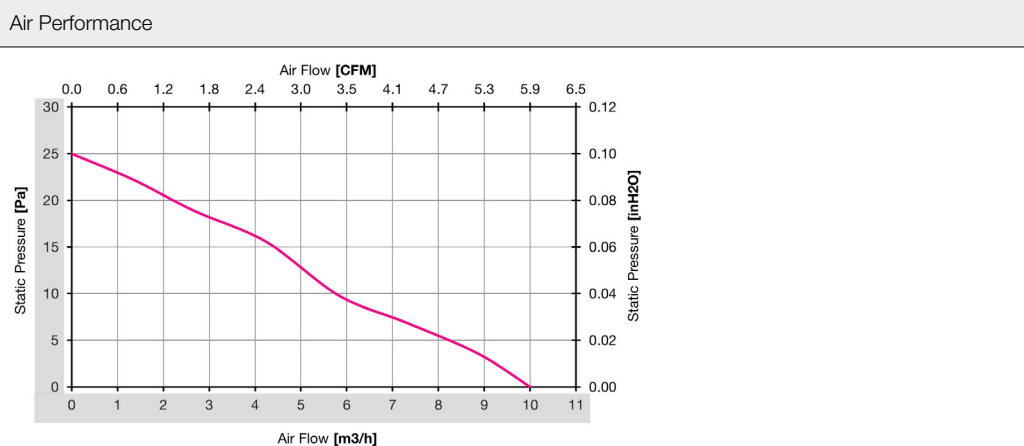
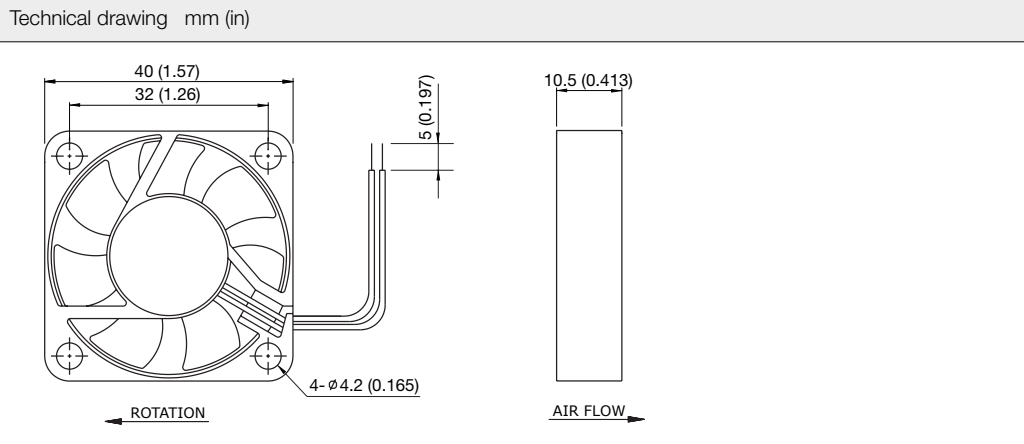


D04E05HWHT00

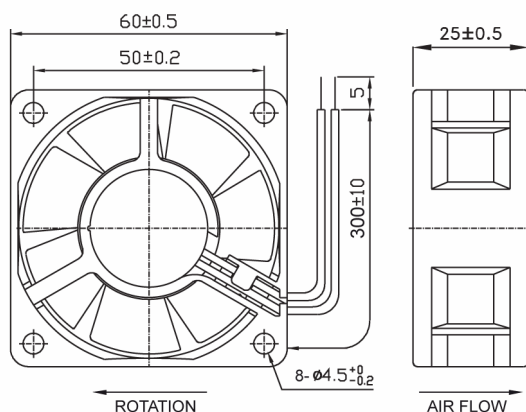
DC axial fans



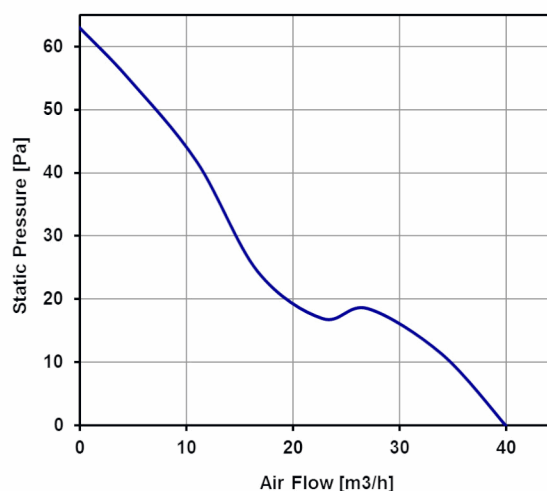
Technical data		
Life Expectancy	50000	h at 25 °C
	50000	h at 77 °F
Fan Noise	30.5	dB(A)
Cable Length	300	mm
	11.81	in
Fixing System	Screws	
ENVIRONMENTAL AND THERMAL DATA		
IP Protection Degree	IP20	
Operating Temperature	-10÷70	°C
	14÷158	°F
Storage Temperature	-40÷70	°C
	-40÷158	°F
UL DATA		
UL File Number Recognized Component	E223195	

# "D06A04HWSA00" COSTECH FAN

Description: **d.c. axial fan 60x60x25 mm**



<b>Casing material:</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Impeller material:</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Protection degree:</b>	IP20, according to EN 60529 standard
<b>Fixing system:</b>	by 2x 4 holes Ø4,5mm
<b>Storage temperature:</b>	from -40°C to +70°C
<b>Operating temperature:</b>	from -10°C to +70°C
<b>Lifetime L10 at 40°C:</b>	40,000 h
<b>Electrical connection:</b>	2 leads 24AWG UL 1007, 300 mm long
<b>Weight:</b>	62g
<b>Motor protection:</b>	by IC
<b>Polarity protection</b>	no



Model	Bearing	Voltage	Rated Current	Rated Power	Max Air Flow	Static Pressure	Noise	RPM	Approvals
		(V)	(A)	(W)	(m3/h)	(Pa)	[db(A)]	(rpm)	
D06A04HWSA00	Hypro	12 V d.c.	0.230	2.76	40	63	33.1	4,500	CE; cURus

D06A05HWBA00

DC axial fans



Axial fans provide forced-air cooling solution to temperature-sensitive applications. Compact fans with AC shaded pole or capacitor and DC brushless motor are designed for ventilation and spot cooling of internal machinery components, especially in areas in confined spaces. Available also versions tested to withstand harsh environmental conditions (IP55, IP68, all metal and HTR fans).

Technical data		
APPROVALS		
Approvals	CE; cURus	
PERFORMANCE		
Max Airflow	40	m³/h
	24	CFM
Max Static Pressure	63	Pa
	0.25	in H2O
RPM	4500	RPM
ELECTRICAL DATA		
Rated Voltage	24	V d.c.
Rated Current	0.12	A
Rated Power	2.88	W
Operating Voltage	21.6-26.4	V d.c.
Starting Voltage	17	V d.c.
Insulation Class	A	
Motor Protection	Electronically Protected	
MECHANICAL DATA		
Bearing	Ball Bearing	
GENERIC DATA		
Casing Material	Plastic UL94-V0	
Airflow Direction	Air exhaust over brackets	
Electrical Connection	Wires	

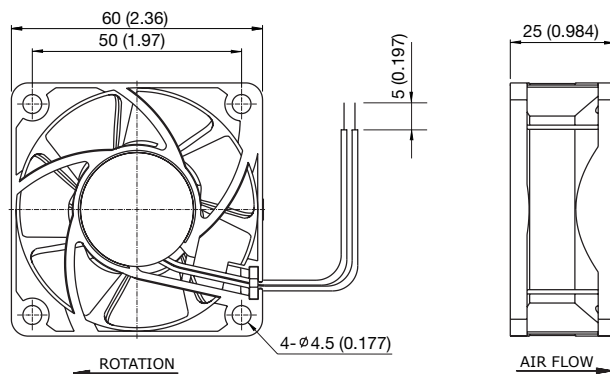
D06A05HWBA00

DC axial fans

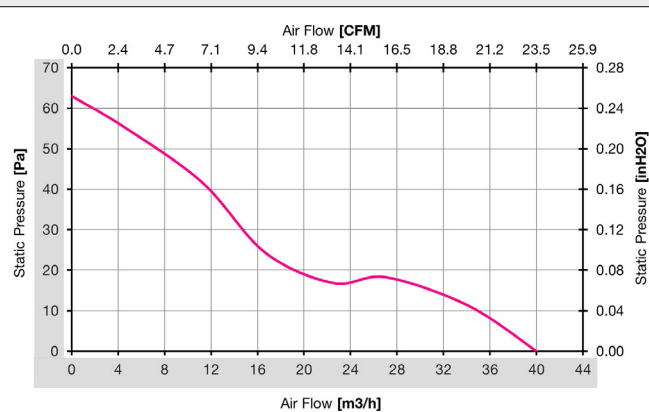
### Technical data

Life Expectancy	70000	h at 40 °C
	70000	h at 104 °F
Fan Noise	33.1	dB(A)
Cable Length	300	mm
	11.81	in
Fixing System	Screws	
ENVIRONMENTAL AND THERMAL DATA		
IP Protection Degree	IP20	
Operating Temperature	-10÷70	°C
	14÷158	°F
Storage Temperature	-40÷70	°C
	-40÷158	°F
UL DATA		
UL File Number Recognized Component	E223195	

### Technical drawing mm (in)



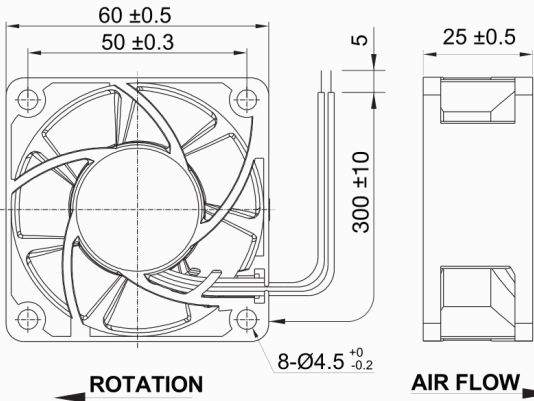
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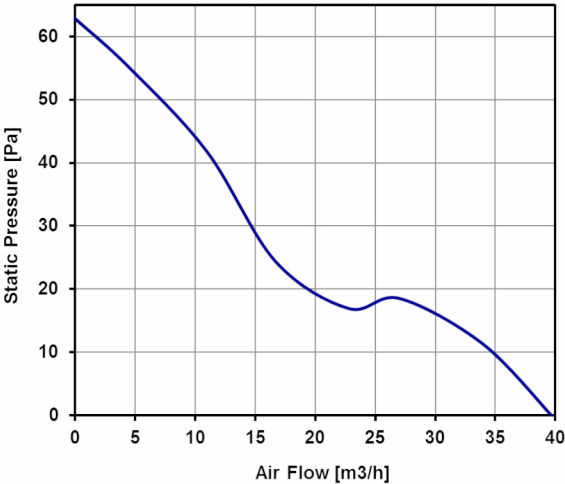


"D06A05HWA00" COSTECH FAN

Description: **d.c. axial fan 60x60x25 mm**



<b>Casing material:</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Impeller material:</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Protection degree:</b>	IP20, according to EN 60529 standard
<b>Fixing system:</b>	by 2x 4 holes $\varnothing 4,5$ mm
<b>Storage temperature:</b>	from $-40^{\circ}\text{C}$ to $+70^{\circ}\text{C}$
<b>Rated temperature range:</b>	from $-10^{\circ}\text{C}$ to $+70^{\circ}\text{C}$
<b>Lifetime L10 at <math>40^{\circ}\text{C}</math>:</b>	40,000 h
<b>Electrical connection:</b>	2 leads 24AWG UL 1007, 300 mm long
<b>Weight:</b>	62g
<b>Motor protection:</b>	by IC
<b>Polarity protection</b>	no

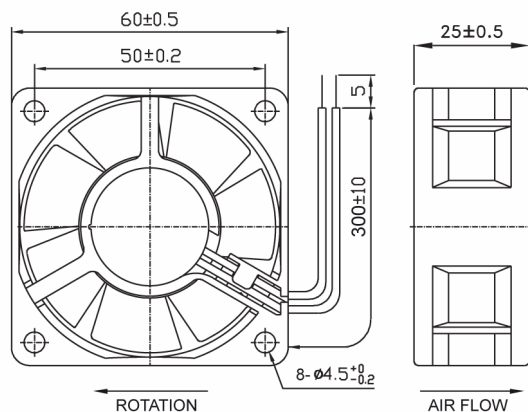


Model	Bearing	Voltage	Rated Current	Rated Power	Max Air Flow	Static Pressure	Noise	RPM	Approvals
		(V)	(A)	(W)	(m3/h)	(Pa)	[db(A)]	(rpm)	
D06A05HWA00	Hypro	24 V d.c.	0.12	2.88	40	63	33.1	4,500	CE; cURus

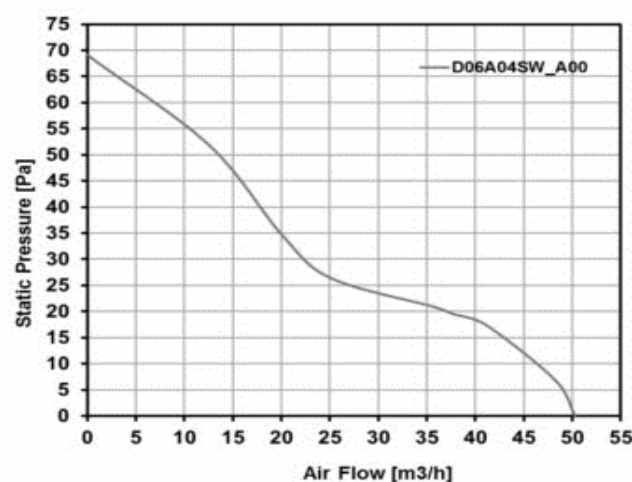
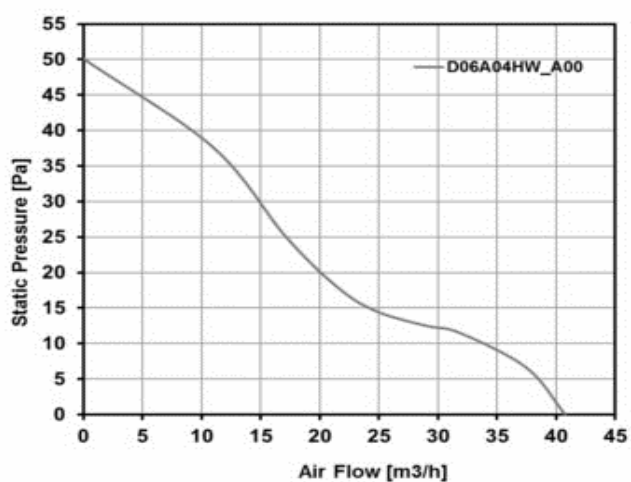
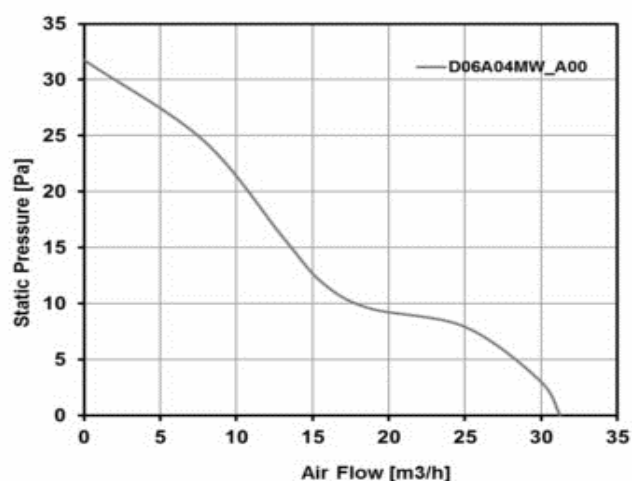
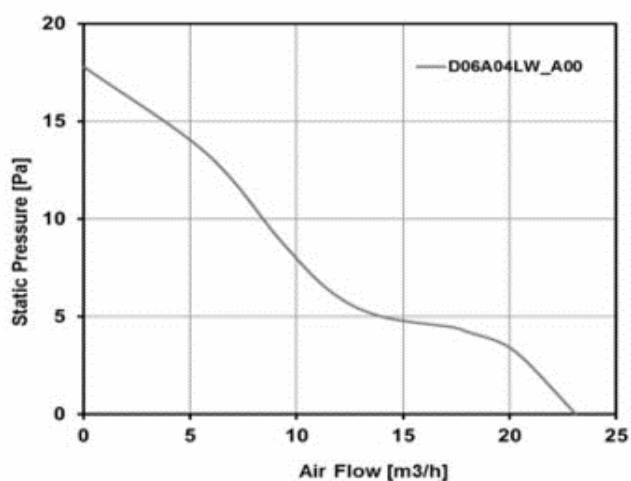
data with uncertainty of 10%

## "D06AA" SERIES COSTECH FANS

Description: c.c. axial fan 60x60x25 mm



<b>Casing material:</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Impeller material:</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Protection degree:</b>	IP20, according to EN 60529 standard
<b>Fixing system:</b>	by No. 4 M4 screws
<b>Storage temperature:</b>	from -40°C to +70°C
<b>Rated temperature range:</b>	from -10°C to +70°C
<b>Lifetime L10 at 40°C:</b>	Sleeve 22,000 h ; Ball 70,000 h
<b>Electrical connection:</b>	2 leads 24AWG UL 1007, 300 mm long
<b>Weight:</b>	68 g

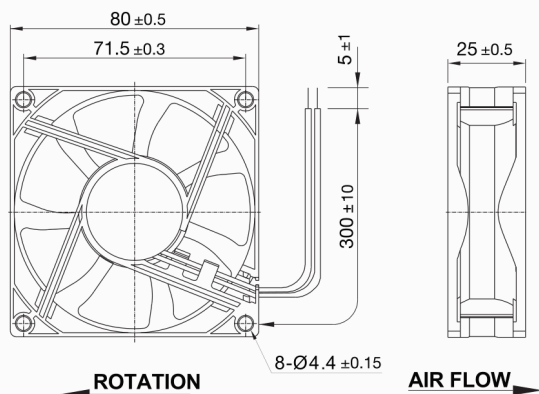




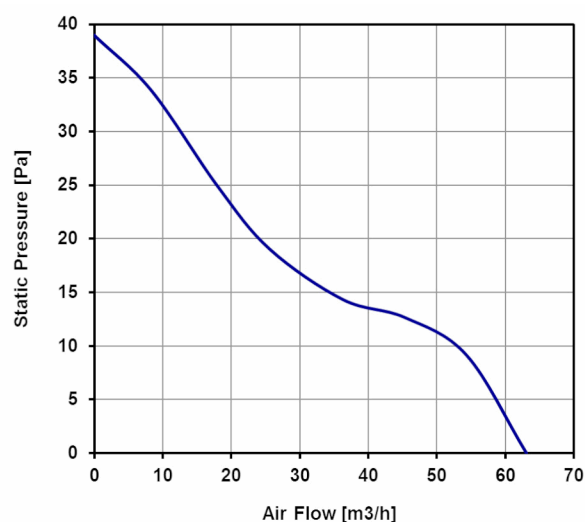
Model	Bearing	Voltage	Rated Current	Rated Power	Max Air Flow**	Static Pressure	Noise	RPM	Approvals
		(V)	(A)	(W)	(m3/h)	(Pa)	[db(A)]	(rpm)	
D06A04HWBA00	Ball	12 V d.c.	0.230	2.8	42	50	36.8	4,600	CE; cURus
D06A04HWSA00	Sleeve	12 V d.c.	0.230	2.8	42	50	35.2	4,500	CE; cURus
D06A04LWBA00	Ball	12 V d.c.	0.080	0.96	23	18	20.6	2,700	CE; cURus
D06A04LWSA00	Sleeve	12 V d.c.	0.080	0.96	22	16	18.1	2,500	CE; UR
D06A04MWBA00	Ball	12 V d.c.	0.140	1.7	32	32	29.8	3,600	CE; UR
D06A04MWSA00	Sleeve	12 V d.c.	0.140	1.7	31	30	28.6	3,500	CE; UR
D06A04SWBA00	Ball	12 V d.c.	0.270	3.2	50	67	40.5	5,300	CE; cURus
D06A04SWSA00	Sleeve	12 V d.c.	0.350	4.2	46	57	40.0	5,000	CE; cURus
D06A05HWBA00	Ball	24 V d.c.	0.150	3.6	42	50	35.2	4,500	CE; cURus
D06A05HWSA00	Sleeve	24 V d.c.	0.150	3.6	42	50	35.2	4,500	CE; cURus
D06A05LWBA00	Ball	24 V d.c.	0.080	1.9	22	16	18.1	2,500	CE; UR
D06A05LWSA00	Sleeve	24 V d.c.	0.080	1.9	22	16	18.1	2,500	CE; UR
D06A05MWBA00	Ball	24 V d.c.	0.080	1.9	31	30	28.6	3,500	CE; UR
D06A05MWSA00	Sleeve	24 V d.c.	0.080	1.9	31	30	28.6	3,500	CE; UR
D06A05SWBA00	Ball	24 V d.c.	0.160	3.8	47	60	37.6	5,000	CE; cURus
D06A05SWSA00	Sleeve	24 V d.c.	0.160	3.8	47	60	37.6	5,000	CE; cURus

# "D08A04HWBAF0" COSTECH FAN IP68

Description: **d.c. axial fan 80x80x25 mm**



<b>Casing material:</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Impeller material</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Protection degree:</b>	IP68, according to EN 60529 standard
<b>Fixing system:</b>	by 2x4 holes Ø4.4 mm
<b>Motor protection:</b>	by IC
<b>Electrical connection:</b>	2 lead wires 24AWG UL 1430, length 300 mm
<b>Polarity protection:</b>	yes
<b>Storage temperature:</b>	from -40°C to +70 °C
<b>Rated temperature range:</b>	from -10°C to +70 °C
<b>Lifetime L10 at 40°C:</b>	70,000 h
<b>Weight:</b>	72 g
<b>Approvals:</b>	CE, UL E223195

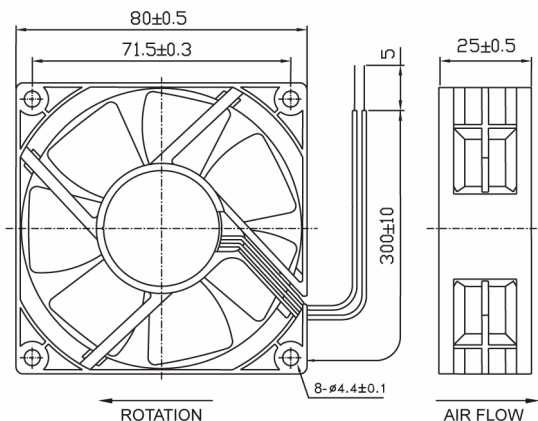


Model	Bearing	Voltage	Rated Current	Rated Power	Max Air Flow	Static Pressure	Noise	RPM	Approvals
		(V)	(A)	(W)	(m3/h)	(Pa)	[db(A)]	(rpm)	
D08A04HWBAF0	Ball	12 V d.c.	0.18	2.16	63	39	35.8	3,000	CE; cURus

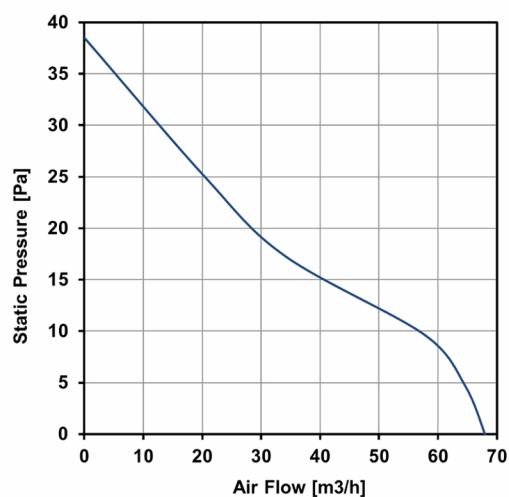


# COSTECH FAN

Description: **d.c. axial fan 80x80x25 mm**



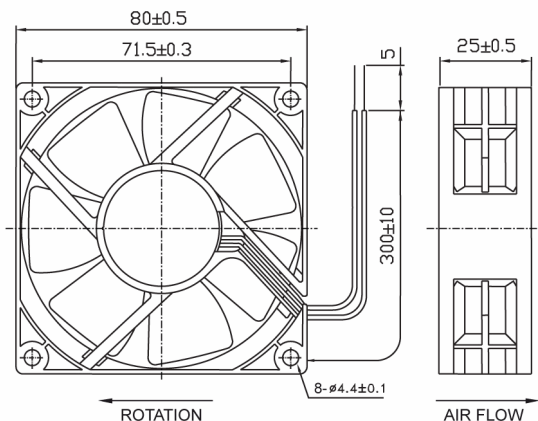
<b>Casing material:</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Impeller material</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Protection degree:</b>	IP20, according to EN 60529 standard
<b>Fixing system:</b>	by 2x4 holes Ø4.4mm
<b>Motor protection:</b>	by IC
<b>Storage temperature:</b>	from -40°C to +70°C
<b>Rated temperature range:</b>	from -10°C to +70°C
<b>Lifetime L10 at 40°C:</b>	70,000 h
<b>Electrical connection:</b>	2 lead wires 24AWG UL 1007, length 300mm
<b>Approvals:</b>	UL E223195
<b>Weight:</b>	86g



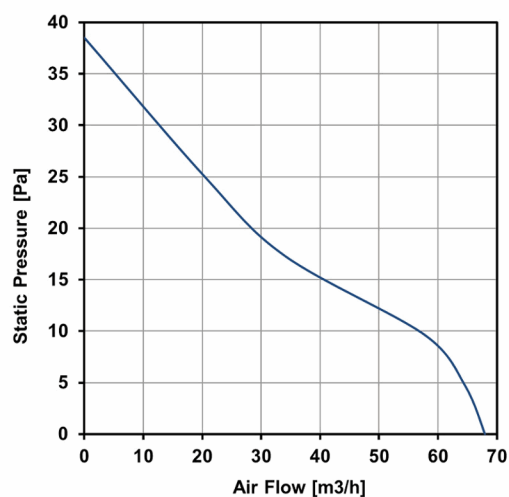
Model	Bearing	Voltage	Rated Current	Rated Power	Max Air Flow	Static Pressure	Noise	RPM	Approvals
		(V)	(A)	(W)	(m3/h)	(Pa)	[db(A)]	(rpm)	
D08A05HWBA00	Ball	24 V d.c.	0.160	3.84	68	38	33.4	3,000	CE; UR

# COSTECH FAN

Description: **d.c. axial fan 80x80x25 mm**



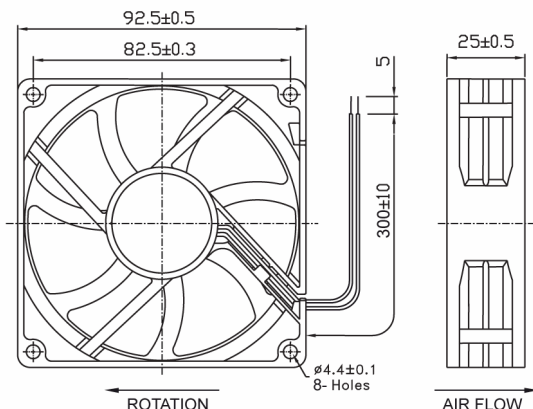
<b>Casing material:</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Impeller material</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Protection degree:</b>	IP20, according to EN 60529 standard
<b>Fixing system:</b>	by 2x4 holes Ø4.4mm
<b>Motor protection:</b>	by IC
<b>Storage temperature:</b>	from -40°C to +70°C
<b>Rated temperature range:</b>	from -10°C to +70°C
<b>Lifetime L10 at 40°C:</b>	30,000 h
<b>Electrical connection:</b>	2 lead wires 24AWG UL 1007, length 300mm
<b>Approvals:</b>	UL E223195
<b>Weight:</b>	86g



Model	Bearing	Voltage	Rated Current	Rated Power	Max Air Flow	Static Pressure	Noise	RPM	Approvals
		(V)	(A)	(W)	(m3/h)	(Pa)	[db(A)]	(rpm)	
D08A05HWSA00	Sleeve	24 V d.c.	0.160	3.84	68	38	33.4	3,000	CE; UR

## "D09AZ" SERIES COSTECH FANS

Description: **d.c. axial fan 92x92x25 mm**



**Casing material:**

Black fibreglass reinforced plastic (PBT)  
UL 94V-0

**Impeller material:**

Black fibreglass reinforced plastic (PBT)  
UL 94V-0

**Protection degree:**

IP20, according to EN 60529 standard

**Fixing system:**

by No 4x 4 holes Ø 4.4 mm

**Motor protection:**

impedance and IC depending on the model

**Insulation class:**

A

**Storage temperature:**

from -40°C to +70°C

**Rated temperature range:**

from -10°C to +70°C

**Lifetime L10 at 40°C:**

70,000 h ball bearing  
30,000 h sleeve bearing

**Electrical connection:**

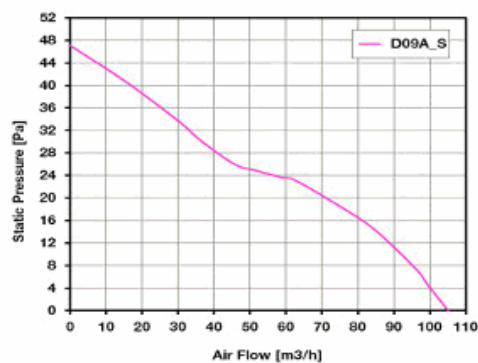
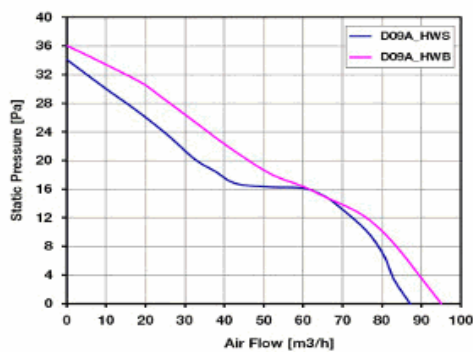
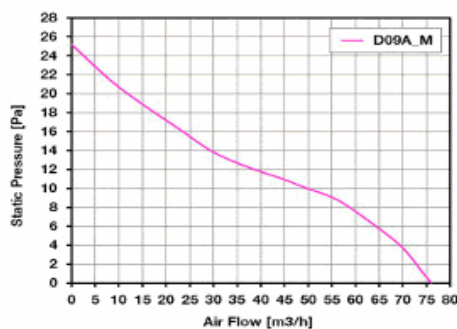
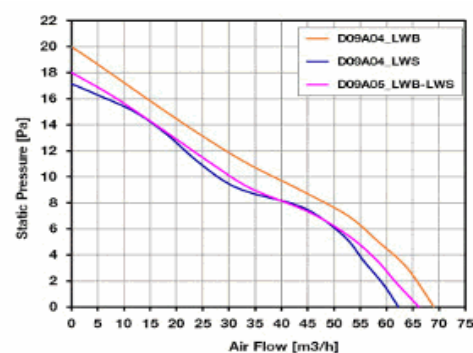
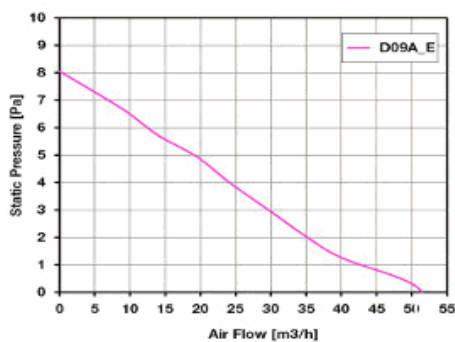
2 leads 24 AWG UL 1007, 300 mm long

**Weight:**

92 g

**Approvals:**

CE; UL E223195



Model	Bearing	Voltage	Rated Current	Rated Power	Max Air Flow**	Static Pressure	Noise	RPM	Approvals
		(V)	(A)	(W)	(m3/h)	(Pa)	[db(A)]	(rpm)	
D09A04EWBZ00	Ball	12 V d.c.	0.090	1.08	51	8	19.1	1,600	CE; cURus
D09A04HWPBZ00	Ball	12 V d.c.	0.250	3.0	95	36	37.5	2,900	CE; cURus
D09A04HWSZ00	Sleeve	12 V d.c.	0.250	3.0	87	34	35.4	2,700	CE; cURus
D09A04LWPBZ00	Ball	12 V d.c.	0.130	1.56	69	20	29.2	2,100	CE; cURus
D09A04LWSZ00	Sleeve	12 V d.c.	0.130	1.56	62	17	25.9	2,000	CE; cURus
D09A04MWPBZ00	Ball	12 V d.c.	0.170	2.0	76	25	31.2	2,400	CE; cURus
D09A04MWSZ00	Sleeve	12 V d.c.	0.170	2.0	76	25	31.2	2,400	CE; cURus
D09A04SWPBZ00	Ball	12 V d.c.	0.390	4.7	105	47	39.4	3,300	CE; cURus
D09A04SWSZ00	Sleeve	12 V d.c.	0.390	4.7	105	47	42.2	3,300	CE; cURus
D09A05HWPBZ00	Ball	24 V d.c.	0.150	3.6	95	36	37.5	2,900	CE; cURus
D09A05HWSZ00	Sleeve	24 V d.c.	0.150	3.6	87	34	35.4	2,700	CE; cURus
D09A05LWPBZ00	Ball	24 V d.c.	0.080	1.9	66	18	28.7	2,000	CE; cURus
D09A05LWSZ00	Sleeve	24 V d.c.	0.080	1.9	66	18	28.7	2,000	CE; cURus
D09A05MWPBZ00	Ball	24 V d.c.	0.121	2.9	76	25	31.2	2,400	CE; cURus
D09A05MWSZ00	Sleeve	24 V d.c.	0.121	2.9	76	25	31.2	2,400	CE; cURus
D09A05SWPBZ00	Ball	24 V d.c.	0.210	5.0	105	47	42.2	3,300	CE; cURus
D09A05SWSZ00	Sleeve	24 V d.c.	0.210	5.0	105	47	42.2	3,300	CE; cURus

D12A05HWPZ00

DC axial fans



Axial fans provide forced-air cooling solution to temperature-sensitive applications. Compact fans with AC shaded pole or capacitor and DC brushless motor are designed for ventilation and spot cooling of internal machinery components, especially in areas in confined spaces. Available also versions tested to withstand harsh environmental conditions (IP55, IP68, all metal and HTR fans).

Technical data		
APPROVALS		
Approvals	CE; cURus	
PERFORMANCE		
Max Airflow	134	m³/h
	79	CFM
Max Static Pressure	35	Pa
	0.14	in H2O
RPM	2200	RPM
ELECTRICAL DATA		
Rated Voltage	24	V d.c.
Rated Current	0.19	A
Rated Power	4.56	W
Operating Voltage	21.6-24.6	V d.c.
Starting Voltage	17	V d.c.
Insulation Class	A	
Motor Protection	Electronically Protected	
MECHANICAL DATA		
Bearing	Ball Bearing	
GENERIC DATA		
Casing Material	Plastic UL94-V0	
Airflow Direction	Air intake over brackets	
Electrical Connection	Wires	

## D12A05HWBZ00

## DC axial fans

## Technical data

Life Expectancy	70000	h at 40 °C
	70000	h at 104 °F
Fan Noise	39.3	dB(A)
Cable Length	300	mm
	11.81	in
Fixing System	Screws	

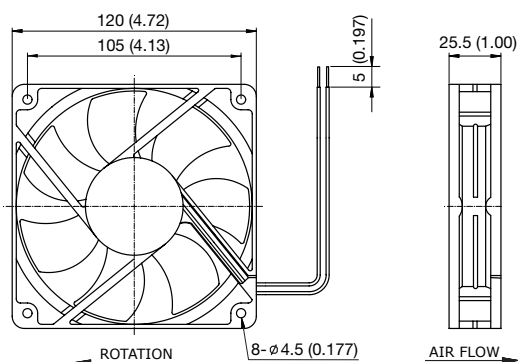
## ENVIRONMENTAL AND THERMAL DATA

IP Protection Degree	IP20	
Operating Temperature	-10÷70	°C
	14÷158	°F
Storage Temperature	-40÷70	°C
	-40÷158	°F

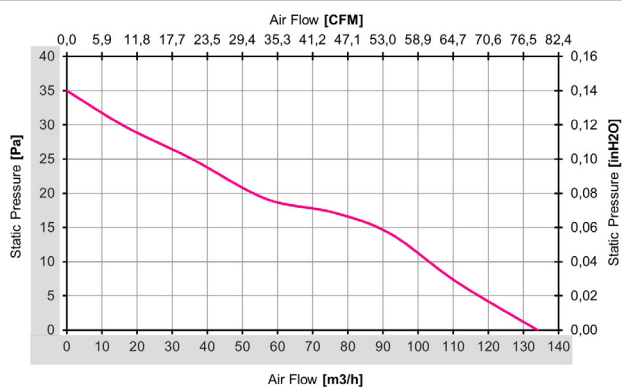
## UL DATA

UL File Number Recognized Component	E223195	
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## Technical drawing mm (in)



## Air Performance



D12B04HWBZ00

DC axial fans



Axial fans provide forced-air cooling solution to temperature-sensitive applications. Compact fans with AC shaded pole or capacitor and DC brushless motor are designed for ventilation and spot cooling of internal machinery components, especially in areas in confined spaces. Available also versions tested to withstand harsh environmental conditions (IP55, IP68, all metal and HTR fans).

Technical data		
APPROVALS		
Approvals	CE; UR	
PERFORMANCE		
Max Airflow	179	m <sup>3</sup> /h
	105	CFM
Max Static Pressure	66	Pa
	0.26	in H <sub>2</sub> O
RPM	2800	RPM
ELECTRICAL DATA		
Rated Voltage	12	V d.c.
Rated Current	0.5	A
Rated Power	6	W
Operating Voltage	10.8-13.2	V d.c.
Starting Voltage	7	V d.c.
Motor Protection	Electronically Protected	
MECHANICAL DATA		
Bearing	Ball Bearing	
GENERIC DATA		
Casing Material	Plastic UL94-V0	
Airflow Direction	Air intake over brackets	
Electrical Connection	Wires	

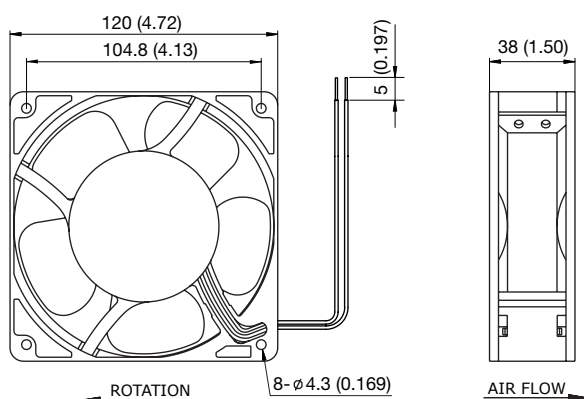
D12B04HWPZ00

DC axial fans

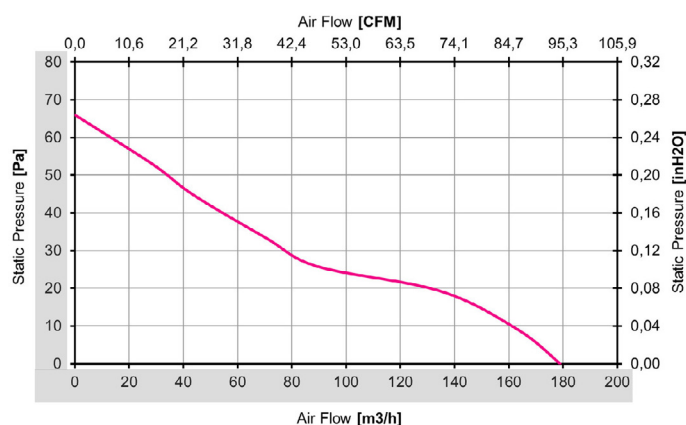
### Technical data

Life Expectancy	70000	h at 40 °C
	70000	h at 104 °F
Fan Noise	46.7	dB(A)
Fixing System	Screws	
UL DATA		
UL File Number Recognized Component	E223195	

### Technical drawing mm (in)



### Air Performance





D12B05HWBZ00

DC axial fans



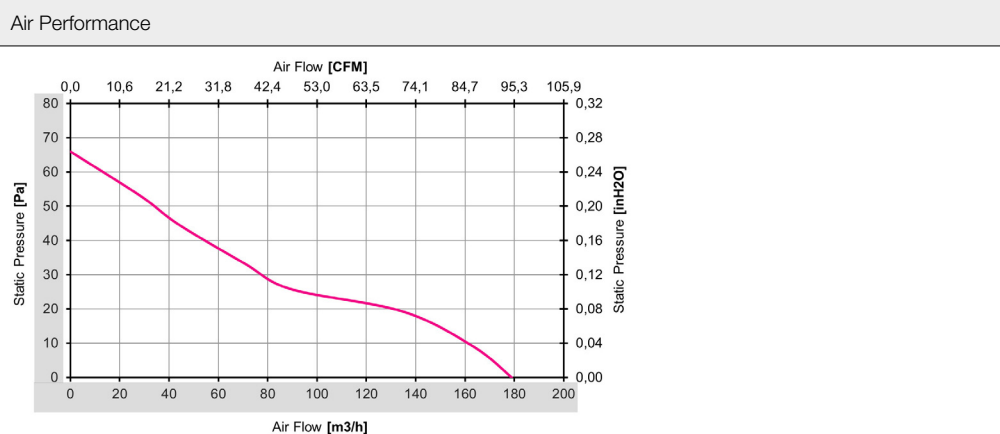
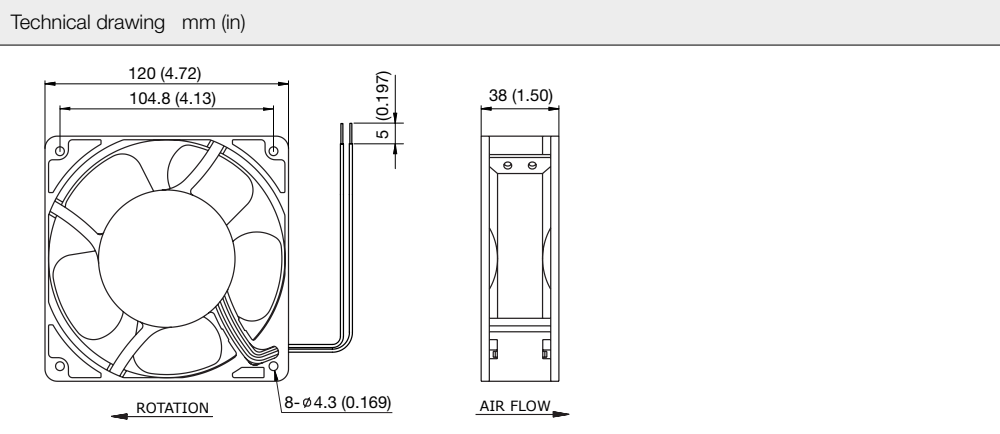
Axial fans provide forced-air cooling solution to temperature-sensitive applications. Compact fans with AC shaded pole or capacitor and DC brushless motor are designed for ventilation and spot cooling of internal machinery components, especially in areas in confined spaces. Available also versions tested to withstand harsh environmental conditions (IP55, IP68, all metal and HTR fans).

Technical data		
APPROVALS		
Approvals	CE; cURus	
PERFORMANCE		
Max Airflow	179	m³/h
	105	CFM
Max Static Pressure	66	Pa
	0.26	in H2O
RPM	2800	RPM
ELECTRICAL DATA		
Rated Voltage	24	V d.c.
Rated Current	0.32	A
Rated Power	7.68	W
Operating Voltage	21.6-26.4	V d.c.
Starting Voltage	17	V d.c.
Insulation Class	A	
Motor Protection	Electronically Protected	
MECHANICAL DATA		
Bearing	Ball Bearing	
GENERIC DATA		
Casing Material	Plastic UL94-V0	
Airflow Direction	Air intake over brackets	
Electrical Connection	Wires	

## D12B05HWBZ00

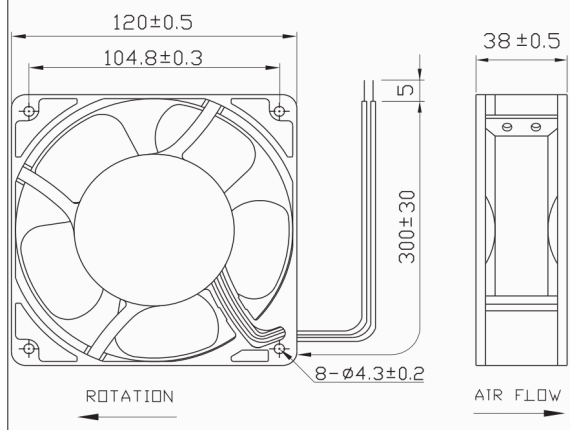
## DC axial fans

Technical data		
Life Expectancy	70000	h at 40 °C
	70000	h at 104 °F
Fan Noise	46.7	dB(A)
Cable Length	300	mm
	11.81	in
Fixing System	Screws	
ENVIRONMENTAL AND THERMAL DATA		
IP Protection Degree	IP20	
Operating Temperature	-10÷70	°C
	14÷158	°F
Storage Temperature	-40÷70	°C
	-40÷158	°F
UL DATA		
UL File Number Recognized Component	E223195	

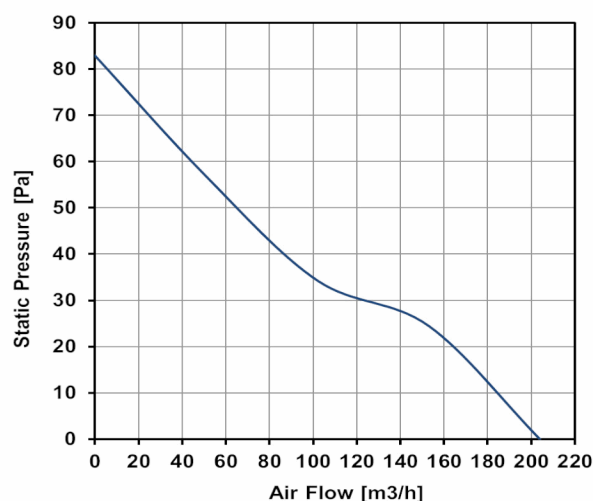


# "D12B05SWBZ00" SERIES COSTECH FANS

Description: **d.c. axial fan 120x120x38mm**



<b>Casing material:</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Impeller material:</b>	Black fibreglass reinforced plastic (PBT) UL 94V-0
<b>Protection degree:</b>	IP52, according to EN 60529 standard
<b>Fixing system:</b>	by 2x 4 holes Ø4,3mm
<b>Motor protection:</b>	by IC
<b>Storage temperature:</b>	from -40°C to +70°C
<b>Rated temperature range:</b>	from -10°C to +70°C
<b>Lifetime L10 at 40°C:</b>	70,000 h
<b>Electrical connection:</b>	2 leads 24AWG UL 1007, 300mm long
<b>Weight:</b>	235g
<b>Polarity protection</b>	yes

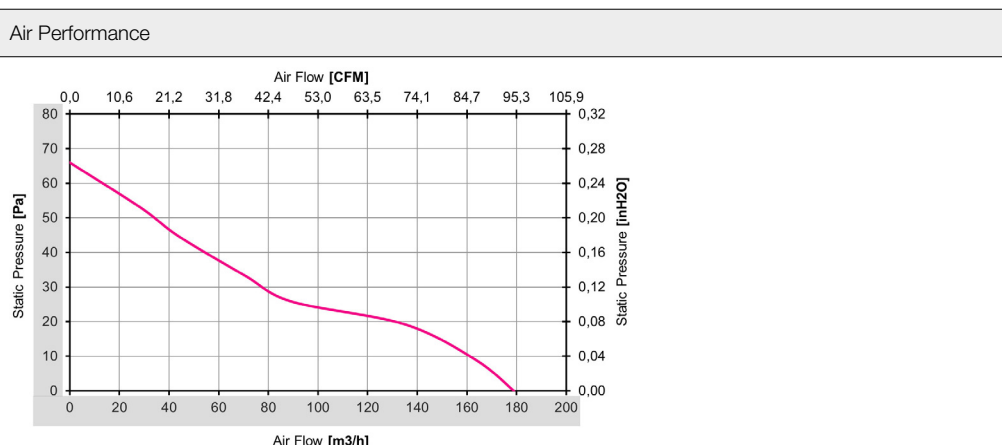
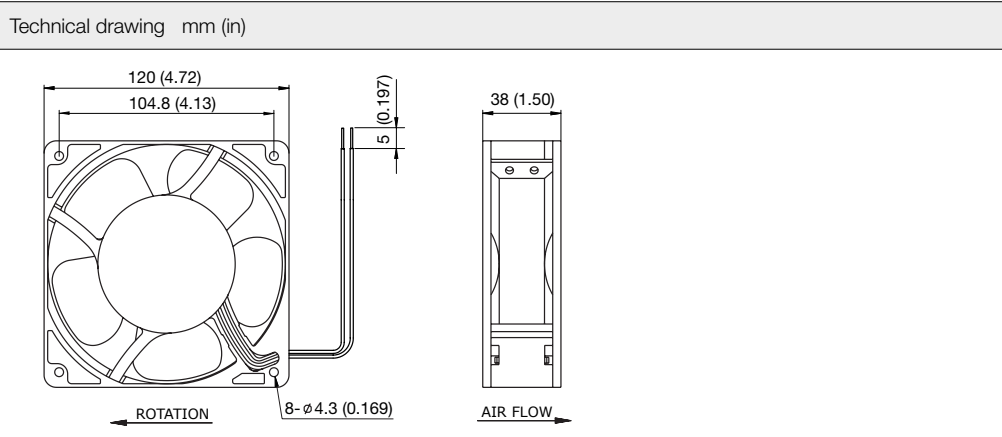


Model	Bearing	Voltage	Rated Current	Rated Power	Max Air Flow	Static Pressure	Noise	RPM	Approvals
		(V)	(A)	(W)	(m3/h)	(Pa)	[db(A)]	(rpm)	
D12B05SWBZ00	Ball	24 V d.c.	0.400	9.6	204	83	48.0	3,200	CE; cURus

D12B07HWBA00

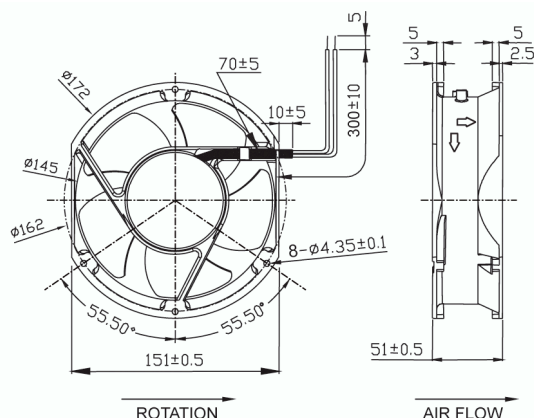
DC axial fans

Technical data		
Life Expectancy	70000	h at 40 °C
	70000	h at 104 °F
Fan Noise	46.7	dB(A)
Cable Length	280	mm
	11.02	in
Fixing System	Screws	
ENVIRONMENTAL AND THERMAL DATA		
IP Protection Degree	IP20	
Operating Temperature	-10÷70	°C
	14÷158	°F
Storage Temperature	-40÷70	°C
	-40÷158	°F
UL DATA		
UL File Number Recognized Component	E223195	

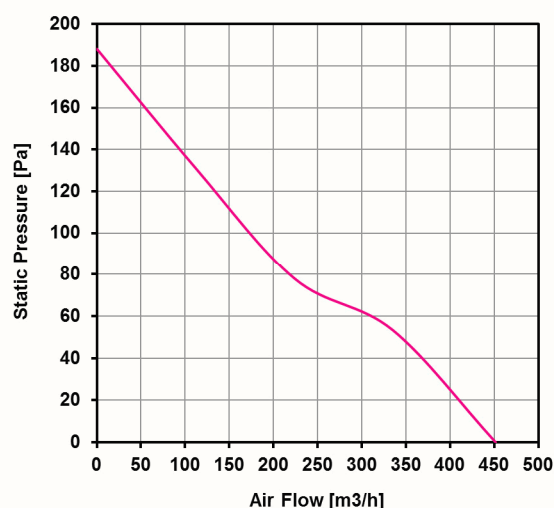


## "D17CA" SERIES COSTECH FANS

Description: **Axial c.c. 172x150x51 mm**



<b>Casing material:</b>	aluminum alloy
<b>Impeller material</b>	UL 94V-0 glass filled polyester (PBT)
<b>Protection degree:</b>	IP20, according to EN 60529 standard
<b>Fixing system:</b>	by No. 4 M4 screws
<b>Motor protection:</b>	IC
<b>Storage temperature:</b>	from -40°C to +70°C
<b>Rated temperature range:</b>	from -10°C to +70°C
<b>Lifetime L10 at 40°C:</b>	70,000 h
<b>Electrical connection:</b>	2 leads 22AWG UL 1061, 300 mm long.
<b>Approvals:</b>	UL E223195
<b>Weight:</b>	762g



Model	Bearing	Voltage	Rated Current	Rated Power	Max Air Flow**	Static Pressure	Noise	RPM	Approvals
		(V)	(A)	(W)	(m3/h)	(Pa)	[db(A)]	(rpm)	
D17C05HWBA00	Ball	24 V d.c.	1.0	24	450	190	60.0	3,500	CE; cURus
D17C07HWBA00	Ball	48 V d.c.	0.50	24	450	190	58.8	3,500	CE; cURus