

# AC centrifugal fan

forward-curved, dual-intake

with housing (flange)

## ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2 · D-74673 Mulfingen

Phone +49 7938 81-0

Fax +49 7938 81-110

info1@de.ebmpapst.com

www.ebmpapst.com

Limited partnership · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

## Nominal data

|                             |                   |         |
|-----------------------------|-------------------|---------|
| Type                        | D2E097-CB11-32    |         |
| Motor                       | M2E042-CA         |         |
| Phase                       |                   | 1~      |
| Nominal voltage             | VAC               | 115     |
| Frequency                   | Hz                | 60      |
| Method of obtaining data    |                   | fa      |
| Valid for approval/standard |                   | CE      |
| Speed (rpm)                 | min <sup>-1</sup> | 1400    |
| Power consumption           | W                 | 43      |
| Current draw                | A                 | 0.38    |
| Capacitor                   | µF                | 5       |
| Capacitor voltage           | VDB               | 220     |
| Capacitor standard          |                   | S2 (CE) |
| Min. ambient temperature    | °C                | -25     |
| Max. ambient temperature    | °C                | 55      |

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change



# AC centrifugal fan

forward-curved, dual-intake  
with housing (flange)

## Technical description

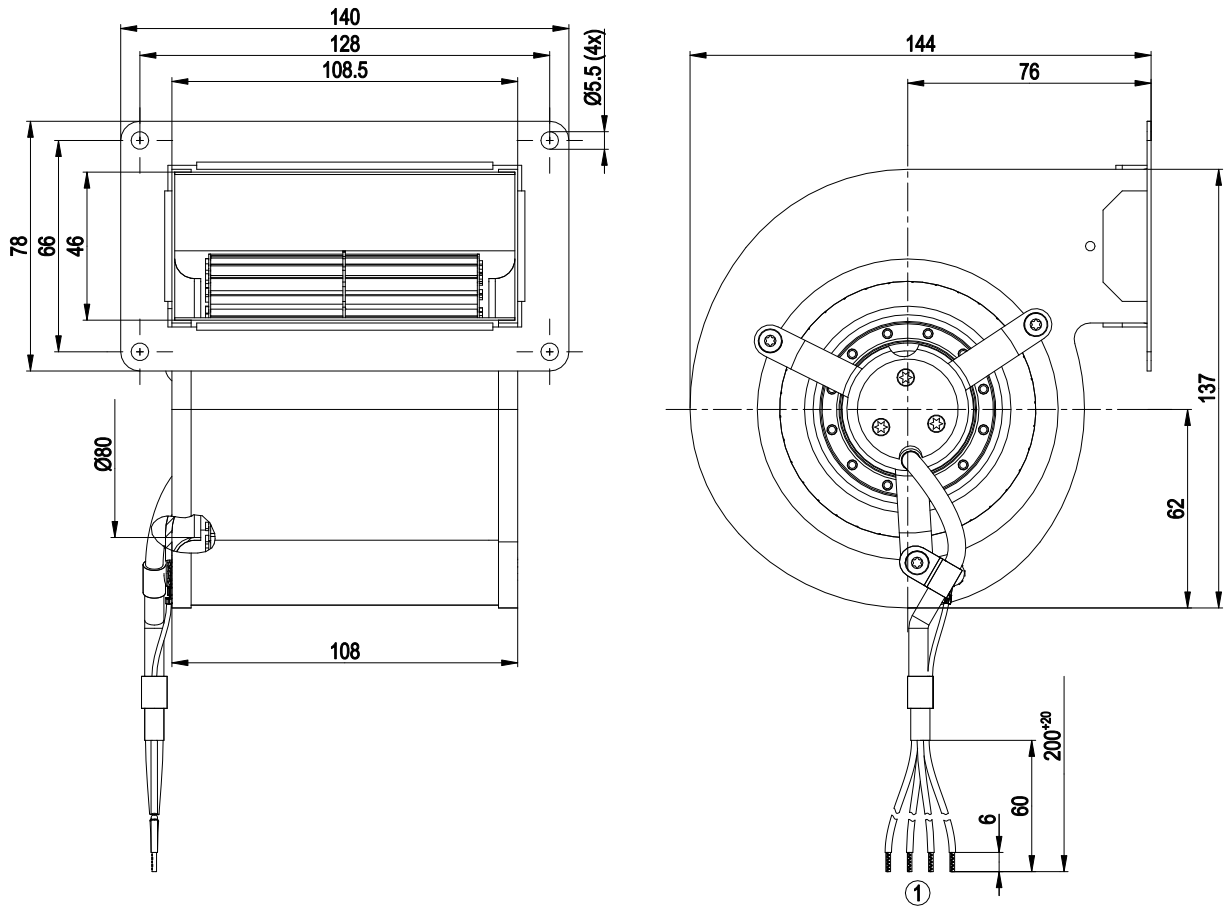
|   |   |
|---|---|
| <b>Weight</b>   | 1.2 kg  |
| <b>Fan size</b>   | 97 mm   |
| <b>Rotor surface</b>  | Unpainted   |
| <b>Impeller material</b>  | Sheet steel, galvanized                               |
| <b>Housing material</b>   | Sheet steel, galvanized                               |
| <b>Motor suspension</b>   | Motor mounted with brackets on one side               |
| <b>Direction of rotation</b>  | Counterclockwise, viewed toward rotor                 |
| <b>Degree of protection</b>   | IP20  |
| <b>Insulation class</b>   | "B"   |
| <b>Max. permitted ambient temp. for motor (transport/storage)</b>                 | + 80 °C   |
| <b>Min. permitted ambient temp. for motor (transport/storage)</b>                 | - 40 °C   |
| <b>Installation position</b>  | Any   |
| <b>Condensation drainage holes</b>  | None  |
| <b>Mode</b>   | S1  |
| <b>Motor bearing</b>  | Ball bearing  |
| <b>Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)</b> | < 0.75 mA   |
| <b>Motor protection</b>   | Thermal overload protector (TOP) internally connected |
| <b>With cable</b>   | Axial   |
| <b>Protection class</b>   | I (with customer connection of protective earth)      |
| <b>Conformity with standards</b>  | EN 60335-1; CE  |
| <b>Approval</b>   | UL 507; CCC; CSA C22.2 No. 113                        |



# AC centrifugal fan

forward-curved, dual-intake  
with housing (flange)

## Product drawing



1 Cable AWG20, 4x crimped splices

## Connection diagram



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

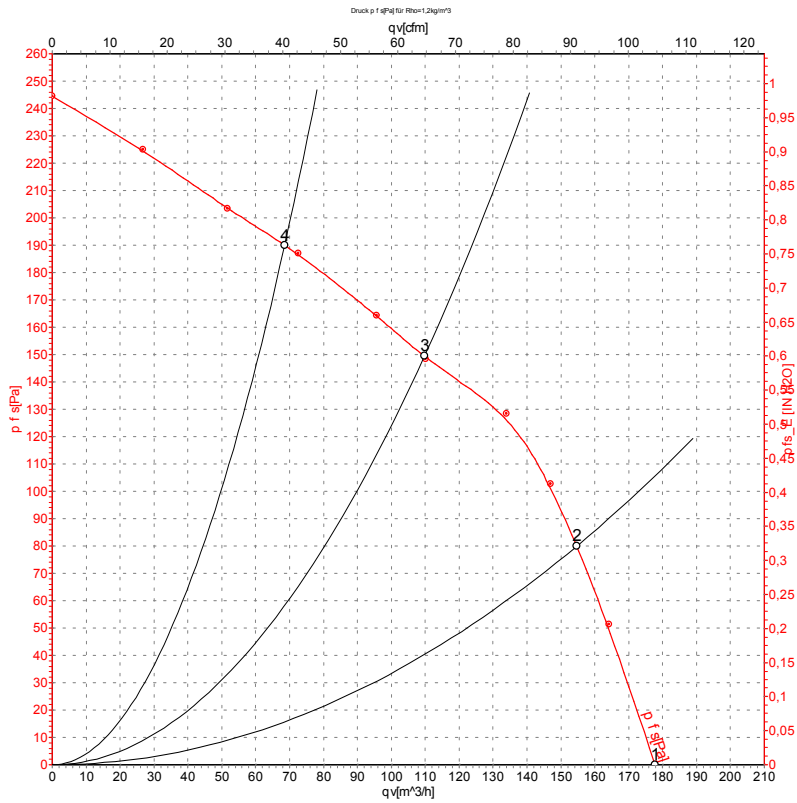


# AC centrifugal fan

forward-curved, dual-intake

with housing (flange)

## Curves: Air performance 60 Hz



Measurement: LU-48244-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

## Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | q <sub>v</sub>    | P <sub>fs</sub> | q <sub>v</sub> | P <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|----------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m <sup>3</sup> /h | Pa              | cfm            | in. wg          |
| 1 | 115 | 60 | 1400              | 43             | 0.38 | 180               | 0               | 105            | 0.00            |
| 2 | 115 | 60 | 1945              | 39             | 0.35 | 155               | 80              | 90             | 0.32            |
| 3 | 115 | 60 | 2540              | 35             | 0.31 | 110               | 150             | 65             | 0.60            |
| 4 | 115 | 60 | 2830              | 32             | 0.28 | 70                | 190             | 40             | 0.76            |

U = Power supply · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · q<sub>v</sub> = Air flow · P<sub>fs</sub> = Pressure increase

