

# AC centrifugal fan and blower

single inlet, Ø 225

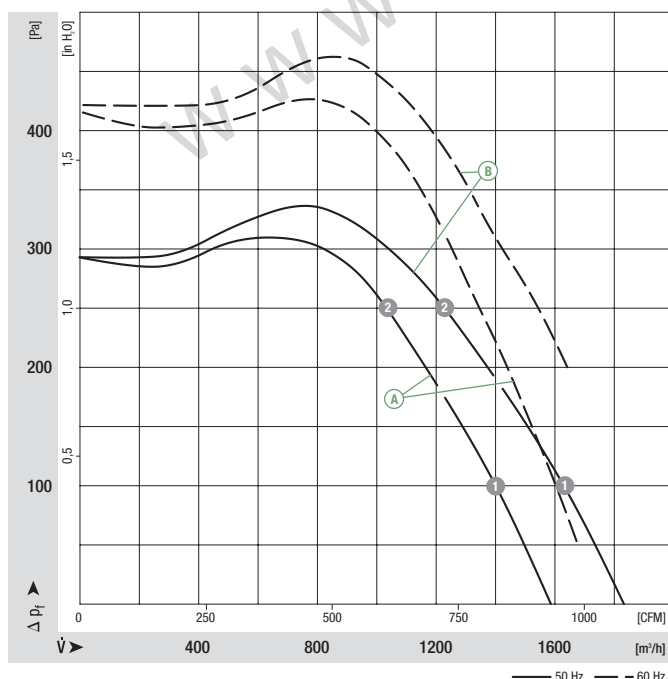


- **Material:** Housing: Galvanised sheet steel  
Impeller: Galvanised sheet steel  
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data           |            | Curve | Nominal voltage | Frequency | Speed/rpm <sup>(1)</sup> | Max. power input <sup>(1)</sup> | Max. current draw <sup>(1)</sup> | Capacitor | Min. back pressure | Perm. amb. temp. | Electr. connection |
|------------------------|------------|-------|-----------------|-----------|--------------------------|---------------------------------|----------------------------------|-----------|--------------------|------------------|--------------------|
| Type                   | Motor      |       | VAC             | Hz        | rpm                      | W                               | A                                | µF/VDB    | Pa                 | °C               | p. 596 f.          |
| *4D 225                | M4D 094-FA | (A)   | 3~ 400 Y        | 50        | 1350                     | 380                             | 0.75                             | —         | 0                  | -40 to +90       | D2)                |
|                        |            |       | 3~ 400 Y        | 60        | 1500                     | 540                             | 0.94                             | —         | 50                 | -40 to +55       |                    |
| G4D 225 <sup>(2)</sup> | M4D 094-FA | (B)   | 3~ 400 Y        | 50        | 1310                     | 460                             | 0.85                             | —         | 0                  | -40 to +75       | D2)                |
|                        |            |       | 3~ 400 Y        | 60        | 1520                     | 515                             | 0.90                             | —         | 200                | -40 to +60       |                    |

subject to alterations (1) Nominal data in operating point with maximum load (2) Data collected via exhaust duct (step diffuser, 1 m length)

## Curves



|       | n [rpm] | P <sub>1</sub> [W] | I [A] | L <sub>pA</sub> [dB(A)] |
|-------|---------|--------------------|-------|-------------------------|
| (A) 1 | 1380    | 325                | 0.69  | 71                      |
| (A) 2 | 1420    | 228                | 0.60  | 67                      |
| (B) 1 | 1345    | 388                | 0.76  | 74                      |
| (B) 2 | 1400    | 271                | 0.64  | 69                      |

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Options:** ② 400 VAC Δ/Y for two speed steps available on request

General  
information

AC centrifugal,  
backward

AC centrifugal,  
forward

EC centrifugal,  
backward

EC centrifugal, back-  
ward for clean rooms

EC centrifugal,  
forward

EC-SYSTEMS

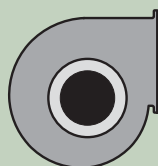
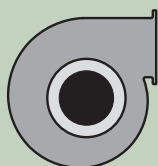
Accessories

Technology

Contacts



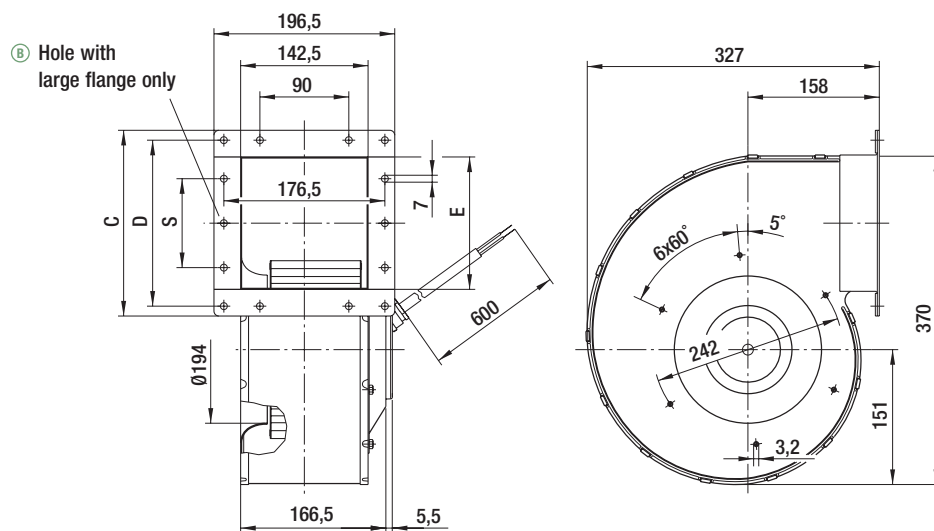
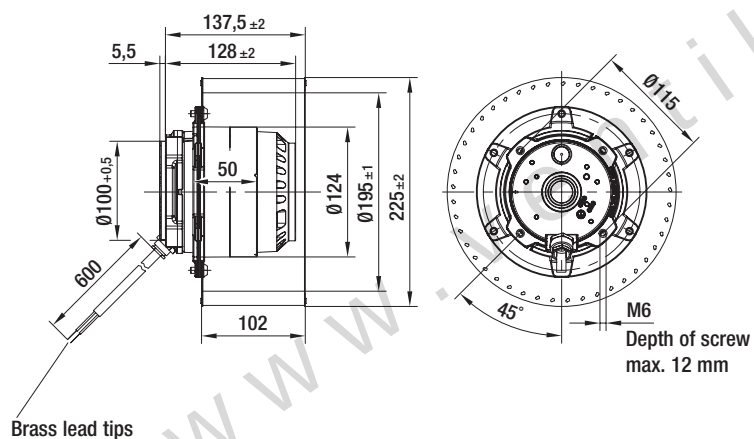
Mass of  
centrifugal fan



Mass of  
centrifugal blower

Dimensions

| Centrifugal fan  | kg  | Centrifugal blower<br>with flange (small) | Centrifugal blower<br>with flange (large) | kg  | C     | D     | E     | S     |
|------------------|-----|-------------------------------------------|-------------------------------------------|-----|-------|-------|-------|-------|
| R4D 225-AK10 -06 | 6.5 | G4D 225-FK10 -03                          | —                                         | 9.5 | 200.0 | 180.0 | 146.0 | 90.0  |
| —                | —   | —                                         | G4D 225-GK10 -03                          | 9.7 | 304.0 | 284.0 | 250.0 | 180.0 |



# AC centrifugal fan and blower

single inlet, Ø 225

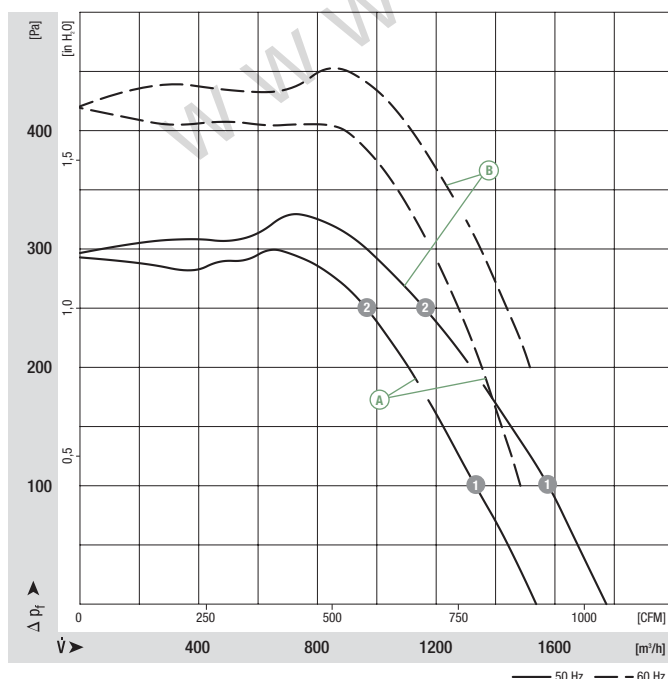


- **Material:** Housing: Galvanised sheet steel  
Impeller: Galvanised sheet steel  
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data           |            | Curve | Nominal voltage  | Frequency | Speed/rpm <sup>(1)</sup> | Max. power input <sup>(1)</sup> | Max. current draw <sup>(1)</sup> | Capacitor          | Min. back pressure | Perm. amb. temp.         | Electr. connection |
|------------------------|------------|-------|------------------|-----------|--------------------------|---------------------------------|----------------------------------|--------------------|--------------------|--------------------------|--------------------|
| Type                   | Motor      |       | VAC              | Hz        | rpm                      | W                               | A                                | µF/VDB             | Pa                 | °C                       | p. 596 f.          |
| *4E 225                | M4E 094-FA | (A)   | 1~ 230<br>1~ 230 | 50<br>60  | 1330<br>1500             | 395<br>500                      | 1.98<br>2.30                     | 6.0/450<br>6.0/450 | 0<br>100           | -40 to +70<br>-40 to +50 | A2a)               |
| G4E 225 <sup>(2)</sup> | M4E 094-FA | (B)   | 1~ 230<br>1~ 230 | 50<br>60  | 1260<br>1470             | 485<br>510                      | 2.30<br>2.30                     | 6.0/450<br>6.0/450 | 0<br>200           | -40 to +55<br>-40 to +45 | A2a)               |

subject to alterations (1) Nominal data in operating point with maximum load (2) Data collected via exhaust duct (step diffuser, 1 m length)

## Curves



|       | n [rpm] | P <sub>1</sub> [W] | I [A] | Lp <sub>A</sub> [dB(A)] |
|-------|---------|--------------------|-------|-------------------------|
| (A) 1 | 1365    | 339                | 1.75  | 67                      |
| (A) 2 | 1415    | 255                | 1.46  | 70                      |
| (B) 1 | 1320    | 401                | 2.00  | 74                      |
| (B) 2 | 1395    | 292                | 1.57  | 69                      |

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE

General  
information

AC centrifugal,  
backward

AC centrifugal,  
forward

EC centrifugal,  
backward

EC centrifugal, back-  
ward for clean rooms

EC centrifugal,  
forward

EC-SYSTEMS

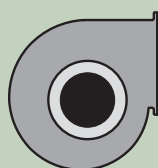
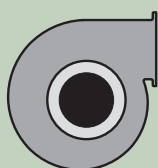
Accessories

Technology

Contacts



Mass of  
centrifugal fan



Mass of  
centrifugal blower

Dimensions

| Centrifugal fan  | kg  | Centrifugal blower<br>with flange (small) | Centrifugal blower<br>with flange (large) | kg  | C     | D     | E     | S     |
|------------------|-----|-------------------------------------------|-------------------------------------------|-----|-------|-------|-------|-------|
| R4E 225-BK05 -03 | 6.6 | G4E 225-DK05 -03                          | —                                         | 9.6 | 200.0 | 180.0 | 146.0 | 90.0  |
| —                | —   | —                                         | G4E 225-EK05 -03                          | 9.8 | 304.0 | 284.0 | 250.0 | 180.0 |

