

## KARTA KATALOGOWA

# R2D190-AC08-09

Wentylator promieniowy AC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst



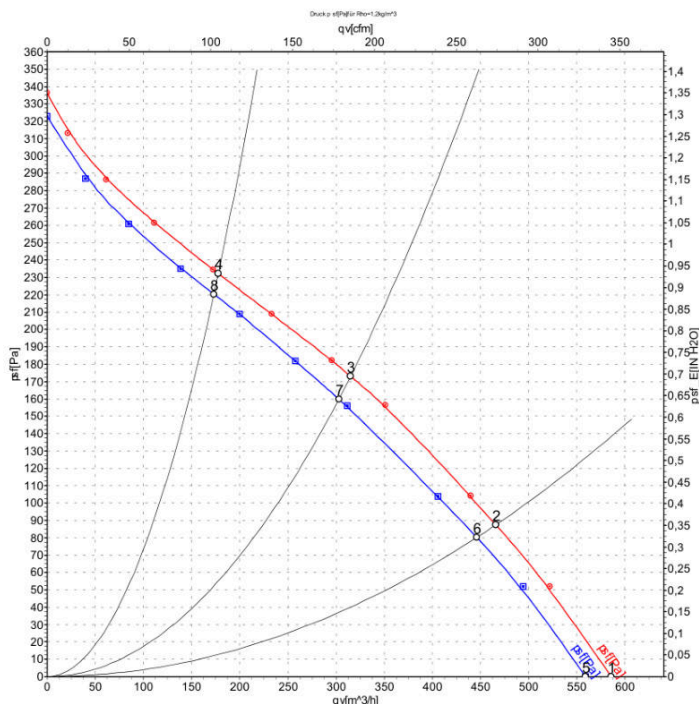
Zdjęcie poglądowe

| Dane znamionowe           |                     |
|---------------------------|---------------------|
| Napięcie znamionowe       | 3~ 415 V            |
| Połączenie                | Y                   |
| Częstotliwość             | 50 / 60 Hz          |
| Prędkość obrotowa         | 2500 / 2700 obr/min |
| Pobór mocy                | 43 / 53 W           |
| Pobór prądu               | 0,09 A              |
| Maks. wydajność           | 585 m³/h            |
| Maks. ciśnienie statyczne | 315 Pa              |
| Temperatura otoczenia     | maks. 55 °C         |

| Budowa                 |                                          |
|------------------------|------------------------------------------|
| Wielkość               | 190 mm                                   |
| Silnik                 | M2D068-BF                                |
| Materiał wirnika       | tworzywo PA6 wzmocnione włóknem szklanym |
| Liczba łopatek         | 7                                        |
| Kierunek obrotów       | w prawo, patrząc na wirnik               |
| Stopień ochrony        | IP44                                     |
| Klasa izolacji         | F                                        |
| Zabezpieczenie silnika | termik (TOP), wyprowadzony               |
| Łożyskowanie           | kulkowe                                  |
| Masa                   | 1,3 kg                                   |

## Charakterystyka przepływowa (50 Hz)

### Charts: Air flow 50 Hz


 Measurement: LU-50948  
 Measurement: LU-50798

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.

Dane na okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).  
 Wartości przy swobodnym wydmuchu; producent zastrzega możliwość zmian.

### Dobór, wycena i dostawa – zapytaj LUFTBERG

tel. +48 600 100 371 · tel. +48 604 959 199  
 biuro@luftberg.pl · www.luftberg.pl

**R2D190-AC08-09**

# 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](mailto:info1@de.ebmpapst.com)
[www.ebmpapst.com](http://www.ebmpapst.com)

## Nominal data

|                               |                   |      |      |
|-------------------------------|-------------------|------|------|
| Type                          | R2D190-AC08-09    |      |      |
| Motor                         | M2D068-BF         |      |      |
| Phase                         |                   | 3~   | 3~   |
| Nominal voltage               | VAC               | 415  | 415  |
| Connection                    |                   | Y    | Y    |
| Frequency                     | Hz                | 50   | 60   |
| Type of data definition       |                   | fa   | fa   |
| Valid for approval / standard |                   | CE   | CE   |
| Speed                         | min <sup>-1</sup> | 2500 | 2700 |
| Power input                   | W                 | 43   | 53   |
| Current draw                  | A                 | 0.09 | 0.09 |
| Min. back pressure            | Pa                | 0    | 0    |
| Max. ambient temperature      | °C                | 55   | 55   |

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



**R2D190-AC08-09**

# AC centrifugal fan

backward curved, single inlet

## Technical features

|                                                         |                                                  |
|---------------------------------------------------------|--------------------------------------------------|
| Mass                                                    | 1.3 kg                                           |
| Size                                                    | 190 mm                                           |
| Surface of rotor                                        | Coated in black                                  |
| Material of impeller                                    | Plastic PA6, fibreglass-reinforced               |
| Number of blades                                        | 7                                                |
| Direction of rotation                                   | Clockwise, seen on rotor                         |
| Type of protection                                      | IP 44; Depending on installation and position    |
| Insulation class                                        | "F"                                              |
| Humidity class                                          | F2-2                                             |
| 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) brought out     |
| Cable exit                                              | Axial                                            |
| Protection class                                        | I (if protective earth is connected by customer) |
| Product conforming to standard                          | EN 60335-1; CE                                   |
| Approval                                                | UL 1004-1; CSA C22.2 Nr.100                      |

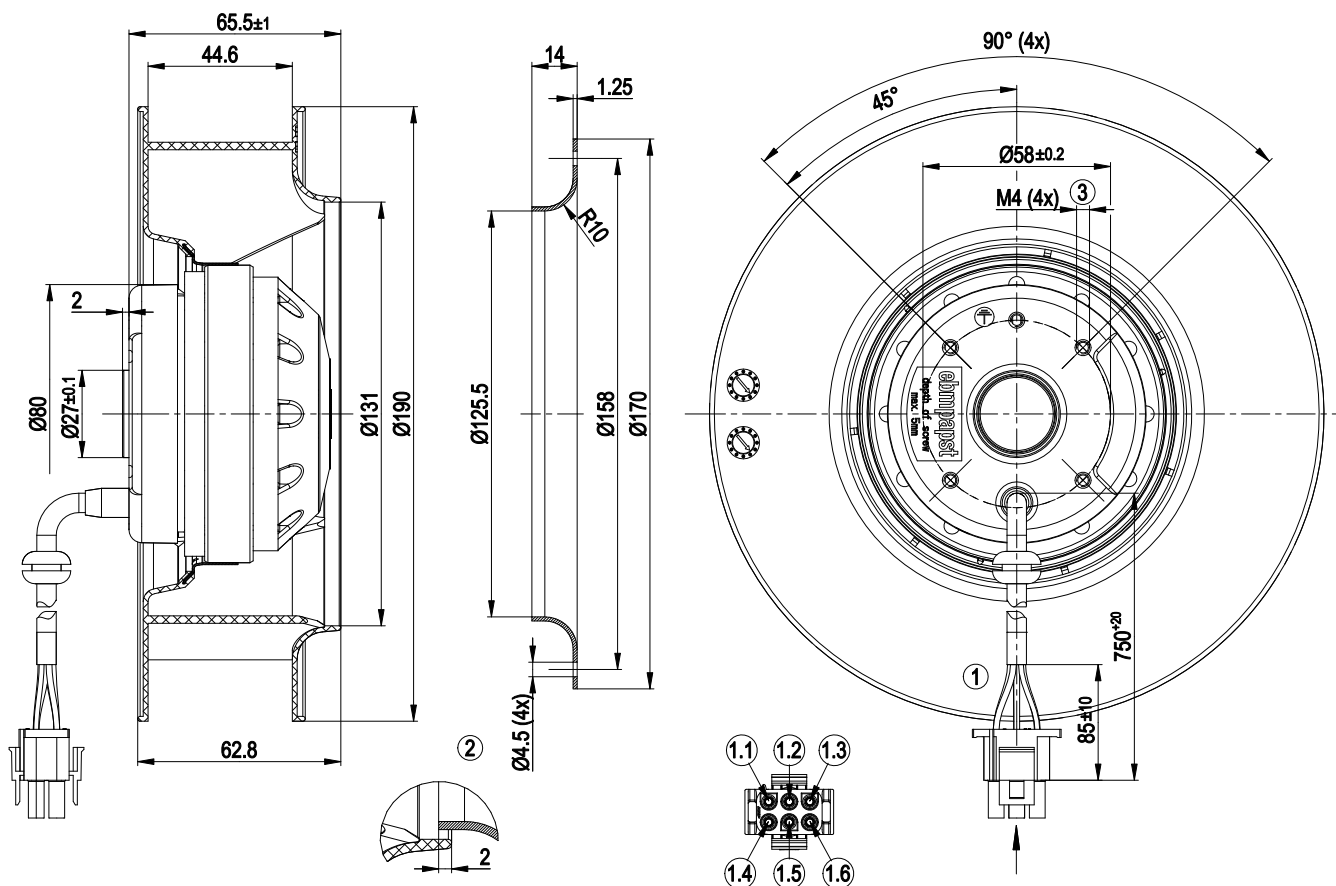


**R2D190-AC08-09**

## AC centrifugal fan

backward curved, single inlet

## Product drawing

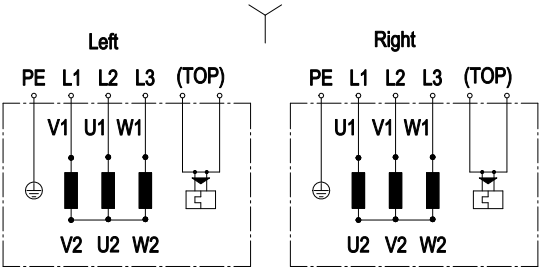


|     |                                                                                           |
|-----|-------------------------------------------------------------------------------------------|
| 1   | Connection line PFA6G AWG20, AMP connector shell 350715-4 with 6x AMP plug pin 926885-1   |
| 1.1 | black                                                                                     |
| 1.2 | Blue                                                                                      |
| 1.3 | brown                                                                                     |
| 1.4 | green/yellow                                                                              |
| 1.5 | grey                                                                                      |
| 1.6 | grey                                                                                      |
| 2   | Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery |
| 3   | Depth of screw max. 5 mm                                                                  |

R2D190-AC08-09

AC centrifugal fan  
backward curved, single inlet

Connection screen



Note: Direction of rotation changes when two phases are reversed

|    |                 |    |              |    |              |
|----|-----------------|----|--------------|----|--------------|
| Y  | Star connection | L1 | = U1 = black | L2 | = V1 = blue  |
| L3 | = W1 = brown    | TW | 2 x grey     | PE | green/yellow |

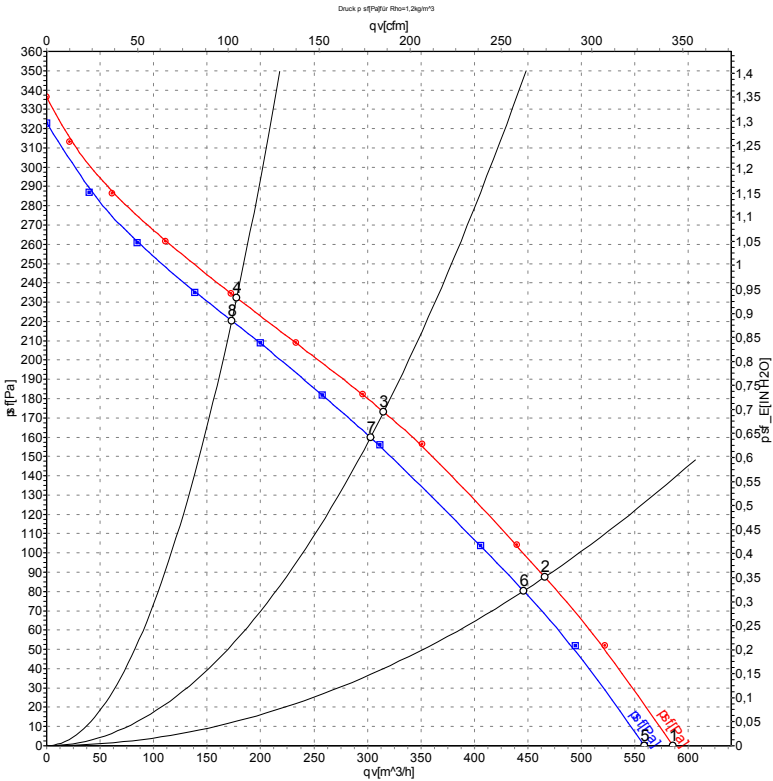


R2D190-AC08-09

AC centrifugal fan

backward curved, single inlet

Charts: Air flow 50 Hz



Measurement: LU-50948  
Measurement: LU-50798

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

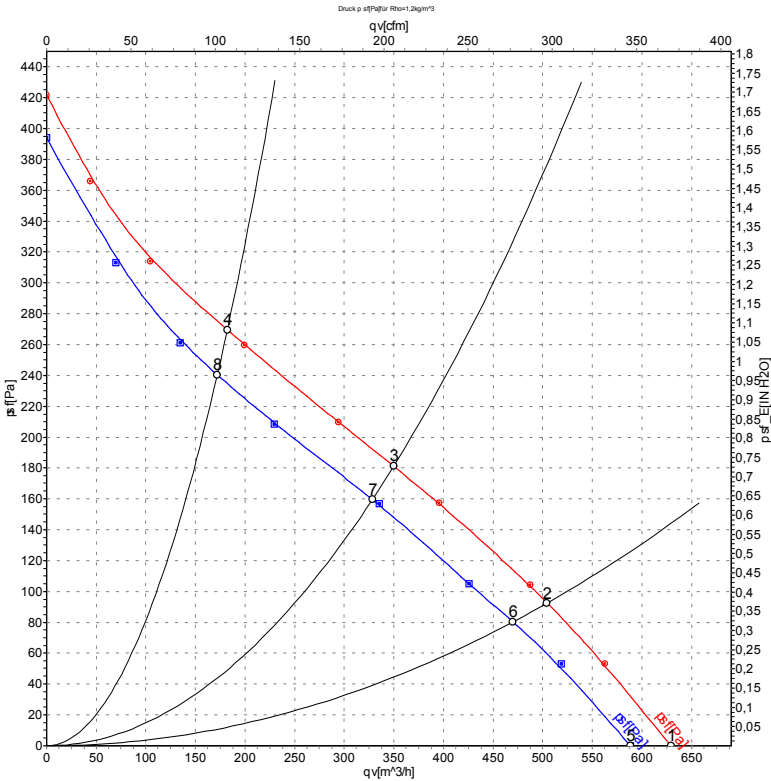
|   | U   | f  | n                 | P <sub>e</sub> | I    | qv   | P <sub>sf</sub> |
|---|-----|----|-------------------|----------------|------|------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h | Pa              |
| 1 | 440 | 50 | 2550              | 51             | 0.11 | 585  | 0               |
| 2 | 440 | 50 | 2455              | 55             | 0.11 | 465  | 88              |
| 3 | 440 | 50 | 2400              | 58             | 0.11 | 315  | 173             |
| 4 | 440 | 50 | 2460              | 54             | 0.10 | 180  | 232             |
| 5 | 400 | 50 | 2450              | 43             | 0.09 | 560  | 0               |
| 6 | 400 | 50 | 2375              | 47             | 0.09 | 445  | 80              |
| 7 | 400 | 50 | 2310              | 50             | 0.09 | 305  | 160             |
| 8 | 400 | 50 | 2385              | 46             | 0.09 | 175  | 220             |



R2D190-AC08-09

AC centrifugal fan  
backward curved, single inlet

Charts: Air flow 60 Hz



Measurement: LU-50949  
Measurement: LU-50800

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    | m³/h | Pa              |
| 1 | 440 | 60 | 2700              | 58             | 0.09 | 630  | 0               |
| 2 | 440 | 60 | 2615              | 63             | 0.10 | 505  | 93              |
| 3 | 440 | 60 | 2525              | 67             | 0.10 | 350  | 181             |
| 4 | 440 | 60 | 2635              | 62             | 0.10 | 180  | 269             |
| 5 | 400 | 60 | 2600              | 53             | 0.09 | 590  | 0               |
| 6 | 400 | 60 | 2475              | 58             | 0.10 | 470  | 80              |
| 7 | 400 | 60 | 2375              | 61             | 0.10 | 330  | 160             |
| 8 | 400 | 60 | 2490              | 57             | 0.09 | 170  | 240             |

