

# AC centrifugal fan

backward curved, single inlet

**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

County court Stuttgart · HRA 590344

General partner: Elektrobau Mulfingen GmbH · Headquarters Mulfingen

County court Stuttgart · HRB 590142

## Nominal data

| Type                          | R2E220-AA40-B8    |         |         |         |
|-------------------------------|-------------------|---------|---------|---------|
| Motor                         | M2E068-BF         |         |         |         |
| Phase                         |                   | 1~      | 1~      | 1~      |
| Nominal voltage               | VAC               | 230     | 230     | 230     |
| Frequency                     | Hz                | 50      | 60      | 60      |
| Type of data definition       |                   | fa      | fa      | fa      |
| Valid for approval / standard |                   | CE      | UL 2111 | CE      |
| Speed                         | min <sup>-1</sup> | 2600    | 2600    | 2700    |
| Power input                   | W                 | 85      | 95      | 90      |
| Current draw                  | A                 | 0.38    | 0.40    | 0.40    |
| Motor capacitor               | µF                | 3       | 2       | 2       |
| Capacitor voltage             | VDB               | 400     | 400     | 400     |
| Capacitor standard            |                   | P0 (CE) | UL      | P0 (CE) |
| Min. back pressure            | Pa                | 0       | 0       | 0       |
| Max. ambient temperature      | °C                | 55      | 55      | 55      |

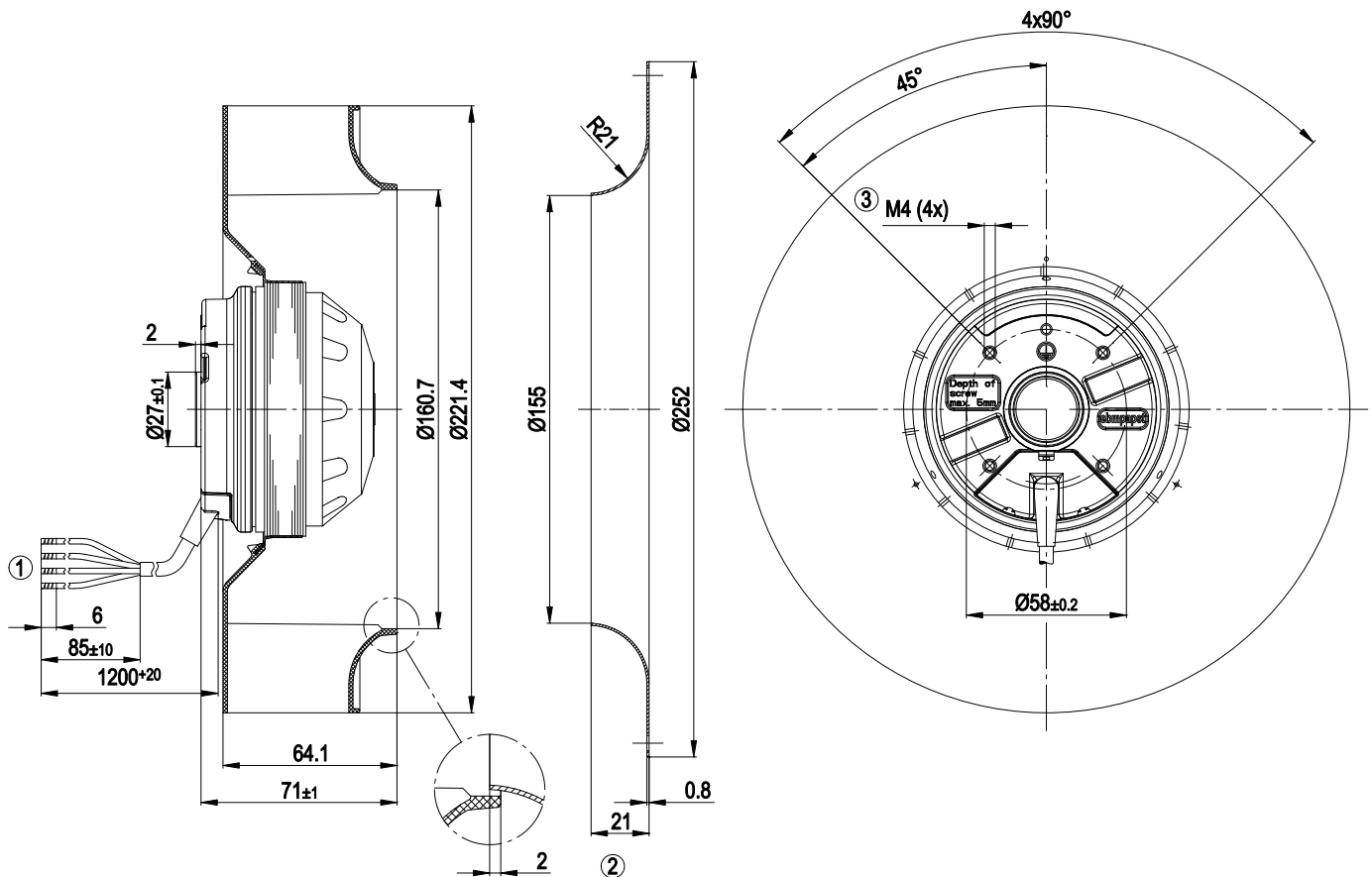
ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations



## Technical features

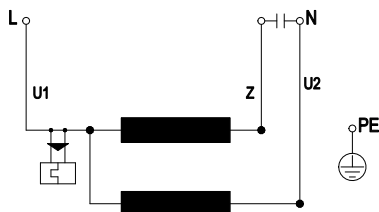
|                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| Mass                                                    | 1.5 kg                                            |
| Size                                                    | 220 mm                                            |
| Surface of rotor                                        | Uncoated                                          |
| Material of impeller                                    | Plastic PA6, fibreglass-reinforced                |
| Number of blades                                        | 11                                                |
| Direction of rotation                                   | Clockwise, seen on rotor                          |
| Type of protection                                      | IP 44; Depending on installation and position     |
| Insulation class                                        | "F"                                               |
| Humidity class                                          | F1-2                                              |
| 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                                      |
| Leakage current                                         | < 0.75 mA                                         |
| Motor protection                                        | Thermal overload protector (TOP) wired internally |
| Cable exit                                              | Variable                                          |
| Protection class                                        | I (if protective earth is connected by customer)  |
| Product conforming to standard                          | EN 60335-1; CE                                    |
| Approval                                                | UL 2111; CSA C22.2 Nr.77; CCC                     |

## Product drawing



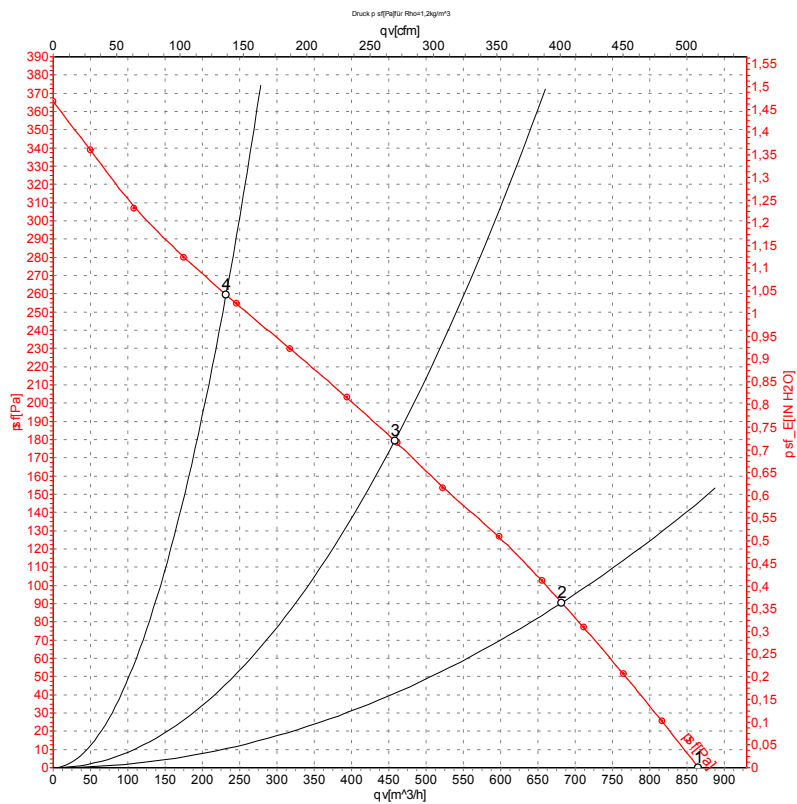
- |   |                                                                                           |
|---|-------------------------------------------------------------------------------------------|
| 1 | Connection line PFA AWG20, 4 x brass lead tips crimped                                    |
| 2 | Accessory part: Inlet nozzle 09609-2-4013, not included in the standard scope of delivery |
| 3 | Depth of screw max. 5 mm                                                                  |

## Connection screen



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

## Charts: Air flow 50 Hz



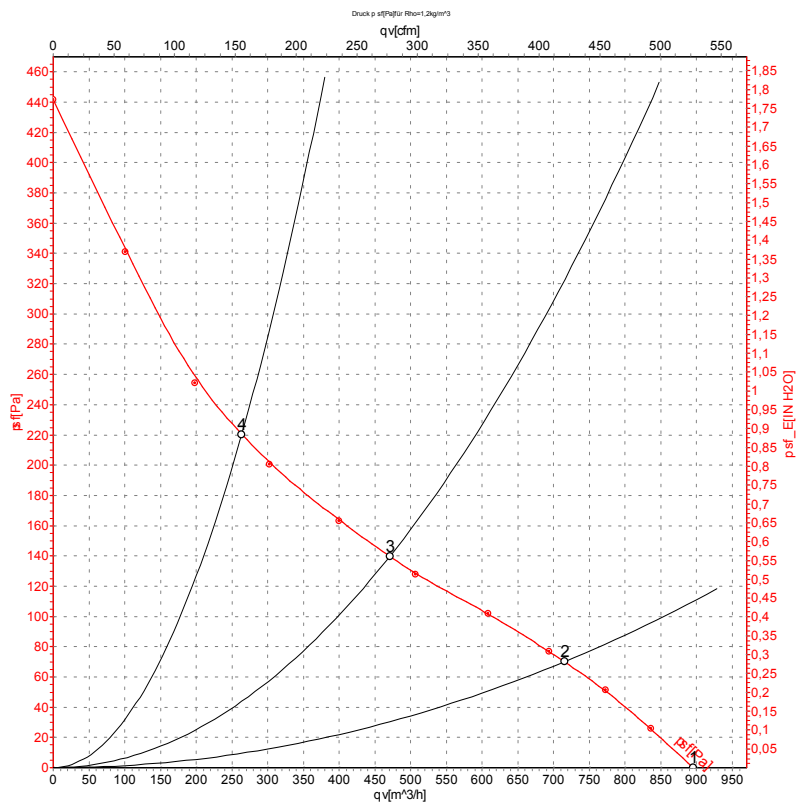
Measurement: LU-106763

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 <sub>e</sub> | I    | qv                | p <sub>sf</sub> |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m <sup>3</sup> /h | Pa              |
| 1 | 230 | 50 | 2405              | 85             | 0.38 | 865               | 0               |
| 2 | 230 | 50 | 2260              | 91             | 0.39 | 680               | 90              |
| 3 | 230 | 50 | 2155              | 94             | 0.41 | 460               | 180             |
| 4 | 230 | 50 | 2245              | 91             | 0.40 | 230               | 260             |

## Charts: Air flow 60 Hz



Measurement: LU-106764

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: L<sub>WA</sub> measured as per ISO 13347 /  
 L<sub>pA</sub> 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 <sub>e</sub> | I    | qv   | p <sub>sf</sub> |
|---|-----|----|-------------------|----------------|------|------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h | Pa              |
| 1 | 230 | 60 | 2490              | 84             | 0.37 | 895  | 0               |
| 2 | 230 | 60 | 2265              | 90             | 0.39 | 715  | 70              |
| 3 | 230 | 60 | 2020              | 94             | 0.41 | 470  | 140             |
| 4 | 230 | 60 | 2100              | 93             | 0.40 | 265  | 220             |

# PRODUCT DATASHEET

is brought to you by



[SOS electronic](https://www.soselectronic.com/)

distribution of electronic components

Click to view availability, pricing and lifecycle information.

Visit <https://www.soselectronic.com/>

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9