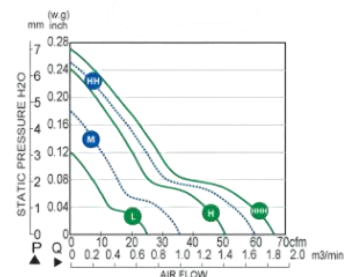
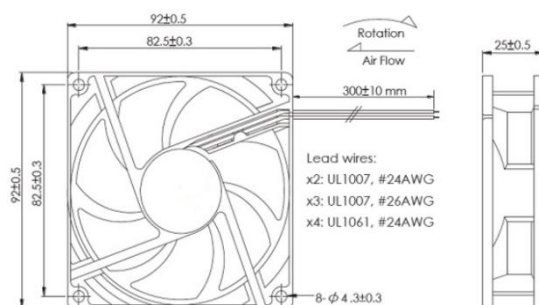
92x92x25

DC IP68/69K AXIAL FANS

Motor Type:	Brushless DC Motor, auto cutoff, auto restart
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP68 or IP69K optional on request
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	80g
Dielectric Strength:	500 VAC/min. Max leakage 500mA
Speed Control:	Optional: PWM, S/C NTC thermister on request
Signal Output:	Optional: RD alarm output, FG tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
5	4~7	1.5	0.32	2400	35	1	0.22	5.59	33	H
5	4~7	1.3	0.25	2100	32	0.9	0.15	3.81	27	M
5	4~7	0.9	0.18	1600	25	0.7	0.12	3.05	23	L
12	7~13.6	3.0	0.29	3600	66	1.9	0.27	6.86	43	HHH
12	7~13.6	3.0	0.29	3300	60	1.7	0.25	6.35	38	HH
12	7~13.6	3.0	0.29	2900	50	1.4	0.24	6.1	35	H
12	7~13.6	2.1	0.20	2500	35	1	0.18	4.57	30	M
12	7~13.6	1.4	0.12	1800	25	0.7	0.12	3.05	23	L
24	12~27	3.5	0.18	3600	66	1.9	0.27	6.86	43	HHH
24	12~27	3.5	0.18	3300	60	1.7	0.25	6.35	38	HH
24	12~27	3.5	0.18	2900	50	1.4	0.24	6.1	33	H
24	12~27	2.8	0.12	2500	35	1	0.18	4.57	30	M
24	12~27	2.4	0.10	1800	25	0.7	0.12	3.05	23	L
48	28~55	4.3	0.09	3600	66	1.9	0.27	6.86	43	HHH
48	28~55	4.3	0.09	3300	60	1.7	0.25	6.35	38	HH
48	28~55	4.3	0.09	2900	50	1.4	0.24	6.1	32	H
48	32~56	2.4	0.05	2500	35	1	0.18	4.57	30	M
48	32~56	1.9	0.04	2100	32	0.9	0.15	3.81	27	L



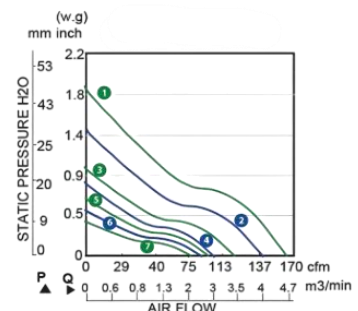
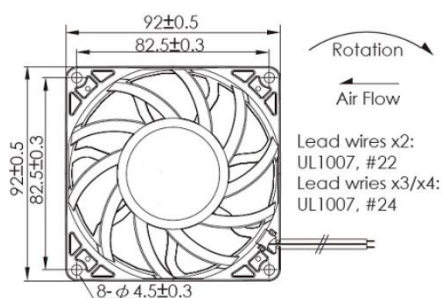
92x92x38

DC IP68/69K AXIAL FANS

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, Polarity protected
IP Protection:	IP68 or IP69K optional on request
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	200g
Dielectric Strength:	500 VAC/min. Max leakage 5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD Rotation Detector, FG Frequency Generator
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	7~13.2	42	3.5	8000	168	4.8	1.9	48.26	72	1
12	7~13.2	36	3.0	7000	147	4.2	1.46	37.08	67	2
12	7~13.2	24	2.0	6000	125	3.5	1.12	28.45	64	3
12	7~13.2	18	1.5	5000	110	3.1	0.86	21.84	58	4
12	7~13.2	12	1.0	4500	100	2.8	0.7	17.78	56	5
12	7~13.2	9.6	0.8	4000	89	2.5	0.55	13.97	53	6
12	7~13.2	7.2	0.6	3500	78	2.2	0.42	10.67	50	7
24	14~26.4	39.6	1.65	8000	168	4.8	1.9	48.26	72	1
24	14~26.4	26.4	1.1	7000	147	4.2	1.46	37.08	67	2
24	14~26.4	21.6	0.9	6000	125	3.5	1.12	28.45	64	3
24	14~26.4	10.8	0.45	5000	110	3.1	0.86	21.84	58	4
24	14~26.4	9.6	0.4	4500	100	2.8	0.7	17.78	56	5
24	14~26.4	7.2	0.3	4000	89	2.5	0.55	13.97	53	6
24	14~26.4	4.8	0.2	3500	78	2.2	0.42	10.67	50	7
48	28~56	43.2	0.9	8000	168	4.8	1.9	48.26	72	1
48	28~56	28.8	0.6	7000	147	4.2	1.46	37.08	67	2
48	28~56	19.2	0.4	6000	125	3.5	1.12	28.45	64	3
48	28~56	14.4	0.3	5000	110	3.1	0.86	21.84	58	4
48	28~56	12	0.25	4500	100	2.8	0.7	17.78	56	5
48	28~56	9.6	0.2	4000	89	2.5	0.55	13.97	53	6
48	28~56	7.2	0.15	3500	78	2.2	0.42	10.67	50	7



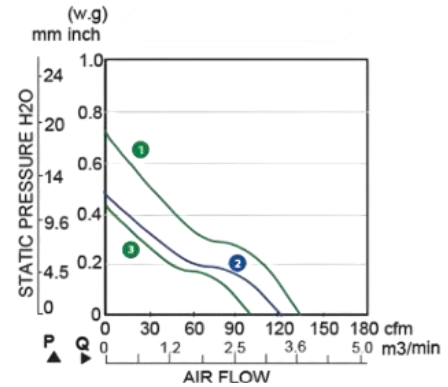
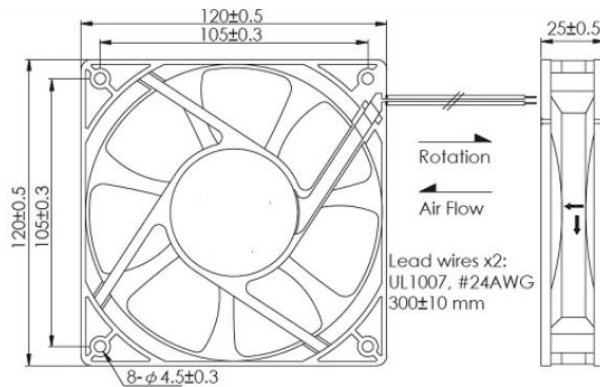
120x120x25

DC IP68/69K AXIAL FANS

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, Polarity protected
IP Protection:	IP68 or IP69K optional on request
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	7 blades, glass fiber reinforced thermoplastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	155g
Dielectric Strength:	500 VAC/min. Max leakage 5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD alarm output, FG tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
24	14~26.4	20.4	0.85	5000	135	3.8	0.75	19.05	55	1
24	14~26.4	15.6	0.65	4000	121	3.4	0.51	12.95	52	2
24	14~26.4	10.8	0.45	3500	107	3	0.42	10.67	48	3
48	28~56	31.2	0.65	5000	135	3.8	0.75	19.05	55	1
48	28~56	24	0.5	4000	121	3.4	0.51	12.95	52	2
48	28~56	16.8	0.35	3500	107	3	0.42	10.67	48	3



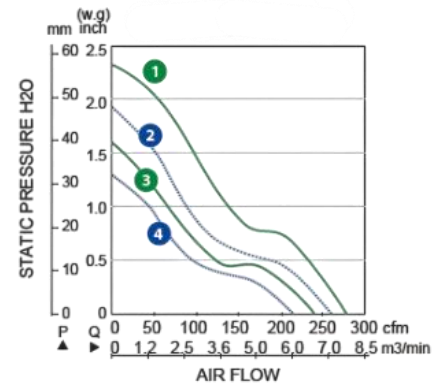
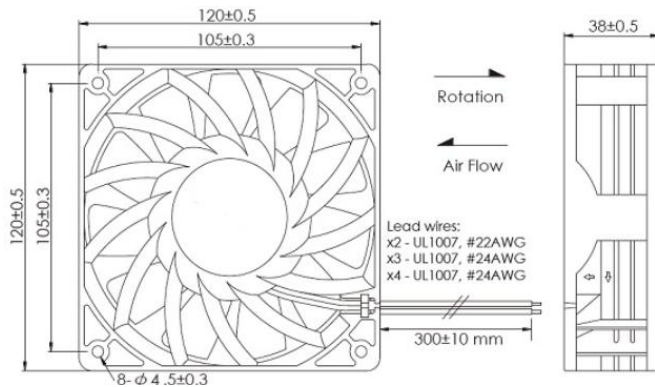
120x120x38

DC IP68/69K AXIAL FANS

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, Polarity protected
IP Protection:	IP68 or IP69K optional on request
Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	11 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	315g
Dielectric Strength:	500 VAC/min. Max leakage 5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD alarm output, FG tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	8~13.8	45.6	3.8	5000	236	6.7	1.6	40.64	60	3
12	8~13.8	33.6	2.8	4500	215	6.1	1.3	33.02	58	4
24	14~26.4	58.8	2.45	5500	260	7.4	1.9	48.26	62	2
24	14~26.4	45.6	1.9	5000	236	6.7	1.6	40.64	60	3
24	14~26.4	33.6	1.4	4500	215	6.1	1.3	33.02	58	4
48	28~56	76.8	1.6	6000	285	8.1	2.3	58.42	64	1
48	28~56	55.2	1.15	5500	260	7.4	1.9	48.26	62	2
48	28~56	43.2	0.9	5000	236	6.7	1.6	40.64	60	3
48	28~56	33.6	0.7	4500	215	6.1	1.3	33.02	58	4



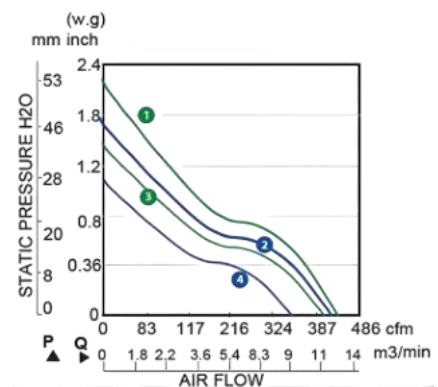
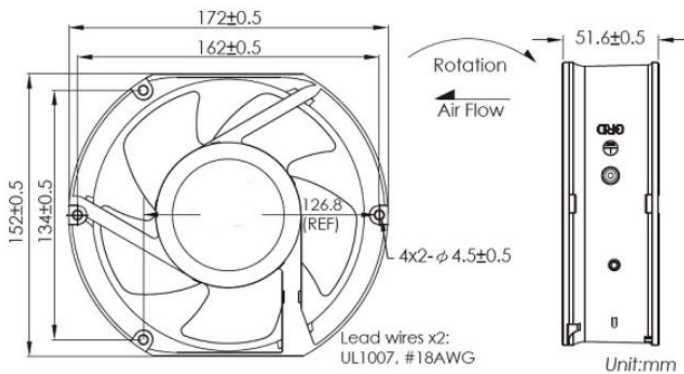
172x150x51

DC IP68/69K AXIAL FANS

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, Polarity protected
IP Protection:	IP68 or IP69K optional on request
Frame:	Aluminum die cast, black color
Impeller:	5 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	610g
Dielectric Strength:	500 VAC/min. Max leakage 5mA
Speed Control:	Optional: PWM, S/C NTC thermister
Signal Output:	Optional: RD alarm output, FG tachometer output
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
24	14~26.4	78	3.25	5500	400	11.3	1.52	38.61	69	3
24	14~26.4	43.2	1.8	4500	330	9.3	1.11	28.19	64	4
48	28~56	124.8	2.6	6500	472	13.4	2.12	53.85	73	1
48	28~56	96	2	6000	436	12.3	1.8	45.72	71	2
48	28~56	69.6	1.45	5500	400	11.3	1.52	38.61	69	3
48	28~56	40.8	0.85	4500	330	9.3	1.11	28.19	64	4



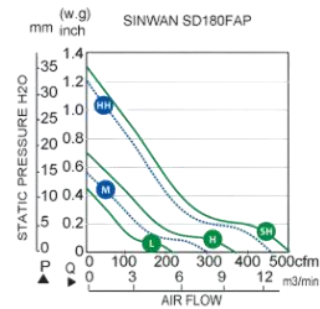
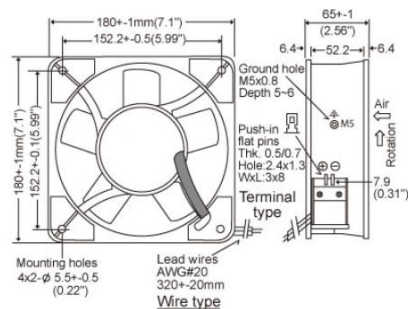
180x180x65

DC IP68/69K AXIAL FANS

Motor Type:	Brushless DC Motor, auto cutoff, auto restart
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP68 or IP69K optional on request
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)
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
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 90K hours at 35C, 40K hours at 60C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure	Noise Level	PQ Curves	
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	9~13.8	64.8	5.4	3700	490	13.9	1.25	31.75	68	SH
12	9~13.8	50.4	4.2	3400	460	13	1.1	27.94	63	HH
12	9~13.8	23	1.9	2800	375	10.6	0.7	17.78	53	H
12	10~14	13.2(~18)	1.1(~1.5)	2200	300	8.5	0.58	14.73	46	M
12	10~14	5.5	0.45	1500	215	6.1	0.42	10.67	36	L
24	12~27.6	63.6	2.65	3800	500	14.2	1.3	33.02	69	SH
24	12~27.6	50.4(~60)	2.1(~2.5)	3500	470	13.3	1.2	30.48	65	HH
24	12~27.6	24(~27.6)	0.97(~1.15)	2800	375	10.6	0.7	17.78	53	H
24	12~28	13(~14.88)	0.52(~0.62)	2200	300	8.5	0.58	14.73	46	M
24	15~28	5	0.20	1500	215	6.1	0.42	10.67	36	L
48	24~55	62.4	1.3	3800	500	14.2	1.3	33.02	69	SH
48	24~55	49.4	1.03	3500	470	13.3	1.2	30.48	65	HH
48	24~55	23.5	0.48	2800	375	10.6	0.7	17.78	53	H
48	28~60	14.5	0.30	2200	300	8.5	0.58	14.73	46	M
48	30~63	5.8	0.12	1500	215	6.1	0.42	Eki.67	36	L



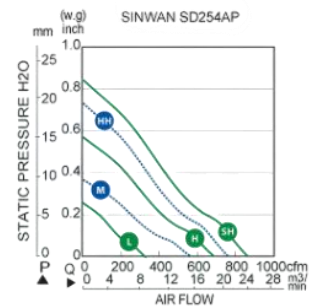
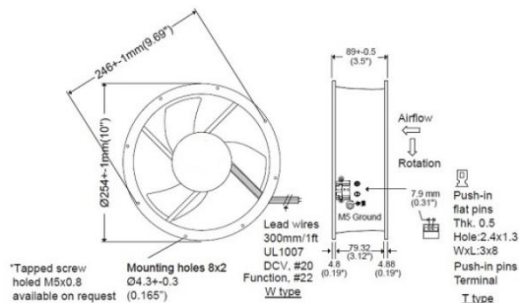
254x89

DC IP68/69K AXIAL FANS

Motor Type:	Brushless DC Motor, auto cutoff, auto restart
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	IP68 or IP69K optional on request
Frame:	Aluminum die cast, black color treatment
Impeller:	3 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire leads or push-in flat pins terminal connecting, terminal block optional.
Weight:	1,830g (4Lbs)
Dielectric Strength:	500 VAC/min. Max leakage 500mA
Speed Control:	Optional: PWM, SC NTC thermister, 0~10V control voltage SV
Signal Output:	Optional: RD alarm, tachometer FG outputs
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 90K hours at 35C, 40K hours at 60C



Rated Volt	Voltage Range	Input Power	Rated Current	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ Curves
VDC	VDC	Watt	Amp	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
12	9~13	64.8	5.4	2400	830	23.5	0.78	19.81	60	SH
12	9~13	50.4	4.2	2200	750	21.2	0.69	17.53	56	HH
12	9~13	23(~37.2)	1.9(~3.1)	2000	690	19.5	0.58	14.73	47	H
12	9~14	13.2(~18)	1.1(~1.5)	1650	550	15.6	0.37	9.4	39	M
12	10~16	5.5	0.45	1000	350	9.9	0.25	6.35	28	L
24	16~27	100.8	4.2	3000	1000	28.3	1.05	26.67	75	SHH
24	16~27	63.6	2.65	2500	850	24.1	0.83	21.08	62	SH
24	16~27	50.4	2.0	2300	760	21.5	0.71	18.03	58	HH
24	16~27	36	1.5	2000	690	19.5	0.58	14.73	47	H
24	16~27.6	28.8	1.2	1650	550	15.6	0.37	9.4	39	M
48	24~53	96	2	3000	1000	28.3	1.05	26.67	75	SHH
48	24~53	62.4	1.3	2500	850	24.1	0.83	21.08	62	SH
48	24~53	62.4	1.3	2300	760	21.5	0.71	18.03	58	HH
48	24~53	48	1.0	2000	690	19.5	0.58	14.73	49	H



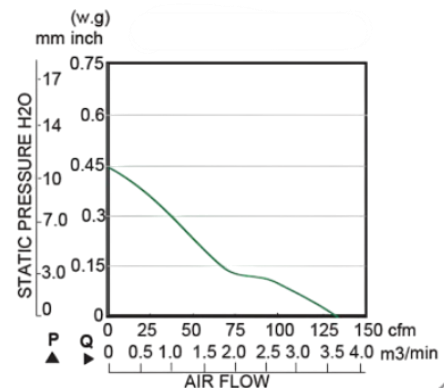
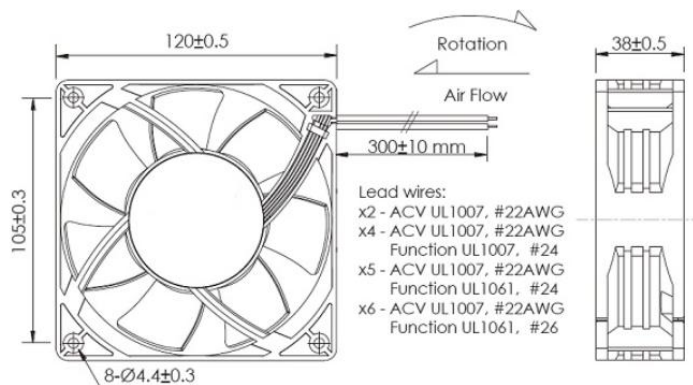
120x120x38

AC IP68/69K AXIAL FANS

Motor Type:	AC Motor
Burnout Protection:	Impedance protected
IP Protection:	IP68 or IP69K optional on request
Frame:	PBT UL94-V0
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or Terminal flat pin connecting
Weight:	310g
Dielectric Strength:	1,500 VAC/min
Insulation Resistance:	100 MΩ at DC 500VDC
Signal Output:	Optional: RD Rotation Detactor, FG Frequency Generator
Operating Temp:	-20C~+65C
Storage Temp:	-20C~+75C (at 65%RH)
Life Expectancy:	L10 70K hours at 40C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	10/8	3000	135	3.8	0.45	11.43	48	1
230	200~240	50/60	10/8	3000	135	3.8	0.45	11.43	48	1



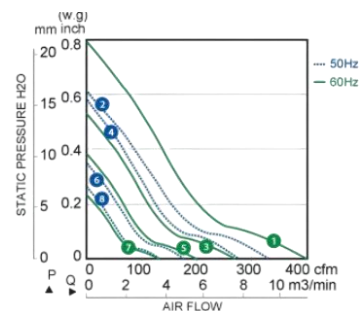
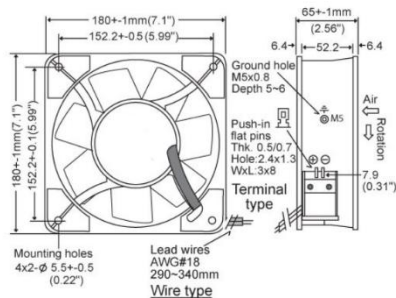
180x180x65

AC IP68/69K AXIAL FANS

Motor Type:	Capacitor induction, outer rotor, 1-phase
Burnout Protection:	Thermally protected
IP Protection:	IP68 or IP69K optional on request
Frame:	Aluminum die cast, black color
Impeller:	7 blades, all metal
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	1,800g (3.96Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 50/60Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional: R/D alarm output, tachometer output F/G
Operating Temp:	Ambient non-condensing -30~+80C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 50K hours at 55C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
100	100~120	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
115	100~120	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
115	100~120	50/60	55/65	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4/3
115	100~120	50/60	20/30	1500/1600	185/200	5.2/5.7	0.35/0.38	8.89/9.65	42	6/5
115	100~120	50/60	18/25	1100/1000	130/125	3.7/3.5	0.25/0.23	6.35/5.84	35	8/7
115	100~120	50/60	3/4	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
			11/13	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4/3
115	100~120	50/60	2/3	1500/1600	185/200	5.2/5.7	0.35/0.38	8.89/9.65	42	6/5
			18/25	1100/1000	130/125	3.7/3.5	0.25/0.23	6.35/5.84	35	8/7
200	200~240	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
230	200~240	50/60	55/65	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4/3
230	200~240	50/60	3/4	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
			11/13	2300/2200	275/265	7.8/7.5	0.58/0.52	14.73/13.21	53	4/3
230	200~240	50/60	2/3	1500/1600	185/200	5.2/5.7	0.35/0.38	8.89/9.65	42	6/5
			18/25	1100/1000	130/125	3.7/3.5	0.25/0.23	6.35/5.84	35	8/7
115	100~120	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	65	2/1
/230	200~240									
380	380~440	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	64	2/1
440	380~440(~480)	50/60	60/80	2750/3250	330/400	9.3/11.3	0.75/0.8	19.05/20.32	64	2/1



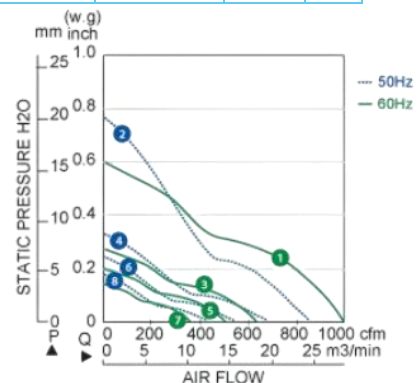
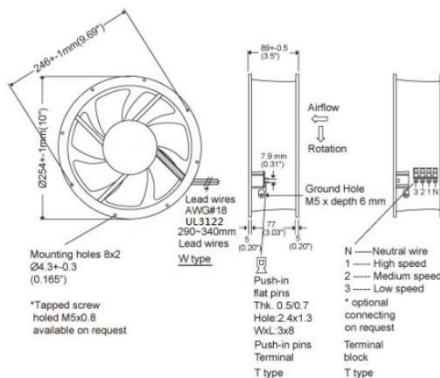
254x89

AC IP68/69K AXIAL FANS

Motor Type:	Capacitor induction, outer rotor, 1-phase
Burnout Protection:	Thermally protected
IP Protection:	IP68 or IP69K optional on request
Frame:	Aluminum die cast, black color
Impeller:	7 blades, all metal
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire lead or terminal flat pin connecting
Weight:	2,550g (5.6Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 50/60Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional: R/D alarm output, F/G tachometer output
Operating Temp:	Ambient non-condensing -30~+80C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 50K hours at 55C



Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max.Airflow		Max.Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
115	100~120	50/60	80/95	2300/2200	660/620	18.7/17.6	0.33/0.27	8.38/6.86	63	4/3
115	100~120	50/60	32/40	1450/1700	485/570	13.7/16.1	0.25/0.20	6.35/5.08	46	6/5
115	100~120	50/60	24/33	1200/1100	420/370	11.9/10.5	0.18/0.14	4.57/3.56	34	8/7
115	100~120	50/60	19/21	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
			16/19	2300/2200	660/620	18.7/17.6	0.33/0.27	8.38/6.86	63	4/3
115	100~120	50/60	4/5	1600/1500	560/500	15.9/14.2	0.25/0.20	6.35/5.08	46	6/5
			8/11	1200/1100	420/370	11.9/10.5	0.18/0.14	4.57/3.56	34	8/7
230	200~240	50/60	95/105	2750/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
230	200~240	50/60	80/95	2300/2200	660/620	18.7/17.6	0.33/0.27	8.38/6.86	63	4/3
230	200~240	50/60	32/40	1450/1700	485/570	13.7/16.1	0.25/0.20	6.35/5.08	46	6/5
230	200~240	50/60	24/33	1200/1100	420/370	11.9/10.5	0.18/0.14	4.57/3.56	34	8/7
230	200~240	50/60	19/21	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
			16/19	2400/2300	738/708	20.09/20.20	0.33/0.27	8.38/6.86	63	4/3
230	200~240	50/60	4/5	1600/1500	560/500	15.9/14.2	0.25/0.20	6.35/5.08	46	6/5
			8/11	1200/1100	420/370	11.9/10.5	0.18/0.14	4.57/3.56	34	8/7
115	100~120	50/60	95/105	2750/3250	840/1000	23.8/28.3	1.05/1.15	26.67/29.21	70	2/1
230	200~240									
380	380~420	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1
440	440~480	50/60	95/105	2800/3250	840/1000	23.8/28.3	0.78/0.60	19.81/15.24	70	2/1



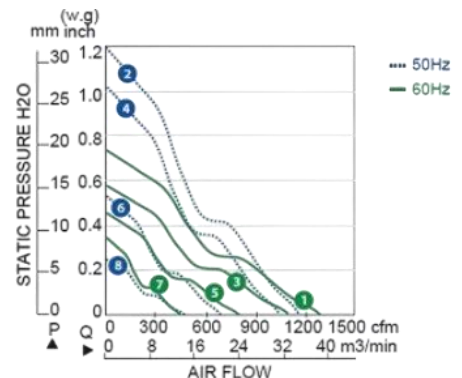
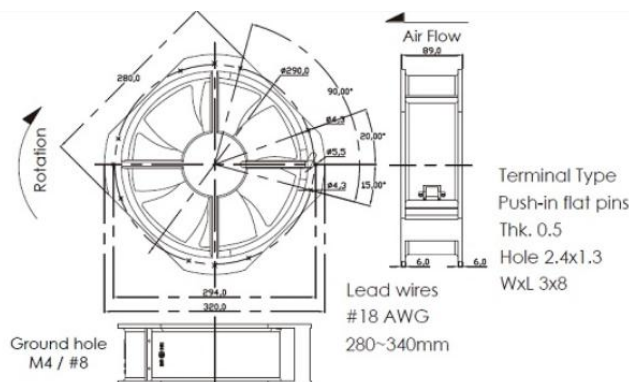
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AC IP68/69K AXIAL FANS

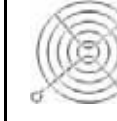
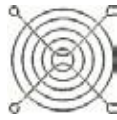
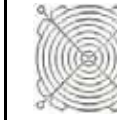
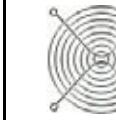
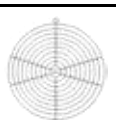
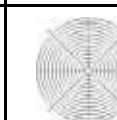
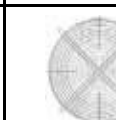
Motor Type:	Capacitor induction, outer rotor, 1-phase
Burnout Protection:	Thermally protected
IP Protection:	IP68 or IP69K optional on request
Frame:	Aluminum die cast, black color
Impeller:	7 blades, all metal steel
Bearing:	Maintenance-free 2 ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire leads, terminal flat pin or Terminal block option
Weight:	3,400g (7.4 Lbs)
Dielectric Strength:	Over 1 min. at 1,500 VAC, 50/60Hz
Insulation Resistance:	Over 100 MΩ at DC 500V
Signal Output:	Optional: R/D alarm output, F/G tachometer output
Operating Temp:	Ambient non-condensing -30~+80C
Storage Temp:	-40C~+100C (at 65%RH)
Life Expectancy:	L10 50K hours at 55C, 80K hours at 35C

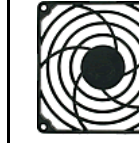
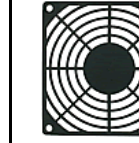
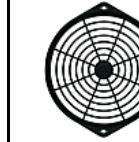
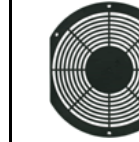


Rated Volt	Voltage Range	Freq	Input Power	Ref. Speed	Max. Airflow		Max. Static Pressure		Noise Level	PQ
VAC	VAC	Hz	Watt	RPM	CFM	m3/min	Inch/H2O	mm	db(A)	
115	100~120	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1
115	100~120	50/60	110/180	2400/2500	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4/3
115	100~120	50/60	32/43	1500/1600	620/650	17.6/18.4	0.53/0.45	13.46/11.43	46	6/5
115	100~120	50/60	26/35	1200/1100	460/450	13.12/2007	0.35/0.25	8.89/6.35	34	8/7
115	100~120	50/60	155/210	2750/2900	1150/1250	32.6/35.4	1.2/0.75	30.48/19.05	73	2/1
			110/180	2400/2450	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4/3
115	100~120	50/60	32/43	1500/1600	620/650	17.6/18.4	0.53/0.45	13.46/11.43	46	6/5
			26/35	1200/1100	460/450	13.12/2007	0.25/0.35	6.35/8.89	34	8/7
230	200~240	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1
230	200~240	50/60	110/180	2400/2500	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4/3
230	200~240	50/60	32/43	1500/1600	620/650	17.6/18.4	0.53/0.45	13.46/11.43	46	6/5
230	200~240	50/60	26/35	1100/1000	450/410	12.7/11.6	0.32/0.22	8.13/5.59	32	8/7
240	200~240	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1
230	200~240	50/60	155/210	2750/2900	1150/1000	32.6/28.3	1.2/0.75	30.48/19.05	73	2/1
			110/180	2400/2300	1000/1050	28.3/29.7	1.02/0.59	25.91/14.99	62	4/3
115	100~120	50/60	155/210	2800/3000	1150/1250	32.6/35.4	1.2/0.68	30.48/17.27	73	2/1
230	200~240									
380	380~420	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1
440	440~480	50/60	155/210	2800/3200	1150/1300	32.6/36.8	1.2/0.75	30.48/19.05	73	2/1



FAN GUARDS

							
25mm	30mm	40mm	50mm	60mm	60mm	80mm	80mm
							
80mm	80mm	92mm	92mm	92mm	92mm	120mm	120mm
							
120mm	120mm	120mm	120mm	120mm	120mm	127mm	150mm
							
150mm	150mm	176mm	180mm	225mm	254mm	254mm	280mm

						
40mm 60mm	80mm	80mm Thin	80mm	80mm	92mm	92mm
						
120mm	120mm	120mm Thin	120mm	120mm	150mm	150mm

