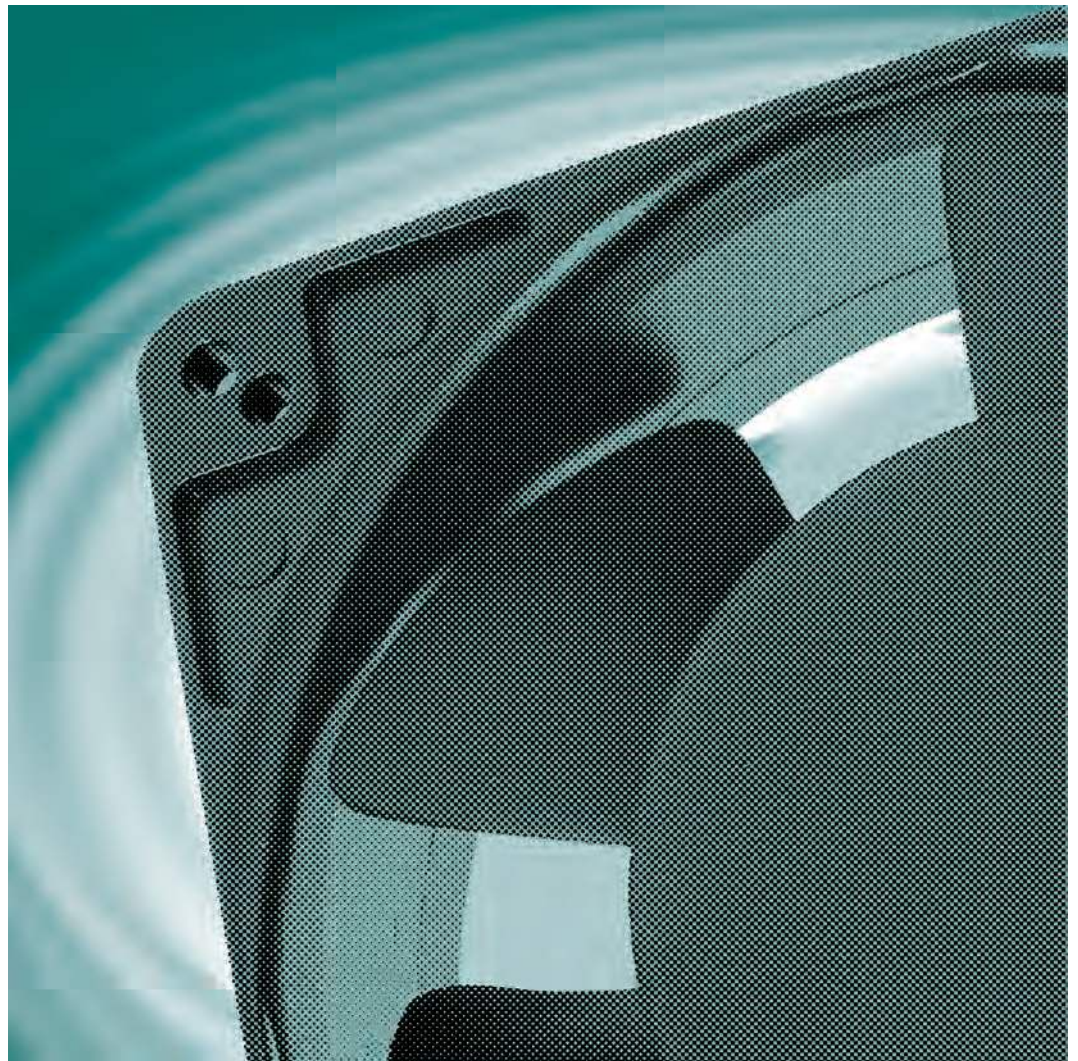


ESMERIS

frame fans

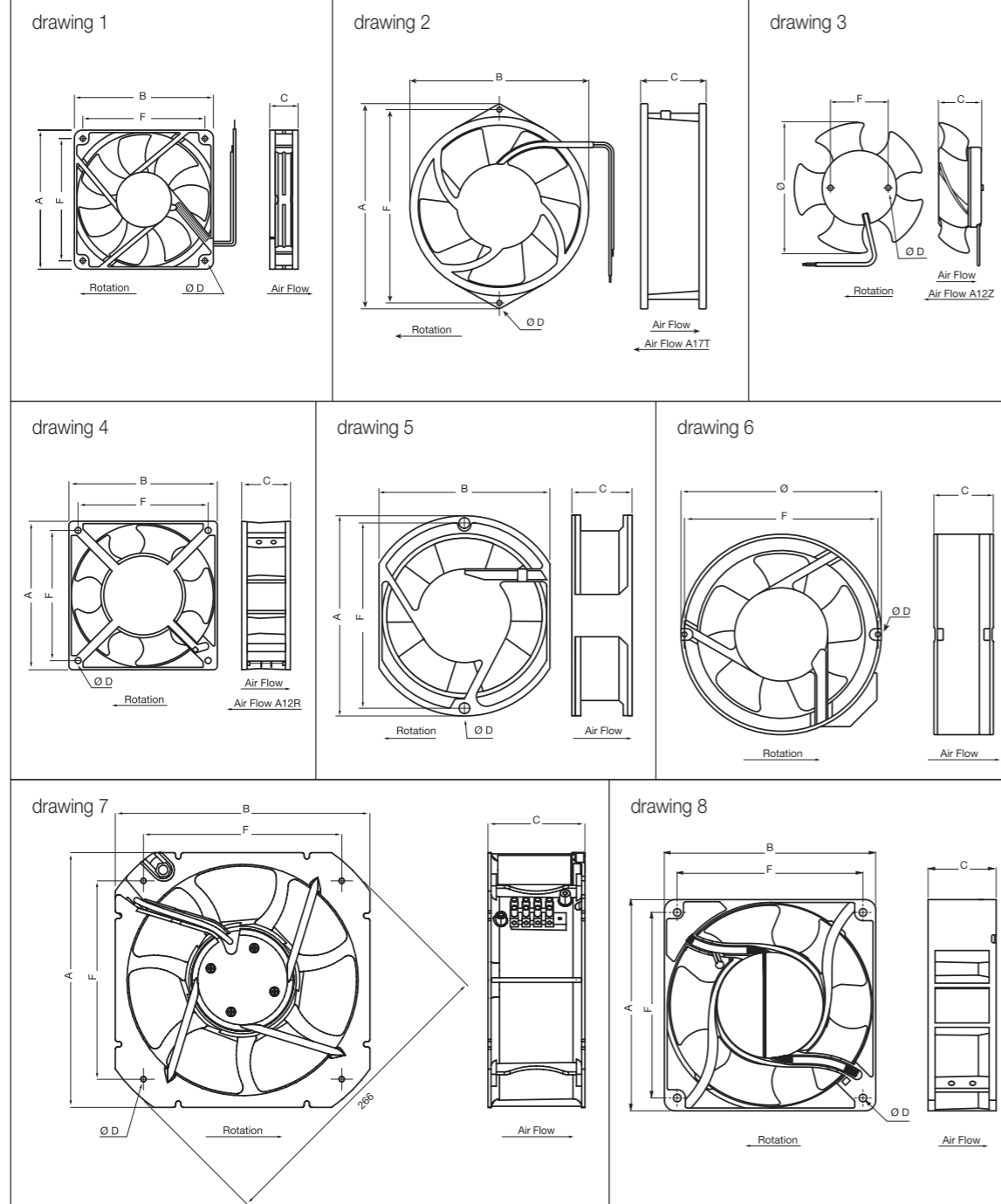
Standard and value-added
costech frame fans
with a comprehensive
range of accessories



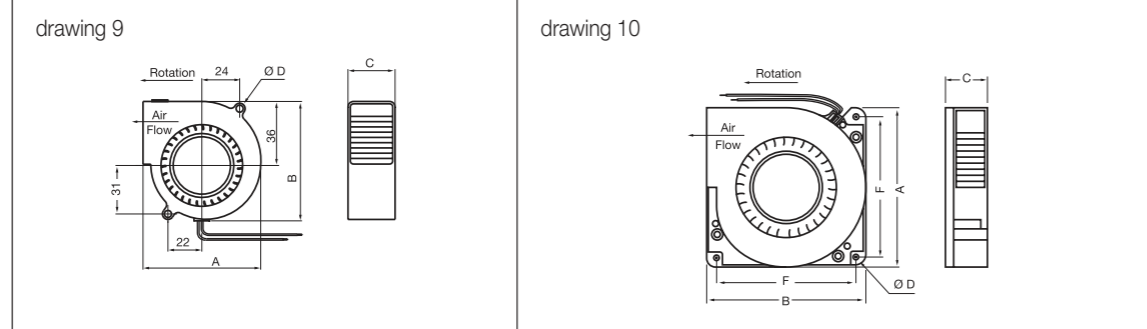
Fandis
colors of engineering

Technical specifications

AC and DC frame fans drawings

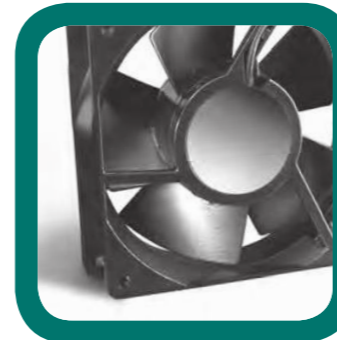


DC blowers drawings



Model numbering system

| 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 | | | | | | | | | | OPTIONS 00 = no option A = alarm output S = speed signal output I = variable speed with integrated thermistor V = variable speed with external thermistor M = digital PWM speed control T = for high temperature ambient F = motor IP55 protected H = motor IP25 protected Wnn = wires length out of standard Qnn = special version |
| 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 | | | | | | | | | | DESIGN BEARING TYPE B = shielded ball S = sleeve |
| 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 | | | | | | | | | | CONNECTION K = terminals block T = flat terminals 110 series (2.8x0.5 mm) W = lead wire |
| | | | | | | | | | | 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. 40 = 400 V a.c. 3 phase 07 = 48 V d.c. |



- 04 **Standard versions**
A wide range of a.c. and d.c. frame fan types, available in standard and custom design



- 13 **Special versions**
Dedicated solutions for high performance operation in particularly hostile ambient conditions and with adjustable speed control
- 14 **IP25/IP55 frame fans**
- 18 **HTR and All metal frame fans**
- 20 **Temperated controlled frame fans**
- 21 **DC fans with signal lead**



- 22 **Accessories**
A complete set of standard fan accessories including plastic and metal fan guards, filters, rivets and power leads



- 28 **IP protection degree table**
IP protection degree for enclosures of electrical equipment according to EN 60529

General description

costech standard Frame Fans

A broad selection of standard and custom designed models of axial and centrifugal frame fans, driven by a.c. shaded pole or capacitor motor, or alternatively with a brushless d.c. motor.

Available in various sizes, rated voltages and fan speeds, these fans cover the different requirements of electronics

ventilation and meet tough specifications as to compactness, efficiency and cost effectiveness.

Depending on the application, the frame fans can be fitted with either extremely durable ball bearings or with profitable sleeve bearing system, assuring smooth running.



General specifications

AC frame fans

- Casing in black die cast aluminium alloy, except C22S (natural)
- Impeller in fibreglass reinforced PBT or PA, self-extinguishing UL 94V-0
- Shaded pole or capacitor run induction motor
- Motors thermally protected or by impedance
- Performance data for all models at rated frequency of 50/60 Hz
- Operating temperature range:
 - Ball Bearing -40°C ... +70°C
 - Sleeve Bearing -10°C ... +60°C
- Life L10 at 65% R.H.:
 - Ball Bearing 40,000 hrs at 40°C 20,000 hrs at T max
 - Sleeve Bearing 30,000 hrs at 40°C 15,000 hrs at T max
- Fans made in EU, China or Taiwan
- Available options:
 - IP55 protected (option F)
 - high temperature resistant (option T)
 - bi-directional flow (only for fans without shaded pole motor)
 - fans with impeller in steel
 - special voltage
- Modification of standard fans available on request, subject to quantity
- UL (Underwriters Laboratories) approved, Canada/U.S.A., file no. E223195
- VDE (Verband Der Elektrotechnik) approved for Europe
- CE, in compliance with EN 60335-1 standard

DC frame fans

- Casing in black fibreglass reinforced PBT, self-extinguishing UL 94V-0 except models D17C and D22S, made of die cast aluminium alloy
- Impeller in fibreglass reinforced PBT or PA, self-extinguishing UL 94V-0
- Brushless external rotor motor with auto-restart
- Motors protected by impedance and polarity inversion except models D12, D17 and D22 which are protected by Integrated Circuit against locked rotor and polarity inversion
- Operating temperature range:
 - Ball Bearing -20°C ... +70°C
 - Sleeve Bearing -10°C ... +60°C
- Life L10 at 65% R.H.:
 - Ball Bearing 70,000 hrs at 40°C 40,000 hrs at T max
 - Sleeve Bearing 50,000 hrs at 40°C 35,000 hrs at T max
- Fans made in EU, China or Taiwan
- Available options:
 - third wire alarm detecting failure or locked rotor by IC (option A)
 - third wire speed signal detecting failure or abnormal rotation (option S)
 - internal thermistor detecting temperature of air for speed variation (option I)
 - third wire detecting temperature for speed variation by external thermistor (option V)
 - digital PWM speed control (option M)
 - humidity protected (option H)
 - IP55 protected (option F)
- Modification of standard fans available on request, subject to quantity
- UL (Underwriters Laboratories) approved, Canada/U.S.A., file no. E223195
- CE, in compliance with EN 60335-1 standard

Technical data AC frame fans

Technical data AC frame fans

| Model | Dimensions AxBxC | Holes | | Draw. | Bearings Options "X" | | Rated Voltage | Freq. | Rated Power | Max Air Flow | Static Pressure | Noise | Rated Speed | Approvals | | |
|------------------|---------------------|-------|------|-------|-------------------------|------|------------------|-------|----------------|-----------------|--------------------|-----------|----------------|-----------|-----|-----|
| | | F | ØD | | Sleeve | Ball | | | | | | | | UR | cUR | VDE |
| | (mm) | (mm) | (mm) | No. | | | (V a.c.) | (Hz) | (W) | (m³/h)* | (Pa)* | [dB(A)]* | (Rpm)* | | | |
| A06G12HWBF00 | 60x60x30 | 50 | 4.3 | 1 | | o | 115 | 50/60 | 5/4 | 14/17 | 18/27 | 27.0/28.0 | 2,400/3,000 | A | A | |
| A06G23HWBF00 | 60x60x30 | 50 | 4.3 | 1 | | o | 230 | 50/60 | 5/4 | 14/17 | 18/27 | 27.0/28.0 | 2,400/3,000 | A | A | |
| A08A12HWXF00 | 80x80x25 | 71.5 | 4.3 | 1 | o | o | 115 | 50/60 | 14/11 | 36/41 | 40/55 | 32.0/35.0 | 2,600/3,100 | A | A | |
| A08A23HWXF00 | 80x80x25 | 71.5 | 4.3 | 1 | o | o | 230 | 50/60 | 16/14 | 36/41 | 40/55 | 32.0/35.0 | 2,600/3,100 | A | | |
| A08B12HWXF00 | 80x80x38 | 71.5 | 4.3 | 1 | o | o | 115 | 50/60 | 14/12 | 41/51 | 40/55 | 32.0/36.0 | 2,500/3,000 | A | A | |
| A08B12LWXF00 | 80x80x38 | 71.5 | 4.3 | 1 | o | o | 115 | 50/60 | 12/9 | 33/42 | 25/40 | 28.0/32.0 | 1,900/2,400 | A | A | |
| A08B23HWXF00 | 80x80x38 | 71.5 | 4.3 | 1 | o | o | 230 | 50/60 | 14/12 | 41/51 | 40/55 | 32.0/36.0 | 2,500/3,000 | A | | |
| A08B23LWXF00 | 80x80x38 | 71.5 | 4.3 | 1 | o | o | 230 | 50/60 | 14/12 | 33/42 | 25/40 | 28.0/32.0 | 1,900/2,400 | A | | |
| A09A12HTXF00 | 92x92x25 | 82.5 | 4.3 | 4 | o | o | 115 | 50/60 | 14/11 | 56/68 | 45/66 | 32.0/36.0 | 2,500/3,000 | A | A | |
| A09A23HTXF00 | 92x92x25 | 82.5 | 4.3 | 4 | o | o | 230 | 50/60 | 16/14 | 56/68 | 45/66 | 32.0/36.0 | 2,500/3,000 | A | | |
| A12A12HTXF00 | 120x120x25 | 104.8 | 4.3 | 4 | o | o | 115 | 50/60 | 14/11 | 110/130 | 52/53 | 38.0/42.0 | 2,400/2,900 | A | A | |
| A12A23HTXF00 | 120x120x25 | 104.8 | 4.3 | 4 | o | o | 230 | 50/60 | 16/14 | 110/130 | 52/53 | 38.0/42.0 | 2,400/2,900 | A | | |
| A12B05HTXW00 | 119x119x38 | 104.8 | 4.3 | 4 | o | o | 24 | 50/60 | 14/14 | 133/167 | 60/80 | 46.0/49.0 | 2,650/2,850 | | | |
| A12B12STXW00 | 119x119x38 | 104.8 | 4.3 | 4 | o | o | 115 | 50/60 | 22/20 | 161/195 | 82/95 | 45.0/50.0 | 2,700/3,100 | A | A | A |
| A12B12HTXW00 | 119x119x38 | 104.8 | 4.3 | 4 | o | o | 115 | 50/60 | 20/18 | 136/168 | 57/80 | 46.0/49.0 | 2,750/3,050 | A | A | A |
| A12B12MTXW00 | 119x119x38 | 104.8 | 4.3 | 4 | o | o | 115 | 50/60 | 16/15 | 126/133 | 52/62 | 44.0/46.0 | 2,500/2,700 | A | A | A |
| A12B12VTXW00 | 119x119x38 | 104.8 | 4.3 | 4 | o | o | 115 | 50/60 | 10/10 | 98/105 | 28/28 | 34.0/35.0 | 1,850/1,900 | A | A | A |
| ★ A12R12HTXW00 | 119x119x38 | 104.8 | 4.3 | 4 | o | o | 115 | 50/60 | 19/18 | 140/155 | 62/75 | 42.0/45.0 | 2,600/2,950 | A | A | A |
| A12B23HTXW00 | 119x119x38 | 104.8 | 4.3 | 4 | o | o | 230 | 50/60 | 20/19 | 148/182 | 65/80 | 46.0/49.0 | 2,750/3,050 | A | A | A |
| A12B23MTXW00 | 119x119x38 | 104.8 | 4.3 | 4 | o | o | 230 | 50/60 | 16/15 | 133/143 | 35/52 | 43.0/45.0 | 2,400/2,600 | A | A | A |
| A12B23LTXW00 | 119x119x38 | 104.8 | 4.3 | 4 | o | o | 230 | 50/60 | 11/10 | 114/102 | 27/22 | 43.0/42.0 | 2,200/1,800 | A | A | A |
| A12B23VTXW00 | 119x119x38 | 104.8 | 4.3 | 4 | o | o | 230 | 50/60 | 10/10 | 98/105 | 28/28 | 34.0/35.0 | 1,800/1,900 | | | A |
| A12B23ETXW00 | 119x119x38 | 104.8 | 4.3 | 4 | o | o | 230 | 50/60 | 6.5/6.0 | 85/83 | 19/16 | 29.0/28.0 | 1,500/1,450 | | | A |
| ★ A12R23HTXW00 | 119x119x38 | 104.8 | 4.3 | 4 | o | o | 230 | 50/60 | 18/18 | 140/155 | 62/75 | 42.0/45.0 | 2,600/2,950 | A | A | A |
| ● A12W12HWXW00 | ø 113x38 | 45.5 | M4 | 3 | o | o | 115 | 50/60 | 20/18 | 150/167 | 66/81 | 43.0/48.0 | 2,650/2,950 | A | A | |
| ★ ● A12Z12HWXW00 | ø 113x38 | 45.5 | M4 | 3 | o | o | 115 | 50/60 | 19/18 | 150/167 | 66/81 | 43.0/48.0 | 2,650/2,950 | | | |
| ● A12W23HWXW00 | ø 113x38 | 45.5 | M4 | 3 | o | o | 230 | 50/60 | 20/19 | 148/182 | 65/80 | 46.0/49.0 | 2,550/2,900 | A | A | |
| ★ ● A12Z23HWXW00 | ø 113x38 | 45.5 | M4 | 3 | o | o | 230 | 50/60 | 18/18 | 148/182 | 65/80 | 46.0/49.0 | 2,550/2,900 | | | |
| A13B12HTXF00 | 127x127x38 | 113.5 | 4.3 | 4 | o | o | 115 | 50/60 | 17/15 | 174/204 | 72/28 | 46.0/50.0 | 2,700/3,000 | A | A | |
| A13B23HTXF00 | 127x127x38 | 113.5 | 4.3 | 4 | o | o | 230 | 50/60 | 17/15 | 174/204 | 72/28 | 46.0/50.0 | 2,700/3,000 | A | A | |
| C17B12HTBF00 | 172x150x38 | 162 | 4.3 | 5 | | o | 115 | 50/60 | 29/28 | 300/360 | 167/187 | 54.0/58.0 | 2,850/3,400 | A | A | |
| C17B23HTBF00 | 172x150x38 | 162 | 4.3 | 5 | | o | 230 | 50/60 | 27/26 | 300/360 | 167/187 | 54.0/58.0 | 2,850/3,400 | A | A | |
| C17C12HTBF00 | 172x150x51 | 162 | 4.3 | 5 | | o | 115 | 50/60 | 31/31 | 348/384 | 157/197 | 53.0/58.0 | 2,850/3,400 | A | A | |

| Model | Dimensions AxBxC | Holes | | Draw. | Bearings Options "X" | | Rated Voltage | Freq. | Rated Power | Max Air Flow | Static Pressure | Noise | Rated Speed | Approvals | | |
|--------------|---------------------|-------|------|-------|-------------------------|------|------------------|-------|----------------|-----------------|--------------------|-----------|----------------|-----------|-----|-----|
| | | F | ØD | | Sleeve | Ball | | | | | | | | UR | cUR | VDE |
| | (mm) | (mm) | (mm) | No. | | | (V a.c.) | (Hz) | (W) | (m³/h)* | (Pa)* | [dB(A)]* | (Rpm)* | | | |
| C17C23HTBF00 | 172x150x51 | 162 | 4.3 | 5 | | o | 230 | 50/60 | 29/29 | 348/384 | 157/197 | 53.0/58.0 | 2,850/3,400 | A | A | |
| A17C12HWBF00 | 172x150x51 | 162 | 4.3 | 5 | | o | 115 | 50/60 | 32/28 | 290/331 | 105/95 | 50.0/55.0 | 2,750/3,100 | A | A | |
| A17C23HWBF00 | 172x150x51 | 162 | 4.3 | 5 | | o | 230 | 50/60 | 35/30 | 290/331 | 105/95 | 50.0/55.0 | 2,750/3,100 | A | A | |
| C18C12HTBF00 | ø 172x51 | 162 | 4.3 | 6 | | o | 115 | 50/60 | 30/30 | 348/384 | 157/197 | 50.0/55.0 | 2,850/3,400 | A | A | |
| C18C23HTBF00 | ø 172x51 | 162 | 4.3 | 6 | | o | 230 | 50/60 | 29/29 | 348/384 | 157/197 | 50.0/55.0 | 2,850/3,400 | A | A | |
| C22S12HKBD00 | 218x218x83 | 170 | 4.5 | 7 | | o | 115 | 50/60 | 65/76 | 802/875 | 155/163 | 61.0/63.0 | 2,160/2,310 | | | |
| C22S23HKBD00 | 218x218x83 | 170 | 4.5 | 7 | | o | 230 | 50/60 | 83/93 | 836/925 | 170/190 | 65.0/68.0 | 2,070/2,480 | | | |
| C22S40HKBD00 | 218x218x83 | 170 | 4.5 | 7 | | o | 400 | 50/60 | 166 | 970 | 245 | 65.0 | 2,620 | | | |

★ = Air intake over struts
● = Without casing

A = Approved
X = S (Sleeve) or B (Ball)

(*) data with uncertainty of ± 15%

Technical data DC frame fans

| Model | Dimensions AxBxC | Holes | | Draw. | Bearings Options "X" | | Rated Voltage | Voltage Range | Rated Power | Max Air Flow | Static Pressure | Noise | Rated Speed | Approvals | |
|--------------|---------------------|-------|------|-------|-------------------------|------|------------------|------------------|----------------|-----------------|--------------------|----------|----------------|-----------|-----|
| | | F | ØD | | Sleeve | Ball | | | | | | | | UR | cUR |
| | (mm) | (mm) | (mm) | No. | Sleeve | Ball | (V d.c.) | (V d.c.) | (W) | (m³/h)* | (Pa)* | [dB(A)]* | (Rpm)* | UR | cUR |
| D20N01MWXA00 | 20x20x6.5 | 16 | 2.4 | 1 | o | | 5 | 4...6 | 0.75 | 1.4 | 37 | 26.9 | 14,000 | | |
| D20N01LWXA00 | 20x20x6.5 | 16 | 2.4 | 1 | o | | 5 | 4...6 | 0.50 | 1.0 | 19 | 19.5 | 10,500 | | |
| D20N04MWXA00 | 20x20x6.5 | 16 | 2.4 | 1 | o | | 12 | 7...13 | 0.84 | 1.4 | 37 | 26.9 | 14,000 | | |
| D20N04LWXA00 | 20x20x6.5 | 16 | 2.4 | 1 | o | | 12 | 7...13 | 0.72 | 1.0 | 19 | 19.5 | 10,500 | | |
| D20E01MWXA00 | 20x20x10 | 16 | 2.4 | 1 | o | o | 5 | 4...6 | 0.70 | 1.4 | 20 | 26.0 | 11,500 | A | A |
| D20E01LWXA00 | 20x20x10 | 16 | 2.4 | 1 | o | o | 5 | 4...6 | 0.40 | 1.0 | 12 | 20.0 | 9,000 | A | A |
| D20E04MWXA00 | 20x20x10 | 16 | 2.4 | 1 | o | o | 12 | 7...13 | 0.72 | 1.4 | 20 | 26.0 | 11,500 | A | A |
| D20E04LWXA00 | 20x20x10 | 16 | 2.4 | 1 | o | o | 12 | 7...13 | 0.84 | 1.0 | 12 | 20.0 | 9,000 | A | A |
| D02N01MWXA00 | 25x25x6.5 | 20 | 2.8 | 1 | o | | 5 | 4...6 | 0.56 | 4.1 | 46 | 29.0 | 12,000 | A | A |
| D02N01LWXA00 | 25x25x6.5 | 20 | 2.8 | 1 | o | | 5 | 4...6 | 0.43 | 3.1 | 27 | 22.0 | 9,000 | A | A |
| D02N04MWXA00 | 25x25x6.5 | 20 | 2.8 | 1 | o | | 12 | 7...13 | 0.64 | 4.1 | 46 | 29.0 | 12,000 | A | A |
| D02N04LWXA00 | 25x25x6.5 | 20 | 2.8 | 1 | o | | 12 | 7...13 | 0.55 | 3.1 | 27 | 22.0 | 9,000 | A | A |
| D02E01HWXZ00 | 25x25x10 | 20 | 2.8 | 1 | o | o | 5 | 4...6 | 0.70 | 4.3 | 50 | 29.0 | 12,000 | A | A |
| D02E01MWXZ00 | 25x25x10 | 20 | 2.8 | 1 | o | o | 5 | 4...6 | 0.50 | 3.6 | 37 | 23.0 | 10,000 | A | A |
| D02E04HWXZ00 | 25x25x10 | 20 | 2.8 | 1 | o | o | 12 | 7...13 | 1.1 | 4.3 | 50 | 29.0 | 12,000 | A | A |
| D02E04MWXZ00 | 25x25x10 | 20 | 2.8 | 1 | o | o | 12 | 7...13 | 0.96 | 3.6 | 37 | 23.0 | 10,000 | A | A |
| D03N01MWXA00 | 30x30x6.5 | 24 | 3.2 | 1 | o | | 5 | 4...6 | 0.60 | 5.2 | 34 | 27.9 | 9,000 | | |
| D03N01LWXA00 | 30x30x6.5 | 24 | 3.2 | 1 | o | | 5 | 4...6 | 0.45 | 4.3 | 27 | 20.0 | 7,500 | A | A |
| D03N04MWXA00 | 30x30x6.5 | 24 | 3.2 | 1 | o | | 12 | 7...13 | 1.2 | 5.2 | 34 | 27.9 | 9,000 | | |
| D03N04LWXA00 | 30x30x6.5 | 24 | 3.2 | 1 | o | | 12 | 7...13 | 0.72 | 4.3 | 27 | 20.0 | 7,500 | A | A |
| D03E01MWXA00 | 30x30x10 | 24 | 3.2 | 1 | o | o | 5 | 4...6 | 0.65 | 6.4 | 42 | 28.0 | 9,000 | A | A |
| D03E01LWXA00 | 30x30x10 | 24 | 3.2 | 1 | o | o | 5 | 4...6 | 0.60 | 5.5 | 30 | 20.2 | 8,000 | A | A |
| D03E04MWXA00 | 30x30x10 | 24 | 3.2 | 1 | o | o | 12 | 7...13 | 0.60 | 6.4 | 42 | 28.0 | 9,000 | A | A |
| D03E04LWXA00 | 30x30x10 | 24 | 3.2 | 1 | o | o | 12 | 7...13 | 0.35 | 5.5 | 30 | 20.2 | 8,000 | A | A |
| D35N01MWXA00 | 35x35x6.5 | 29 | 3.2 | 1 | o | | 5 | 4...6 | 0.70 | 7.3 | 29 | 28.0 | 8,000 | | |
| D35N01LWXA00 | 35x35x6.5 | 29 | 3.2 | 1 | o | | 5 | 4...6 | 0.50 | 6.0 | 19 | 19.0 | 6,500 | | |
| D35N04MWXA00 | 35x35x6.5 | 29 | 3.2 | 1 | o | | 12 | 7...13 | 0.96 | 7.3 | 29 | 28.0 | 8,000 | | |
| D35N04LWXA00 | 35x35x6.5 | 29 | 3.2 | 1 | o | | 12 | 7...13 | 0.72 | 6.0 | 19 | 19.0 | 6,500 | | |
| D04N01HWXA00 | 40x40x6.5 | 32 | 3.2 | 1 | o | | 5 | 4...6 | 0.60 | 9.9 | 26 | 27.0 | 6,300 | A | A |
| D04N01MWXA00 | 40x40x6.5 | 32 | 3.2 | 1 | o | | 5 | 4...6 | 0.45 | 8.8 | 19 | 23.8 | 5,500 | A | A |
| D04N04HWXA00 | 40x40x6.5 | 32 | 3.2 | 1 | o | | 12 | 7...13 | 0.96 | 9.9 | 26 | 27.0 | 6,300 | A | A |
| D04N04MWXA00 | 40x40x6.5 | 32 | 3.2 | 1 | o | | 12 | 7...13 | 0.72 | 8.8 | 19 | 23.8 | 5,500 | A | A |
| D04E01HWXT00 | 40x40x10 | 32 | 4.2 | 1 | o | o | 5 | 4...6 | 0.95 | 11 | 25 | 25.0 | 6,000 | A | A |

Technical data DC frame fans

| Model | Dimensions AxBxC | Holes | | Draw. | Bearings Options "X" | | Rated Voltage | Voltage Range | Rated Power | Max Air Flow | Static Pressure | Noise | Rated Speed | Approvals | |
|--------------|---------------------|-------|------|-------|-------------------------|------|------------------|------------------|----------------|-----------------|--------------------|----------|----------------|-----------|-----|
| | | F | ØD | | Sleeve | Ball | | | | | | | | UR | cUR |
| | (mm) | (mm) | (mm) | No. | Sleeve | Ball | (V d.c.) | (V d.c.) | (W) | (m³/h)* | (Pa)* | [dB(A)]* | (Rpm)* | UR | cUR |
| D04E01MWXT00 | 40x40x10 | 32 | 4.2 | 1 | o | o | 5 | 4...6 | 0.55 | 9.5 | 20 | 19.0 | 4,800 | A | A |
| D04E04HWXT00 | 40x40x10 | 32 | 4.2 | 1 | o | o | 12 | 7...13 | 1.2 | 11 | 25 | 25.0 | 6,000 | A | A |
| D04E04MWXT00 | 40x40x10 | 32 | 4.2 | 1 | o | o | 12 | 7...13 | 0.96 | 8.5 | 20 | 22.0 | 4,800 | A | A |
| D04E05HWXT00 | 40x40x10 | 32 | 4.2 | 1 | o | o | 24 | 17...27 | 2.2 | 11 | 25 | 25.0 | 6,000 | A | A |
| D04E05MWXT00 | 40x40x10 | 32 | 4.2 | 1 | o | o | 24 | 17...27 | 1.9 | 8.5 | 20 | 22.0 | 4,800 | A | A |
| D04F04HWXA00 | 40x40x15 | 32 | 3.5 | 1 | o | o | 12 | 7...13 | 1.4 | 15 | 61 | 39.3 | 8,000 | A | A |
| D04F04MWXA00 | 40x40x15 | 32 | 3.5 | 1 | o | o | 12 | 7...13 | 1.2 | 13 | 45 | 31.8 | 7,000 | A | A |
| D04F04LWXA00 | 40x40x15 | 32 | 3.5 | 1 | o | o | 12 | 7...13 | 0.96 | 11 | 35 | 27.5 | 6,000 | A | A |
| D04D04HWXZ00 | 40x40x20 | 32 | 3.5 | 1 | o | o | 12 | 7...13 | 1.2 | 15 | 70 | 36.0 | 7,800 | A | A |
| D04D04MWXZ00 | 40x40x20 | 32 | 3.5 | 1 | o | o | 12 | 7...13 | 0.96 | 13 | 60 | 28.5 | 6,900 | A | A |
| D04D05HWXZ00 | 40x40x20 | 32 | 3.5 | 1 | o | o | 24 | 17...27 | 2.2 | 15 | 70 | 36.0 | 7,800 | A | A |
| D04D05MWXZ00 | 40x40x20 | 32 | 3.5 | 1 | o | o | 24 | 17...27 | 1.7 | 13 | 60 | 28.5 | 6,900 | A | A |
| D45N01HWXA00 | 45x45x6.5 | 37 | 3.2 | 1 | o | | 5 | 7...13 | 0.70 | 14 | 26 | 32.6 | 6,000 | | |
| D45N01MWXA00 | 45x45x6.5 | 37 | 3.2 | 1 | o | | 5 | 7...13 | 0.45 | 13 | 21 | 25.5 | 5,000 | | |
| D45N04HWXA00 | 45x45x6.5 | 37 | 3.2 | 1 | o | | 12 | 17...27 | 1.2 | 14 | 26 | 32.6 | 6,000 | | |
| D45N04MWXA00 | 45x45x6.5 | 37 | 3.2 | 1 | o | | 12 | 17...27 | 1.1 | 13 | 21 | 25.5 | 5,000 | | |
| D45E01HWXA00 | 45x45x10 | 37 | 4.2 | 1 | o | o | 5 | 4...6 | 1.0 | 15 | 25 | 27.4 | 5,500 | A | A |
| D45E01MWXA00 | 45x45x10 | 37 | 4.2 | 1 | o | o | 5 | 4...6 | 0.30 | 12 | 18 | 22.0 | 4,500 | A | A |
| D45E04HWXA00 | 45x45x10 | 37 | 4.2 | 1 | o | o | 12 | 7...13 | 1.1 | 15 | 25 | 27.4 | 5,500 | A | A |
| D45E04MWXA00 | 45x45x10 | 37 | 4.2 | 1 | o | o | 12 | 7...13 | 0.84 | 12 | 18 | 22.0 | 4,500 | A | A |
| D50E04MWXA00 | 50x50x10 | 40 | 4.3 | 1 | o | o | 12 | 7...13 | 1.4 | 15 | 14 | 24.0 | 4,300 | A | A |
| D50E04LWXA00 | 50x50x10 | 40 | 4.3 | 1 | o | o | 12 | 7...13 | 1.2 | 10 | 10 | 20.0 | 3,700 | A | A |
| D50F04SWXA00 | 50x50x15 | 40 | 4.3 | 1 | o | o | 12 | 9...13 | 2.4 | 29 | 48 | 33.8 | 5,500 | A | A |
| D50F04HWXA00 | 50x50x15 | 40 | 4.3 | 1 | o | o | 12 | 9...13 | 1.7 | 24 | 36 | 30.9 | 4,800 | A | A |
| D50F04MWXA00 | 50x50x15 | 40 | 4.3 | 1 | o | o | 12 | 9...13 | 1.2 | 22 | 27 | 29.0 | 4,300 | A | A |
| D50F04LWXA00 | 50x50x15 | 40 | 4.3 | 1 | o | o | 12 | 9...13 | 0.96 | 19 | 23 | 22.7 | 3,600 | A | A |
| D06E01HWXT00 | 60x60x10 | 50 | 4.3 | 1 | o | o | 5 | 4...6 | 0.75 | 24 | 27 | 33.1 | 4,900 | A | A |
| D06E01MWXT00 | 60x60x10 | 50 | 4.3 | 1 | o | o | 5 | 4...6 | 0.75 | 20 | 20 | 28.7 | 4,200 | A | A |
| D06E04HWXT00 | 60x60x10 | 50 | 4.3 | 1 | o | o | 12 | 7...13 | 1.8 | 24 | 27 | 33.1 | 4,900 | A | A |
| D06E04MWXT00 | 60x60x10 | 50 | 4.3 | 1 | o | o | 12 | 7...13 | 1.6 | 20 | 20 | 28.0 | 4,200 | A | A |
| D06F01HWXA00 | 60x60x15 | 50 | 4.4 | 1 | o | o | 5 | 4...6 | 1.9 | 27 | 36 | 33.4 | 4,500 | A | A |
| D06F01MWXA00 | 60x60x15 | 50 | 4.4 | 1 | o | o | 5 | 4...6 | 1.3 | 24 | 26 | 31.2 | 3,900 | A | A |
| D06F04HWXA00 | 60x60x15 | 50 | 4.4 | 1 | o | o | 12 | 7...13 | 1.6 | 27 | 36 | 33.4 | 4,500 | A | A |

Technical data DC frame fans

| Model | Dimensions AxBxC | Holes | | Draw. | Bearings Options "X" | | Rated Voltage | Voltage Range | Rated Power | Max Air Flow | Static Pressure | Noise | Rated Speed | Approvals | |
|---------------|---------------------|-------|------|-------|-------------------------|------|------------------|------------------|----------------|-----------------|--------------------|----------|----------------|-----------|-----|
| | | F | ØD | | Sleeve | Ball | | | | | | | | UR | cUR |
| | (mm) | (mm) | (mm) | No. | Sleeve | Ball | (V d.c.) | (V d.c.) | (W) | (m³/h)* | (Pa)* | [dB(A)]* | (Rpm)* | UR | cUR |
| D06F04MWSXA00 | 60x60x15 | 50 | 4.4 | 1 | o | o | 12 | 7...13 | 1.3 | 24 | 26 | 31.2 | 3,900 | A | A |
| D06F05HWSXA00 | 60x60x15 | 50 | 4.4 | 1 | o | o | 24 | 17...27 | 2.2 | 27 | 36 | 33.4 | 4,500 | A | A |
| D06F05MWSXA00 | 60x60x15 | 50 | 4.4 | 1 | o | o | 24 | 17...27 | 1.7 | 24 | 26 | 31.2 | 3,900 | A | A |
| D06D04HWSXA00 | 60x60x20 | 50 | 4.5 | 1 | o | o | 12 | 7...13 | 1.9 | 28 | 34 | 31.0 | 4,500 | A | A |
| D06D04MWSXA00 | 60x60x20 | 50 | 4.5 | 1 | o | o | 12 | 7...13 | 1.6 | 23 | 25 | 26.4 | 3,900 | A | A |
| D06D04LWSXA00 | 60x60x20 | 50 | 4.5 | 1 | o | o | 12 | 7...13 | 0.96 | 21 | 21 | 23.5 | 3,500 | A | A |
| D06D05HWSXA00 | 60x60x20 | 50 | 4.5 | 1 | o | o | 24 | 17...27 | 2.2 | 28 | 34 | 31.0 | 4,500 | A | A |
| D06D05MWSXA00 | 60x60x20 | 50 | 4.5 | 1 | o | o | 24 | 17...27 | 1.9 | 23 | 25 | 26.4 | 3,900 | A | A |
| D06D05LWSXA00 | 60x60x20 | 50 | 4.5 | 1 | o | o | 24 | 17...27 | 1.7 | 21 | 21 | 23.5 | 3,500 | A | A |
| D06A04SWSXA00 | 60x60x25 | 50 | 4.5 | 1 | o | o | 12 | 7...13 | 3.2 | 46 | 58 | 37.9 | 5,300 | A | A |
| D06A04HWSXA00 | 60x60x25 | 50 | 4.5 | 1 | o | o | 12 | 7...13 | 2.8 | 42 | 49 | 36.8 | 4,600 | A | A |
| D06A04MWSXA00 | 60x60x25 | 50 | 4.5 | 1 | o | o | 12 | 7...13 | 1.7 | 31 | 30 | 27.1 | 3,600 | A | A |
| D06A04LWSXA00 | 60x60x25 | 50 | 4.5 | 1 | o | o | 12 | 7...13 | 0.96 | 24 | 17 | 20.3 | 2,700 | A | A |
| D06A05SWSXA00 | 60x60x25 | 50 | 4.5 | 1 | o | o | 24 | 17...27 | 3.8 | 46 | 58 | 40.0 | 5,000 | A | A |
| D06A05HWSXA00 | 60x60x25 | 50 | 4.5 | 1 | o | o | 24 | 17...27 | 3.6 | 41 | 44 | 35.2 | 4,500 | A | A |
| D06A05MWSXA00 | 60x60x25 | 50 | 4.5 | 1 | o | o | 24 | 17...27 | 1.9 | 31 | 26 | 27.1 | 3,500 | A | |
| D06A05LWSXA00 | 60x60x25 | 50 | 4.5 | 1 | o | o | 24 | 17...27 | 1.2 | 22 | 14 | 18.1 | 2,500 | A | |
| D07A04HWSXA00 | 70x70x25 | 60 | 4.5 | 1 | o | o | 12 | 7...13 | 2.3 | 61 | 55 | 35.5 | 4,200 | A | A |
| D07A04MWSXA00 | 70x70x25 | 60 | 4.5 | 1 | o | o | 12 | 7...13 | 1.9 | 55 | 44 | 32.0 | 3,800 | A | A |
| D07A05HWSXA00 | 70x70x25 | 60 | 4.5 | 1 | o | o | 24 | 17...27 | 3.1 | 61 | 55 | 35.5 | 4,200 | | |
| D07A05MWSXA00 | 70x70x25 | 60 | 4.5 | 1 | o | o | 24 | 17...27 | 2.6 | 55 | 44 | 32.0 | 3,800 | | |
| D08F01HWSXA00 | 80x80x15 | 71.5 | 4.5 | 1 | o | o | 5 | 4...6 | 2.2 | 51 | 32 | 31.4 | 3,200 | A | A |
| D08F01MWSXA00 | 80x80x15 | 71.5 | 4.5 | 1 | o | o | 5 | 4...6 | 1.2 | 38 | 21 | 26.0 | 2,440 | A | A |
| D08F04HWSXA00 | 80x80x15 | 71.5 | 4.5 | 1 | o | o | 12 | 7...13 | 2.3 | 51 | 32 | 31.4 | 3,200 | A | A |
| D08F04MWSXA00 | 80x80x15 | 71.5 | 4.5 | 1 | o | o | 12 | 7...13 | 1.8 | 38 | 21 | 26.0 | 2,440 | A | A |
| D08F05HWSXA00 | 80x80x15 | 71.5 | 4.5 | 1 | o | o | 24 | 17...27 | 3.1 | 51 | 32 | 31.4 | 3,400 | A | A |
| D08F05MWSXA00 | 80x80x15 | 71.5 | 4.5 | 1 | o | o | 24 | 17...27 | 2.4 | 38 | 21 | 26.0 | 2,440 | A | A |
| D08D04HWSXA00 | 80x80x20 | 71.5 | 4.5 | 1 | o | o | 12 | 7...13 | 2.9 | 49 | 37 | 32.4 | 3,100 | A | |
| D08D04MWSXA00 | 80x80x20 | 71.5 | 4.5 | 1 | o | o | 12 | 7...13 | 1.9 | 40 | 24 | 27.0 | 2,550 | A | A |
| D08D05HWSXA00 | 80x80x20 | 71.5 | 4.5 | 1 | o | o | 24 | 17...27 | 3.6 | 49 | 37 | 32.4 | 3,100 | A | A |
| D08D05MWSXA00 | 80x80x20 | 71.5 | 4.5 | 1 | o | o | 24 | 17...27 | 3.1 | 40 | 24 | 27.0 | 2,550 | A | A |
| D08A04SWSXA00 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 12 | 7...13 | 3.6 | 89 | 66 | 41.0 | 3,900 | A | A |
| D08A04HWSXA00 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 12 | 7...13 | 2.8 | 70 | 39 | 36.7 | 3,200 | A | A |

Technical data DC frame fans

| Model | Dimensions AxBxC | Holes | | Draw. | Bearings Options "X" | | Rated Voltage | Voltage Range | Rated Power | Max Air Flow | Static Pressure | Noise | Rated Speed | Approvals | |
|---------------|---------------------|-------|------|-------|-------------------------|------|------------------|------------------|----------------|-----------------|--------------------|----------|----------------|-----------|-----|
| | | F | ØD | | Sleeve | Ball | | | | | | | | UR | cUR |
| | (mm) | (mm) | (mm) | No. | Sleeve | Ball | (V d.c.) | (V d.c.) | (W) | (m³/h)* | (Pa)* | [dB(A)]* | (Rpm)* | UR | cUR |
| D08A04MWSXA00 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 12 | 7...13 | 1.7 | 55 | 25 | 29.4 | 2,590 | A | |
| D08A04LWSXA00 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 12 | 7...13 | 1.4 | 46 | 17 | 22.3 | 2,100 | A | |
| D08A05SWSXA00 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 24 | 17...27 | 3.6 | 87 | 59 | 40.9 | 3,900 | A | A |
| D08A05HWSXA00 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 24 | 17...27 | 3.8 | 70 | 39 | 36.7 | 3,200 | A | |
| D08A05MWSXA00 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 24 | 17...27 | 2.6 | 57 | 29 | 29.4 | 2,500 | A | A |
| D08A05LWSXA00 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 24 | 17...27 | 2.2 | 43 | 17 | 22.7 | 2,000 | A | |
| D09D04HWSXA00 | 92x92x20 | 82.5 | 4.5 | 1 | o | o | 12 | 7...13 | 3.0 | 56 | 26 | 32.8 | 2,700 | A | A |
| D09D04MWSXA00 | 92x92x20 | 82.5 | 4.5 | 1 | o | o | 12 | 7...13 | 1.9 | 49 | 21 | 28.9 | 2,430 | A | A |
| D09D05HWSXA00 | 92x92x20 | 82.5 | 4.5 | 1 | o | o | 24 | 17...27 | 3.4 | 56 | 26 | 32.8 | 2,700 | A | A |
| D09D05MWSXA00 | 92x92x20 | 82.5 | 4.5 | 1 | o | o | 24 | 17...27 | 2.4 | 49 | 21 | 28.9 | 2,430 | A | A |
| D09A04SWSXZ00 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 12 | 7...13 | 4.7 | 105 | 47 | 39.4 | 3,300 | A | A |
| D09A04HWSXZ00 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 12 | 7...13 | 3.0 | 95 | 37 | 37.5 | 2,900 | A | A |
| D09A04MWSXZ00 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 12 | 7...13 | 2.0 | 76 | 25 | 31.2 | 2,400 | A | A |
| D09A04LWSXZ00 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 12 | 7...13 | 1.6 | 66 | 18 | 27.5 | 2,100 | A | A |
| D09A05SWSXZ00 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 24 | 17...27 | 5.0 | 105 | 47 | 42.2 | 3,300 | A | A |
| D09A05HWSXZ00 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 24 | 17...27 | 3.6 | 95 | 37 | 37.5 | 2,900 | A | A |
| D09A05MWSXZ00 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 24 | 17...27 | 2.9 | 76 | 25 | 31.2 | 2,400 | A | A |
| D09A05LWSXZ00 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 24 | 17...27 | 1.9 | 66 | 18 | 28.7 | 2,100 | A | A |
| D12A04SWSXZ00 | 120x120x25 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 6.0 | 168 | 43 | 43.3 | 2,500 | A | A |
| D12A04HWSXZ00 | 120x120x25 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 5.3 | 151 | 34 | 39.1 | 2,200 | A | A |
| D12A04MWSXZ00 | 120x120x25 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 4.0 | 141 | 29 | 38.0 | 2,050 | A | A |
| D12A04LWSXZ00 | 120x120x25 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 2.9 | 122 | 23 | 34.4 | 1,800 | A | A |
| D12A05SWSXZ00 | 120x120x25 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 6.0 | 168 | 43 | 43.3 | 2,500 | A | A |
| D12A05HWSXZ00 | 120x120x25 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 5.8 | 151 | 34 | 39.1 | 2,200 | A | A |
| D12A05MWSXZ00 | 120x120x25 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 4.1 | 141 | 29 | 38.0 | 2,050 | A | A |
| D12A05LWSXZ00 | 120x120x25 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 3.4 | 122 | 23 | 34.4 | 1,800 | A | A |
| D12G04HWSXA00 | 120x120x32 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 4.8 | 183 | 54 | 43.3 | 2,750 | A | A |
| D12G04MWSXA00 | 120x120x32 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 3.4 | 166 | 50 | 41.1 | 2,400 | A | A |
| D12G04LWSXA00 | 120x120x32 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 2.5 | 142 | 34 | 36.2 | 2,000 | A | A |
| D12G05HWSXA00 | 120x120x32 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 6.0 | 183 | 54 | 43.3 | 2,750 | A | A |
| D12G05MWSXA00 | 120x120x32 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 5.3 | 166 | 50 | 41.1 | 2,400 | A | A |
| D12G05LWSXA00 | 120x120x32 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 4.3 | 142 | 34 | 36.2 | 2,000 | A | A |
| D12G07HWSXA00 | 120x120x32 | 105 | 4.5 | 1 | o | o | 48 | 35...53 | 7.2 | 183 | 54 | 43.3 | 2,750 | A | A |

Technical data DC frame fans

| Model | Dimensions AxBxC | Holes | | Draw. | Bearings Options "X" | | Rated Voltage | Voltage Range | Rated Power | Max Air Flow | Static Pressure | Noise | Rated Speed | Approvals | |
|----------------|---------------------|-------|------|-------|-------------------------|------|------------------|------------------|----------------|-----------------|--------------------|----------|----------------|-----------|-----|
| | | F | ØD | | Sleeve | Ball | | | | | | | | UR | cUR |
| | (mm) | (mm) | (mm) | No. | | | (V d.c.) | (V d.c.) | (W) | (m³/h)* | (Pa)* | [dB(A)]* | (Rpm)* | | |
| ■ D12B04SWXZ00 | 120x120x38 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 8.4 | 204 | 80 | 48.0 | 3,200 | A | A |
| ■ D12B04HWXZ00 | 120x120x38 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 6.0 | 179 | 66 | 46.7 | 2,800 | A | A |
| ■ D12B04MWXZ00 | 120x120x38 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 4.2 | 160 | 56 | 41.0 | 2,540 | A | A |
| ■ D12B04LWXZ00 | 120x120x38 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 2.9 | 123 | 22 | 32.9 | 1,950 | A | A |
| ■ D12B05SWXZ00 | 120x120x38 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 9.6 | 207 | 73 | 48.0 | 3,200 | A | |
| ■ D12B05HWXZ00 | 120x120x38 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 7.7 | 178 | 59 | 42.8 | 2,800 | A | A |
| ■ D12B05MWXZ00 | 120x120x38 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 5.5 | 160 | 56 | 41.0 | 2,540 | A | A |
| ■ D12B05LWXZ00 | 120x120x38 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 3.4 | 123 | 22 | 32.9 | 1,950 | A | A |
| ■ D12B07SWXZ00 | 120x120x38 | 105 | 4.5 | 1 | o | o | 48 | 35...53 | 11 | 204 | 80 | 48.0 | 3,200 | | |
| ■ D12B07HWXZ00 | 120x120x38 | 105 | 4.5 | 1 | o | o | 48 | 35...53 | 9.6 | 178 | 59 | 42.8 | 2,800 | A | A |
| ■ D12B07MWXZ00 | 120x120x38 | 105 | 4.5 | 1 | o | o | 48 | 35...53 | 6.7 | 160 | 56 | 41.0 | 2,540 | A | A |
| * D12B07LWXZ00 | 120x120x38 | 105 | 4.5 | 1 | o | o | 48 | 35...53 | 4.8 | 123 | 22 | 32.9 | 1,950 | A | A |
| * D17C04HWBA00 | 172x150x51 | 162 | 4.35 | 5 | | o | 12 | 7...14 | 20 | 450 | 216 | 58.8 | 3,500 | | |
| * D17C05HWBA00 | 172x150x51 | 162 | 4.35 | 5 | | o | 24 | 17...32 | 24 | 450 | 187 | 60.0 | 3,500 | A | A |
| * D17C07HWBA00 | 172x150x51 | 162 | 4.35 | 5 | | o | 48 | 33...72 | 72 | 708 | 421 | 68.0 | 5,300 | A | A |
| * D22S05HKBD00 | 218x218x83 | 170 | 4.5 | 7 | | o | 24 | 18...36 | 59 | 1,030 | 210 | 67.0 | 2,800 | | |
| * D22S07HKBD00 | 218x218x83 | 170 | 4.5 | 7 | | o | 48 | 36...60 | 59 | 1,030 | 210 | 67.0 | 2,800 | | |

Technical data DC blowers

| Model | Dimensions AxBxC | Holes | | Draw. | Bearings Options "X" | | Rated Voltage | Voltage Range | Rated Power | Max Air Flow | Static Pressure | Noise | Rated Speed | Approvals | |
|--------------|---------------------|-------|------|-------|-------------------------|------|------------------|------------------|----------------|-----------------|--------------------|----------|----------------|-----------|-----|
| | | F | ØD | | Sleeve | Ball | | | | | | | | UR | cUR |
| | (mm) | (mm) | (mm) | No. | | | (V d.c.) | (V d.c.) | (W) | (m³/h)* | (Pa)* | [dB(A)]* | (Rpm)* | | |
| DC6G04HWXA00 | 75x75x30 | - | 4.5 | 9 | o | o | 12 | 7...13 | 3.6 | 18 | 89 | 38.5 | 3,000 | A | A |
| DC6G04MWXA00 | 75x75x30 | - | 4.5 | 9 | o | o | 12 | 7...13 | 2.4 | 13 | 58 | 34.9 | 2,600 | A | A |
| DC6G05HWXA00 | 75x75x30 | - | 4.5 | 9 | o | o | 24 | 17...27 | 3.8 | 18 | 89 | 38.5 | 3,000 | A | A |
| DC6G05MWXA00 | 75x75x30 | - | 4.5 | 9 | o | o | 24 | 17...27 | 3.4 | 13 | 58 | 34.9 | 2,600 | A | A |
| DC1G04MWXA01 | 120x120x32 | 105 | 4.3 | 10 | o | o | 12 | 10.8...13.2 | 6.7 | 48 | 220 | 49.0 | 2,300 | A | A |
| DC1G05MWXA01 | 120x120x32 | 105 | 4.3 | 10 | o | o | 24 | 21.6...26.4 | 9.4 | 48 | 220 | 49.0 | 2,300 | A | A |

■ = Metal frame version available
* = Metal frame

A = Approved
X = S (Sleeve) or B (Ball)

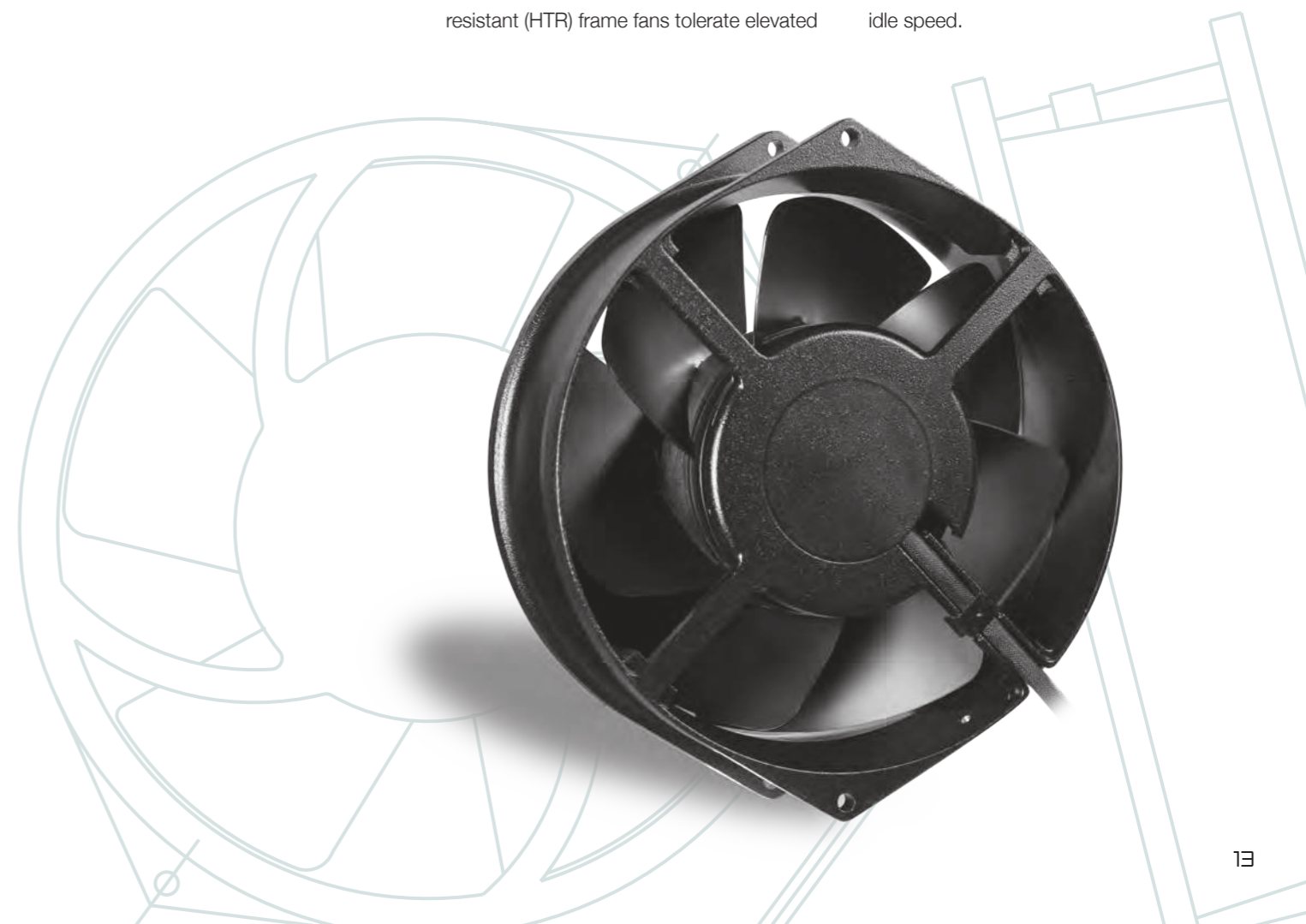
(*) data with uncertainty of ± 15%

General description

costech special Frame Fans

The frame fans programme embraces special solutions with added value, designed specifically to withstand adverse external factors and to reduce energy consumption. The IP25 and IP55 fans give effective protection against hostile elements, such as dust, oil, humidity, water and salt fog spray. IP25 protection is achieved by coating the motor with a thin layer of varnish – whilst the IP55 fans are more resistant to vibration and shock thanks to a special resin-bounded motor. Thanks to an all-metal construction and class "F" a.c. motor, the high temperature resistant (HTR) frame fans tolerate elevated

heat conditions (up to +90°C), improving operational performance and reliability. This alternative design, with all-metal build – instead of the plastic one – also allows this type of fans, driven by an efficient a.c. external rotor motor, to better withstand particular environmental conditions by means of simple impeller modification. Equipped with a particular sensor, a special a.c. fan detects the changing ambient temperature and consequently auto-regulates its speed rotation, saving up energy and reducing acoustic noise during idle speed.



General specifications

IP25/IP55 frame fans

IP55 a.c. frame fans

- Casing in black die cast aluminium alloy
- Impeller in fibreglass reinforced PBT, self-extinguishing UL 94V-0
- Shaded pole or capacitor run induction motor
- Motors thermally protected or by impedance
- Performance data for all models at rated frequency of 50/60 Hz
- Operating temperature range:
 - Ball Bearing -40°C ... +70°C
- Life L10 at 65% R.H.:
 - Ball Bearing 40,000 hrs at 40°C 20,000 hrs at T max
- Fans made in China or Taiwan, some modified in Italy
- Available options:
 - special voltage
- Modification of standard fans available on request, subject to quantity
- CE, in compliance with EN 60335-1 standard

IP25 and IP55 d.c. frame fans

- Casing in black fibreglass reinforced PBT, self-extinguishing UL 94V-0
- Impeller in fibreglass reinforced PBT, self-extinguishing UL 94V-0
- Brushless external rotor motor with auto-restart
- Motors protected by impedance and polarity inversion except model D12, which is protected by Integrated Circuit against locked rotor and polarity inversion
- Operating temperature range:
 - Ball Bearing -20°C ... +70°C (IP25 and IP55 versions)
 - Sleeve Bearing -10°C ... +60°C (IP25 only)
- Life L10 at 65% R.H.:
 - Ball Bearing 70,000 hrs at 40°C 40,000 hrs at T max
 - Sleeve Bearing 50,000 hrs at 40°C 35,000 hrs at T max
- Fans made in China or Taiwan
- Available options:
 - third wire alarm detecting failure or locked rotor by IC (option A)
 - third wire speed signal detecting failure or abnormal rotation (option S)
 - internal thermistor detecting temperature of air for speed variation (option I)
 - third wire detecting temperature for speed variation by external thermistor (option V)
 - digital PWM speed control (option M)
- Modification of standard fans available on request, subject to quantity
- CE, in compliance with EN 60335-1 standard

Technical data

IP55 AC frame fans

| Model | Dimensions AxBxC | Holes | | Draw. No. | IP Rating | Rated Voltage (V a.c.) | Freq. (Hz) | Rated Power (W) | Max Air Flow (m³/h)* | Static Pressure (Pa)* | Noise [dB(A)]* | Rated Speed (Rpm)* |
|-----------------|---------------------|-----------|------------|--------------|--------------|------------------------------|---------------|-----------------------|----------------------------|-----------------------------|-------------------|--------------------------|
| | | F (mm) | ØD (mm) | | | | | | | | | |
| A08B12HWBFF0 | 80x80x38 | 71.5 | 4.3 | 1 | o | 115 | 50/60 | 14/12 | 41/48 | 40/50 | 32.0/36.0 | 2,500/3,000 |
| A08B12MWBFF0 | 80x80x38 | 71.5 | 4.3 | 1 | o | 115 | 50/60 | 14/12 | 36/43 | 22/31 | 29.0/33.0 | 2,100/2,500 |
| A08B12LWBFF0 | 80x80x38 | 71.5 | 4.3 | 1 | o | 115 | 50/60 | 14/12 | 33/42 | 18/29 | 27.0/32.0 | 1,900/2,400 |
| ★ A08B23HWBFF0 | 80x80x38 | 71.5 | 4.3 | 1 | o | 230 | 50/60 | 14/12 | 40/50 | 35/55 | 32.0/36.0 | 2,500/3,000 |
| A08B23MWBFF0 | 80x80x38 | 71.5 | 4.3 | 1 | o | 230 | 50/60 | 14/12 | 36/43 | 22/31 | 29.0/33.0 | 2,100/2,500 |
| A08B23LWBFF0 | 80x80x38 | 71.5 | 4.3 | 1 | o | 230 | 50/60 | 14/12 | 33/42 | 18/29 | 27.0/32.0 | 1,900/2,400 |
| A12B05HWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 24 | 50/60 | 15/16 | 150/167 | 66/82 | 41.0/44.5 | 2,650/2,950 |
| A12B12SWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 115 | 50/60 | 22/20 | 165/183 | 82/95 | 42.0/46.0 | 2,700/3,100 |
| A12B12HWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 115 | 50/60 | 20/18 | 144/167 | 62/75 | 40.5/44.5 | 2,550/2,900 |
| A12B12MWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 115 | 50/60 | 16/16 | 130/142 | 50/52 | 39.2/41.0 | 2,400/2,600 |
| A12B12LWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 115 | 50/60 | 10/10 | 122/115 | 35/32 | 36.8/39.0 | 2,150/2,300 |
| ★ A12R12HWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 115 | 50/60 | 19/18 | 140/155 | 62/75 | 42.0/45.0 | 2,600/2,950 |
| A12B23SWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 230 | 50/60 | 22/21 | 165/183 | 82/95 | 42.0/46.0 | 2,700/3,100 |
| A12B23HWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 230 | 50/60 | 20/19 | 144/167 | 62/75 | 40.5/44.5 | 2,550/2,900 |
| A12B23MWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 230 | 50/60 | 16/15 | 130/142 | 55/52 | 39.2/41.0 | 2,400/2,600 |
| A12B23VWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 230 | 50/60 | 10/10 | 98/105 | 28/28 | 36.8/39.0 | 2,150/2,300 |
| A12B23LWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 230 | 50/60 | 10/10 | 122/115 | 35/32 | 36.8/39.0 | 2,150/2,300 |
| A12B23EWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 230 | 50/60 | 6.5/6.0 | 83/81 | 19/16 | 28.0/27.5 | 1,500/1,450 |
| ★ A12R23HWBWF0 | 119x119x38 | 104.8 | 4.3 | 1 | o | 230 | 50/60 | 18/18 | 140/155 | 62/75 | 42.0/45.5 | 2,600/2,950 |
| ● A12W12HWBWF0 | Ø 113x38 | 45.5 | M4 | 3 | o | 115 | 50/60 | 20/18 | 150/167 | 66/81 | 43.0/48.0 | 2,650/2,950 |
| ●★ A12Z12HWBWF0 | Ø 113x38 | 45.5 | M4 | 3 | o | 115 | 50/60 | 19/18 | 150/167 | 66/81 | 43.0/48.0 | 2,650/2,950 |
| ● A12W23HWBWF0 | Ø 113x38 | 45.5 | M4 | 3 | o | 230 | 50/60 | 20/19 | 148/182 | 65/80 | 46.0/49.0 | 2,550/2,900 |
| ●★ A12Z23HWBWF0 | Ø 113x38 | 45.5 | M4 | 3 | o | 230 | 50/60 | 18/18 | 148/182 | 66/81 | 46.0/49.0 | 2,600/2,950 |

★ = Air intake over struts

(*) data with uncertainty of ± 15%

● = Without casing

Technical data

IP25 and IP55 DC frame fans

| Model | Dimensions AxBxC | Holes | | Draw. | IP Rating | | Rated Voltage | Voltage Range | Rated Power | Max Air Flow | Static Pressure | Noise | Rated Speed |
|--------------|---------------------|-------|-----|-------|-----------|----|---------------|---------------|-------------|--------------|-----------------|----------|-------------|
| | | F | ØD | | 25 | 55 | | | | | | | |
| | (mm) | | | No. | | | (V d.c.) | (V d.c.) | (W) | (m³/h)* | (Pa)* | [dB(A)]* | (Rpm)* |
| D04D04HWBZX0 | 40x40x20 | 32 | 3.5 | 1 | o | | 12 | 7...13 | 1.2 | 15 | 70 | 31.9 | 7,800 |
| D04D04MWBZX0 | 40x40x20 | 32 | 3.5 | 1 | o | | 12 | 7...13 | 0.96 | 13 | 60 | 28.5 | 6,900 |
| D04D05HWBZX0 | 40x40x20 | 32 | 3.5 | 1 | o | | 24 | 17...27 | 2.2 | 15 | 70 | 31.9 | 7,800 |
| D04D05MWBZX0 | 40x40x20 | 32 | 3.5 | 1 | o | | 24 | 17...27 | 1.7 | 13 | 60 | 28.5 | 6,900 |
| D06A04SWBAX0 | 60x60x25 | 50 | 4.5 | 1 | o | o | 12 | 7...13 | 3.2 | 46 | 58 | 37.9 | 5,300 |
| D06A04HWBAX0 | 60x60x25 | 50 | 4.5 | 1 | o | o | 12 | 7...13 | 2.8 | 42 | 49 | 36.8 | 4,600 |
| D06A04MWBAX0 | 60x60x25 | 50 | 4.5 | 1 | o | o | 12 | 7...13 | 1.7 | 31 | 30 | 27.1 | 3,600 |
| D06A04LWBAX0 | 60x60x25 | 50 | 4.5 | 1 | o | o | 12 | 7...13 | 0.96 | 24 | 17 | 20.3 | 2,700 |
| D06A05SWBAX0 | 60x60x25 | 50 | 4.5 | 1 | o | o | 24 | 17...27 | 3.8 | 46 | 58 | 40.0 | 5,000 |
| D06A05HWBAX0 | 60x60x25 | 50 | 4.5 | 1 | o | o | 24 | 17...27 | 3.6 | 41 | 44 | 35.2 | 4,500 |
| D06A05MWBAX0 | 60x60x25 | 50 | 4.5 | 1 | o | o | 24 | 17...27 | 1.9 | 31 | 26 | 27.1 | 3,500 |
| D06A05LWBAX0 | 60x60x25 | 50 | 4.5 | 1 | o | o | 24 | 17...27 | 1.2 | 22 | 14 | 18.1 | 2,500 |
| D07A04HWBAX0 | 70x70x25 | 60 | 4.5 | 1 | o | o | 12 | 7...13 | 2.3 | 61 | 55 | 35.5 | 4,200 |
| D07A04MWBAX0 | 70x70x25 | 60 | 4.5 | 1 | o | o | 12 | 7...13 | 1.9 | 55 | 44 | 32.0 | 3,800 |
| D07A05HWBAX0 | 70x70x25 | 60 | 4.5 | 1 | o | o | 24 | 17...27 | 3.1 | 61 | 55 | 35.5 | 4,200 |
| D07A05MWBAX0 | 70x70x25 | 60 | 4.5 | 1 | o | o | 24 | 17...27 | 2.6 | 55 | 44 | 32.0 | 3,800 |
| D08A04SWBAX0 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 12 | 7...13 | 5.4 | 83 | 59 | 41.0 | 3,900 |
| D08A04HWBAX0 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 12 | 7...13 | 3.0 | 66 | 37 | 34.4 | 3,100 |
| D08A04MWBAX0 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 12 | 7...13 | 1.8 | 52 | 25 | 28.3 | 2,500 |
| D08A04LWBAX0 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 12 | 7...13 | 1.4 | 44 | 18 | 22.5 | 2,100 |
| D08A05SWBAX0 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 24 | 17...27 | 6.2 | 83 | 59 | 41.0 | 3,900 |
| D08A05HWBAX0 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 24 | 17...27 | 3.8 | 66 | 37 | 34.4 | 3,100 |
| D08A05MWBAX0 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 24 | 17...27 | 2.4 | 52 | 25 | 28.3 | 2,500 |
| D08A05LWBAX0 | 80x80x25 | 71.5 | 4.4 | 1 | o | o | 24 | 17...27 | 2.2 | 44 | 18 | 22.5 | 2,100 |
| D09A04SWBZX0 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 12 | 7...13 | 4.7 | 105 | 47 | 39.4 | 3,300 |
| D09A04HWBZX0 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 12 | 7...13 | 3.0 | 95 | 37 | 37.5 | 2,900 |
| D09A04MWBZX0 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 12 | 7...13 | 2.0 | 70 | 22 | 31.3 | 2,400 |
| D09A04LWBZX0 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 12 | 7...13 | 1.6 | 59 | 16 | 25.0 | 2,100 |
| D09A05SWBZX0 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 24 | 17...27 | 5.0 | 105 | 47 | 42.2 | 3,300 |
| D09A05HWBZX0 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 24 | 17...27 | 3.6 | 95 | 37 | 37.5 | 2,900 |
| D09A05MWBZX0 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 24 | 17...27 | 2.9 | 70 | 22 | 31.3 | 2,400 |
| D09A05LWBZX0 | 92x92x25 | 82.5 | 4.5 | 1 | o | o | 24 | 17...27 | 1.9 | 59 | 16 | 25.0 | 2,100 |

Technical data

IP25 and IP55 DC frame fans

| Model | Dimensions AxBxC | Holes | | Draw. | IP Rating | | Rated Voltage | Voltage Range | Rated Power | Max Air Flow | Static Pressure | Noise | Rated Speed |
|----------------|---------------------|-------|-----|-------|-----------|----|---------------|---------------|-------------|--------------|-----------------|----------|-------------|
| | | F | ØD | | 25 | 55 | | | | | | | |
| | (mm) | | | No. | | | (V d.c.) | (V d.c.) | (W) | (m³/h)* | (Pa)* | [dB(A)]* | (Rpm)* |
| D12A04SWBZX0 | 120x120x25 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 6.0 | 168 | 43 | 43.3 | 2,500 |
| D12A04HWBZX0 | 120x120x25 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 4.4 | 151 | 34 | 39.1 | 2,200 |
| D12A04MWBZX0 | 120x120x25 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 4.0 | 141 | 29 | 38.0 | 2,050 |
| D12A04LWBZX0 | 120x120x25 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 2.9 | 122 | 23 | 34.4 | 1,800 |
| D12A05SWBZX0 | 120x120x25 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 6.0 | 168 | 43 | 43.3 | 2,500 |
| D12A05HWBZX0 | 120x120x25 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 4.6 | 151 | 34 | 39.1 | 2,200 |
| D12A05MWBZX0 | 120x120x25 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 4.1 | 141 | 29 | 38.0 | 2,050 |
| D12A05LWBZX0 | 120x120x25 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 3.4 | 122 | 23 | 34.4 | 1,800 |
| ▲ D12B04SWBZX0 | 120x120x38 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 8.4 | 204 | 80 | 48.0 | 3,200 |
| ■ D12B04HWBZX0 | 120x120x38 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 6.0 | 179 | 66 | 46.7 | 2,800 |
| ■ D12B04MWBZX0 | 120x120x38 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 4.2 | 160 | 56 | 41.0 | 2,540 |
| ■ D12B04LWBZX0 | 120x120x38 | 105 | 4.5 | 1 | o | o | 12 | 7...13 | 2.9 | 123 | 22 | 32.9 | 1,950 |
| ▲ D12B05SWBZX0 | 120x120x38 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 9.6 | 207 | 73 | 48.0 | 3,200 |
| ■ D12B05HWBZX0 | 120x120x38 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 7.7 | 178 | 59 | 42.8 | 2,800 |
| ■ D12B05MWBZX0 | 120x120x38 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 5.5 | 160 | 56 | 41.0 | 2,540 |
| ■ D12B05LWBZX0 | 120x120x38 | 105 | 4.5 | 1 | o | o | 24 | 17...27 | 3.4 | 123 | 22 | 32.9 | 1,950 |
| ▲ D12B07SWBZX0 | 120x120x38 | 105 | 4.5 | 1 | o | o | 48 | 35...53 | 11 | 204 | 80 | 48.0 | 3,200 |
| ■ D12B07HWBZX0 | 120x120x38 | 105 | 4.5 | 1 | o | o | 48 | 35...53 | 9.6 | 178 | 59 | 42.8 | 2,800 |
| ■ D12B07MWBZX0 | 120x120x38 | 105 | 4.5 | 1 | o | o | 48 | 35...53 | 6.7 | 160 | 56 | 41.0 | 2,540 |
| ■ D12B07LWBZX0 | 120x120x38 | 105 | 4.5 | 1 | o | o | 48 | 35...53 | 4.8 | 123 | 22 | 32.9 | 1,950 |

■ = Metal frame version available IP25 X = H IP55 X = F (*) data with uncertainty of ± 15%
▲ = only IP25

General specifications

HTR and All metal frame fans

HTR AC frame fans

- Casing in black die cast aluminium alloy
- Impeller in black painted steel
- Shaded pole motor with insulation system Class F
- Motors thermally protected or by impedance
- Performance data for all models at rated frequency of 50/60 Hz
- Operating temperature range:
 - Ball Bearing -40°C ... +90°C
- Life L10 at 65% R.H.:
 - Ball Bearing 40,000 hrs at 40°C
 - 15,000 hrs at T max
- Fans made in Taiwan
- Available Options:
 - special voltage
- Modification of standard fans available on request, subject to quantity
- UL (Underwriters Laboratories) approved, Canada/U.S.A., file no. E223195
- VDE (Verband Der Elektrotechnik) approved for Europe
- CE, in compliance with EN 60335-1 standard

All metal AC and DC frame fans

- Casing in black die cast aluminium alloy
- Impeller in black painted steel
- Shaded pole or capacitor run induction motor
- Motors thermally protected or by impedance
- Performance data for all models at rated frequency of 50/60 Hz
- Operating temperature range:
 - Ball Bearing -40°C ... +70°C
- Life L10 at 65% R.H.:
 - Ball Bearing 40,000 hrs at 40°C
 - 20,000 hrs at T max
- Fans made in EEC and Taiwan
- Available Options:
 - special voltage
 - Modification of standard fans available on request, subject to quantity
- UL (Underwriters Laboratories) approved, Canada/U.S.A., file no. E223195
- VDE (Verband Der Elektrotechnik) approved for Europe
- CE, in compliance with EN 60335-1 standard

Technical data

HTR AC frame fans

| Model | Dimensions AxBxC | | Holes F ØD | | Draw. No. | Rated Voltage (V a.c.) | Freq. (Hz) | Rated Power (W) | Max Air Flow (m³/h)* | Static Pressure (Pa)* | Noise [dB(A)]* | Rated Speed (Rpm)* | Approvals | |
|----------------|------------------|-------|--------------|------|-----------|------------------------|------------|-----------------|----------------------|-----------------------|----------------|--------------------|-----------|-----|
| | (mm) | (mm) | (mm) | (mm) | | | | | | | | | UR | cUR |
| A09B12HWBMT0 | 92x92x38 | 82.5 | 4.3 | 1 | 115 | 50/60 | 12/11 | 75/87 | 59/74 | 37.0/42.0 | 2,700/3,200 | | | |
| A09B23HWBMT0 | 92x92x38 | 82.5 | 4.3 | 1 | 230 | 50/60 | 12/11 | 75/87 | 59/74 | 37.0/42.0 | 2,700/3,200 | A | A | |
| A12B12HTBMT0 | 120x120x38 | 104.8 | 4.3 | 4 | 115 | 50/60 | 17/15 | 151/175 | 64/59 | 42.0/46.0 | 2,700/3,100 | | | |
| A12B12LTBMT0 | 120x120x38 | 104.8 | 4.3 | 4 | 115 | 50/60 | 17/15 | 107/114 | 25/22 | 33.0/35.0 | 2,000/2,050 | | | |
| A12B23HTBMT0 | 120x120x38 | 104.8 | 4.3 | 4 | 230 | 50/60 | 17/15 | 151/175 | 64/59 | 42.0/46.0 | 2,700/3,100 | A | A | |
| A12B23LTBMT0 | 120x120x38 | 104.8 | 4.3 | 4 | 230 | 50/60 | 17/15 | 107/114 | 25/22 | 33.0/35.0 | 2,000/2,050 | A | A | |
| A17M12SWBMT0 | 172x150x55 | 162 | 4.3 | 2 | 115 | 50/60 | 42/42 | 332/391 | 137/157 | 49.0/53.0 | 2,800/3,250 | A | A | |
| A17M23SWBMT0 | 172x150x55 | 162 | 4.3 | 2 | 230 | 50/60 | 42/42 | 332/391 | 137/157 | 49.0/53.0 | 2,800/3,250 | A | A | |
| ★ A17T12SWBMT0 | 172x150x55 | 162 | 4.3 | 2 | 115 | 50/60 | 45/45 | 383/434 | 123/123 | 58.0/61.0 | 2,750/3,150 | A | A | |
| ★ A17T23SWBMT0 | 172x150x55 | 162 | 4.3 | 2 | 230 | 50/60 | 45/45 | 383/434 | 123/123 | 58.0/61.0 | 2,750/3,150 | A | A | |

★ = Air intake over struts

(*) data with uncertainty of ± 15%

Technical data

All metal AC frame fans

| Model | Dimensions AxBxC | | Holes F ØD | | Draw. No. | Rated Voltage (V a.c.) | Freq. (Hz) | Rated Power (W) | Max Air Flow (m³/h)* | Static Pressure (Pa)* | Noise [dB(A)]* | Rated Speed (Rpm)* | Approvals | |
|----------------|------------------|-------|--------------|------|-----------|------------------------|------------|-----------------|----------------------|-----------------------|----------------|--------------------|-----------|-----|
| | (mm) | (mm) | (mm) | (mm) | | | | | | | | | UR | cUR |
| A09B12HWBM00 | 92x92x38 | 82.5 | 4.3 | 1 | 115 | 50/60 | 12/11 | 75/87 | 59/74 | 37.0/42.0 | 2,700/3,200 | A | A | |
| A09B23HWBM00 | 92x92x38 | 82.5 | 4.3 | 1 | 230 | 50/60 | 12/11 | 75/87 | 59/74 | 37.0/42.0 | 2,700/3,200 | A | A | |
| A12B12HTBM00 | 120x120x38 | 104.8 | 4.3 | 4 | 115 | 50/60 | 17/15 | 151/175 | 64/59 | 42.0/46.0 | 2,700/3,100 | A | A | |
| A12B12LTBM00 | 120x120x38 | 104.8 | 4.3 | 4 | 115 | 50/60 | 17/15 | 107/114 | 25/22 | 33.0/35.0 | 2,000/2,050 | A | A | |
| A12B23HTBM00 | 120x120x38 | 104.8 | 4.3 | 4 | 230 | 50/60 | 17/15 | 151/175 | 64/59 | 42.0/46.0 | 2,700/3,100 | A | A | |
| A12B23LTBM00 | 120x120x38 | 104.8 | 4.3 | 4 | 230 | 50/60 | 17/15 | 107/114 | 25/22 | 33.0/35.0 | 2,000/2,050 | A | A | |
| A17M12SWBM00 | 172x150x55 | 162 | 4.3 | 2 | 115 | 50/60 | 42/42 | 332/391 | 137/157 | 49.0/53.0 | 2,800/3,250 | A | A | |
| A17M23SWBM00 | 172x150x55 | 162 | 4.3 | 2 | 230 | 50/60 | 42/42 | 332/391 | 137/157 | 49.0/53.0 | 2,800/3,250 | A | A | |
| ★ A17T12SWBM00 | 172x150x55 | 162 | 4.3 | 2 | 115 | 50/60 | 45/45 | 383/434 | 123/123 | 58.0/61.0 | 2,750/3,150 | A | A | |
| ★ A17T23SWBM00 | 172x150x55 | 162 | 4.3 | 2 | 230 | 50/60 | 45/45 | 383/434 | 123/123 | 58.0/61.0 | 2,750/3,150 | A | A | |
| C25S12HKBE00 | 280x280x80 | 208.6 | 5.4 | 7 | 115 | 50/60 | 107/143 | 1,705/1,880 | 180/215 | 67.0/70.0 | 2,735/3,150 | | | |
| C25S23HKBE00 | 280x280x80 | 208.6 | 5.4 | 7 | 230 | 50/60 | 114/158 | 1,705/1,880 | 180/215 | 67.0/70.0 | 2,735/3,150 | | | |
| C25S40HKBE00 | 280x280x80 | 208.6 | 5.4 | 7 | 400 | 50/60 | 93/123 | 1,535/1,680 | 275/275 | 67.0/69.0 | 2,660/2,960 | | | |

★ = Air intake over struts

(*) data with uncertainty of ± 15%

Technical data

All metal DC frame fans

| Model | Dimensions AxBxC | | Holes F ØD | | Draw. No. | Rated Voltage (V d.c.) | Voltage Range (V d.c.) | Rated Power (W) | Max Air Flow (m³/h) | Static Pressure (Pa) | Noise [dB(A)] | Rated Speed (Rpm) |
|--------------|------------------|-------|--------------|------|-----------|------------------------|------------------------|-----------------|---------------------|----------------------|---------------|-------------------|
| | (mm) | (mm) | (mm) | (mm) | | | | | | | | |
| D25S05HKBE00 | 280x280x80 | 208.6 | 5.4 | 7 | 24 | 18...30 | 113 | 1,765 | 175 | 64.0 | 2,315 | |
| D25S07HKBE00 | 280x280x80 | 208.6 | 5.4 | 7 | 48 | 36...57 | 119 | 1,825 | 187 | 64.0 | 2,378 | |

General specifications Temperature controlled frame fans

AC temperature controlled frame fans

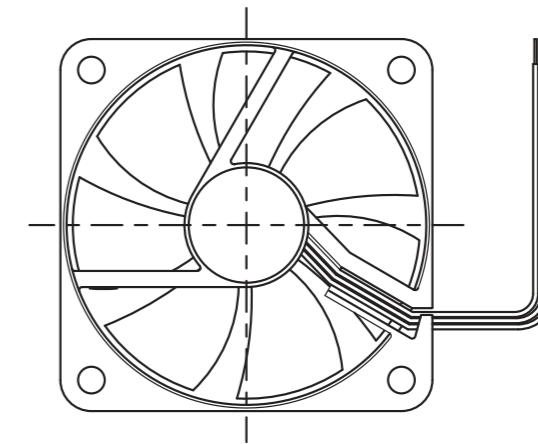
- Casing in black die cast aluminium alloy
- Impeller in fibreglass reinforced PBT, self-extinguishing UL 94V-0
- Shaded pole induction motor
- Motors impedance protected
- Operating temperature range:
 - Ball/Sleeve Bearing -10°C...+70°C
- Life L10 at 60% R.H.:
 - Ball/Sleeve Bearing 50,000 hrs at 25°C
- Fan speed control by thermal sensor
- Internal or external temperature sensor version

Technical data AC temperature controlled frame fans

| Model | | Dimensions AxBxC | Holes | | Draw. | Bearings Options "X" | | Rated Voltage | Freq. | Rated Power 25°C...45°C | Max Air Flow @2600rpm | Static Pressure @2600rpm | Noise @2600rpm | Rated Speed |
|--------------|----------------|---------------------|-------|------|-------|-------------------------|------|------------------|-------|----------------------------|-----------------------------|--------------------------------|-------------------|----------------|
| | | | F | ØD | | Sleeve | Ball | | | | | | | |
| | | (mm) | (mm) | (mm) | No. | | | (V a.c.) | (Hz) | (W) | (m³/h) | (Pa) | [dB(A)] | (Rpm) |
| A12B23HWXAIO | case sensor | 120x120x38 | 105 | 4.3 | 8 | o | o | 230 | 50 | 6...18 | 150 | 77 | 42.8 | 1,450...2,600 |
| A12B23HWXAVO | ext. sensor | 120x120x38 | 105 | 4.3 | 8 | o | o | 230 | 50 | 6...18 | 150 | 77 | 42.8 | 1,450...2,600 |

X = S (Sleeve) or B (Ball)

DC fans with signal lead



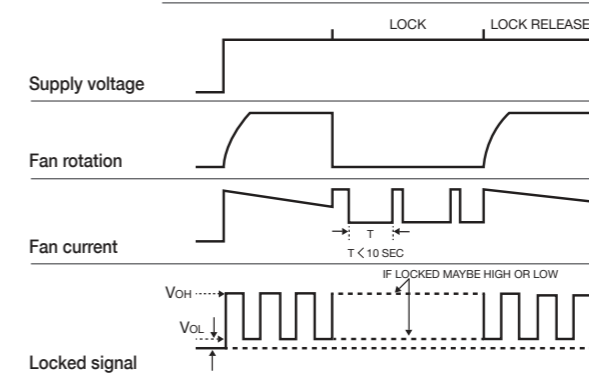
DC fans with speed sensor signal

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).

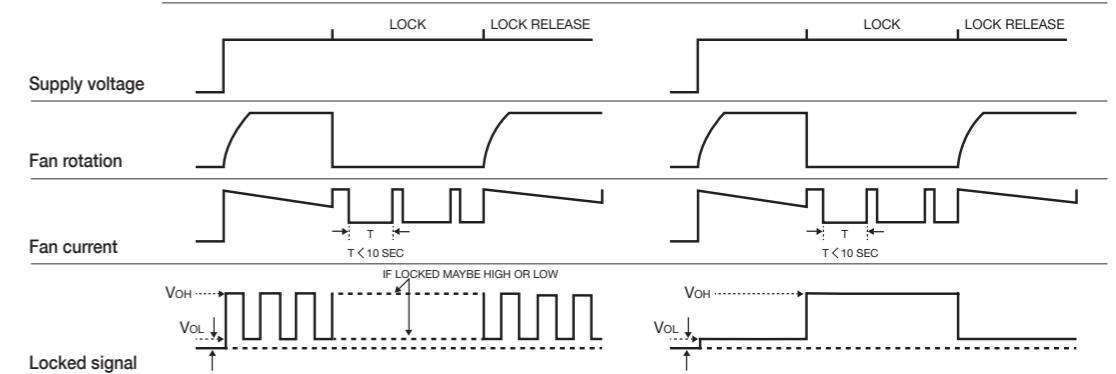
DC fans with alarm signal

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

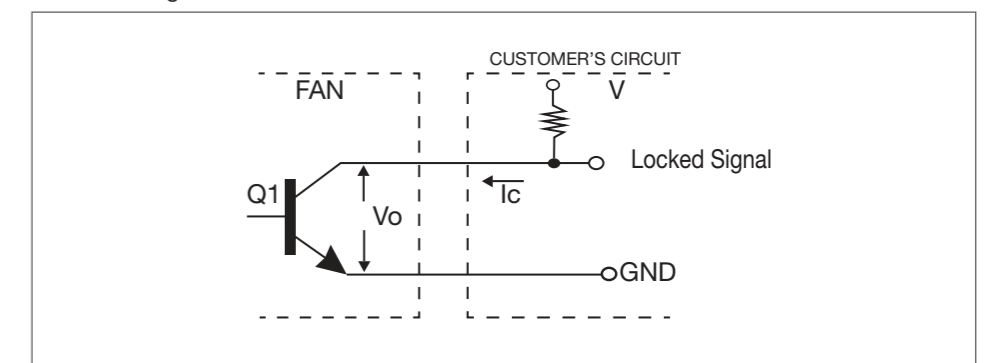


Output Waveform Alarm Signal



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

Electrical diagram



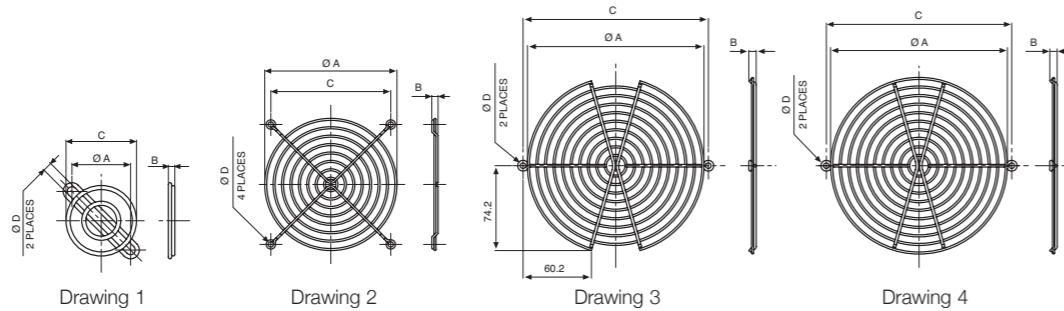
External signal function design is decided by customer.

Accessories

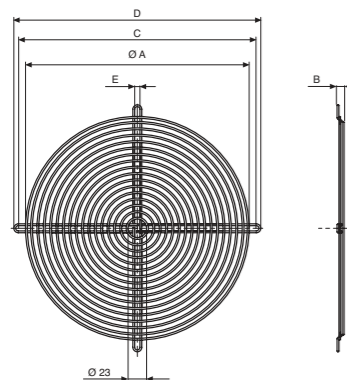


Metal Fan Guards

Purpose of the product: Moving parts protection, according to EN ISO 12100 and EN ISO 13857 standards.
 IP20 protection degree, according to EN 60529 Standards
 Size available: All axial frame fan sizes
 Max. ring distance: 6.35 mm
 Material: Steel wire AISI C1010
 Finishing: Nickel-Chrome plated (standard) or black epoxy painted RAL 9005, on request



| Model | Drawing No. | Dimension A ø mm | Dimension B mm | Dimension C mm | Dimension D ø 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 |
| 150S | 3 | 154.4 | 6.5 | 162 | 4.8 |
| 150 | 4 | 154.4 | 6.5 | 162 | 4.8 |



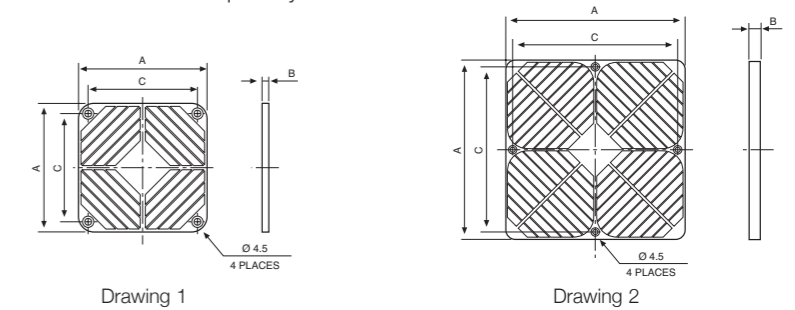
| Model | Dimension A ø mm | Dimension B mm | Dimension C mm | Dimension D mm | Dimension E mm |
|----------|---------------------|-------------------|-------------------|-------------------|-------------------|
| GMP200NK | 215 | 8.7 | 240 | 250 | 5.4 |
| GMP250NK | 278 | 8.7 | 295 | 307 | 6.5 |

Accessories



Plastic Fan Guards

Purpose of the product: Moving parts protection, according to EN ISO 12100 and EN ISO 13857 standards.
 IP20 protection degree, according to EN 60529 Standards
 Size available (in mm): For axial frame fan sizes 40x40, 60x60, 80x80, 92x92, 120x120, 172x150 and Ø 172
 Max. ring distance: From 3 mm to 6 mm
 Material: Self-extinguishing ABS/PC alloy, according to UL 94V-0
 Standard colour: Black RAL 9005. Other colours are available on request, subject to quantity

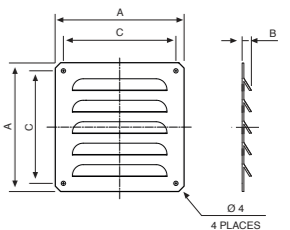


| Model | Drawing No. | Dimension A mm | Dimension B mm | Dimension C mm |
|-------|-------------|-------------------|-------------------|-------------------|
| G40 | 1 | 42.3 | 3.3 | 32 |
| G60 | 1 | 60 | 6 | 50 |
| G80 | 1 | 81 | 5.5 | 71.4 |
| G92 | 1 | 92 | 5.5 | 82.5 |
| G120 | 1 | 121 | 6.5 | 104.8 |
| G150 | 2 | 173 | 10.8 | 162 |



Metal fan guard

Purpose of the product: Moving parts protection, according to EN ISO 12100 and EN ISO 13857 standards.
 Optionally it can be coupled with a metal filter.
 Size available (in mm): For axial fan sizes 120x38 mm
 Max ring distance: 5 mm
 Material: Steel plate
 Painting type: Epoxy powder coating
 Standard colour: RAL 7035



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

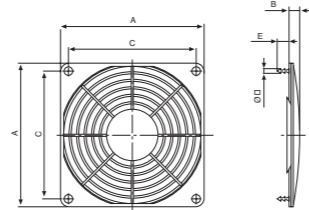
Accessories



Fast Assembly Plastic Fan Guards

Purpose of the product: Moving parts protection, according to EN ISO 12100 and EN ISO 13857 Standards.
IP20 protection degree, according to EN 60529 Standards
Fast assembly

Size available (in mm): For axial frame fan sizes 120x120
Max. ring distance: 5 mm
Material: Self-extinguishing ABS according to UL 94HB
Standard colour: Black RAL 9005. Other colours are available on request, subject to quantity

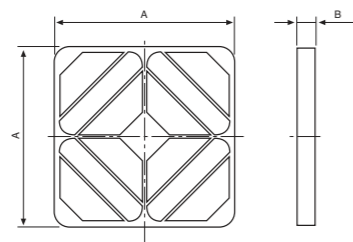


| Model | Dimension A | Dimension B | Dimension C | Dimension D | Dimension E |
|--------|-------------|-------------|-------------|-------------|-------------|
| | mm | mm | mm | ø mm | mm |
| G120/S | 120 | 6.5 | 105 | 5.5 | 13 |



Plastic Filters

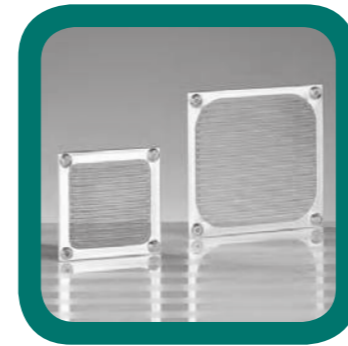
Purpose of the product: IP30 protection from the moving parts and dust intrusion
Size available (in mm): For axial frame fan sizes 40x40, 60x60, 80x80, 92x92, 120x120, 172x150 and Ø 172
Material:
- Plastic parts: black RAL 9005 self-extinguishing ABS/PC alloy, according to UL 94V-0. Other colours are available, subject to quantity
- Filter media: white organic and synthetic fibres (polyester and polypropylene) heat bounded
- Net: natural colour fibreglass wiring Ø 0.28 mm, 18x16 mesh



Note: to know the plastic filters mounting cut-out, see the plastic fan guards drawings

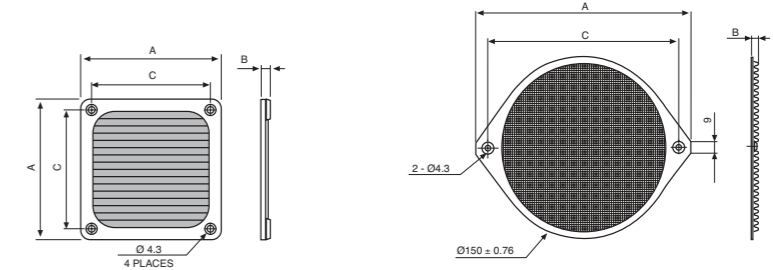
| Model | Dimension A | Dimension B |
|---------|-------------|-------------|
| | mm | mm |
| F40/MR | 46.4 | 6.5 |
| F60/MR | 64 | 12.2 |
| F80/MR | 86 | 12.2 |
| F92/MR | 97 | 12.2 |
| F120/MR | 126 | 13 |
| F150/MR | 179 | 24.7 |

Accessories



Metal Filters

Purpose of the product: IP40 protection from the moving parts and dust intrusion plus EMI/RFI shielding
Size available (in mm): For axial frame fan sizes 60x60, 80x80, 92x92, 120x120, 172x150 and Ø 172
Material:
- Net: 30x30 stainless steel corrugated mesh with 4.8 mm pitch and 3.3 mm depth
- Frame: aluminium
Colour: Natural



Drawing 1

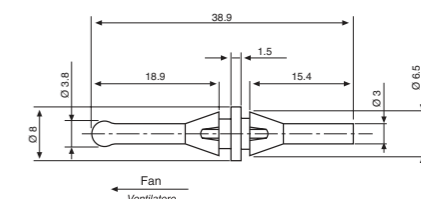
Drawing 2

| Model | Drawing No. | Dimension A | Dimension B | Dimension 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 |



Elastic Rivets

Purpose of the product: Fast assembly and disassembly of the fans plus vibration and noise reduction
Size available: Suitable for fans with dimensions between 60 mm and 127 mm and fixing hole diameter from 4 mm to 4.6 mm
Operating temperatures: -45°C ... +120°C
Material: EPDM rubber, 63 shore A hardness
Colour: Black
Model: EAR4401N

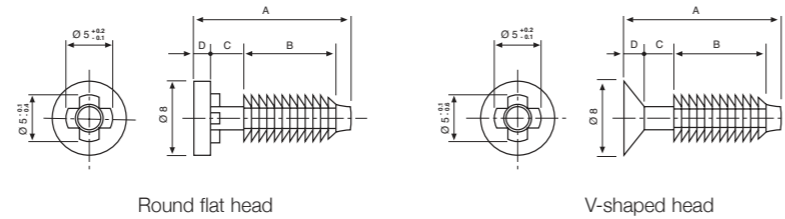


Accessories



Plastic Rivets

Purpose of the product: Fast assembly of the fans and fan guards
Size available: Suitable for fans with fixing hole diameter from 4 mm to 4.8 mm
Versions available: With round flat head or V-shaped head. Two different stem lengths, 17 mm and 22 mm
Extraction force: (hole Ø 4.5 - stem 4 mm length) 16 N
 (hole Ø 4.5 - stem 10 mm length) 45 N
Note: Drill holes (Ø 5.4 ÷ 6.5 mm) on the panel and introduce the rivets
Material: Self-extinguishing nylon 6, according to UL 94V-0
Colour: Black RAL 9005 or grey RAL 7032



Round flat head version

| Model | Dimension A | Dimension B | Dimension C | Dimension D | RAL colour |
|--------------|-------------|-------------|-------------|-------------|------------|
| | mm | mm | mm | mm | |
| FAR 175 TP N | 17 | 10 | 3.6 | 1.8 | 9005 Black |
| FAR 175 TP R | 17 | 10 | 3.6 | 1.8 | 7032 Grey |
| FAR 225 TP N | 22 | 15 | 3.8 | 1.8 | 9005 Black |
| FAR 225 TP R | 22 | 15 | 3.8 | 1.8 | 7032 Grey |

V-shaped head version

| Model | Dimension A | Dimension B | Dimension C | Dimension D | RAL colour |
|--------------|-------------|-------------|-------------|-------------|------------|
| | mm | mm | mm | mm | |
| FAR 175 TS N | 17 | 10 | 3.2 | 2.2 | 9005 Black |
| FAR 175 TS R | 17 | 10 | 3.2 | 2.2 | 7032 Grey |
| FAR 225 TS N | 22 | 15 | 3.0 | 2.6 | 9005 Black |
| FAR 225 TS R | 22 | 15 | 3.0 | 2.6 | 7032 Grey |

Accessories

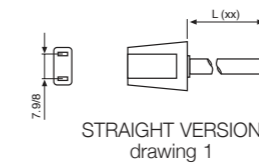


Fan Power Leads

Purpose of the product: Quick connection or disconnection of fans with standard terminal male plugs
Versions available: - Straight plug connection (drawing "1")
 - 45° plug connection (drawing "2")
 - "Daisy Chain" plugs for multiple connections (drawing "3")
Cable lengths available: For the first two versions, see the standard lengths in the boxes below.
 Other lengths are available on request, subject to quantity. For the "Daisy Chain" version standard lengths do not exist
Cable type: Flat flexible wire without sheath, H03VH-H according to CEI 20-20 or equivalent. Other types are available on request, subject to quantity
Plug material: Self-extinguishing PVC
Colour: Black

Straight version

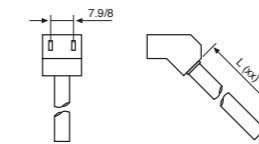
| Model | Length of cable "L" mm |
|-------|------------------------|
| C24 | 610 |
| C36 | 910 |
| C60 | 1,520 |
| C80 | 2,030 |
| C100 | 2,540 |
| C118 | 3,000 |



STRAIGHT VERSION drawing 1

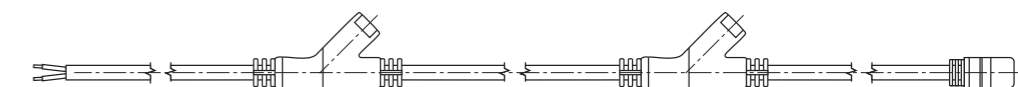
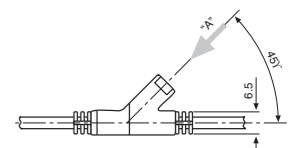
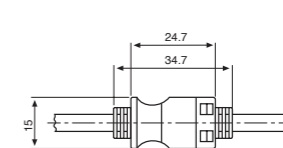
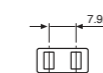
45° version

| Model | Length of cable "L" mm |
|---------|------------------------|
| C24-45 | 610 |
| C36-45 | 910 |
| C60-45 | 1,520 |
| C80-45 | 2,030 |
| C100-45 | 2,540 |



45° VERSION drawing 2

View from "A"



"DAISY CHAIN" PLUGS FOR MULTIPLE CONNECTIONS drawing 3

General information

Note

"IP" protection degree table

Protection degree against solid foreign object and against access to hazardous parts (1st numeral)

Protection degree against water (2nd numeral)

| IP | Symbol | Description | IP | Symbol | Description |
|----|--------|---|----|--------|--|
| 0 | | non-protected | 0 | | non-protected |
| 1 | | protected against solid foreign objects of 50 mm Ø or greater and against access to hazardous parts with the back of a hand | 1 | | protected against vertically falling water drops |
| 2 | | protected against solid foreign objects of 12.5 mm Ø or greater and against access to hazardous parts with a finger | 2 | | protected against vertically falling water drops at an angle up to 15° |
| 3 | | protected against solid foreign objects of 2.5 mm Ø or greater and against access to hazardous parts with a tool | 3 | | protected against spraying water at an angle up to 60° from the vertical |
| 4 | | protected against solid foreign objects of 1.0 mm Ø or greater and against access to hazardous parts with a wire | 4 | | protected against splashing water from any direction |
| 5 | | dust-protected and protected against access to hazardous parts with a wire | 5 | | protected against water jets from any direction |
| 6 | | dust-tight and protected against access to hazardous parts with a wire | 6 | | protected against powerful water jets from any direction |

Symbol and description according to rule CEI EN 60529

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The Manufacturer hereby makes no representation or warranties expressed or implied, statutory or otherwise. All implied warranties, including those of merchantability or fitness for use are hereby disclaimed.

The product is made in conformity with the cogent standards provided for by European Health and Safety legislation.

Where expressly indicated, the product conforms to the standard of Safety and Performance defined by recognised international bodies and subject to their periodic verification.

Any loss or damage, both incidental and consequential, for any failure to perform or delay to perform due to wrong use or wrong installation of the product, as well as to the non-observance of technical specifications, are not covered by the Manufacturer's warranty.

The buyer alone is responsible to determine the suitability of the product.

The data indicated in the catalogue is purely indicative. The product is subject to wear.

Electrical connections must be carried out in compliance with pertinent national, state or local health and safety laws.

If the apparatus in which the product is incorporated should guarantee continuous use without variation or interruption in performance, the product must be utilised only in the presence of a device which immediately signals any functional anomaly or arrest, allowing immediate intervention or the activation of an auxiliary product.

If installed and/or integrated in other apparatus, the use and maintenance manual of the apparatus must also indicate the correct use of our product and its working characteristics and must prescribe its estimated life, before the product actually reaches the maximum working hours shown in the data sheets, that is to say, taking account of all the specific conditions of use and of the technical specifications supplied and must supply exhaustive information allowing the user to substitute the product (removal & substitution).

Any fan found to be defective within the limits of the warranty, will be replaced free of charge. Costs of labour or other extra subsequent costs relative to the removal, restitution or new installation of the fan are not covered by the product warranty.

Colors of engineering.

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