**K2E200-AD08-02**

# AC diagonal module

single inlet

with housing



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## Nominal data

| | |
|---|---|
| **Type** | **K2E200-AD08-02** |
| **Motor** | **M2E068-CF** |

| | | | | |
|---|---|---|---|---|
| Phase | | 1~ | 1~ | 1~ |
| Nominal voltage | VAC | 115 | 115 | 115 |
| Frequency | Hz | 50 | 60 | 60 |
| Type of data definition | | fa | fa | fa |
| Valid for approval / standard | | CE | CE | UL 1004-3 |
| Speed (rpm) | $min^{-1}$ | 2750 | 3200 | 3200 |
| Power input | W | 75 | 90 | 95 |
| Current draw | A | 0.8 | 0.8 | 0.85 |
| Motor capacitor | µF | 7 | 7 | 7 |
| Capacitor voltage | VDB | 220 | 220 | 220 |
| Capacitor standard | | S0 (CE) | S0 (CE) | S0 (CE) |
| Max. back pressure | Pa | 160 | 210 | 210 |
| Min. ambient temperature | °C | -25 | -25 | -25 |
| Max. ambient temperature | °C | 55 | 85 | 85 |
| Starting current | A | 1.72 | 1.7 | 1.7 |

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** | 2.6 kg |
| **Size** | 200 mm |
| **Surface of rotor** | Coated in black |
| **Material of terminal box** | PA plastic |
| **Material of impeller** | PA plastic |
| **Housing material** | PP plastic |
| **Number of blades** | 7 |
| **Direction of rotation** | Clockwise, seen on rotor |
| **Type of protection** | IP 44; Depending on installation and position as per EN 60034-5 |
| **Insulation class** | "F" |
| **Humidity (F)/environmental protection class (H)** | H0+ |
| **Max. permissible ambient motor temp. (transp./ storage)** | + 80 °C |
| **Min. permissible ambient motor temp. (transp./storage)** | - 40 °C |
| **Mounting position** | Shaft horizontal or rotor on top; rotor on bottom on request |
| **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) |
| **Motor capacitor according to EN 60252-1 in safety protection class** | S0 |
| **Product conforming to standard** | EN 60335-1; CE |
| **Approval** | UL 1004-3; CSA C22.2 No.77 |



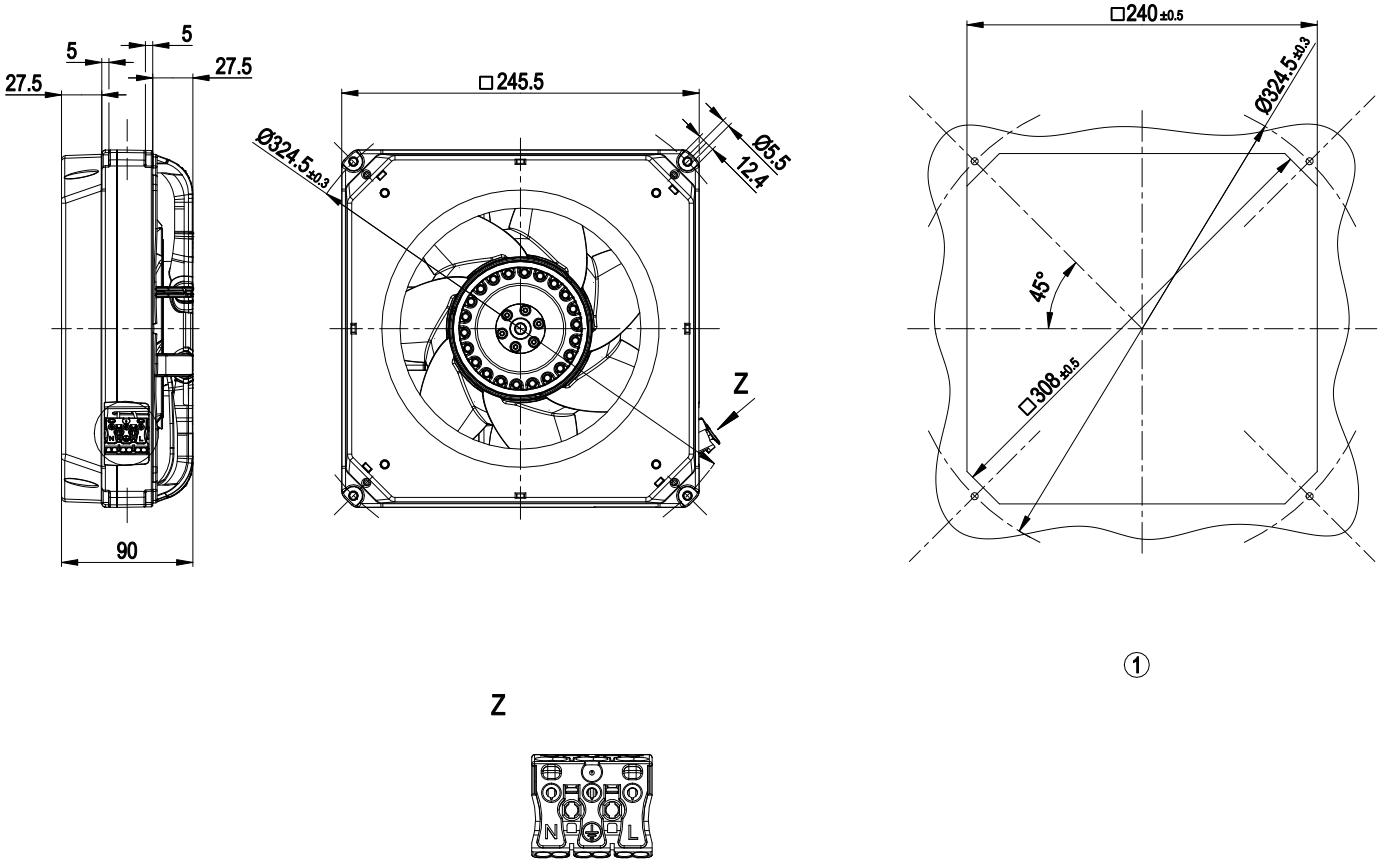
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## Product drawing




| | |
|---|---|
| 1 | Mounting dimensions |



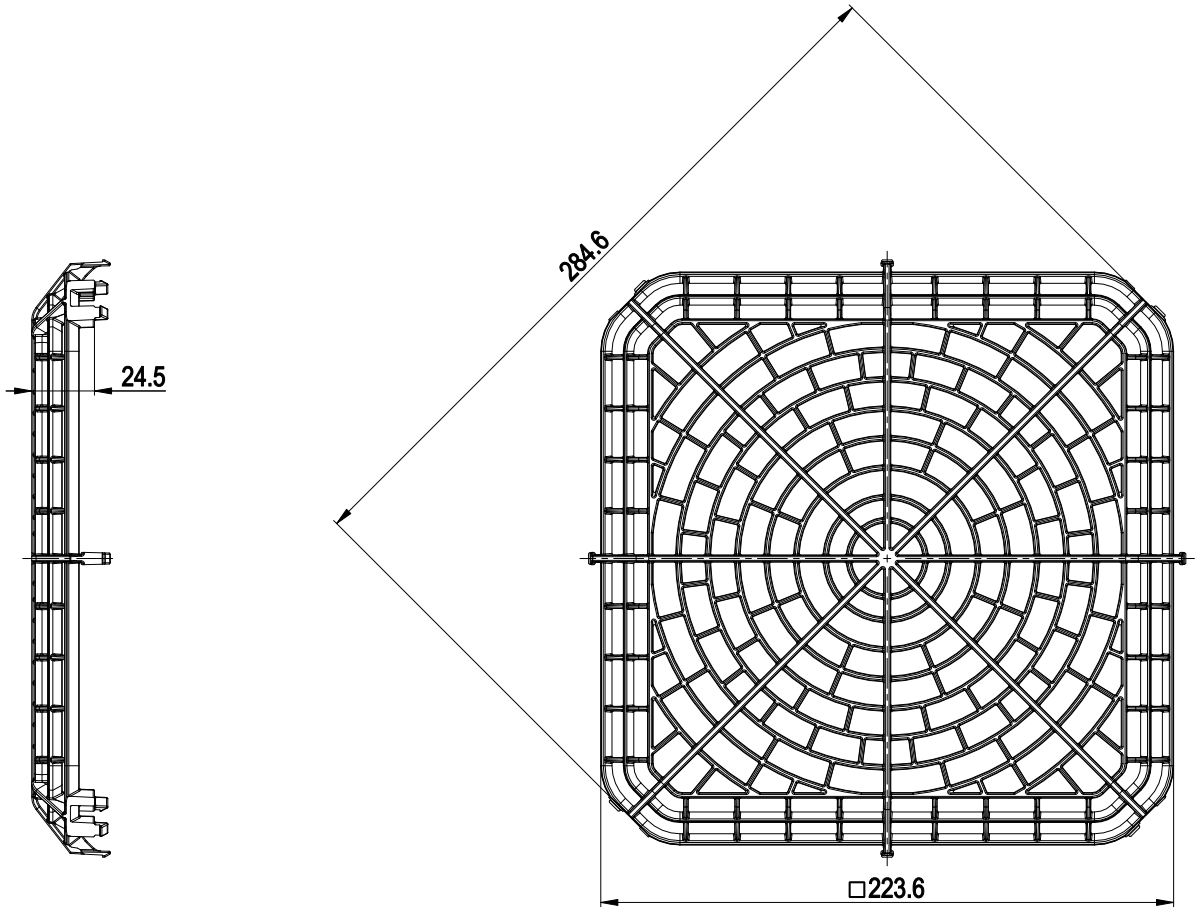
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## Accessory part




Accessory part: Guard grille 25000-2-2929 outlet side, not included in scope of delivery

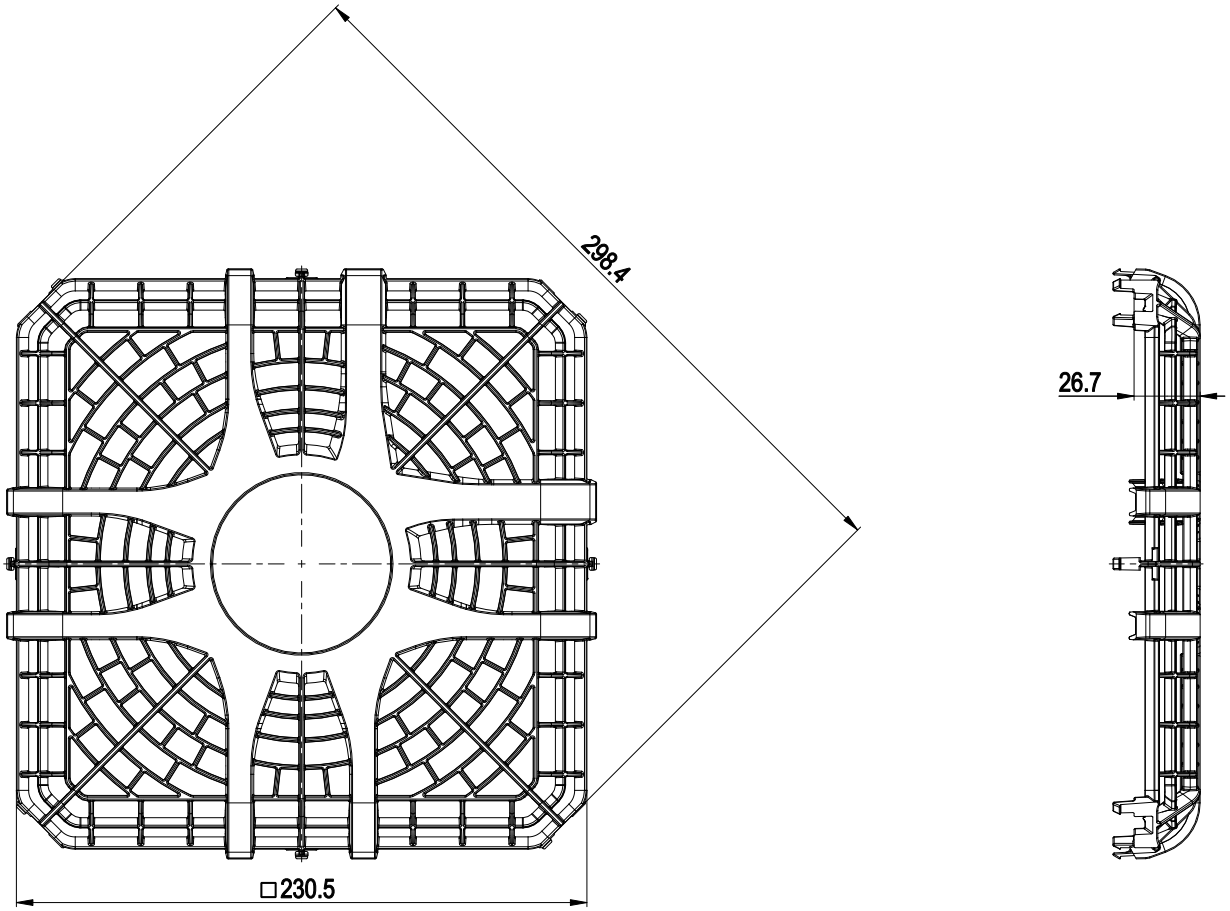


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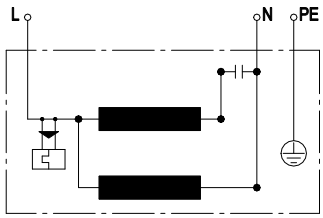
single inlet

with housing




Accessory part: Guard grille 25001-2-2929 intake side, not included in scope of delivery

## Connection screen




| | | | | | |
|---|---|---|---|---|---|
| L | black | N | blue | PE | green / yellow |



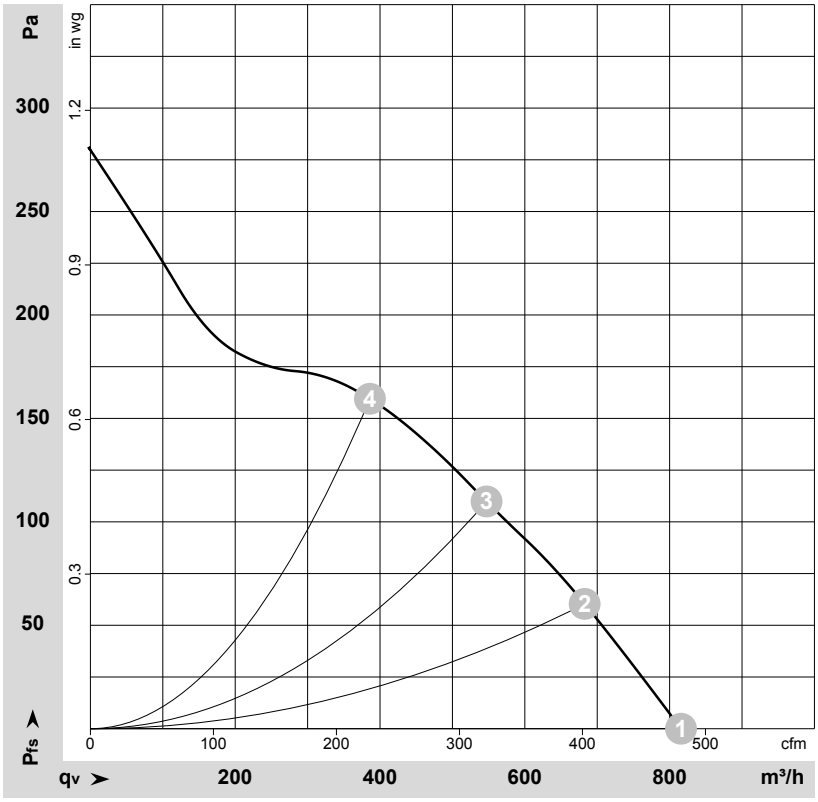
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## Charts: Air flow 50 Hz




ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-174954-1

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 | $LpA_{in}$ | $LwA_{in}$ | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | dB(A) | dB(A) | $m^3/h$ | Pa | cfm | inH2O |
| 1 | 115 | 50 | 2750 | 75 | 0.80 | 61 | 69 | 815 | 0 | 480 | 0.00 |
| 2 | 115 | 50 | 2730 | 77 | 0.80 | 60 | 68 | 685 | 60 | 400 | 0.24 |
| 3 | 115 | 50 | 2710 | 79 | 0.80 | 59 | 66 | 545 | 110 | 320 | 0.44 |
| 4 | 115 | 50 | 2715 | 78 | 0.79 | 58 | 66 | 385 | 160 | 225 | 0.64 |

U = Supply voltage · f = Frequency · n = Speed (rpm) · $P_e$ = Power input · I = Current draw · $LpA_{in}$ = Sound pressure level inlet side · $LwA_{in}$ = Sound power level inlet side · $q_V$ = Air flow
$p_{fs}$ = Pressure increase



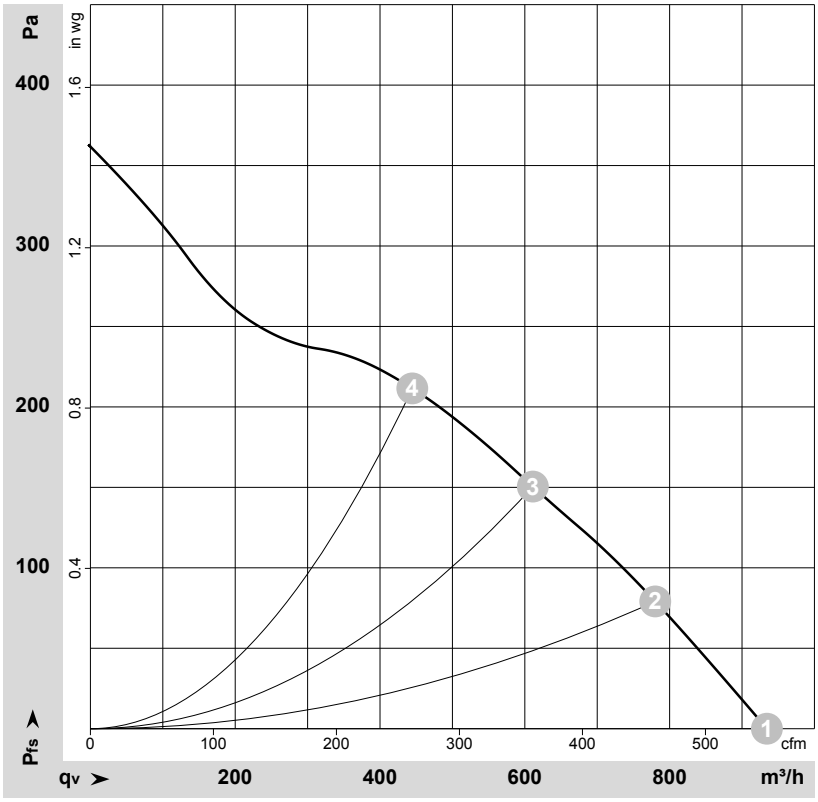
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## Charts: Air flow 60 Hz




ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-175377-1

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 | $LpA_{in}$ | $LwA_{in}$ | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | dB(A) | dB(A) | $m^3/h$ | Pa | cfm | inH2O |
| 1 | 115 | 60 | 3200 | 90 | 0.80 | 64 | 72 | 935 | 0 | 550 | 0.00 |
| 2 | 115 | 60 | 3120 | 95 | 0.83 | 63 | 71 | 780 | 80 | 460 | 0.32 |
| 3 | 115 | 60 | 3080 | 99 | 0.87 | 61 | 69 | 610 | 150 | 360 | 0.60 |
| 4 | 115 | 60 | 3095 | 97 | 0.85 | 61 | 69 | 445 | 210 | 260 | 0.84 |

U = Supply voltage · f = Frequency · n = Speed (rpm) · $P_e$ = Power input · I = Current draw · $LpA_{in}$ = Sound pressure level inlet side · $LwA_{in}$ = Sound power level inlet side · $q_V$ = Air flow
$p_{fs}$ = Pressure increase



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