**W4E200-HH28-05**

# AC axial compact fan

sickled blades (S series), single inlet

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## Nominal data

| | |
|---|---|
| **Type** | **W4E200-HH28-05** |
| **Motor** | **M4E068-BF** |

| | | | |
|---|---|---|---|
| Phase | | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 |
| Nominal voltage range | VAC | 220 .. 240 | 220 .. 240 |
| Frequency | Hz | 50 | 60 |
| Type of data definition | | fa | fa |
| Valid for approval / standard | | CE | CE |
| Speed (rpm) | $min^{-1}$ | 1300 | 1500 |
| Power input | W | 16 | 18 |
| Current draw | A | 0.07 | 0.08 |
| Motor capacitor | µF | 0.5 | 0.5 |
| Capacitor voltage | VDB | 400 | 400 |
| Min. ambient temperature | °C | -25 | -25 |
| Max. ambient temperature | °C | 80 | 80 |

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** | 2.1 kg |
| **Size** | 200 mm |
| **Surface of rotor** | Coated in black |
| **Material of blades** | Sheet steel, coated in black |
| **Material of wall ring** | Die-cast aluminium |
| **Number of blades** | 9 |
| **Direction of air flow** | "V" |
| **Direction of rotation** | Counter-clockwise, seen on rotor |
| **Type of protection** | IP 44; Depending on installation and position as per EN 60034-5 |
| **Insulation class** | "B" |
| **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 bottom; rotor on top on request |
| **Condensate discharge holes** | Rotor-side |
| **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 |
| **Cable exit** | Variable |
| **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** | CSA C22.2 No.100; UL 1004-1 |

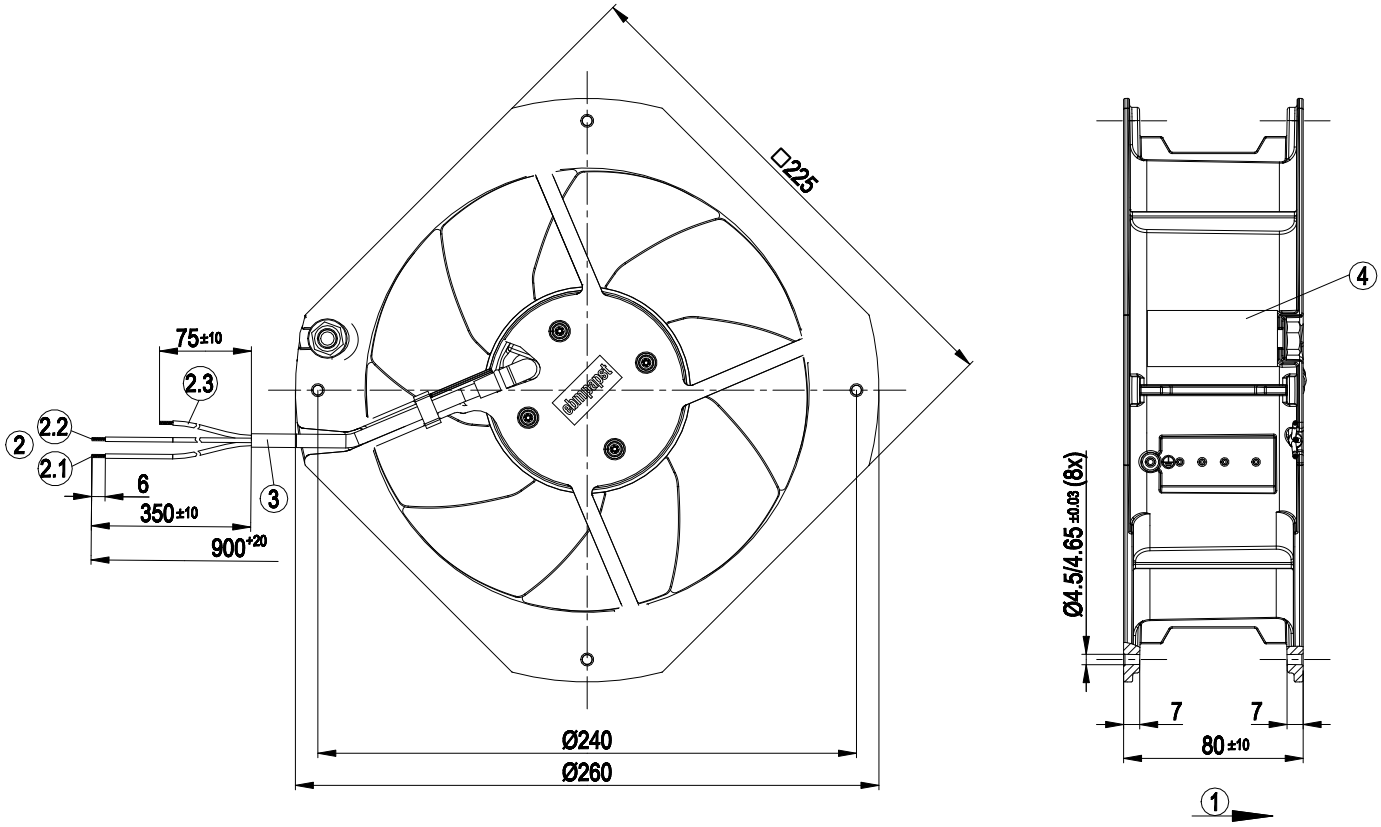


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## Product drawing




| | |
|---|---|
| 1 | Direction of air flow "V" |
| 2 | Connection line silicone 3G 1 mm², 3x lead tips crimped |
| 2.1 | green/yellow |
| 2.2 | blue |
| 2.3 | black |
| 3 | Heat shrink tube |
| 4 | Capacitor |

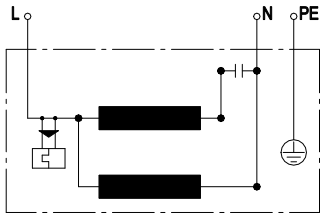


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## Connection screen




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

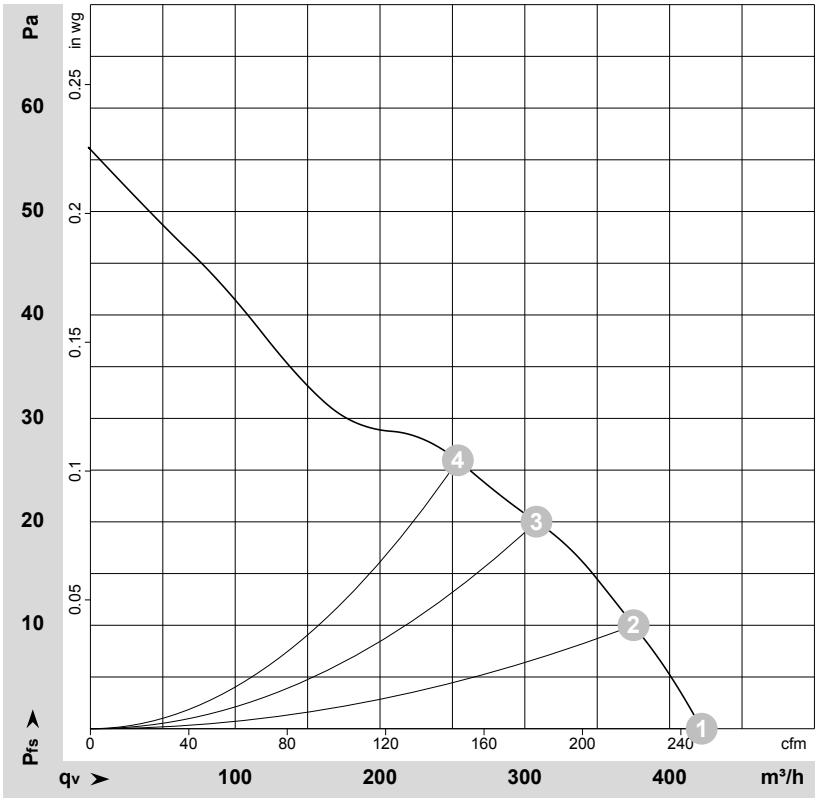


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# AC axial compact fan

sickled blades (S series), single inlet

## Charts: Air flow 50 Hz




ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-23897-1

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 | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa | cfm | inH2O |
| 1 | 230 | 50 | 1300 | 16 | 0.07 | 420 | 0 | 250 | 0.00 |
| 2 | 230 | 50 | 1295 | 16 | 0.07 | 375 | 10 | 220 | 0.04 |
| 3 | 230 | 50 | 1270 | 16 | 0.07 | 310 | 20 | 180 | 0.08 |
| 4 | 230 | 50 | 1260 | 16 | 0.07 | 255 | 26 | 150 | 0.10 |

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

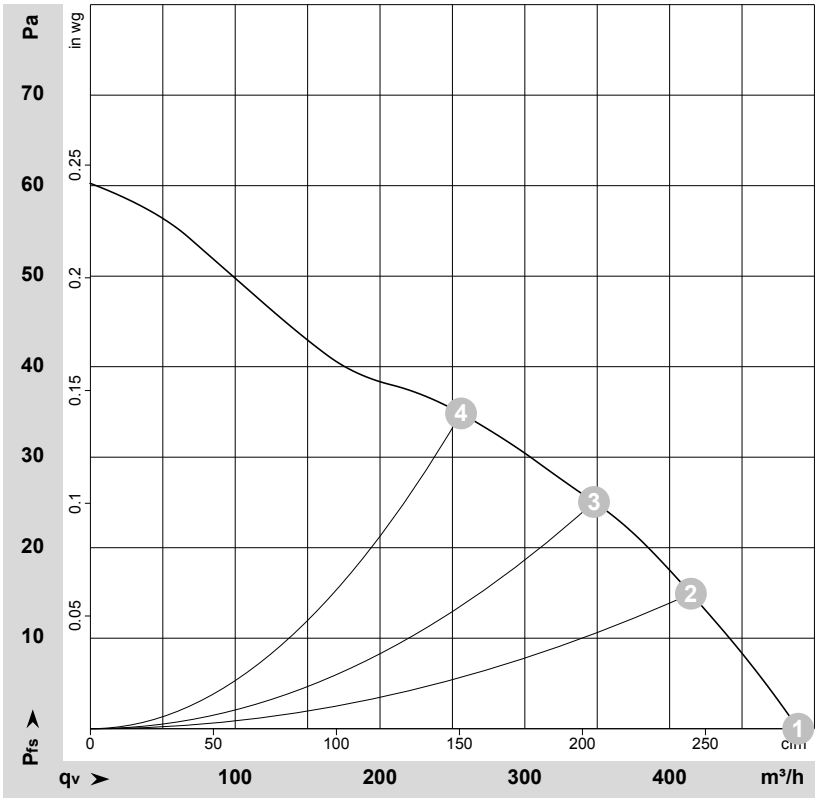


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# AC axial compact fan

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## Charts: Air flow 60 Hz




ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-23898-1

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 | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa | cfm | inH2O |
| 1 | 230 | 60 | 1500 | 18 | 0.08 | 490 | 0 | 290 | 0.00 |
| 2 | 230 | 60 | 1455 | 18 | 0.08 | 415 | 15 | 245 | 0.06 |
| 3 | 230 | 60 | 1415 | 18 | 0.08 | 350 | 25 | 205 | 0.10 |
| 4 | 230 | 60 | 1400 | 18 | 0.08 | 255 | 35 | 150 | 0.14 |

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



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