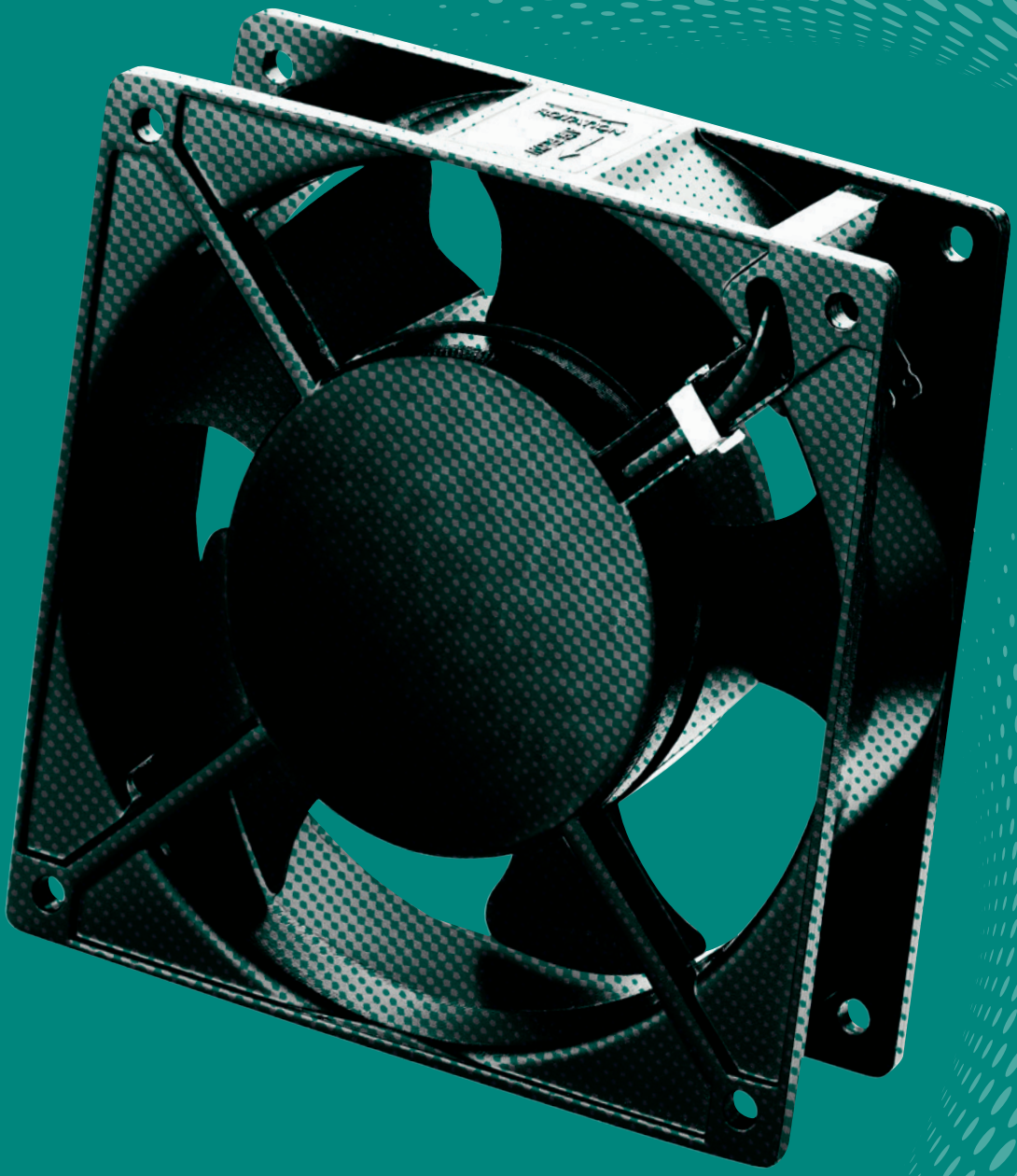


Air moving and spot cooling

esmeris
frame fans

STANDARD FRAME FANS

Axial fans and blowers provide forced-air cooling solution to temperature-sensitive applications. The large airflow and low noise axial fans are designed for ventilation and spot cooling of internal machinery components, especially in areas with confined spaces. Blowers, on the other hands, produce more concentrated airflow and are suitable to work with high impedance systems.
A variety of AC, DC and energy-efficiency EC fans in different sizes, air volumes and pressures satisfies each industrial requirements.

MOTOR TYPE
AC shaded pole or capacitor, or alternatively with brushless DC motor

ELECTRICAL CONNECTION
Wires or terminal

FAN DESIGN
With or without external casing

SUPPORT SYSTEM
Long life ball bearing or quiet operation sleeve bearing

ENERGY EFFICIENCY
EC green technology for high performance

DC SIGNALS
Alarm or speed sensor provided by a separate wire

Details that make the difference


Frameless version


Blower


Fan filter kit

Model numbering system for Standard Frame fans

description	A	12	B	23	H	T	B	W	00	description

MOTOR TYPE
A = a.c. shaded pole motor
C = a.c. capacitor run induction motor
D = d.c. brushless

CASING SIZE
01 = 15x15 mm axial fan
20 = 20x20 mm axial fan
02 = 25x25 mm axial fan
03 = 30x30 mm axial fan
35 = 35x35 mm axial fan
04 = 40x40 mm axial fan
45 = 45x45 mm axial fan
50 = 50x50 mm axial fan
06 = 60x60 mm axial fan
07 = 70x70 mm axial fan
08 = 80x80 mm axial fan
09 = 92x92 mm axial fan
12 = 120x120 mm axial fan
13 = 127x127 mm axial fan
17 = 172x150 mm axial fan
18 = ø 172 mm axial fan
22 = 218x218 mm axial fan
25 = 280x280 mm axial fan
C1 = 120x120 mm blower
C6 = 75x75 mm blower

CASING THICKNESS
N = 6.5 mm
E = 10 mm
F = 15 mm
D = 20 mm
A = 25 mm
G = 30-32 mm
B = 38 mm standard flow
R = 38 mm reverse flow
C = 50-52 mm
M = 55 mm
S = 83 mm
W = without casing, standard flow
Z = without casing, reverse flow

OPTIONS
00 = no option
A = alarm output
S = speed signal output
I = variable speed with integrated
V = variable speed with external termistor
M = digital PWM speed control
T = for high temperature ambient
F = motor IP55 protected
H = motor IP25 protected
Wnn = wires lenght out of standard
Qnn = special version

DESIGN

BEARING TYPE
B = shielded ball S = sleeve

CONNECTION
K = terminal block
T = flat terminals 110 series (2.8x0.5 mm)
W = lead wires

SPEED
E = extra low V = very low L = low
M = medium H = high S = super high

RATED VOLTAGE
01 = 5 V d.c.
04 = 12 V d.c.
05 = 24 V d.c. / V a.c.
07 = 48 V d.c.
12 = 115 V a.c.
23 = 230 V a.c.
40 = 400 V a.c. 3-phase

Model numbering system for Standard Frame fans (NEW)

description	A	12	B	23	H	T	B	A	5	0	-	R	F	T	0	-	Wxx	description

FAN TYPE
A = axial shaded pole
B = blower d.c. brushless
C = axial a.c. capacitor run induction motor
D = axial d.c. brushless
E = axial EC fan
J = blower a.c. capacitor run induction motor
P = chip cooler d.c. brushless
R = blower a.c.

CASING SIZE
01 = 15x15 mm
20 = 20x20 mm
02 = 25x25 mm
03 = 30x30 mm
35 = 35x35 mm
04 = 40x40 mm
45 = 45x45 mm
50 = 50x50 mm
06 = 60x60 mm
07 = 70x70 mm
75 = 75x75 mm
08 = 80x80 mm
09 = 92x92 mm
97 = 97x97 or 97x94 mm (blower)
12 = 120x120 mm
13 = 127x127 mm
17 = 172x150 mm
18 = ø 172 mm
22 = 218x218 mm
25 = 280x280 mm

CASING THICKNESS
N = 6.5 mm
E = 10 mm
F = 15 mm
D = 20 mm
A = 25 mm
J = 28 mm
G = 30-32 mm
B = 38 mm
C = 50-52 mm
M = 55 mm
S = 83 mm

RATED VOLTAGE
01 = 5 V d.c.
04 = 12 V d.c.
05 = 24 V d.c. / V a.c.
07 = 48 V d.c.
12 = 115 V a.c.
23 = 230 V a.c.
30 = 115-230 V a.c.
40 = 400 V a.c. 3-phase

SPEED
E = extra low V = very low L = low
M = medium H = high S = super high
U = ultra high I = hyper high

CONNECTION
K = terminal block
T = flat terminal
W = wires

BEARING TYPE
B = ball S = sleeve

CUSTOMIZATION
Wxx = wire lenght not standard
Qxx = special version

FREE PROGRESSIVE DIGIT
( ) = standard
0-9 = progressive

HIGH TEMPERATURE
( ) = standard temperature
T = high temperature

IP PROTECTION
( ) = IP20
F = IP55 coated
P = IP55 parylene
G = IP58

AIR FLOW DIRECTION
( ) = standard flow with casing
R = reverse flow with casing
W = standard flow without casing
Z = reverse flow without casing

OPTIONS
0 = by impedance
1 = by IC
2 = by IC with alarm (RD)
3 = by IC with speed sensor (FG)
4 = by IC variable speed sensor (VS)
6 = by transistor with speed sensor (FG)
7 = two speed
8 = VS + FG
9 = PWM control
A = VS + RD
B = PWM + FG
C = RD + FG
D = thermally protected
F = PWM + RD

BLADES NUMBER
5 = 5
7 = 7
9 = 9
A = 11
B = 13
C = 15
D = 17
E = 19
F = 21
0 = blower blade shape

DESIGN

PRODUCTS OVERVIEW

Model	Dimensions	Voltage	Rated Power	Air Flow	Noise	Page
	mm	V	W	m^3/h	dB(A)	
AC AXIAL FANS						
A06GF	60x60x30	115/230 Va.c.	4 ÷ 5	14 ÷ 17	27 ÷ 28	92
A08AF	80x80x25	115/230 Va.c.	11 ÷ 16	36 ÷ 41	32 ÷ 35	93
A08BF	80x80x38	115/230 Va.c.	9 ÷ 14	33 ÷ 41	28 ÷ 36	94
A09AF	92x92x25	115/230 Va.c.	11 ÷ 16	39 ÷ 68	28 ÷ 36	95
A12AF	120x120x25	115/230 Va.c.	11 ÷ 16	87 ÷ 117	33 ÷ 42	96
A12BW	120x120x38	24/115/230 Va.c.	6 ÷ 24	83 ÷ 199	28 ÷ 50	97
A12RW	120x120x38	230 Va.c.	19 ÷ 20	150 ÷ 167	48 ÷ 54	99
A12ZWW	ø 113x38	115/230V a.c.	18 ÷ 22	148 ÷ 182	43 ÷ 50	100
A13BF	127x127x38	115/230V a.c.	15 ÷ 17	178 ÷ 204	46 ÷ 50	101
A17CF	172x150x51	115/230V a.c.	28 ÷ 35	290 ÷ 331	50 ÷ 55	102
C17BF	172x150x38	115/230V a.c.	26 ÷ 29	300 ÷ 360	54 ÷ 58	103
C17CF	172x150x51	115/230V a.c.	29 ÷ 31	348 ÷ 384	53 ÷ 58	104
C18CF	ø 172x51	115/230V a.c.	29 ÷ 31	348 ÷ 384	50 ÷ 55	105
C22SD	218x218x83	115/230V/400 Va.c.	78 ÷ 174	855 ÷ 970	61 ÷ 67	106
C22SU	218x218x83	115/230V a.c.	68 ÷ 85	800 ÷ 937	35 ÷ 68	107
C25SE	280x280x80	115/230/400 V a.c.	86 ÷ 138	1540 ÷ 1920	65 ÷ 79	108
C25SU	280x280x80	115/230V a.c.	130 ÷ 170	1450 ÷ 1835	68 ÷ 79	110
A12BA Q109	120x120x38	230 Va.c.	13 ÷ 14	110 ÷ 115	40 ÷ 41	111
EC FANS						
E08BL	80x80x38	115/230V a.c.	5 ÷ 5	64 ÷ 73	35 ÷ 39	112
E12BL	120x120x38	230 Va.c.	2.5 ÷ 6	132 ÷ 206	34 ÷ 47	112
DC AXIAL FANS						
D20EA	20x20x10	5/12 Vd.c.	0.4 ÷ 0.8	1 ÷ 1.4	15 ÷ 26	113
D02EZ	25x25x10	5/12 Vd.c.	0.5 ÷ 1	3.6 ÷ 4.3	23 ÷ 29	114
D03EA	30x30x10	5/12 Vd.c.	0.6÷ 0.7	5 ÷ 6.4	20 ÷ 28	115
D04ET	40x40x10	5/12/24 Vd.c.	1 ÷ 2.2	8.5 ÷ 11	22 ÷ 26	116
D04FA	40x40x15	12 Vd.c.	1 ÷ 1.4	11 ÷ 15	27 ÷ 39	117
D04DZ	40x40x20	24 Vd.c.	2.2 ÷ 2.2	15 ÷ 15	36 ÷ 36	118
D45EA	45x45x10	5/12 Vd.c.	0.2 ÷ 1	12 ÷ 15	22 ÷ 27	119
D50EA	50x50x10	12 Vd.c.	1.2 ÷ 1.4	10 ÷ 15	20 ÷ 24	120
D50FA	50x50x15	12 Vd.c.	1 ÷ 2.4	19 ÷ 29	25 ÷ 34	121
D06ET	60x60x10	5/12 Vd.c.	0.8 ÷ 1.8	20 ÷ 24	29 ÷ 33	122
D06FA	60x60x15	5/12/24 Vd.c.	1.3 ÷ 2.2	24 ÷ 27	31 ÷ 35	123
D06DA	60x60x20	12/24 Vd.c.	1 ÷ 1.9	21 ÷ 28	24 ÷ 31	124
D06AA	60x60x25	12/24 Vd.c.	1 ÷ 4.2	22 ÷ 50	18 ÷ 40	125
D07AA	70x70x25	12/24 Vd.c.	1.9 ÷ 3.1	55 ÷ 61	32 ÷ 36	126
D08FA	80x80x15	5/12/24 Vd.c.	0.4 ÷ 3.1	37 ÷ 51	26 ÷ 31	127
D08DA	80x80x20	12/24 Vd.c.	1.9 ÷ 3.6	40 ÷ 49	27 ÷ 35	128
D08AA	80x80x25	24/48 Vd.c.	2.2 ÷ 6.2	40 ÷ 89	23 ÷ 41	129
D09DA	92x92x20	12/24 Vd.c.	1.9 ÷ 3.4	49 ÷ 56	29 ÷ 33	130
D09AZ	92x92x25	12/24 Vd.c.	1.1 ÷ 5	51 ÷ 105	19 ÷ 42	131
D09BZ	92x92x38	24 Vd.c.	13.2 ÷ 13.2	185 ÷ 185	53 ÷ 53	132

PRODUCTS OVERVIEW

Model	Dimensions	Voltage	Rated Power	Air Flow	Noise	Page
	mm	V	W	m^3/h	dB(A)	
D12AZ	120x120x25	12/24/48 Vd.c.	2.9 ÷ 6	122 ÷ 168	34 ÷ 43	133
D12GA	120x120x32	24 Vd.c.	6 ÷ 6	190 ÷ 190	43 ÷ 43	134
D12BA9	120x120x38	24 Vd.c.	7 ÷ 24	220 ÷ 340	49 ÷ 61	135
D17CA	172x150x51	24/48 Vd.c.	24 ÷ 24	450 ÷ 450	59 ÷ 60	136
DC6GA	75x75x30	12/24 Vd.c.	2.4 ÷ 3.6	13 ÷ 18	35 ÷ 39	137
DC1GA	120x120x31	24 Vd.c.	9.4 ÷ 9.4	48 ÷ 48	49 ÷ 49	138
SPECIAL FANS						
A06 IP55	60x60x30	230 Va.c.	4 ÷ 5	14 ÷ 17	27 ÷ 28	142
A08 IP55	80x80x38	115/230 Va.c.	12 ÷ 14	41 ÷ 51	32 ÷ 36	142
A09 IP55	92x92x25	230 Va.c.	14 ÷ 16	56 ÷ 68	32 ÷ 36	142
A12 IP55	120x120x38	115/230 Va.c.	5.5 ÷ 20	78 ÷ 182	27 ÷ 49	142
A12W/Z IP55	ø113x38	230 Va.c.	18 ÷ 22	140 ÷ 200	42 ÷ 50	142
A17 IP55	172x150x55	115/230 Va.c.	42 ÷ 42	332 ÷ 391	49 ÷ 53	142
E12BL IP55	120x120x38	230 Va.c.	6 ÷ 7	190 ÷ 200	45 ÷ 47	143
D04D IP55	40x40x20	24 Vd.c.	2.2 ÷ 2.2	15 ÷ 15	36 ÷ 36	144
D04E IP55	40x40x10	24 Vd.c.	1.9 ÷ 1.9	8.5 ÷ 8.5	22 ÷ 22	144
D06 IP55	60x60x25	12/24 Vd.c.	0.96 ÷ 3.8	24 ÷ 36	18 ÷ 38	144
D07 IP55	70x70x25	12 Vd.c.	2.3 ÷ 2.3	61 ÷ 61	36 ÷ 36	144
D08 IP55	80x80x25	12/24 Vd.c.	1.4 ÷ 6.2	44 ÷ 87	23 ÷ 41	144
D09 IP55	92x92x25	24 Vd.c.	3.6 ÷ 3.6	95 ÷ 95	38 ÷ 38	144
D12A IP55	120x120x25	24 Vd.c.	4.6 ÷ 4.6	150 ÷ 150	39 ÷ 39	144
D12B IP55	120x120x38	12/24/48 Vd.c.	6 ÷ 9.6	179 ÷ 179	47 ÷ 47	144
A09BM	92x92x38	115/230 Va.c.	11 ÷ 12	75 ÷ 87	37 ÷ 42	145
A12BM	120x120x38	115/230 Va.c.	15 ÷ 17	107 ÷ 175	33 ÷ 46	145
A17MM	172x150x55	115/230 Va.c.	42 ÷ 42	332 ÷ 391	49 ÷ 53	145
A17TM	172x150x55	115/230 Va.c.	45 ÷ 45	383 ÷ 434	58 ÷ 61	145
A09BMT	92x92x38	115/230 Va.c.	11 ÷ 12	75 ÷ 87	37 ÷ 42	146
A12BMT	120x120x38	115/230 Va.c.	15 ÷ 17	110 ÷ 175	33 ÷ 46	146
A17MMT	172x150x55	115/230 Va.c.	42 ÷ 42	332 ÷ 391	49 ÷ 53	146
A17TMT	172x150x55	115/230 Va.c.	45 ÷ 45	383 ÷ 434	58 ÷ 61	146

General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

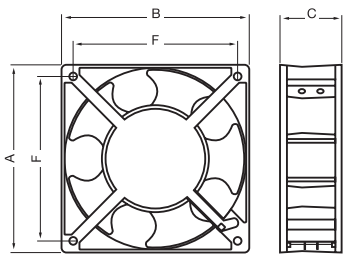
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A06G12HWBF00	60x60x30	50	Ball	115 V a.c.	50/60	5.0/4.0	14/17	18/27	27.0/28.0	2,200/2,800	CE; cURus;
A06G23HWBF00	60x60x30	50	Ball	230 V a.c.	50/60	5.0/4.0	14/17	17/27	27.0/28.0	2,400/3,000	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

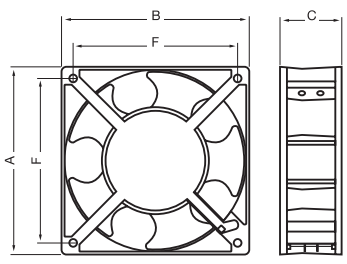
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A08A12HWBF00	80x80x25	71.5	Ball	115 V a.c.	50/60	14/11	36/41	40/55	32.0/35.0	2,600/3,100	CE; cURus;
A08A12HWSF00	80x80x25	71.5	Sleeve	115 V a.c.	50/60	14/11	36/41	40/55	32.0/35.0	2,600/3,100	CE; cURus;
A08A23HWBF00	80x80x25	71.5	Ball	230 V a.c.	50/60	16/14	36/41	40/55	32.0/35.0	2,600/3,100	CE; UR;
A08A23HWSF00	80x80x25	71.5	Sleeve	230 V a.c.	50/60	16/14	36/41	40/55	32.0/35.0	2,600/3,100	CE; UR;

Technical specifications

Technical drawing



General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

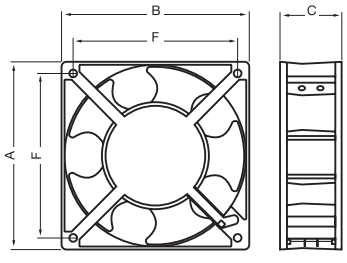
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A08B12HWBF00	80x80x38	71.5	Ball	115 V a.c.	50/60	14/12	41/51	40/55	32.0/36.0	2,500/3,000	CE; cURus;
A08B12HWSF00	80x80x38	71.5	Sleeve	115 V a.c.	50/60	14/12	41/51	40/55	32.0/36.0	2,500/3,000	CE; cURus;
A08B12LWBF00	80x80x38	71.5	Ball	115 V a.c.	50/60	12/9.0	33/42	25/40	28.0/32.0	1,900/2,400	CE; cURus;
A08B12LWSF00	80x80x38	71.5	Sleeve	115 V a.c.	50/60	12/9.0	33/42	25/40	28.0/32.0	1,900/2,400	CE; cURus;
A08B23HWBF00	80x80x38	71.5	Ball	230 V a.c.	50/60	14/12	41/51	40/55	32.0/36.0	2,500/3,000	CE; UR;
A08B23HWSF00	80x80x38	71.5	Sleeve	230 V a.c.	50/60	14/12	41/51	40/55	32.0/36.0	2,500/3,000	CE; UR;
A08B23LWBF00	80x80x38	71.5	Ball	230 V a.c.	50/60	14/12	33/42	25/40	28.0/32.0	1,900/2,400	CE; UR;
A08B23LWSF00	80x80x38	71.5	Sleeve	230 V a.c.	50/60	14/12	33/42	25/40	28.0/32.0	1,900/2,400	CE; UR;

Technical specifications

Technical drawing



General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Impedance protected motor
- Electrical connection: flat terminals
- UL approval according to UL 507

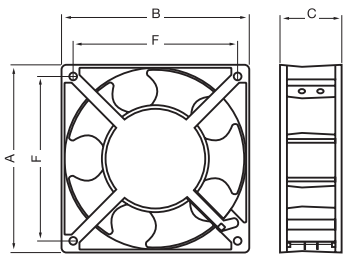
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A09A12HTBF00	92x92x25	82.5	Ball	115 V a.c.	50/60	14/11	56/68	37/54	32.0/36.0	2,500/3,000	CE; cURus;
A09A12HTSF00	92x92x25	82.5	Sleeve	115 V a.c.	50/60	14/11	56/68	37/54	32.0/36.0	2,500/3,000	CE; cURus;
A09A23HTBF00	92x92x25	82.5	Ball	230 V a.c.	50/60	16/14	56/68	37/54	32.0/36.0	2,500/3,000	CE; UR;
A09A23HTSF00	92x92x25	82.5	Sleeve	230 V a.c.	50/60	16/14	56/68	37/54	32.0/36.0	2,500/3,000	CE; UR;
A09A23LTBF00	92x92x25	82.5	Ball	230 V a.c.	50/60	16/14	39/53	17/32	28.0/32.0	1,800/2,300	CE;
A09A23LTSF00	92x92x25	82.5	Sleeve	230 V a.c.	50/60	16/14	39/53	17/32	28.0/32.0	1,800/2,300	CE; cURus;
A09A23MTBF00	92x92x25	82.5	Ball	230 V a.c.	50/60	16/14	51/63	30/45	28.0/32.0	2,200/2,750	CE; UR;
A09A23MTSF00	92x92x25	82.5	Sleeve	230 V a.c.	50/60	16/14	51/63	30/45	28.0/32.0	2,200/2,750	CE; UR;

Technical specifications

Technical drawing



General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Impedance protected motor
- Electrical connection: flat terminals
- UL approval according to UL 507

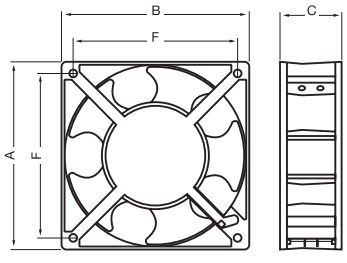
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A12A12HTBF00	120x120x25	104.8	Ball	115 V a.c.	50/60	14/11	99/117	42/40	38.0/42.0	2,400/2,900	CE; cURus;
A12A12HTSF00	120x120x25	104.8	Sleeve	115 V a.c.	50/60	14/11	99/117	42/40	38.0/42.0	2,400/2,900	CE; cURus;
A12A12MTBF00	120x120x25	104.8	Ball	115 V a.c.	50/60	14/11	87/105	27/32	33.0/35.0	2,050/2,500	CE; cURus;
A12A12MTSF00	120x120x25	104.8	Sleeve	115 V a.c.	50/60	14/11	87/105	27/32	33.0/35.0	2,050/2,500	CE; cURus;
A12A23HTBF00	120x120x25	104.8	Ball	230 V a.c.	50/60	16/14	109/127	52/52	38.0/42.0	2,400/2,900	CE; UR;
A12A23HTSF00	120x120x25	104.8	Sleeve	230 V a.c.	50/60	16/14	109/127	52/52	38.0/42.0	2,400/2,900	CE; UR;
A12A23MTBF00	120x120x25	104.8	Ball	230 V a.c.	50/60	16/14	87/102	27/32	34.0/36.0	2,000/2,400	CE; UR;
A12A23MTSF00	120x120x25	104.8	Sleeve	230 V a.c.	50/60	16/14	87/102	27/32	34.0/36.0	2,000/2,400	CE; UR;

Technical specifications

Technical drawing



General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Impedance protected motor
- Electrical connection: flat terminals
- UL approval according to UL 507
- VDE Reg. No. A634

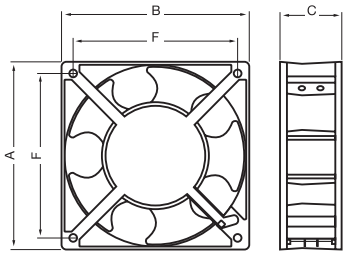
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A12B05HTBW00	120x120x38	104.8	Ball	24 V a.c.	50/60	14/14	154/165	62/77	46.0/49.0	2,650/2,850	CE;
A12B05HTSW00	120x120x38	104.8	Sleeve	24 V a.c.	50/60	13.2/13.2	147/142	55/50	46.0/45.0	2,530/2,430	CE;
A12B12HTBW00	120x120x38	104.8	Ball	115 V a.c.	50/60	20/18	136/168	57/80	46.0/49.0	2,750/3,050	CE; cURus; VDE;
A12B12HTSW00	120x120x38	104.8	Sleeve	115 V a.c.	50/60	20/18	136/168	57/80	46.0/49.0	2,750/3,050	CE; cURus; VDE;
A12B12LTBW00	120x120x38	104.8	Ball	115 V a.c.	50/60	11/11	122/113	25/22	42.0/40.0	2,300/2,100	CE; cURus; VDE;
A12B12LTSW00	120x120x38	104.8	Sleeve	115 V a.c.	50/60	11/11	122/113	25/22	42.0/40.0	2,300/2,100	CE; cURus; VDE;
A12B12MTBW00	120x120x38	104.8	Ball	115 V a.c.	50/60	16/15	136/143	52/62	44.0/46.0	2,500/2,700	CE; cURus; VDE;
A12B12MTSW00	120x120x38	104.8	Sleeve	115 V a.c.	50/60	16/15	126/133	52/62	44.0/46.0	2,500/2,700	CE; cURus; VDE;
A12B12STBW00	120x120x38	104.8	Ball	115 V a.c.	50/60	22/20	161/195	82/95	45.0/50.0	2,700/3,100	CE; cURus; VDE;
A12B12STSW00	120x120x38	104.8	Sleeve	115 V a.c.	50/60	22/23.8	161/195	82/95	45.0/50.0	2,700/3,100	CE; cURus; VDE;
A12B23ETSW00	120x120x38	104.8	Sleeve	230 V a.c.	50/60	6.5/6.0	85/83	19/16	29.0/28.0	1,500/1,450	CE; VDE;
A12B23HTBW00	120x120x38	104.8	Ball	230 V a.c.	50/60	20/19	148/182	65/80	46.0/49.0	2,750/3,050	CE; cURus; VDE;
A12B23HTSW00	120x120x38	104.8	Sleeve	230 V a.c.	50/60	20/19	148/182	65/80	46.0/49.0	2,750/3,050	CE; cURus; VDE;
A12B23LTBW00	120x120x38	104.8	Ball	230 V a.c.	50/60	11/10	114/102	27/22	43.0/42.0	2,200/1,800	CE; cURus; VDE;
A12B23LTSW00	120x120x38	104.8	Sleeve	230 V a.c.	50/60	11/10	114/102	27/22	43.0/42.0	2,200/1,800	CE; cURus; VDE;
A12B23MTBW00	120x120x38	104.8	Ball	230 V a.c.	50/60	16/15	133/143	35/52	43.0/45.0	2,400/2,600	CE; cURus; VDE;
A12B23MTSW00	120x120x38	104.8	Sleeve	230 V a.c.	50/60	16/15	133/143	35/52	43.0/45.0	2,400/2,600	CE; cURus; VDE;
A12B23STBW00	120x120x38	104.8	Ball	230 V a.c.	50/60	22/21	143/199	62/97	48.0/50.0	2,700/3,100	CE; cURus; VDE;
A12B23STSW00	120x120x38	104.8	Sleeve	230 V a.c.	50/60	22/21	143/199	62/97	48.0/50.0	2,700/3,100	CE; cURus; VDE;
A12B23VTBW00	120x120x38	104.8	Ball	230 V a.c.	50/60	10/10	98/105	28/28	34.0/35.0	1,800/1,900	CE; VDE;

Technical specifications

Technical drawing



General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507
- VDE Reg. No. A634

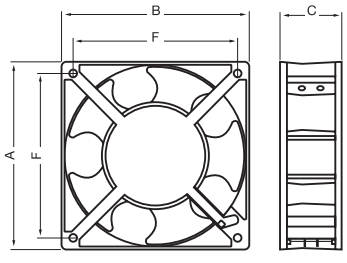
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A12B12HWBW00	120x120x38	104.8	Ball	115 V a.c.	50/60	20/18	136/168	57/80	46.0/49.0	2,750/3,050	CE; cURus; VDE;
A12B23HWBW00	120x120x38	104.8	Ball	230 V a.c.	50/60	20/19	148/182	65/80	46.0/49.0	2,750/3,050	CE; cURus; VDE;
A12B23HWSW00	120x120x38	104.8	Sleeve	230 V a.c.	50/60	20/19	148/182	65/80	46.0/49.0	2,750/3,050	CE; cURus; VDE;
A12B23LWBW00	120x120x38	104.8	Ball	230 V a.c.	50/60	11/10	114/102	27/22	43.0/42.0	2,200/1,800	CE; cURus; VDE;
A12B23LWSW00	120x120x38	104.8	Sleeve	230 V a.c.	50/60	11/10	116/104	36/20	41.0/38.0	2,200/1,800	CE; cURus; VDE;
A12B23MWBW00	120x120x38	104.8	Ball	230 V a.c.	50/60	16/15	133/143	35/52	43.0/45.0	2,400/2,600	CE; cURus; VDE;
A12B23SWBW00	120x120x38	104.8	Ball	230 V a.c.	50/60	22/21	143/199	62/97	48.0/50.0	2,700/3,100	CE; cURus; VDE;

Technical specifications

Technical drawing



General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Impedance protected motor
- Electrical connection: flat terminals
- UL approval according to UL 507
- VDE Reg. No. A634

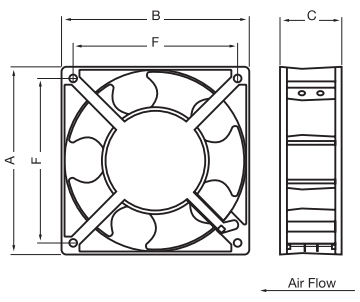
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A12R23HTBW00	120x120x38	104.8	Ball	230 V a.c.	50/60	20/19	150/167	66/81	48.0/54.0	2,650/3,050	CE; cURus; VDE;
A12R23HTSW00	120x120x38	104.8	Sleeve	230 V a.c.	50/60	20/19	150/167	66/81	48.0/54.0	2,650/3,050	CE; cURus; VDE;

Technical specifications

Technical drawing



General specifications

- Impeller in fibreglass reinforced PBT PC and housing cover in black die cast aluminum alloy
- Shaded pole motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

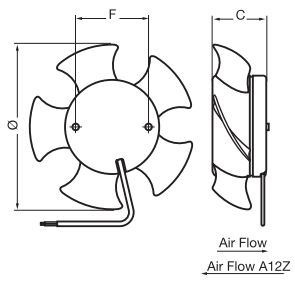
IP 20 Class I

Technical data

Model	Dimensions Ø x C	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A12W12HWBW00	113x38	45.5	Ball	115 V a.c.	50/60	20/18	150/167	66/81	43.0/48.0	2,650/2,950	CE; cURus;
A12W23HWBW00	113x38	45.5	Ball	230 V a.c.	50/60	20/19	148/182	65/80	46.0/49.0	2,550/2,900	CE; cURus;
A12W23SWBW00	113x38	45.5	Ball	230 V a.c.	50/60	22/21	165/200	67/94	48.0/50.0	2,700/3,100	CE;
A12Z12HWBW00	113x38	45.5	Ball	115 V a.c.	50/60	19/18	150/167	66/81	43.0/48.0	2,650/2,950	CE;
A12Z12HWSW00	113x38	45.5	Sleeve	115 V a.c.	50/60	19/18	150/167	66/81	43.0/48.0	2,650/2,950	CE;
A12Z23HWBW00	113x38	45.5	Ball	230 V a.c.	50/60	18/18	148/182	65/80	46.0/49.0	2,550/2,900	CE;
A12Z23HWSW00	113x38	45.5	Sleeve	230 V a.c.	50/60	18/18	148/182	65/80	46.0/49.0	2,550/2,900	CE;

Technical specifications

Technical drawing



General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Impedance protected motor
- Electrical connection: flat terminals
- UL approval according to UL 507

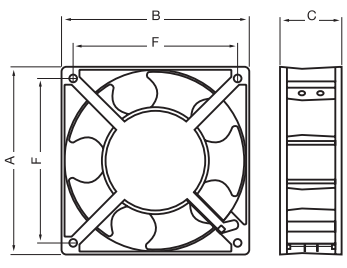
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A13B12HTBF00	127x127x38	113.5	Ball	115 V a.c.	50/60	17/15	174/204	72/28	46.0/50.0	2,700/3,000	CE; cURus;
A13B23HTBF00	127x127x38	113.5	Ball	230 V a.c.	50/60	17/15	174/204	72/28	46.0/50.0	2,700/3,000	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Thermally protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

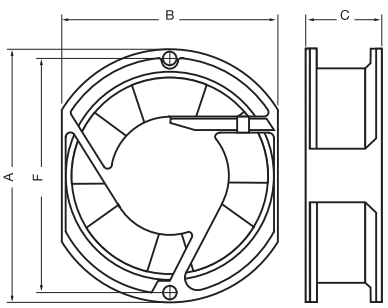
IP 20 Class I

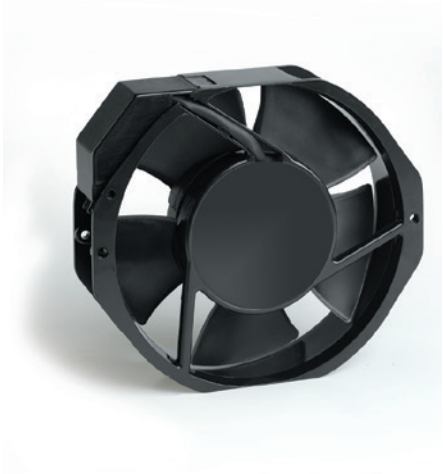
Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A17C12HWBF00	172x150x51	162	Ball	115 V a.c.	50/60	32/28	290/331	105/95	50.0/55.0	2,750/3,100	CE; cURus;
A17C23HWBF00	172x150x51	162	Ball	230 V a.c.	50/60	35/30	290/331	105/95	50.0/55.0	2,750/3,100	CE; cURus;

Technical specifications

Technical drawing





General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Thermally protected motor
- Electrical connection: flat terminals
- UL approval according to UL 507

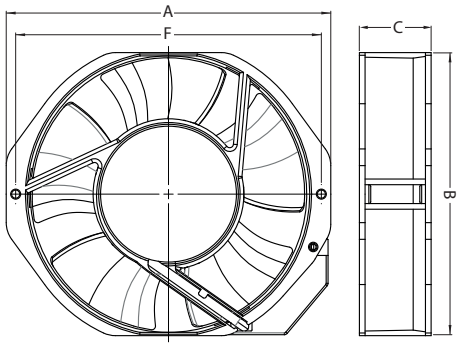
IP 20 Class I

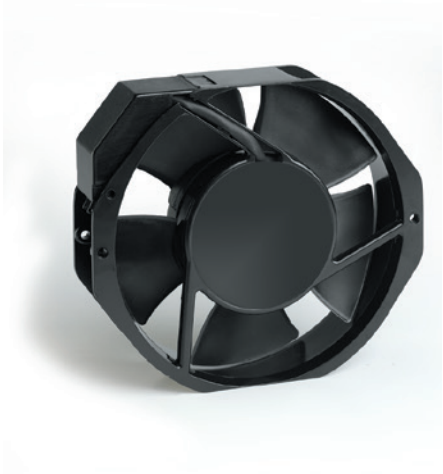
Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
C17B12HTBF00	172x150x38	162	Ball	115 V a.c.	50/60	29/28	300/360	167/187	54.0/58.0	2,850/3,400	CE; cURus;
C17B23HTBF00	172x150x38	162	Ball	230 V a.c.	50/60	27/26	300/360	167/187	54.0/58.0	2,850/3,400	CE; cURus;

Technical specifications

Technical drawing





General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Thermally protected motor
- Electrical connection: flat terminals
- UL approval according to UL 507

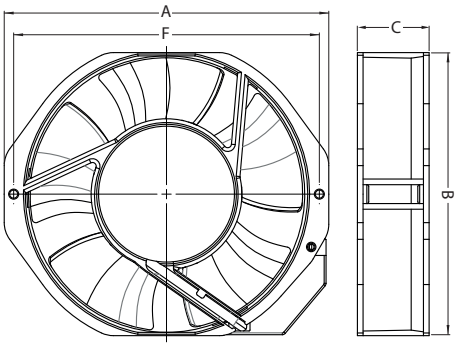
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
C17C12HTBF00	172x150x51	162	Ball	115 V a.c.	50/60	31/31	348/384	157/197	53.0/58.0	2,850/3,400	CE; cURus;
C17C23HTBF00	172x150x51	162	Ball	230 V a.c.	50/60	29/29	348/384	157/197	53.0/58.0	2,850/3,400	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Thermally protected motor
- Electrical connection: flat terminals
- UL approval according to UL 507

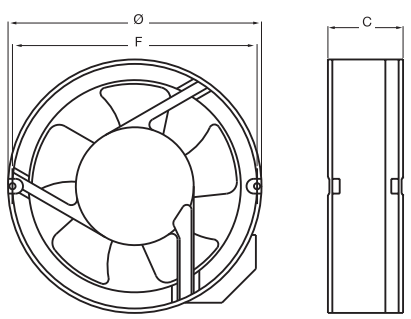
IP 20 Class I

Technical data

Model	Dimensions Ø x C	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
C18C12HTBF00	172x51	162	Ball	115 V a.c.	50/60	31/31	348/384	157/197	50.0/55.0	2,850/3,400	CE; cURus;
C18C23HTBF00	172x51	162	Ball	230 V a.c.	50/60	29/29	348/384	157/197	50.0/55.0	2,850/3,400	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing in die cast aluminum alloy
- Impeller in fibreglass reinforced PA 6/6
- External rotor fan
- Thermally protected motor
- Electrical connection: 4-poles terminal block

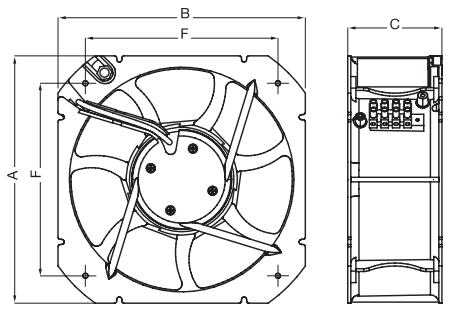
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
C22S12HKBD00	218x218x83	170	Ball	115 V a.c.	50/60	79/96	855/930	190/201	64.6/67.4	2,490/2,760	CE;
C22S23HKBD00	218x218x83	170	Ball	230 V a.c.	50/60	78/94	855/930	197/211	65.0/68.0	2,490/2,750	CE;
C22S40HKBD00	218x218x83	170	Ball	400 V a.c.	50	174	970	265	61.0	2,770	CE;

Technical specifications

Technical drawing



General specifications

- Casing in die cast aluminum alloy
- Impeller in fibreglass reinforced PA 6/6
- External rotor fan
- Thermally protected motor
- Electrical connection: 4-poles terminal block
- UL approval according to UL 507

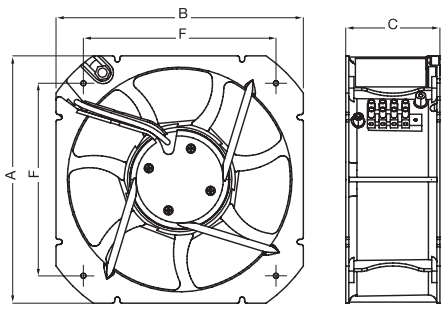
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
C22S12HKBU00	218x218x83	170	Ball	115 V a.c.	50/60	68/70	800/895	163/175	64.6/67.4	2,193/2,377	CE; cURus;
C22S23HKBU00	218x218x83	170	Ball	230 V a.c.	50/60	70/85	837/937	173/192	65.0/68.0	2,232/2,461	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing in die cast aluminum alloy
- Impeller in black painted steel
- External rotor fan
- Thermally protected motor
- Electrical connection: 4-poles terminal block

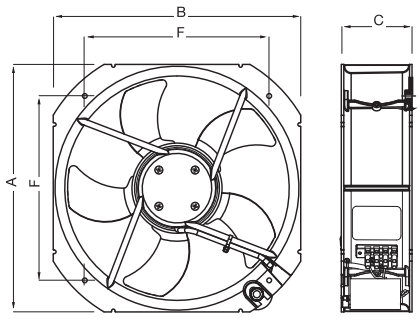
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
C25S12HKBE00	280x280x80	208.6	Ball	115 V a.c.	50/60	107/138	1,680/1,920	299/270	64.6/67.4	2,730/3,170	CE;
C25S23HKBE00	280x280x80	208.6	Ball	230 V a.c.	50/60	101/127	1,630/1,865	280/280	67.0/70.0	2,735/3,150	CE;
C25S40HKBE00	280x280x80	208.6	Ball	400 V 3 ~	50/60	86/117	1,540/1,680	280/275	67.0/69.0	2,635/2,840	CE;

Technical specifications

Technical drawing



General specifications

- Casing in die cast aluminum alloy
- Impeller in black painted steel
- External rotor fan
- Thermally protected motor
- Electrical connection: 4-poles terminal block

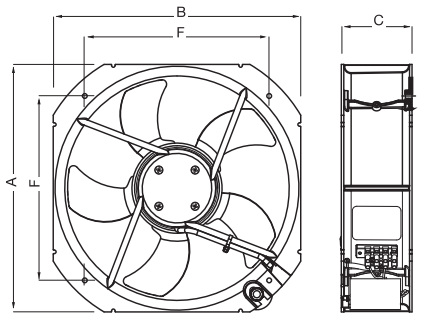
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
C25S23HKBE01	280x280x80	208.6	Ball	230 V a.c.	50/60	104/135	1,660/1,835	250/220	67.8/72.0	2,725/3,105	CE;

Technical specifications

Technical drawing



General specifications

- Casing in die cast aluminum alloy
- Impeller in black painted steel
- External rotor fan
- Thermally protected motor
- Electrical connection: 4-poles terminal block
- UL approval according to UL 507

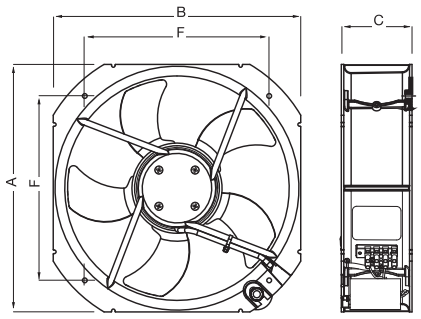
IP 20 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
C25S12HKBU00	280x280x80	208.6	Ball	115 V a.c.	50/60	150/170	1,450/1,680	255/240	67.8/72.0	2,675/3,040	CE; cURus;
C25S23HKBU00	280x280x80	208.6	Ball	230 V a.c.	50/60	130/150	1,660/1,835	250/220	67.8/72.0	2,725/3,105	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Fan filter kit composed by metal fan guard, a.c. fan, mounting frame, fiberglass net, cover and hardware
- Casing in die cast aluminum alloy
- Impeller in black fiberglass reinforced PBT
- Shaded pole motor
- Impedance protected motor
- Electrical connection: flat terminals

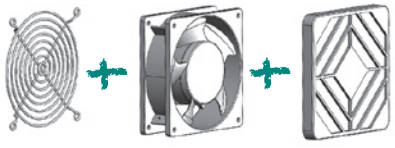
IP 24 kit

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A12B23MTBAQ109	120x120x38	104.8	Ball	230 V a.c.	50/60	14/13	110/115	56/44	40.0/41.0	2,460/2,530	CE;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black thermoplastic
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads

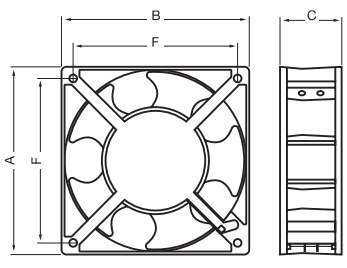
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
E08B12HWBL00	80x80x38	71.5	Ball	115 V a.c.	50/60	5.0/5.0	64/68,5	46/53	35.0/37.0	2,800/3,000	CE;
E08B23HWBL00	80x80x38	71.5	Ball	230 V a.c.	50/60	5.0/5.0	68/73	53/61	37.0/39.0	3,000/3,200	CE;
E12B23HWBL00	120x120x38	104.8	Ball	230 V a.c.	50/60	6.0/6.0	198/206	79/77	45.0/46.8	3,000/3,100	CE;
E12B23LWBL00	120x120x38	104.8	Ball	230 V a.c.	50/60	2.5/2.5	132/138	32/37	34.0/35.7	2,000/2,100	CE;
E12B23MWBL00	120x120x38	104.8	Ball	230 V a.c.	50/60	4.0/4.0	169/176	55/58	40.0/41.8	2,500/2,700	CE;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

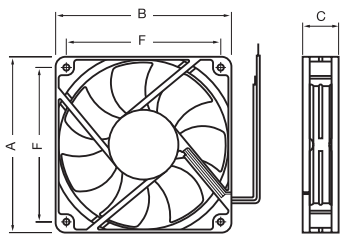
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D20E01LWBA00	20x20x10	16	Ball	5 V d.c.	0.40	1.0	12	20.0	9,000	CE; UR;
D20E01MWBA00	20x20x10	16	Ball	5 V d.c.	0.70	1.4	20	26.0	11,500	CE; cURus;
D20E04LWBA00	20x20x10	16	Ball	12 V d.c.	0.72	0.85	10	15.0	9,000	CE;
D20E04MWBA00	20x20x10	16	Ball	12 V d.c.	0.84	1.0	15	22.0	11,500	CE;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

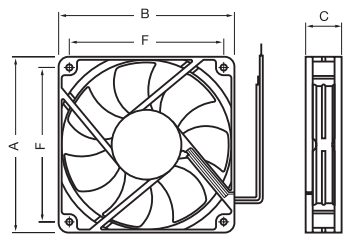
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D02E01HWBZ00	25x25x10	20	Ball	5 V d.c.	0.70	4.3	50	29.0	12,000	CE; cURus;
D02E01MWBZ00	25x25x10	20	Ball	5 V d.c.	0.50	3.6	37	23.0	10,000	CE; cURus;
D02E04HWBZ00	25x25x10	20	Ball	12 V d.c.	1.1	4.3	50	29.0	12,000	CE; cURus;
D02E04MWBZ00	25x25x10	20	Ball	12 V d.c.	0.96	3.6	37	23.0	10,000	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

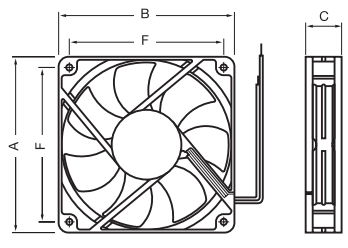
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D03E01LWBA00	30x30x10	24	Ball	5 V d.c.	0.60	5.5	30	20.2	8,000	CE; cURus;
D03E01MWBA00	30x30x10	24	Ball	5 V d.c.	0.65	6.4	42	28.0	9,000	CE; cURus;
D03E04LWBA00	30x30x10	24	Ball	12 V d.c.	0.72	5.1	32	26.0	8,000	CE; cURus;
D03E04MWBA00	30x30x10	24	Ball	12 V d.c.	0.60	6.4	42	28.0	9,000	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

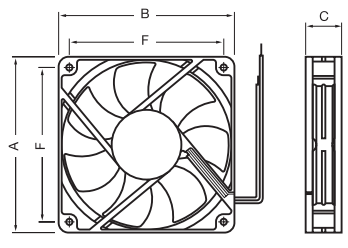
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D04E01HWBT00	40x40x10	32	Ball	5 V d.c.	0.95	11	25	26.0	6,000	CE; cURus;
D04E01HWST00	40x40x10	32	Sleeve	5 V d.c.	0.95	11	25	26.0	6,000	CE; cURus;
D04E01MWBT00	40x40x10	32	Ball	5 V d.c.	0.55	8.5	19	22.0	4,800	CE; cURus;
D04E01MWST00	40x40x10	32	Sleeve	5 V d.c.	0.75	8.5	19	22.0	4,800	CE; cURus;
D04E04HWBT00	40x40x10	32	Ball	12 V d.c.	1.2	11	25	26.0	6,000	CE; cURus;
D04E04HWST00	40x40x10	32	Sleeve	12 V d.c.	1.2	11	25	26.0	6,000	CE; cURus;
D04E04MWBT00	40x40x10	32	Ball	12 V d.c.	0.96	8.5	19	22.0	4,800	CE; cURus;
D04E04MWST00	40x40x10	32	Sleeve	12 V d.c.	0.96	8.5	19	22.0	4,800	CE; cURus;
D04E05HWBT00	40x40x10	32	Ball	24 V d.c.	2.2	11	25	26.0	6,000	CE; cURus;
D04E05HWST00	40x40x10	32	Sleeve	24 V d.c.	2.2	11	25	26.0	6,000	CE; cURus;
D04E05MWBT00	40x40x10	32	Ball	24 V d.c.	1.9	8.5	19	22.0	4,800	CE; cURus;
D04E05MWST00	40x40x10	32	Sleeve	24 V d.c.	1.9	8.5	19	22.0	4,800	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

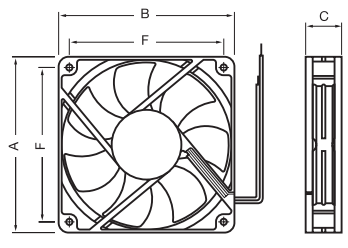
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D04F04HWBA00	40x40x15	32	Ball	12 V d.c.	1.4	15	61	39.3	8,000	CE; cURus;
D04F04HWSA00	40x40x15	32	Sleeve	12 V d.c.	1.4	15	61	39.3	8,000	CE; cURus;
D04F04LWBA00	40x40x15	32	Ball	12 V d.c.	0.96	11	35	27.5	6,000	CE; cURus;
D04F04LWSA00	40x40x15	32	Sleeve	12 V d.c.	0.96	11	35	27.5	6,000	CE; cURus;
D04F04MWBA00	40x40x15	32	Ball	12 V d.c.	1.2	13	45	31.8	7,000	CE; cURus;
D04F04MWSA00	40x40x15	32	Sleeve	12 V d.c.	1.2	13	45	31.8	7,000	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

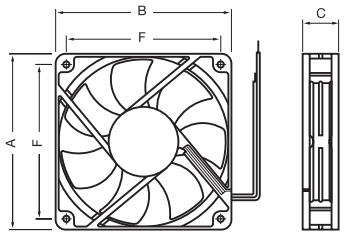
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D04D05HWBZ00	40x40x20	32	Ball	24 V d.c.	2.2	15	70	36.0	7,800	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

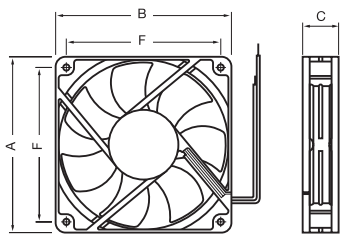
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D45E01HWBA00	45x45x10	37	Ball	5 V d.c.	0.20	15	25	27.4	5,500	CE; cURus;
D45E01HWSA00	45x45x10	37	Sleeve	5 V d.c.	0.20	15	25	27.4	5,500	CE; UR;
D45E01MWBA00	45x45x10	37	Ball	5 V d.c.	0.30	12	18	22.0	4,500	CE; cURus;
D45E01MWSA00	45x45x10	37	Sleeve	5 V d.c.	0.30	12	18	22.0	4,500	CE; UR;
D45E04HWBA00	45x45x10	37	Ball	12 V d.c.	1.1	15	25	27.4	5,500	CE; UR;
D45E04HWSA00	45x45x10	37	Sleeve	12 V d.c.	1.1	15	25	27.4	5,500	CE; UR;
D45E04MWBA00	45x45x10	37	Ball	12 V d.c.	0.84	12	18	22.0	4,500	CE; UR;
D45E04MWSA00	45x45x10	37	Sleeve	12 V d.c.	0.84	12	18	22.0	4,500	CE; UR;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

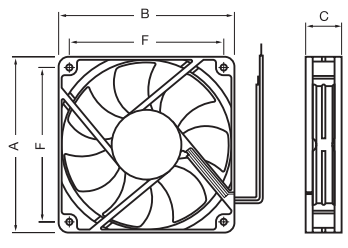
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D50E04LWBA00	50x50x10	40	Ball	12 V d.c.	1.2	10	10	20.0	3,700	CE; cURus;
D50E04LWSA00	50x50x10	40	Sleeve	12 V d.c.	1.2	10	10	20.0	3,700	CE; cURus;
D50E04MWBA00	50x50x10	40	Ball	12 V d.c.	1.4	15	20	24.0	4,300	CE; cURus;
D50E04MWSA00	50x50x10	40	Sleeve	12 V d.c.	1.4	15	20	24.0	4,300	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

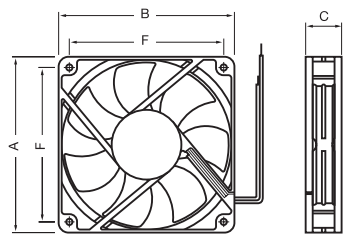
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D50F04HWBA00	50x50x15	40	Ball	12 V d.c.	1.7	24	32	30.2	4,800	CE; cURus;
D50F04HWSA00	50x50x15	40	Sleeve	12 V d.c.	1.7	24	32	34	4,800	CE; cURus;
D50F04LWSA00	50x50x15	40	Sleeve	12 V d.c.	0.96	19	17	25	3,600	CE; cURus;
D50F04MWSA00	50x50x15	40	Sleeve	12 V d.c.	1.2	22	25	30	4,300	CE; cURus;
D50F04SWBA00	50x50x15	40	Ball	12 V d.c.	2.4	29	48	33.8	5,500	CE; cURus;
D50F04SWSA00	50x50x15	40	Sleeve	12 V d.c.	2.4	29	48	33.8	5,500	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

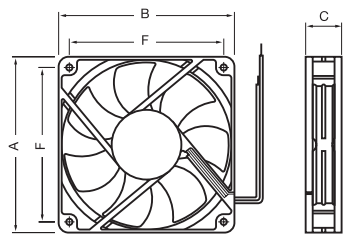
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D06E01HWST00	60x60x10	50	Sleeve	5 V d.c.	0.75	24	27	33.1	4,900	CE;
D06E01MWBT00	60x60x10	50	Ball	5 V d.c.	0.75	20	20	28.7	4,200	CE;
D06E01MWST00	60x60x10	50	Sleeve	5 V d.c.	0.75	20	20	28.7	4,200	CE;
D06E04HWST00	60x60x10	50	Sleeve	12 V d.c.	1.8	24	27	33.1	4,900	CE; UR;
D06E04MWST00	60x60x10	50	Sleeve	12 V d.c.	1.6	20	20	28.7	4,200	CE; UR;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- IC protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

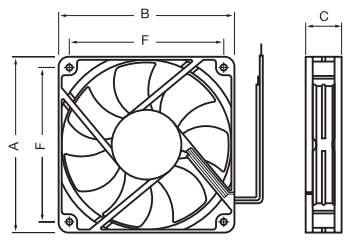
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D06F01HWSA00	60x60x15	50	Sleeve	5 V d.c.	1.9	27	36	33.4	4,500	CE; UR;
D06F01MWBA00	60x60x15	50	Ball	5 V d.c.	1.3	24	26	31.2	3,900	CE; UR;
D06F01MWSA00	60x60x15	50	Sleeve	5 V d.c.	1.3	24	26	31.2	3,900	CE; UR;
D06F04HWSA00	60x60x15	50	Sleeve	12 V d.c.	1.6	27	36	33.4	4,500	CE; UR;
D06F04MWBA00	60x60x15	50	Ball	12 V d.c.	1.3	24	26	31.2	3,900	CE; cURus;
D06F04MWSA00	60x60x15	50	Sleeve	12 V d.c.	1.3	24	26	31.2	3,900	CE; cURus;
D06F05HWBA00	60x60x15	50	Ball	24 V d.c.	2.2	26	28	35.2	4,500	CE;
D06F05HWSA00	60x60x15	50	Sleeve	24 V d.c.	2.16	26	38	35.2	4,500	CE; cURus;
D06F05MWBA00	60x60x15	50	Ball	24 V d.c.	1.7	24	26	31.2	3,900	CE;
D06F05MWSA00	60x60x15	50	Sleeve	24 V d.c.	1.7	24	26	31.2	3,900	CE;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

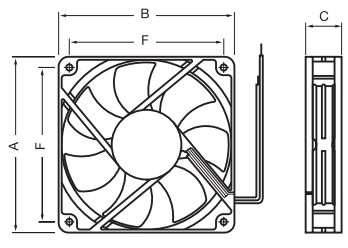
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D06D04HWBA00	60x60x20	50	Ball	12 V d.c.	1.9	28	34	31.0	4,500	CE; UR;
D06D04HWSA00	60x60x20	50	Sleeve	12 V d.c.	1.9	28	34	31.0	4,500	CE; UR;
D06D04LWBA00	60x60x20	50	Ball	12 V d.c.	0.96	21	21	23.5	3,500	CE; UR;
D06D04LWSA00	60x60x20	50	Sleeve	12 V d.c.	0.96	21	21	23.5	3,500	CE; UR;
D06D04MWBA00	60x60x20	50	Ball	12 V d.c.	1.6	23	25	26.4	3,900	CE; UR;
D06D04MWSA00	60x60x20	50	Sleeve	12 V d.c.	1.6	23	25	26.4	3,900	CE; UR;
D06D05LWBA00	60x60x20	50	Ball	24 V d.c.	1.7	21	21	23.5	3,500	CE; cURus;
D06D05LWSA00	60x60x20	50	Sleeve	24 V d.c.	1.7	21	21	23.5	3,500	CE; cURus;
D06D05MWBA00	60x60x20	50	Ball	24 V d.c.	1.9	23	25	26.4	3,900	CE; UR;
D06D05MWSA00	60x60x20	50	Sleeve	24 V d.c.	1.9	23	25	26.4	3,900	CE; UR;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance or IC protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

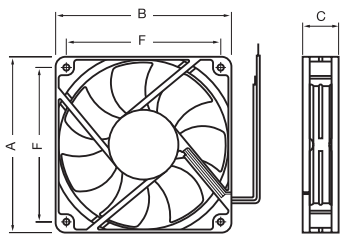
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D06A04HWBA00	60x60x25	50	Ball	12 V d.c.	2.8	42	50	36.8	4,600	CE; cURus;
D06A04HWSA00	60x60x25	50	Sleeve	12 V d.c.	2.8	42	50	35.2	4,500	CE; cURus;
D06A04LWBA00	60x60x25	50	Ball	12 V d.c.	0.96	23	18	20.6	2,700	CE; cURus;
D06A04LWSA00	60x60x25	50	Sleeve	12 V d.c.	0.96	22	16	18.1	2,500	CE; UR;
D06A04MWBA00	60x60x25	50	Ball	12 V d.c.	1.7	32	32	29.8	3,600	CE; UR;
D06A04MWSA00	60x60x25	50	Sleeve	12 V d.c.	1.7	31	30	28.6	3,500	CE; UR;
D06A04SWBA00	60x60x25	50	Ball	12 V d.c.	3.2	50	67	40.5	5,300	CE; cURus;
D06A04SWSA00	60x60x25	50	Sleeve	12 V d.c.	4.2	46	57	40.0	5,000	CE; cURus;
D06A05HWBA00	60x60x25	50	Ball	24 V d.c.	3.6	42	50	35.2	4,500	CE; cURus;
D06A05HWSA00	60x60x25	50	Sleeve	24 V d.c.	3.6	42	50	35.2	4,500	CE; cURus;
D06A05LWBA00	60x60x25	50	Ball	24 V d.c.	1.9	22	16	18.1	2,500	CE; UR;
D06A05LWSA00	60x60x25	50	Sleeve	24 V d.c.	1.9	22	16	18.1	2,500	CE; UR;
D06A05MWBA00	60x60x25	50	Ball	24 V d.c.	1.9	31	30	28.6	3,500	CE; UR;
D06A05MWSA00	60x60x25	50	Sleeve	24 V d.c.	1.9	31	30	28.6	3,500	CE; UR;
D06A05SWBA00	60x60x25	50	Ball	24 V d.c.	3.8	47	60	37.6	5,000	CE; cURus;
D06A05SWSA00	60x60x25	50	Sleeve	24 V d.c.	3.8	47	60	37.6	5,000	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

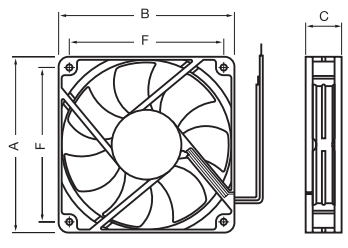
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D07A04HWSA00	70x70x25	60	Sleeve	12 V d.c.	2.3	61	55	35.5	4,200	CE; UR;
D07A04MWBA00	70x70x25	60	Ball	12 V d.c.	1.9	55	44	32.0	3,800	CE; UR;
D07A04MWSA00	70x70x25	60	Sleeve	12 V d.c.	1.9	55	44	32.0	3,800	CE; UR;
D07A05HWBA00	70x70x25	60	Ball	24 V d.c.	3.1	61	55	35.5	4,200	CE;
D07A05HWSA00	70x70x25	60	Sleeve	24 V d.c.	3.1	61	55	35.5	4,200	CE;
D07A05MWBA00	70x70x25	60	Ball	24 V d.c.	2.6	55	44	32.0	3,800	CE;
D07A05MWSA00	70x70x25	60	Sleeve	24 V d.c.	2.6	55	44	32.0	3,800	CE;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- IC protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

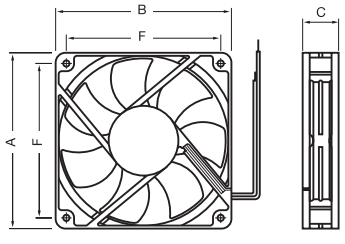
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D08F01HWSA00	80x80x15	71.5	Sleeve	5 V d.c.	0.44	51	32	31.4	3,200	CE; UR;
D08F01MWBA00	80x80x15	71.5	Ball	5 V d.c.	1.2	38	21	26.0	2,440	CE; UR;
D08F01MWSA00	80x80x15	71.5	Sleeve	5 V d.c.	1.2	38	21	26.0	2,440	CE; UR;
D08F04HWBA00	80x80x15	71.5	Ball	12 V d.c.	2.3	51	32	31.4	3,200	CE; UR;
D08F04HWSA00	80x80x15	71.5	Sleeve	12 V d.c.	2.3	51	32	31.4	3,200	CE; UR;
D08F04MWBA00	80x80x15	71.5	Ball	12 V d.c.	1.8	38	21	26.0	2,440	CE; UR;
D08F04MWSA00	80x80x15	71.5	Sleeve	12 V d.c.	1.8	37	19	24.9	2,440	CE; UR;
D08F05HWSA00	80x80x15	71.5	Sleeve	24 V d.c.	3.1	51	32	31.4	3,400	CE; UR;
D08F05MWBA00	80x80x15	71.5	Ball	24 V d.c.	2.4	38	21	26.0	2,440	CE; UR;
D08F05MWSA00	80x80x15	71.5	Sleeve	24 V d.c.	2.4	38	21	26.0	2,440	CE; UR;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

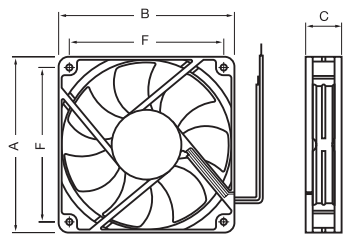
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D08D04HWBA00	80x80x20	71.5	Ball	12 V d.c.	2.9	49	37	34.9	3,100	CE; UR;
D08D04HWSA00	80x80x20	71.5	Sleeve	12 V d.c.	2.9	49	37	34.0	3,000	CE; UR;
D08D04MWBA00	80x80x20	71.5	Ball	12 V d.c.	1.9	40	24	27.0	2,550	CE; cURus;
D08D04MWSA00	80x80x20	71.5	Sleeve	12 V d.c.	1.9	40	24	27.0	2,550	CE; cURus;
D08D05HWBA00	80x80x20	71.5	Ball	24 V d.c.	3.6	49	37	32.4	3,100	CE; UR;
D08D05HWSA00	80x80x20	71.5	Sleeve	24 V d.c.	3.6	47	39	34.0	3,000	CE; UR;
D08D05MWBA00	80x80x20	71.5	Ball	24 V d.c.	3.1	40	24	27.0	2,550	CE; cURus;
D08D05MWSA00	80x80x20	71.5	Sleeve	24 V d.c.	3.1	40	24	27.0	2,550	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance or IC protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

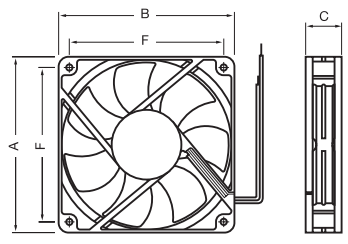
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D08A05HWBA00	80x80x25	71.5	Ball	24 V d.c.	3.8	70	39	36.2	3,200	CE; UR;
D08A05HWSA00	80x80x25	71.5	Sleeve	24 V d.c.	3.8	70	39	35.2	3,000	CE; UR;
D08A05LWBA00	80x80x25	71.5	Ball	24 V d.c.	2.2	43	17	22.7	2,000	CE; cURus;
D08A05LWSA00	80x80x25	71.5	Sleeve	24 V d.c.	2.2	43	17	22.7	2,000	CE; UR;
D08A05MWBA00	80x80x25	71.5	Ball	24 V d.c.	2.4	55	25	29.4	2,500	CE; cURus;
D08A05MWSA00	80x80x25	71.5	Sleeve	24 V d.c.	2.4	53	23	28.6	2,400	CE; cURus;
D08A05SWBA00	80x80x25	71.5	Ball	24 V d.c.	6.2	89	66	40.8	3,900	CE; cURus;
D08A05SWSA00	80x80x25	71.5	Sleeve	24 V d.c.	6.2	89	66	40.8	3,900	CE; cURus;
D08A07HWBA00	80x80x25	71.5	Ball	48 V d.c.	5.3	40	35	35.2	3,000	CE; UR;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

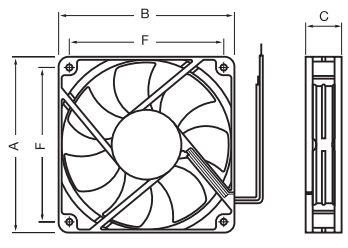
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D09D04HWSA00	92x92x20	82.5	Sleeve	12 V d.c.	3.0	56	26	32.8	2,700	CE; UR;
D09D04MWBA00	92x92x20	82.5	Ball	12 V d.c.	1.9	49	21	28.9	2,430	CE; UR;
D09D04MWSA00	92x92x20	82.5	Sleeve	12 V d.c.	1.9	49	21	28.9	2,430	CE; UR;
D09D05HWSA00	92x92x20	82.5	Sleeve	24 V d.c.	3.4	56	26	32.8	2,700	CE; UR;
D09D05MWBA00	92x92x20	82.5	Ball	24 V d.c.	2.4	49	21	28.9	2,430	CE; cURus;
D09D05MWSA00	92x92x20	82.5	Sleeve	24 V d.c.	2.4	49	21	28.9	2,430	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

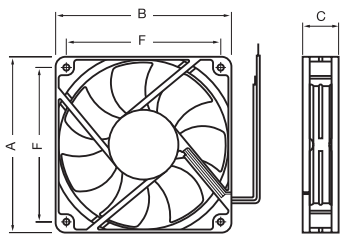
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D09A04EWBZ00	92x92x25	82.5	Ball	12 V d.c.	1.08	51	8	19.1	1,600	CE; cURus;
D09A04HWBZ00	92x92x25	82.5	Ball	12 V d.c.	3.0	95	37	37.5	2,900	CE; cURus;
D09A04HWSZ00	92x92x25	82.5	Sleeve	12 V d.c.	3.0	95	37	37.5	2,900	CE; cURus;
D09A04LWBZ00	92x92x25	82.5	Ball	12 V d.c.	1.6	66	18	27.5	2,100	CE; cURus;
D09A04LWSZ00	92x92x25	82.5	Sleeve	12 V d.c.	1.6	66	18	27.5	2,100	CE; cURus;
D09A04MWBZ00	92x92x25	82.5	Ball	12 V d.c.	2.0	76	25	31.2	2,400	CE; cURus;
D09A04MWSZ00	92x92x25	82.5	Sleeve	12 V d.c.	2.0	76	25	31.2	2,400	CE; cURus;
D09A04SWBZ00	92x92x25	82.5	Ball	12 V d.c.	4.7	105	47	39.4	3,300	CE; cURus;
D09A04SWSZ00	92x92x25	82.5	Sleeve	12 V d.c.	4.7	105	47	42.2	3,300	CE; cURus;
D09A05HWBZ00	92x92x25	82.5	Ball	24 V d.c.	3.6	95	36	37.5	2,900	CE; cURus;
D09A05HWSZ00	92x92x25	82.5	Sleeve	24 V d.c.	3.6	87	34	35.4	2,900	CE; cURus;
D09A05LWBZ00	92x92x25	82.5	Ball	24 V d.c.	1.9	66	18	28.7	2,000	CE; cURus;
D09A05LWSZ00	92x92x25	82.5	Sleeve	24 V d.c.	1.9	66	18	28.7	2,000	CE; cURus;
D09A05MWBZ00	92x92x25	82.5	Ball	24 V d.c.	2.9	76	25	31.2	2,400	CE; cURus;
D09A05MWSZ00	92x92x25	82.5	Sleeve	24 V d.c.	2.9	76	25	31.2	2,400	CE; cURus;
D09A05SWBZ00	92x92x25	82.5	Ball	24 V d.c.	5.0	105	47	42.2	3,300	CE; cURus;
D09A05SWSZ00	92x92x25	82.5	Sleeve	24 V d.c.	5.0	105	47	42.2	3,300	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- IC protected motor
- Electrical connection: 2 leads

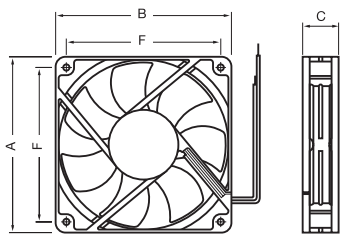
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D09B05HWBZ00	92x92x38	82.5	Ball	24 V d.c.	13.2	185	125	52.5	4,400	CE;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- IC protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

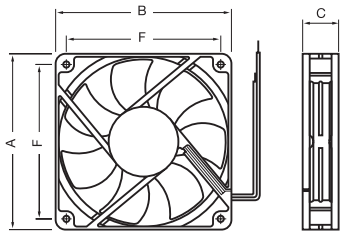
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D12A04HWSZ00	120x120x25	104.8	Sleeve	12 V d.c.	5.3	151	34	39.1	2,200	CE; cURus;
D12A04LWBZ00	120x120x25	104.8	Ball	12 V d.c.	2.9	122	23	34.4	1,800	CE; cURus;
D12A04LWSZ00	120x120x25	104.8	Sleeve	12 V d.c.	2.9	122	23	34.4	1,800	CE; UR;
D12A04MWBZ00	120x120x25	104.8	Ball	12 V d.c.	4.0	138	28	38.0	2,050	CE; cURus;
D12A04MWSZ00	120x120x25	104.8	Sleeve	12 V d.c.	4.1	138	28	38.0	2,050	CE; cURus;
D12A04SWBZ00	120x120x25	104.8	Ball	12 V d.c.	6.0	168	43	43.3	2,500	CE; cURus;
D12A04SWSZ00	120x120x25	104.8	Sleeve	12 V d.c.	6.0	168	43	43.3	2,500	CE; cURus;
D12A05HWBZ00	120x120x25	104.8	Ball	24 V d.c.	4.6	149	33	39.1	2,200	CE; cURus;
D12A05HWSZ00	120x120x25	104.8	Sleeve	24 V d.c.	5.8	149	33	39.1	2,200	CE; cURus;
D12A05LWBZ00	120x120x25	104.8	Ball	24 V d.c.	3.4	122	23	34.4	1,800	CE; cURus;
D12A05LWSZ00	120x120x25	104.8	Sleeve	24 V d.c.	3.4	122	23	34.4	1,800	CE; cURus;
D12A05MWBZ00	120x120x25	104.8	Ball	24 V d.c.	4.1	141	29	38.0	2,050	CE; cURus;
D12A05MWSZ00	120x120x25	104.8	Sleeve	24 V d.c.	4.1	141	29	38.0	2,050	CE; cURus;
D12A05SWBZ00	120x120x25	104.8	Ball	24 V d.c.	6.0	168	43	43.3	2,500	CE; cURus;
D12A05SWSZ00	120x120x25	104.8	Sleeve	24 V d.c.	6.0	168	43	43.3	2,500	CE; cURus;
D12A07HWBZ00	120x120x25	104.8	Ball	48 V d.c.	5.8	149	33	39.1	2,200	CE;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- IC protected motor
- Electrical connection: 2 leads

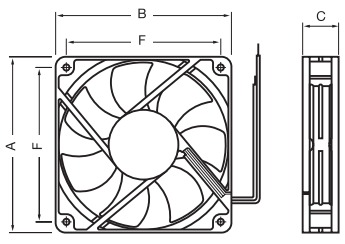
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D12G05HWBA00	120x120x32	104.8	Ball	24 V d.c.	6.0	190	60	43.3	2,750	CE;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- IC protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507 and TÜV according to EN60950-1:2006+A11

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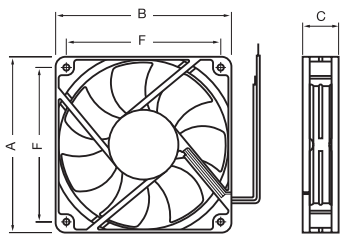
Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D12B05HWBA91	120x120x38	104.8	Ball	24 V d.c.	23.5	340	155	61.0	4,300	CE; cURus; TUV;
D12B05VWBA91	120x120x38	104.8	Ball	24 V d.c.	7.2	220	74	48.5	2,800	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- IC protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

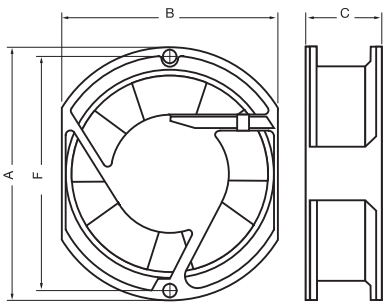
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D17C05HWBA00	172x150x51	162	Ball	24 V d.c.	24	450	190	60.0	3,500	CE; cURus;
D17C07HWBA00	172x150x51	162	Ball	48 V d.c.	24	450	190	58.8	3,500	CE; cURus;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- IC protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

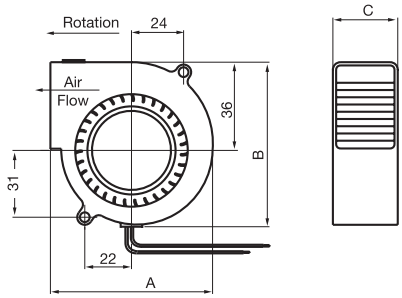
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
DC6G04HWBA00	75x75x30	81.2	Ball	12 V d.c.	3.6	18	89	38.5	3,000	CE; UR;
DC6G04HWSA00	75x75x30	81.2	Sleeve	12 V d.c.	3.6	18	89	38.5	3,000	CE; UR;
DC6G04MWBA00	75x75x30	81.2	Ball	12 V d.c.	2.4	13	58	34.9	2,600	CE; UR;
DC6G05MWBA00	75x75x30	81.2	Ball	24 V d.c.	3.4	13	58	34.9	2,600	CE; UR;
DC6G05MWSA00	75x75x30	81.2	Sleeve	24 V d.c.	3.4	13	58	34.9	2,600	CE; UR;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- IC protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

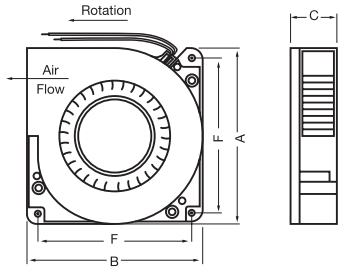
IP 20

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
DC1G05MWBA01	120x120x31	104.8	Ball	24 V d.c.	9.4	48	220	49.0	2,300	CE; cURus;

Technical specifications

Technical drawing



EC technology

WHAT IS EC TECHNOLOGY?

EC stands for Electronically Commutated and combines AC and DC voltages to bring the best of both technologies. The motor runs on DC, but with a normal AC supply. DC motors already have low power consumption but, if used in AC applications, need to convert AC to DC using a bulky, inefficient transformer.
The EC fan incorporates voltage transformation within the motor. An electronic PCB board, which takes care of AC to DC transformation and houses the controls, is fitted to the non-rotating part of the motor (stator).

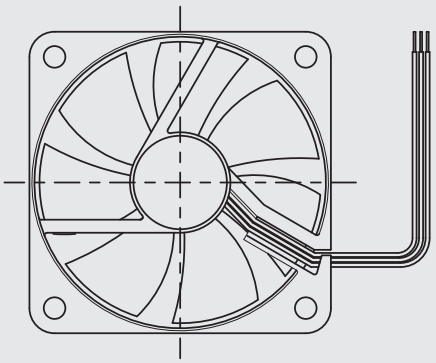
PRINCIPLE

- Permanent-magnet brushless DC motor
- The stator is driven by electronic switches governed by a microcontroller
- AC operated (115/230Volts Single phase, 50/60Hz)

BENEFITS

- Energy savings: minimum power consumption and better efficiency than equivalent AC fan
- Extended operating range (230 Vac 140~264Vac; 115 Vac 80~132Vac)
- Low motor temperature: for longer lifespan than AC equivalent
- Simplicity: electronic and power transformation are completely integrated within the motor
- High performance: better airflow and pressure values than an equivalent AC fan

DC fans with signal lead



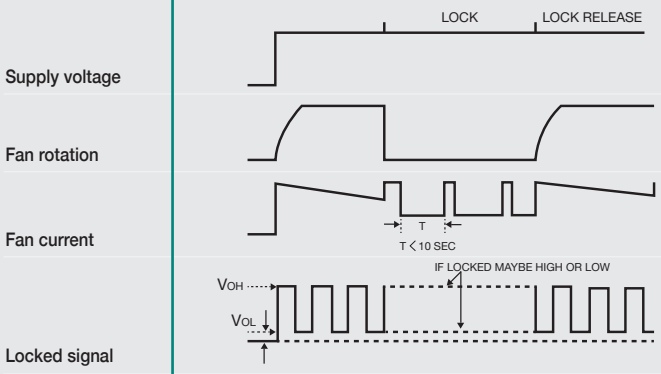
DC fans with speed sensor signal

The integrated electronic sensor provides a square wave signal proportional to the fan speed. The signal is via a third lead wire (open collector type).

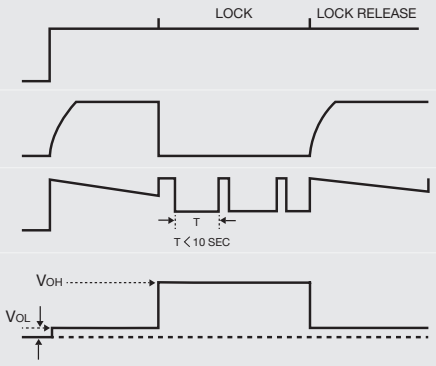
DC fans with alarm signal

It is used to detect if the fan is still rotating or stopped. The output is via a third lead wire (open collector type) and it is a continuous high or low signal depending on the fan's type.

Output Waveform Speed Control

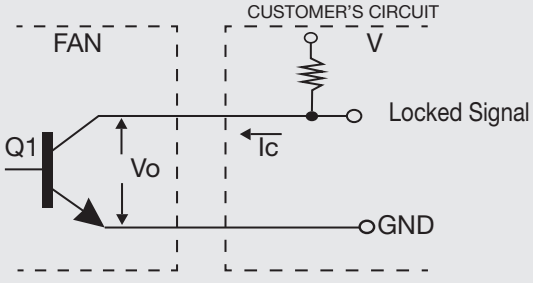


Output Waveform Alarm Signal



The ouput waves may change depending on the fan type. For more information, contact our Sales Dept.

Electrical diagram



External signal function design is decided by customer.

SPECIAL FRAME FANS

Custom and special solutions include a full line of AC/DC fans tested to withstand harsh environmental and working conditions. They are dustproof and water jet resistance (IP55) or tolerate high temperature up to +90°C, also thanks to a particular all metal construction.
These special fans ensure safe, reliable operation and an extended service life of the devices.

IP55
Ideal for indoor or outdoor use in harsh industrial environments

ALL METAL
Robust metal fan blades for good corrosion resistance

HIGH TEMPERATURE RESISTANT
Capable of running continuously at 90°C

Model numbering system for Special Frame fans

description	A	12	B	23	H	T	B	W	00	description

MOTOR TYPE
A = a.c. shaded pole motor
C = a.c. capacitor run induction motor
D = d.c. brushless

CASING SIZE

01 = 15x15 mm axial fan	08 = 80x80 mm axial fan
20 = 20x20 mm axial fan	09 = 92x92 mm axial fan
02 = 25x25 mm axial fan	12 = 120x120 mm axial fan
03 = 30x30 mm axial fan	13 = 127x127 mm axial fan
35 = 35x35 mm axial fan	17 = 172x150 mm axial fan
04 = 40x40 mm axial fan	18 = ø 172 mm axial fan
45 = 45x45 mm axial fan	22 = 218x218 mm axial fan
50 = 50x50 mm axial fan	25 = 280x280 mm axial fan
06 = 60x60 mm axial fan	C1 = 120x120 mm blower
07 = 70x70 mm axial fan	C6 = 75x75 mm blower

CASING THICKNESS
N = 6.5 mm
E = 10 mm
F = 15 mm
D = 20 mm
A = 25 mm
G = 30-32 mm
B = 38 mm standard flow
R = 38 mm reverse flow
C = 50-52 mm
M = 55 mm
S = 83 mm
W = without casing, standard flow
Z = without casing, reverse flow

OPTIONS
00 = no option
A = alarm output
S = speed signal output
I = variable speed with integrated
V = variable speed with external termistor
M = digital PWM speed control
T = for high temperature ambient
F = motor IP55 protected
H = motor IP25 protected
Wnn = wires lenght out of standard
Qnn = special version

DESIGN

BEARING TYPE
B = shielded ball S = sleeve

CONNECTION
K = terminal block
T = flat terminals 110 series (2.8x0.5 mm)
W = lead wires

SPEED
E = extra low V = very low L = low
M = medium H = high S = super high

RATED VOLTAGE

01 = 5 V d.c.	12 = 115 V a.c.
04 = 12 V d.c.	23 = 230 V a.c.
05 = 24 V d.c. / V a.c.	40 = 400 V a.c. 3-phase
07 = 48 V d.c.	

General specifications

- Casing or housing cover (only for models A12WW and A12ZW) in black die cast aluminum alloy
- Impeller in fibreglass reinforced PBT PC
- Shaded pole motor
- Impedance or thermally protected motor
- Electrical connection: 2 leads or flat terminals

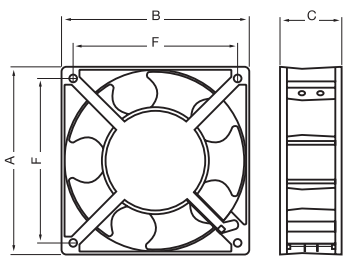
IP 55 Class I

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A06G23HWBFF0	60x60x30	50	Ball	230 V a.c.	50/60	5.0/4.0	14/17	17/27	27.0/28.0	2,400/3,000	CE;
A08B12HWBFF0	80x80x38	71.5	Ball	115 V a.c.	50/60	14/12	41/51	40/55	32.0/36.0	2,500/3,000	CE;
A08B23HWBFF0	80x80x38	71.5	Ball	230 V a.c.	50/60	14/12	41/51	40/55	32.0/36.0	2,500/3,000	CE;
A09A23HTBFF0	92x92x25	82.5	Ball	230 V a.c.	50/60	16/14	56/68	45/65	32.0/36.0	2,500/3,000	CE;
A09A23HWBFF0	92x92x25	82.5	Ball	230 V a.c.	50/60	16/14	56/68	45/65	32.0/36.0	2,500/3,000	CE;
A12B12ETBKF0	120x120x38	104.8	Ball	115 V a.c.	50/60	6.0/5.5	78/84	15/15	27.0/28.0	1,350/1,450	CE;
A12B12LTBKF0	120x120x38	104.8	Ball	115 V a.c.	50/60	7.0/7.0	120/114	35/22	32.0/30.0	2,100/1,950	CE;
A12B23ETBKF0	120x120x38	104.8	Ball	230 V a.c.	50/60	6.5/6.0	78/84	15/15	27.0/28.0	1,350/1,450	CE;
A12B23HTBKF0	120x120x38	104.8	Ball	230 V a.c.	50/60	15/14	162/192	74/88	37.0/41.0	2,600/2,900	CE;
A12B23HWBWF0	120x120x38	104.8	Ball	230 V a.c.	50/60	20/19	148/182	65/80	46.0/49.0	2,750/3,050	CE;
A12B23LTBKF0	120x120x38	104.8	Ball	230 V a.c.	50/60	7.5/7.5	120/114	35/22	32.0/30.0	2,100/1,900	CE;
A12B23LWBWF0	120x120x38	104.8	Ball	230 V a.c.	50/60	11/10	114/102	27/22	43.0/42.0	2,200/1,800	CE;
A12W23HWBWF0	113x113x38	45.5	Ball	230 V a.c.	50/60	20/19	150/180	66/80	46.0/49.0	2,550/2,900	CE;
A12W23SWBWF0	113x113x38	45.5	Ball	230 V a.c.	50/60	22/21	165/200	67/94	48.0/50.0	2,700/3,100	CE;
A12Z23HWBWF0	113x113x38	45.5	Ball	230 V a.c.	50/60	18/18	140/155	62/75	42.0/45.0	2,600/2,950	CE;
A17M12SWBMF0	172x150x55	162	Ball	115 V a.c.	50/60	42/42	332/391	137/157	49.0/53.0	2,800/3,250	CE;
A17M23SWBMF0	172x150x55	162	Ball	230 V a.c.	50/60	42/42	332/391	137/157	49.0/53.0	2,800/3,250	CE;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black thermoplastic
- Brushless motor
- Impedance protected motor
- Electrical connection: 2 leads

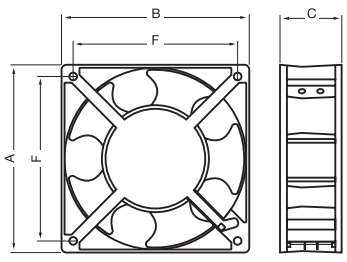
IP 55

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
E12B23HWBLF0	120x120x38	104.8	Ball	230 V a.c.	50/60	6/7	190/200	70/75	45.0/46.8	3000/3100	CE;

Technical specifications

Technical drawing



General specifications

- Casing and impeller in black fiberglass reinforced PBT
- Brushless motor
- Impedance or IC protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

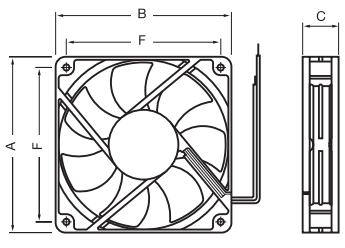
IP 55

Technical data

Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	W	m^3/h	Pa	dB(A)	Rpm	
D04D05HWBZF0	40x40x20	32	Ball	24 V d.c.	2.2	15	70	36.0	7,800	CE;
D04E05MWBTF0	40x40x10	32	Ball	24 V d.c.	1.9	8.5	19	22.0	4,800	CE;
D06A04LWBAF0	60x60x25	50	Ball	12 V d.c.	0.96	24	17	18.1	2,500	CE;
D06A05HWBAF0	60x60x25	50	Ball	24 V d.c.	3.6	41	44	35.2	4,500	CE;
D06A05SWBAF0	60x60x25	50	Ball	24 V d.c.	3.8	46	60	37.9	5,000	CE;
D07A04HWBAF0	70x70x25	60	Ball	12 V d.c.	2.3	61	55	35.5	4,200	CE;
D08A04HWBAF0	80x80x25	71.5	Ball	12 V d.c.	3.0	66	37	34.4	3,100	CE; cURus;
D08A04LWBAF0	80x80x25	71.5	Ball	12 V d.c.	1.4	44	18	22.5	2,100	CE;
D08A05HWBAF0	80x80x25	71.5	Ball	24 V d.c.	3.8	69	37	36.2	3,200	CE;
D08A05MWBAF0	80x80x25	71.5	Ball	24 V d.c.	2.6	55	25	29.4	2,500	CE;
D08A05SWBAF0	80x80x25	71.5	Ball	24 V d.c.	6.2	87	59	40.9	3,900	CE;
D09A05HWBZF0	92x92x25	82.5	Ball	24 V d.c.	3.6	95	36	37.5	2,900	CE;
D12A05HWBZF0	120x120x25	104.8	Ball	24 V d.c.	4.6	150	34	39.1	2,200	CE;
D12B04HWBAF0	120x120x38	104.8	Ball	12 V d.c.	6.0	179	66	46.7	2,800	CE;
D12B05HWBAF0	120x120x38	104.8	Ball	24 V d.c.	7.7	179	66	46.7	2,800	CE;
D12B07HWBAF0	120x120x38	104.8	Ball	48 V d.c.	9.6	179	66	46.7	2,800	CE;

Technical specifications

Technical drawing



General specifications

- Casing in black die cast aluminum alloy
- Metal impeller
- Shaded pole motor
- Impedance or thermally protected motor
- Electrical connection: 2 leads
- UL approval according to UL 507

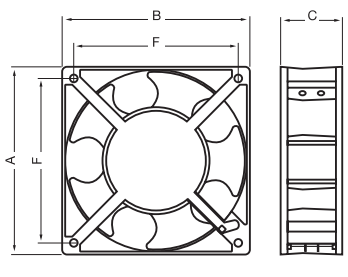
IP 20 Class I

Technical data

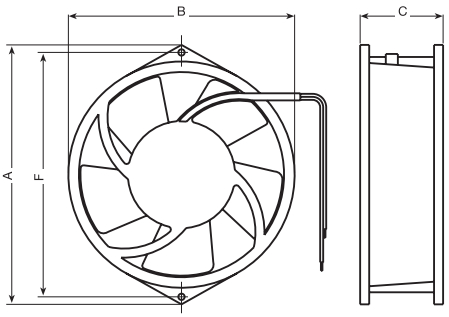
Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A09B12HWBM00	92x92x38	82.5	Ball	115 V a.c.	50/60	12/11	75/87	59/74	37.0/42.0	2,700/3,200	CE; cURus;
A09B23HWBM00	92x92x38	82.5	Ball	230 V a.c.	50/60	12/11	75/87	59/74	37.0/42.0	2,700/3,200	CE; cURus;
A12B12HTBM00	120x120x38	104.8	Ball	115 V a.c.	50/60	17/15	151/175	64/59	42.0/46.0	2,700/3,100	CE; cURus;
A12B12LTBM00	120x120x38	104.8	Ball	115 V a.c.	50/60	17/15	107/114	25/22	33.0/35.0	2,000/2,050	CE; cURus;
A12B23HTBM00	120x120x38	104.8	Ball	230 V a.c.	50/60	17/15	151/175	64/59	42.0/46.0	2,700/3,100	CE; cURus;
A12B23LTBM00	120x120x38	104.8	Ball	230 V a.c.	50/60	17/15	107/114	25/22	33.0/35.0	2,000/2,050	CE; cURus;
A17M12SWBM00	172x150x55	162	Ball	115 V a.c.	50/60	42/42	332/391	137/157	49.0/53.0	2,800/3,250	CE; cURus;
A17M23SWBM00	172x150x55	162	Ball	230 V a.c.	50/60	42/42	332/391	137/157	49.0/53.0	2,800/3,250	CE; cURus;
A17T12SWBM00	172x150x55	162	Ball	115 V a.c.	50/60	45/45	383/434	123/126	58.0/61.0	2,750/3,150	CE; cURus;
A17T23SWBM00	172x150x55	162	Ball	230 V a.c.	50/60	45/45	383/434	123/126	58.0/61.0	2,750/3,150	CE; cURus;

Technical specifications

A09BM / A12BM



A17MM / A17TM



General specifications

- Casing in black die cast aluminum alloy
- Metal impeller
- Shaded pole motor
- Impedance or thermally protected motor
- Electrical connection: 2 leads or flat terminals
- UL approval according to UL 507

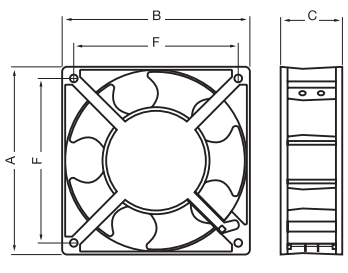
IP 20 | Class I | Class F

Technical data

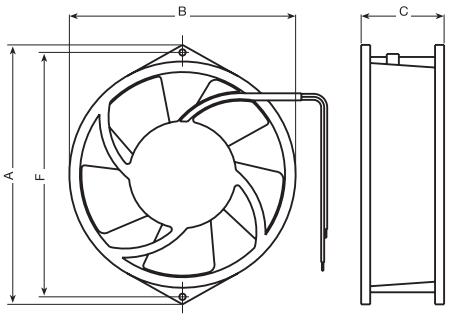
Model	Dimensions AxBxC	Holes (F)	Bearing	Rated Voltage	Freq.	Rated power	Max air flow	Static Pressure	Noise	Rated Speed	Approvals
	mm	mm		V	Hz	W	m^3/h	Pa	dB(A)	Rpm	
A09B12HWBMT0	92x92x38	82.5	Ball	115 V a.c.	50/60	12/11	75/87	59/74	37.0/42.0	2,700/3,200	CE;
A09B23HTBMT0	92x92x38	82.5	Ball	230 V a.c.	50/60	12/11	75/87	59/74	37.0/42.0	2,700/3,200	CE;
A12B12HTBMT0	120x120x38	104.8	Ball	115 V a.c.	50/60	17/15	150/175	64/59	42.0/46.0	2,700/3,100	CE;
A12B12LTBMT0	120x120x38	104.8	Ball	115 V a.c.	50/60	17/15	110/115	25/22	33.0/35.0	2,000/2,050	CE;
A12B23HTBMT0	120x120x38	104.8	Ball	230 V a.c.	50/60	17/15	150/175	64/59	42.0/46.0	2,700/3,100	CE; cURus;
A12B23LTBMT0	120x120x38	104.8	Ball	230 V a.c.	50/60	17/15	110/115	25/22	33.0/35.0	2,000/2,050	CE; cURus;
A17M12SWBMT0	172x150x55	162	Ball	115 V a.c.	50/60	42/42	332/391	137/157	49.0/53.0	2,800/3,250	CE; cURus;
A17M23SWBMT0	172x150x55	162	Ball	230 V a.c.	50/60	42/42	332/391	137/157	49.0/53.0	2,800/3,250	CE; cURus;
A17T12SWBMT0	172x150x55	162	Ball	115 V a.c.	50/60	45/45	383/434	123/123	58.0/61.0	2,750/3,150	CE; cURus;
A17T23SWBMT0	172x150x55	162	Ball	230 V a.c.	50/60	45/45	383/434	123/123	58.0/61.0	2,750/3,150	CE; cURus;

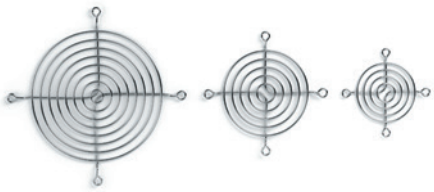
Technical specifications

A09BMT / A12BMT



A17MMT / A17TMT





General specifications

- Moving parts protection, according to EN ISO 12100 and EN ISO 13857 standards
- Material: steel wire AISI C1010
- Finishing: nickel-chrome plated

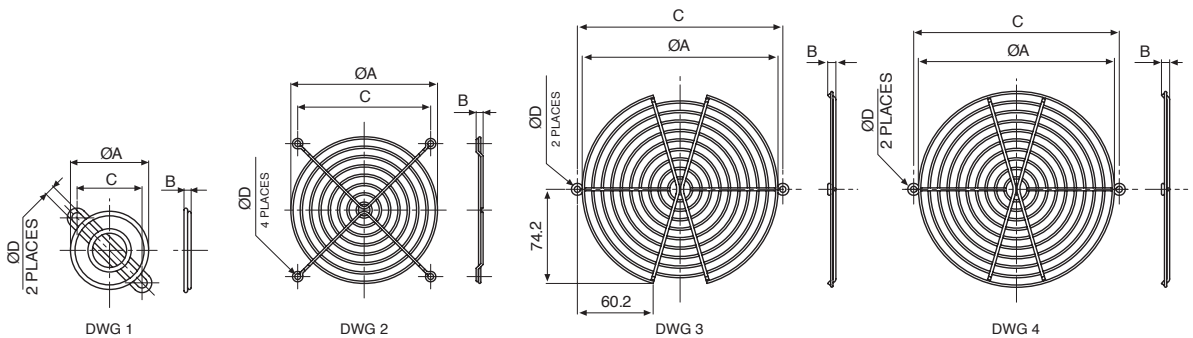
IP 20

Technical data

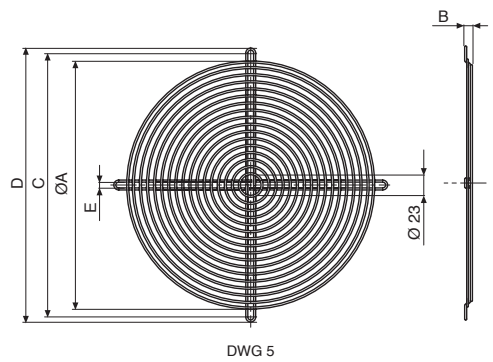
Model	Dwg	A	B	C	D
		mm	mm	mm	mm
25	1	24	2.2	20	3.2
40	2	29.1	4.8	32	4
45	2	38.3	3.8	37	4.3
50	2	42	3	40	5.2
60	2	53	4.4	50	4.6
80	2	76	5.5	71.5	4.9
92	2	90	5.5	82.5	4.9
120	2	115.6	5.5	105	4.6
127	2	115.6	6	113.3	4.6
150	4	154.4	6.5	162	4.8
150/S	3	154.4	6.5	162	4.8
GMP200NK	5	215	8.7	240	250
GMP250NK	5	278	8.7	295	307

Technical specifications

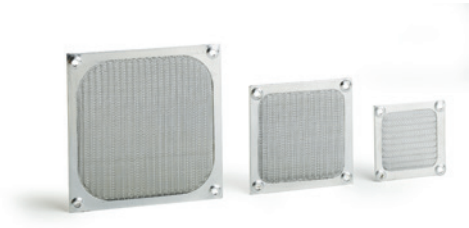
Technical drawing



Technical drawing



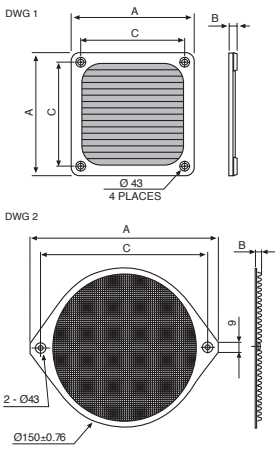
Accessories - frame fans
metal filters



General specifications

- Moving parts and dust protection, according to EN ISO 12100 and EN ISO 13857 standards
- Material
  - Net: 30x30 stainless steel corrugated mesh with 4.8 mm pitch and 3.3 mm depth
  - Frame: aluminum
- Color: natural

IP 40 emc



Technical data

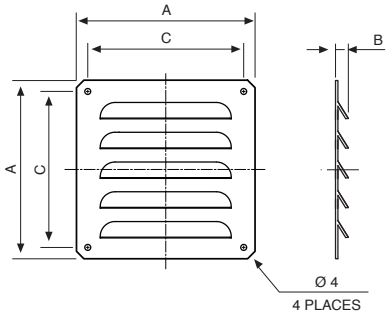
Model	Dwg	A	B	C
		mm	mm	mm
FM/60	1	60	2.5	50
FM/80	1	83.8	3.0	71.4
FM/92	1	92	3.5	82.5
FM/120	1	119	4.0	104.5
FM/150	2	182	4.2	162

Accessories - frame fans
metal ventilation louvres

General specifications

- Moving parts protection, according to EN ISO 12100 and EN ISO 13857 standards
- Material: steel plate with RAL 7035 epoxy powder coating

Model	A	B	C
	mm	mm	mm
G120M-7035	120	7.4	104.8



General specifications

- Moving parts protection, according to EN ISO 12100 and EN ISO 13857 standards
- Material: self-extinguishing ABS/PC alloy, according to UL 94V-0
- Finishing: nickel-chrome plated
- Color: black RAL 9005

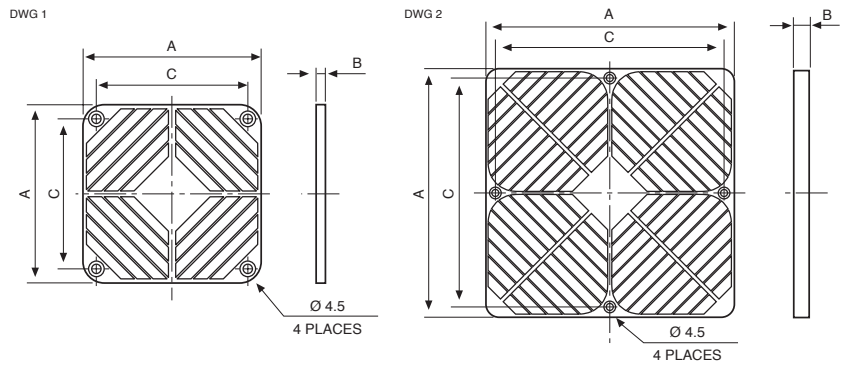
IP 20

Technical data

Model	Dwg	A	B	C
		mm	mm	mm
G40	1	42.3	3.3	32
G60	1	60	6	50
G80	1	81	5.5	71.4
G92	1	92	5.5	82.5
G120	1	121	6.5	104.8
G150	2	173	10.8	162

Technical specifications

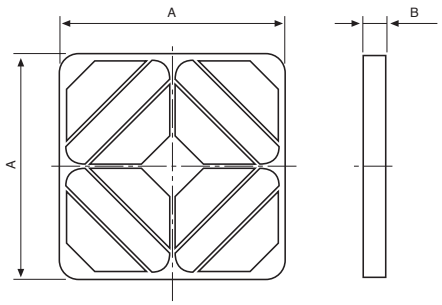
Technical drawing



Accessories - frame fans
plastic filters

General specifications

- Moving parts and dust protection, according to EN ISO 12100 and EN ISO 13857 standards
- Material
  - Plastic parts: black RAL 9005 self-extinguishing ABS/PC alloy, according to UL 94V-0
  - Filter media: white organic and synthetic fibres (polyester and polypropylene) heat bounded
  - Net: natural color fibreglass wiring Ø 0.28 mm, 18x16 mesh



IP 30

Technical data

Model	A	B
	mm	mm
F40/MR	46.4	6.5
F60/MR	64	12.2
F80/MR	86	12.2
F92/MR	97	12.2
F120/MR	126	13
F150/MR	179	24.7

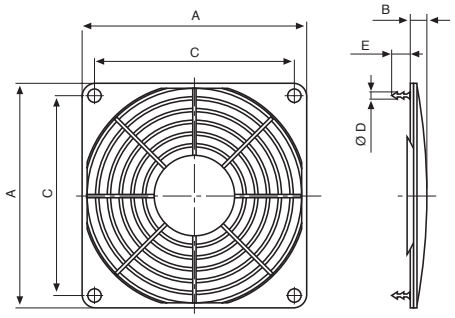
Accessories - frame fans
fast assembly plastic fan guards

General specifications

- Moving parts protection, according to EN ISO 12100 and EN ISO 13857 standards
- Material: Self-extinguishing ABS according to UL 94HB
- Color: black RAL 9005

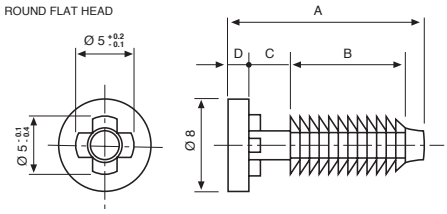
IP 20 FAST mounting

Model	A	B	C	D	E
	mm	mm	mm	mm	mm
G80/S	80	6.5	71.4	5.7	10
G120/S	120	7.3	104.8	5.7	12.2
G127/S	127.5	6.5	113.5	5.7	12

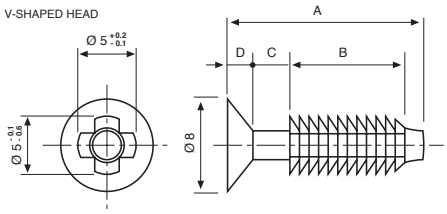


Accessories - frame fans
plastic rivets

ROUND FLAT HEAD



V-SHAPED HEAD



General specifications

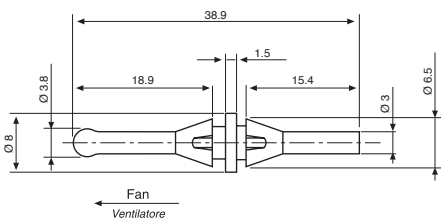
- Fast fan and guards mounting
- Material: self-extinguishing nylon 6, according to UL 94V-0
- Suitable for fans with fixing hole diameter from 4mm to 4.8mm
- Available with round flat head or V-shaped head
- Two different stem lengths, 17mm and 22mm
- Color: black RAL 9005 or grey RAL 7032

FAST mounting

Technical data

Model	A	B	C	D	Description	Color
	mm	mm	mm	mm		0
FAR175TPN	17	10	3.6	1.8	Flat	9005 (Black)
FAR175TPR	17	10	3.6	1.8	Flat	7032 (Grey)
FAR175TSN	17	10	3.2	2.2	V-shaped	9005 (Black)
FAR175TSR	17	10	3.2	2.2	V-shaped	7032 (Grey)
FAR225TPN	22	15	3.8	1.8	Flat	9005 (Black)
FAR225TPR	22	15	3.8	1.8	Flat	7032 (Grey)
FAR225TSN	22	15	3.0	2.6	V-shaped	9005 (Black)
FAR225TSR	22	15	3.0	2.6	V-Shaped	7032 (Grey)

Accessories - frame fans
elastic rivets



General specifications

- Fast fan mounting and dismounting, vibration and noise reduction
- Material: EPDM rubber, 63 shore A hardness
- Color: black

FAST mounting

Model
EAR4401N

General specifications

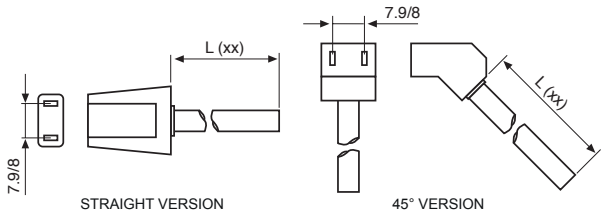
- Quick fans power connection or disconnection with standard terminal male plugs
- Plug material: self-extinguishing PVC
- Versions available:
  - straight plug connection
  - 45° plug connection
- daisy chain plugs for multiple connections
- Other lengths are available on request, subject to quantity
- Cable type: flat flexible wire without sheath, H03VH-H according to CEI 20-20 or equivalent
- Color: black

Technical data

Model	Length of cable "L"	Description
	mm	
C24-45	610	45°
C24	610	Straight
C36-45	910	45°
C36	910	Straight
C60	1.520	Straight

Technical specifications

Technical drawing



Technical drawing