**G2E120-AR38-C8**

# AC centrifugal fan

forward curved, single inlet

with housing (flange)

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## Nominal data

| | |
|---|---|
| **Type** | **G2E120-AR38-C8** |
| **Motor** | **M2E068-BF** |

| | | | |
|---|---|---|---|
| Phase | | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 |
| Frequency | Hz | 50 | 60 |
| Type of data definition | | fa | fa |
| Valid for approval / standard | | CE | CE |
| Speed | $min^{-1}$ | 2500 | 2600 |
| Power input | W | 83 | 110 |
| Current draw | A | 0.37 | 0.5 |
| Motor capacitor | µF | 2 | 2 |
| Capacitor voltage | VDB | 450 | 450 |
| Min. back pressure | Pa | 0 | 0 |
| Max. ambient temperature | °C | 50 | 60 |

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

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## Technical features

| | |
|---|---|
| **Mass** | 2.3 kg |
| **Size** | 120 mm |
| **Surface of rotor** | Uncoated |
| **Material of impeller** | Sheet steel, sendzimir galvanised |
| **Housing material** | Die-cast aluminium |
| **Direction of rotation** | Clockwise, seen on rotor |
| **Type of protection** | IP 44 |
| **Insulation class** | "B" |
| **Humidity class** | F0 |
| **Max. permissible ambient motor temp. (transp./ storage)** | + 80 °C |
| **Min. permissible ambient motor temp. (transp./storage)** | - 40 °C |
| **Mounting position** | Shaft horizontal |
| **Condensate discharge holes** | None |
| **Operation mode** | S1 |
| **Motor bearing** | Ball bearing |
| **Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)** | < 0.75 mA |
| **Electrical leads** | Via terminals, capacitor connected via terminals |
| **Motor protection** | Thermal overload protector (TOP) wired internally |
| **Cable exit** | Axial |
| **Protection class** | I (if protective earth is connected by customer) |
| **Product conforming to standard** | EN 60335-1; CE |



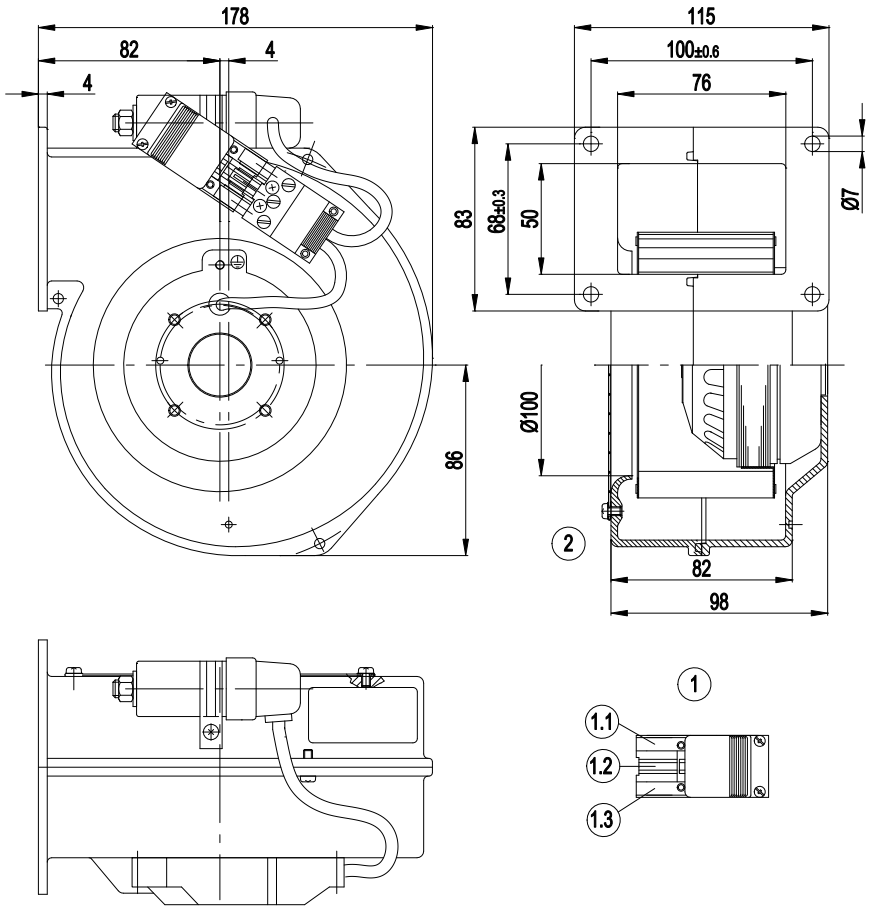
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## Product drawing




| | |
|---|---|
| 1 | Wieland ST18/3 connector housing |
| 1.1 | blue |
| 1.2 | green/yellow |
| 1.3 | black |
| 2 | Drawing shown without capacitor or plug |



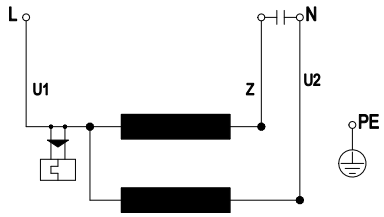
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## Connection screen




| | | | | | |
|---|---|---|---|---|---|
| U1 | blue | Z | brown | U2 | black |
| PE | green/yellow | | | | |



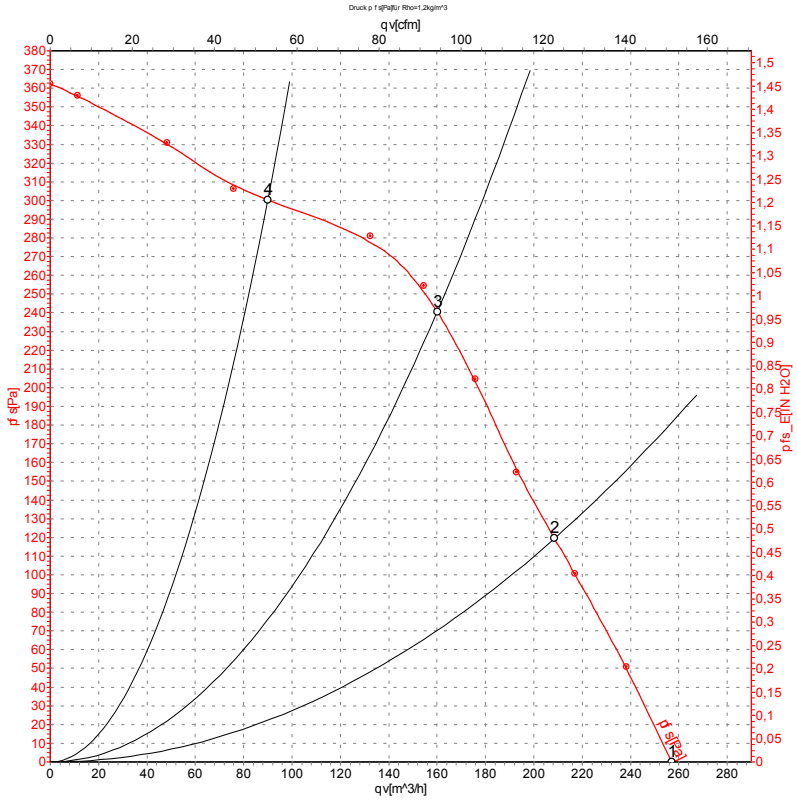
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# AC centrifugal fan

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## Charts: Air flow 50 Hz




Measurement: LU-4577

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

| | U | f | n | $P_e$ | I | qv | $p_{fs}$ |
|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa |
| 1 | 230 | 50 | 2500 | 83 | 0.37 | 255 | 0 |
| 2 | 230 | 50 | 2620 | 78 | 0.35 | 210 | 120 |
| 3 | 230 | 50 | 2715 | 73 | 0.33 | 160 | 240 |
| 4 | 230 | 50 | 2805 | 68 | 0.32 | 90 | 300 |

U = Supply voltage · f = Frequency · n = Speed · $P_e$ = Power input · I = Current draw · qv = Air flow · $p_{fs}$ = Pressure increase



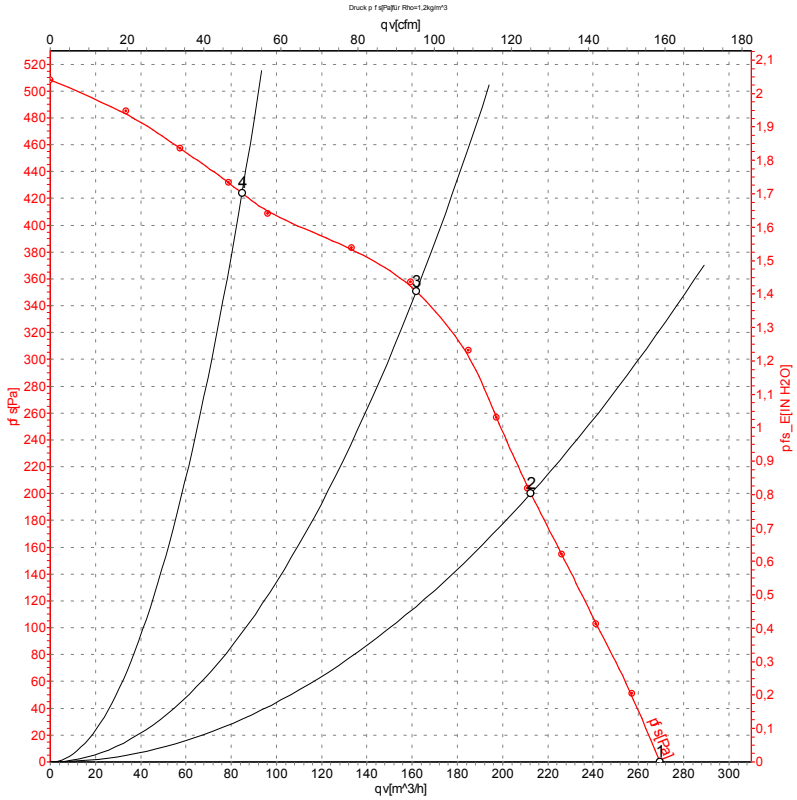
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## Charts: Air flow 60 Hz




Measurement: LU-4580

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

| | U | f | n | $P_e$ | I | qv | $p_{fs}$ |
|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa |
| 1 | 230 | 60 | 2600 | 110 | 0.50 | 270 | 0 |
| 2 | 230 | 60 | 2965 | 97 | 0.42 | 210 | 200 |
| 3 | 230 | 60 | 3145 | 89 | 0.39 | 160 | 350 |
| 4 | 230 | 60 | 3325 | 80 | 0.35 | 85 | 425 |

U = Supply voltage · f = Frequency · n = Speed · $P_e$ = Power input · I = Current draw · qv = Air flow · $p_{fs}$ = Pressure increase



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