**R2E225-BD92-09/A05**

# AC centrifugal fan

backward curved, single inlet



**ebm-papst Mulfingen GmbH & Co. KG**
Bachmühle 2
74673 Mulfingen
Phone: +49 7938 81-0
Fax: +49 7938 81-110
www.ebmpapst.com
info1@de.ebmpapst.com

## Nominal data

| | | | |
|---|---|---|---|
| **Type** | **R2E225-BD92-09/A05** | | |
| **Motor** | **M2E068-DF** | | |
| Phase | | 1~ | 1~ |
| Nominal voltage | [V] | 230 | 230 |
| Frequency | [Hz] | 50 | 60 |
| Type of data definition | | rfa | rfa |
| Valid for approval / standard | | CE | CE |
| Speed | [min$^{-1}$] | 2650 | 2950 |
| Power input | [W] | 135 | 200 |
| Current draw | [A] | 0.6 | 0.88 |
| Motor capacitor | [µF] | 4 | 4 |
| Capacitor voltage | [VDB] | 450 | 450 |
| Min. back pressure | [Pa] | 0 | 0 |
| Max. ambient temperature | [°C] | 55 | 55 |
| Air flow | [m$^3$/h] | 1200 | 1340 |
| Back pressure | [Pa] | 0 | 0 |
| Sound pressure level | [dB(A)] | 69 | 71 |

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

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## Technical features

| | |
|---|---|
| **Leackage current** | < 0,75 mA |
| **Size** | 225 mm |
| **Operation mode** | S1 |
| **Mounting position** | Shaft horizontal or rotor on bottom; rotor on top on request |
| **Direction of rotation** | Clockwise, seen on rotor |
| **Insulation class** | "F" |
| **Cable exit** | Variable |
| **Condensate discharge holes** | Rotor-side |
| **Bearing-motor** | Ball bearing |
| **Mass** | 2.28 kg |
| **Material of impeller** | PA plastic 6, fiberglass-reinforced |
| **Motor protection** | Thermal overload protector (TOP) wired internally |
| **Product conforming to standard** | CE; EN 60335-1 |
| **Surface of rotor** | Coated in black |
| **Number of blades** | 7 |
| **Type of protection** | IP 44 |
| **Protection class** | I |
| **Approval** | CCC |

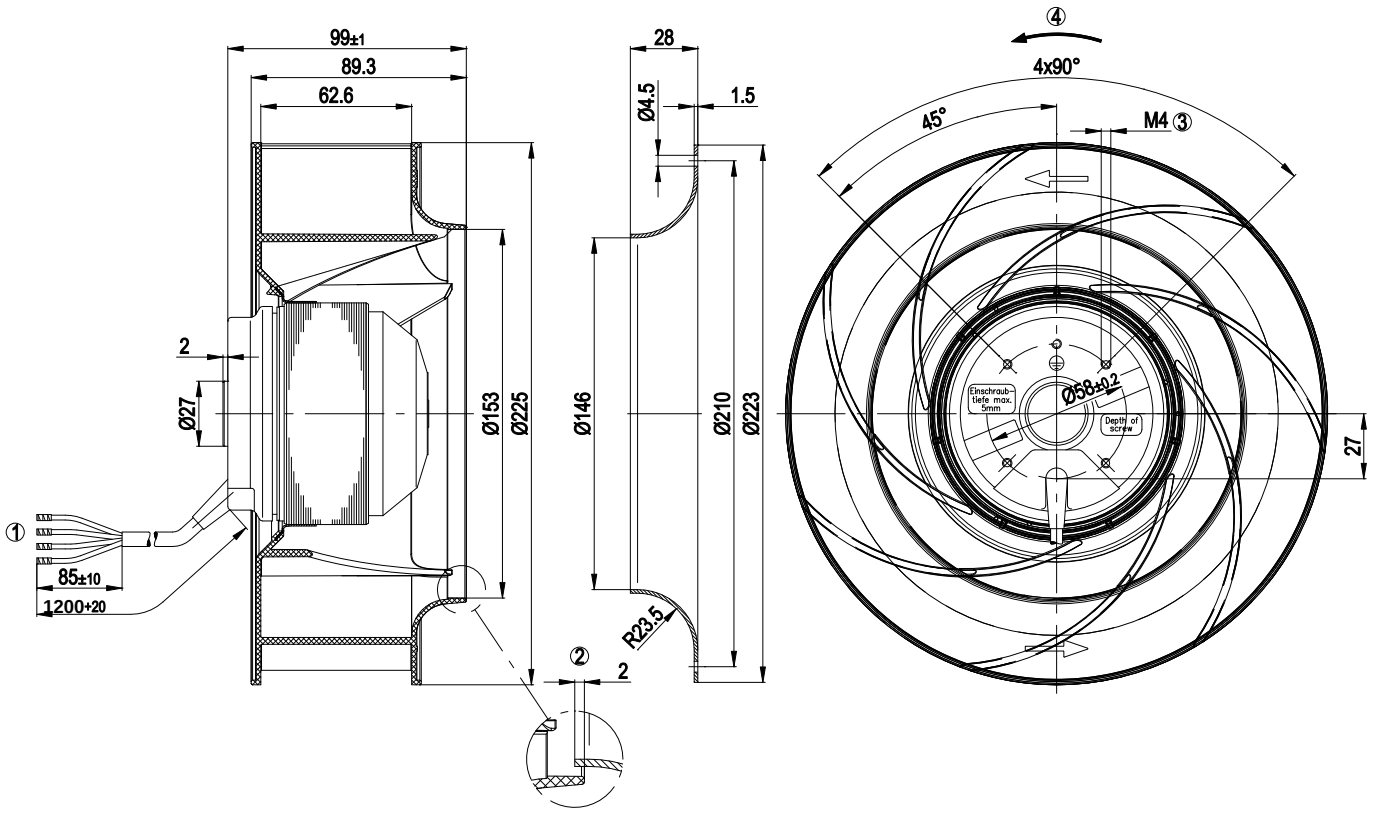


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## Product drawing




| | |
|---|---|
| 1 | Connection line silicone, 4x brass lead tips crimped |
| 2 | Accessory part: Inlet nozzle 96358-2-4013, not included in the standard scope of delivery |
| 3 | Screw depth max. 5 mm |
| 4 | Direction of rotation clockwise, seen on rotor |

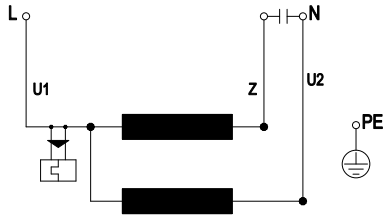


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## Connection screen




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

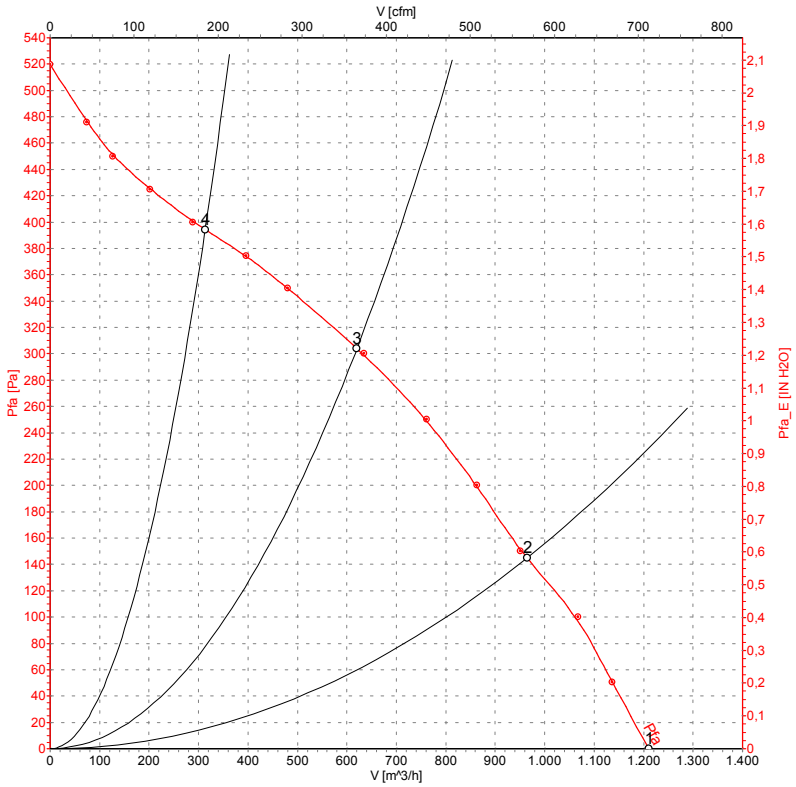


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## Charts: Air flow 50 Hz




## Measured values

| | U | f | n | $P_1$ | I | $\dot{V}$ | $p_{fa}$ |
|---|---|---|---|---|---|---|---|
| | [V] | [Hz] | [$min^{-1}$] | [W] | [A] | [$m^3/h$] | [Pa] |
| 1 | 230 | 50 | 2705 | 129 | 0.56 | 1210 | 0 |
| 2 | 230 | 50 | 2660 | 138 | 0.60 | 965 | 144 |
| 3 | 230 | 50 | 2595 | 150 | 0.65 | 620 | 305 |
| 4 | 230 | 50 | 2670 | 135 | 0.59 | 315 | 394 |

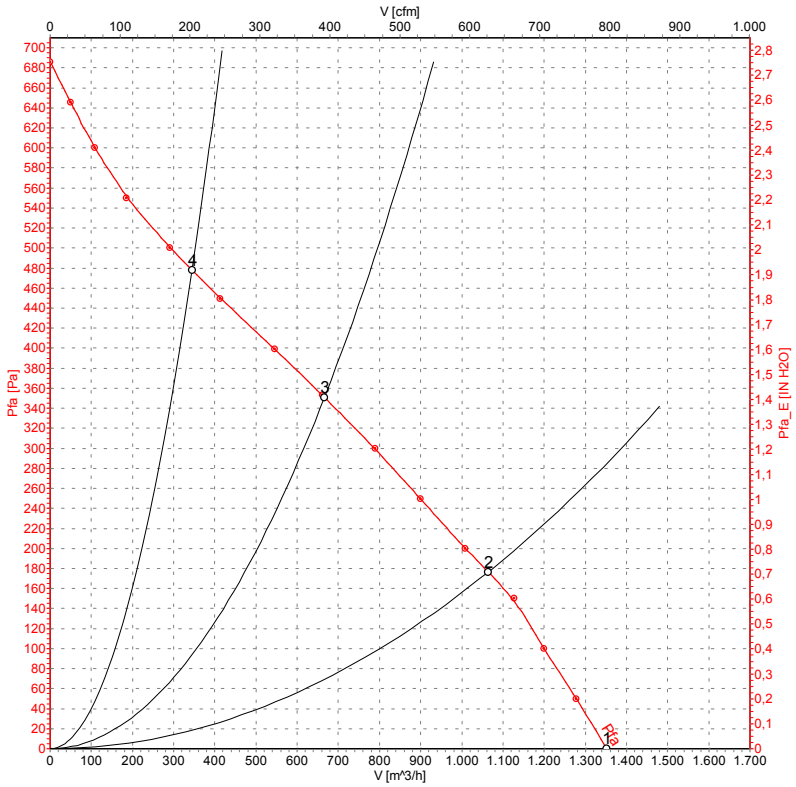


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## Charts: Air flow 60 Hz




## Measured values

| | U | f | n | $P_1$ | I | $\dot{V}$ | $p_{fa}$ |
|---|---|---|---|---|---|---|---|
| | [V] | [Hz] | [$min^{-1}$] | [W] | [A] | [$m^3/h$] | [Pa] |
| 1 | 230 | 60 | 3025 | 195 | 0.86 | 1350 | 0 |
| 2 | 230 | 60 | 2905 | 207 | 0.91 | 1065 | 176 |
| 3 | 230 | 60 | 2780 | 216 | 0.94 | 665 | 351 |
| 4 | 230 | 60 | 2935 | 202 | 0.88 | 345 | 478 |



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