**G2E140-AL40-01**

# AC centrifugal fan

forward curved, single inlet

with housing (flange), for solid fuel heating systems



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## Nominal data

| | |
|---|---|
| **Type** | **G2E140-AL40-01** |
| **Motor** | **M2E068-CF** |

| | | | |
|---|---|---|---|
| Phase | | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 |
| Frequency | Hz | 50 | 60 |
| Type of data definition | | fa | ml |
| Valid for approval / standard | | CE | CE |
| Speed | $min^{-1}$ | 1650 | 1700 |
| Power input | W | 135 | 145 |
| Current draw | A | 0.60 | 0.64 |
| Motor capacitor | µF | 2 | 2 |
| Capacitor voltage | VDB | 450 | 450 |
| Capacitor standard | | P0 (CE) | P0 (CE) |
| Min. back pressure | Pa | 0 | 100 |
| Min. ambient temperature | °C | -25 | -25 |
| Max. ambient temperature | °C | 60 | 40 |

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** | 3.0 kg |
| **Size** | 140 mm |
| **Material of impeller** | Sheet steel, hot-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** | Any |
| **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 |
| **Motor protection** | Thermal overload protector (TOP) wired internally |
| **Protection class** | I (if protective earth is connected by customer) |
| **Product conforming to standard** | EN 60335-1; CE |
| **Approval** | CCC; GOST |



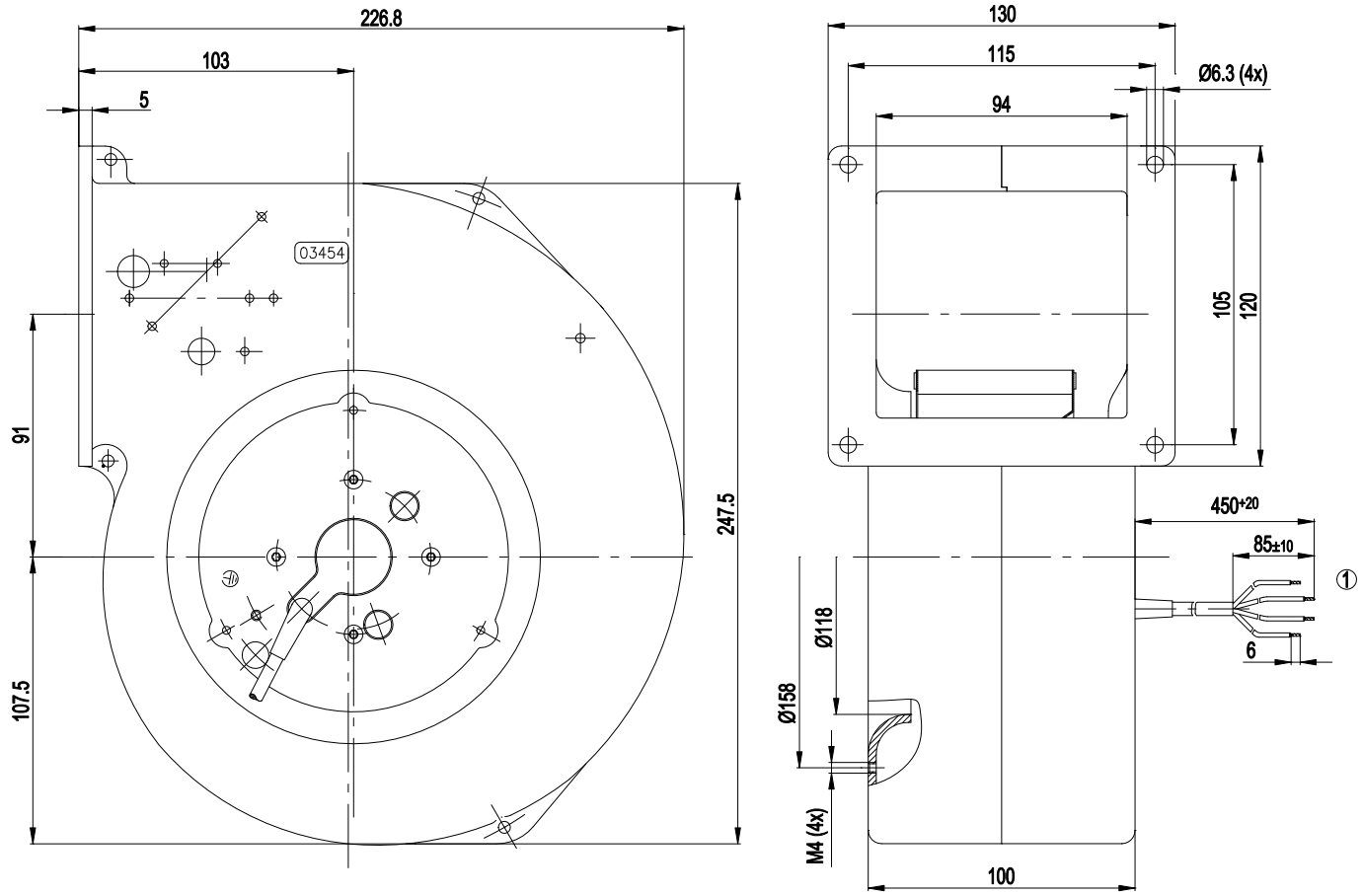
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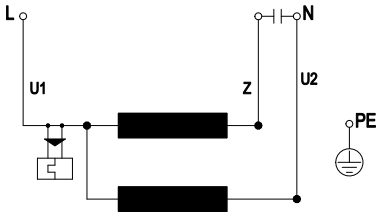
with housing (flange), for solid fuel heating systems

## Product drawing




| | |
|---|---|
| 1 | Connection line PVC 4G 0.5 mm², 4 x brass lead tips crimped |

## Connection screen




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



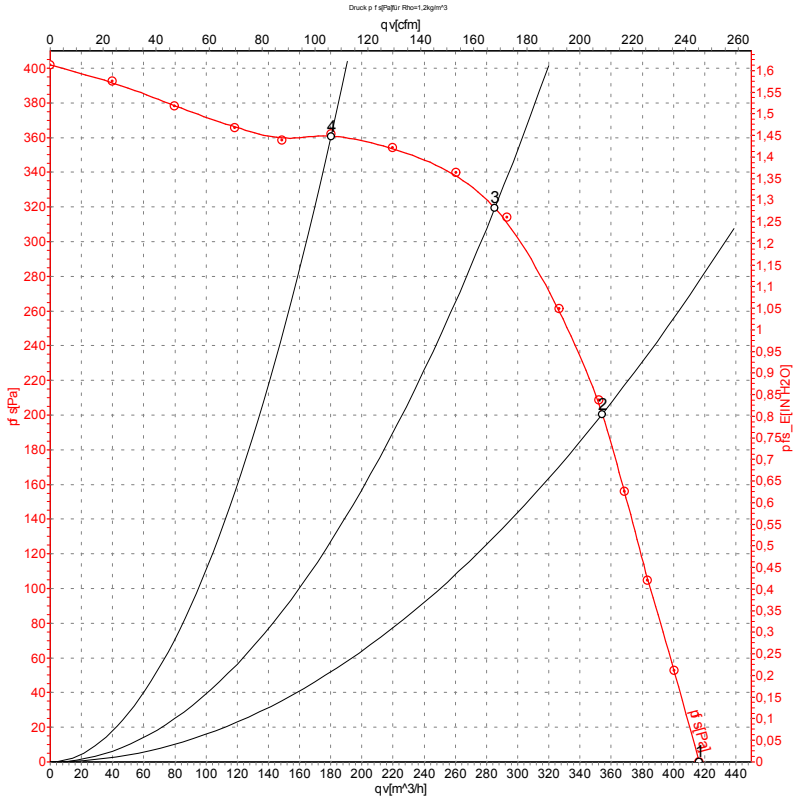
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## Charts: Air flow 50 Hz




Measurement: LU-105094

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 | 1650 | 135 | 0.60 | 415 | 0 |
| 2 | 230 | 50 | 2095 | 111 | 0.48 | 355 | 200 |
| 3 | 230 | 50 | 2350 | 98 | 0.43 | 285 | 320 |
| 4 | 230 | 50 | 2590 | 81 | 0.35 | 180 | 360 |

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



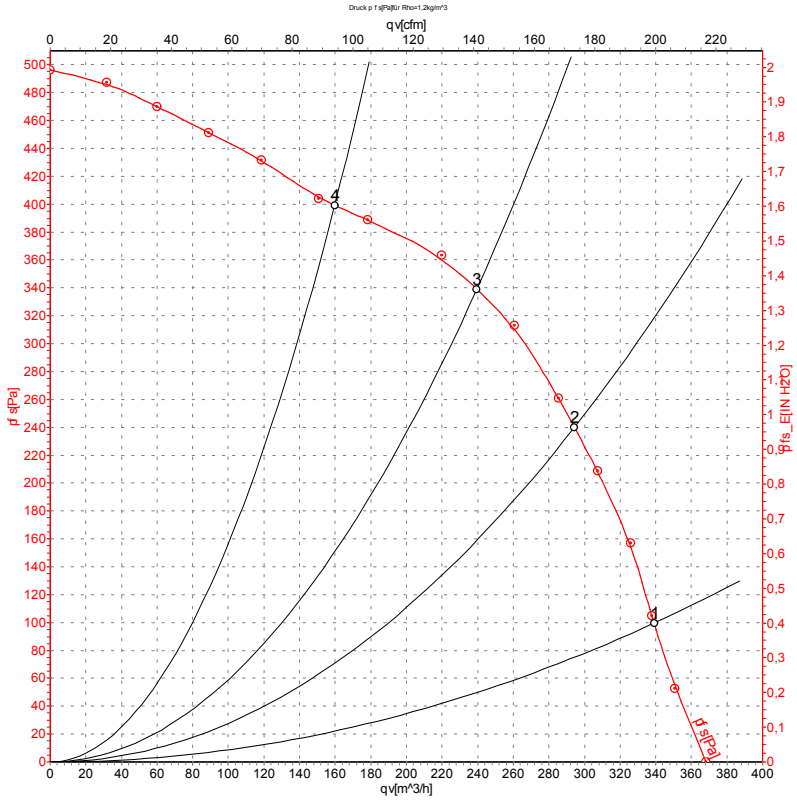
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## Charts: Air flow 60 Hz




Measurement: LU-105095

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 | 1700 | 145 | 0.64 | 340 | 100 |
| 2 | 230 | 60 | 2100 | 129 | 0.56 | 295 | 240 |
| 3 | 230 | 60 | 2425 | 123 | 0.54 | 240 | 340 |
| 4 | 230 | 60 | 2775 | 115 | 0.50 | 160 | 400 |

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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