

## KARTA KATALOGOWA

# R1G190-AC37-52

Wentylator promieniowy EC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst

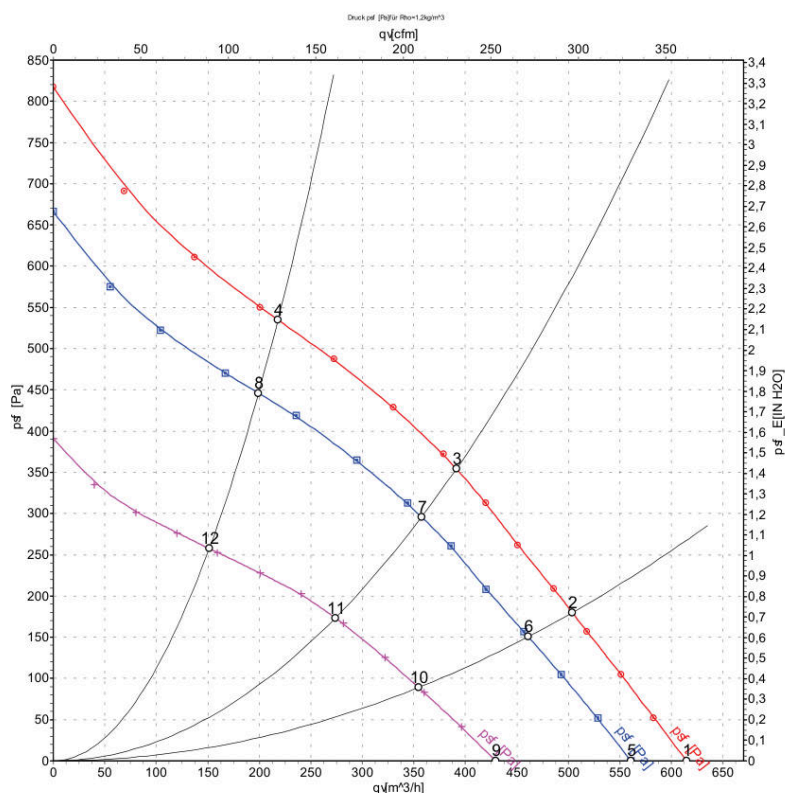


Zdjęcie poglądowe

| Dane znamionowe           |                     | Budowa                 |                                     |
|---------------------------|---------------------|------------------------|-------------------------------------|
| Napięcie znamionowe       | 24 V DC (16...28 V) | Średnica wirnika       | 190 mm                              |
| Prędkość obrotowa         | 3250 obr/min        | Materiał wirnika       | tworzywo PA                         |
| Pobór mocy                | 80 W                | Liczba łopatek         | 7                                   |
| Pobór prądu               | 3,7 A               | Stopień ochrony        | IP42                                |
| Maks. wydajność           | 615 m³/h            | Klasa izolacji         | B                                   |
| Maks. ciśnienie statyczne | 820 Pa              | Zabezpieczenie silnika | ochrona przed zablokowaniem wirnika |
| Maks. temp. otoczenia     | +60 °C              | Masa                   | 1,3 kg                              |

## Charakterystyka przepływowa

### Charts: Air flow


 Measurement: LU-75809  
 Measurement: LU-75808  
 Measurement: LU-75807

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.

Dane na podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).

Wartości znamionowe dla punktu maksymalnego obciążenia; producent zastrzega możliwość zmian.

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**R1G190-AC37-52**

# EC centrifugal fan

backward curved, single inlet

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## Nominal data

|                          |                   |          |
|--------------------------|-------------------|----------|
| Type                     | R1G190-AC37-52    |          |
| Motor                    | M1G074-BF         |          |
| Nominal voltage          | VDC               | 24       |
| Nominal voltage range    | VDC               | 16 .. 28 |
| Type of data definition  |                   | rfa      |
| Speed                    | min <sup>-1</sup> | 3250     |
| Power input              | W                 | 80       |
| Current draw             | A                 | 3.7      |
| Min. ambient temperature | °C                | - 25     |
| Max. ambient temperature | °C                | + 60     |

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

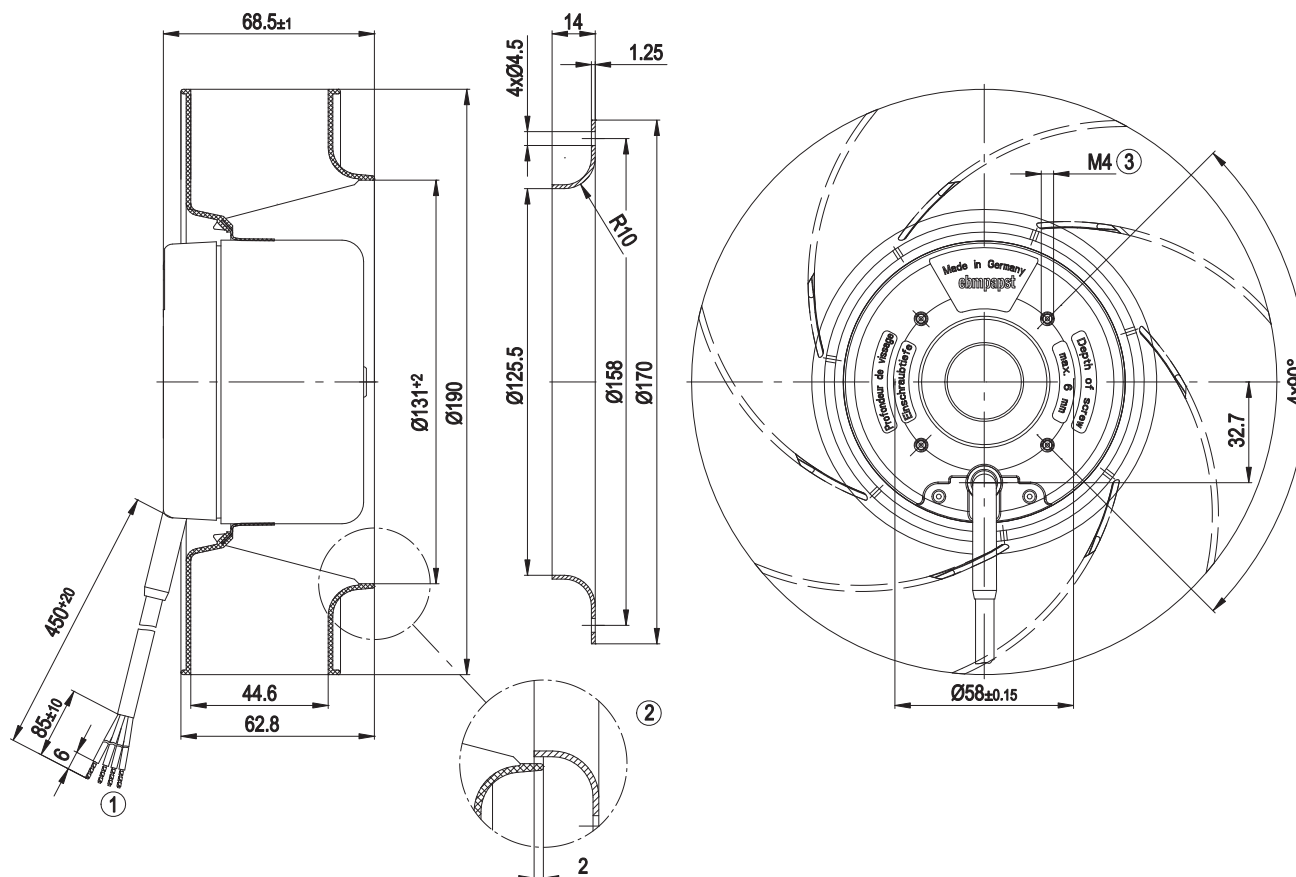
|                                                         |                                              |
|---------------------------------------------------------|----------------------------------------------|
| Size                                                    | 190 mm                                       |
| Operation mode                                          | S1                                           |
| Direction of rotation                                   | Clockwise, seen on rotor                     |
| Mounting position                                       | Any                                          |
| EMC interference emission                               | Acc. to EN 61000-6-3                         |
| EMC interference immunity                               | Acc. to EN 61000-6-2                         |
| Humidity class                                          | F0                                           |
| Insulation class                                        | "B"                                          |
| Cable exit                                              | Variable                                     |
| Condensate discharge holes                              | None                                         |
| Motor bearing                                           | Ball bearing                                 |
| Mass                                                    | 1.3 kg                                       |
| Material of impeller                                    | PA plastic 6.6, fiberglass-reinforced        |
| Motor protection                                        | Reverse polarity and locked-rotor protection |
| Product conforming to standard                          | EN 60950-1                                   |
| Surface of rotor                                        | Coated in black                              |
| Number of blades                                        | 7                                            |
| Type of protection                                      | IP 42                                        |
| Technical features                                      | Control input 0-10 VDC / PWM, tach output    |
| Max. permissible ambient motor temp. (transp./ storage) | +80 °C                                       |
| Min. permissible ambient motor temp. (transp./storage)  | -40 °C                                       |
| Approval                                                | CSA C22.2 Nr.77; UL 1004-1                   |

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## Product drawing



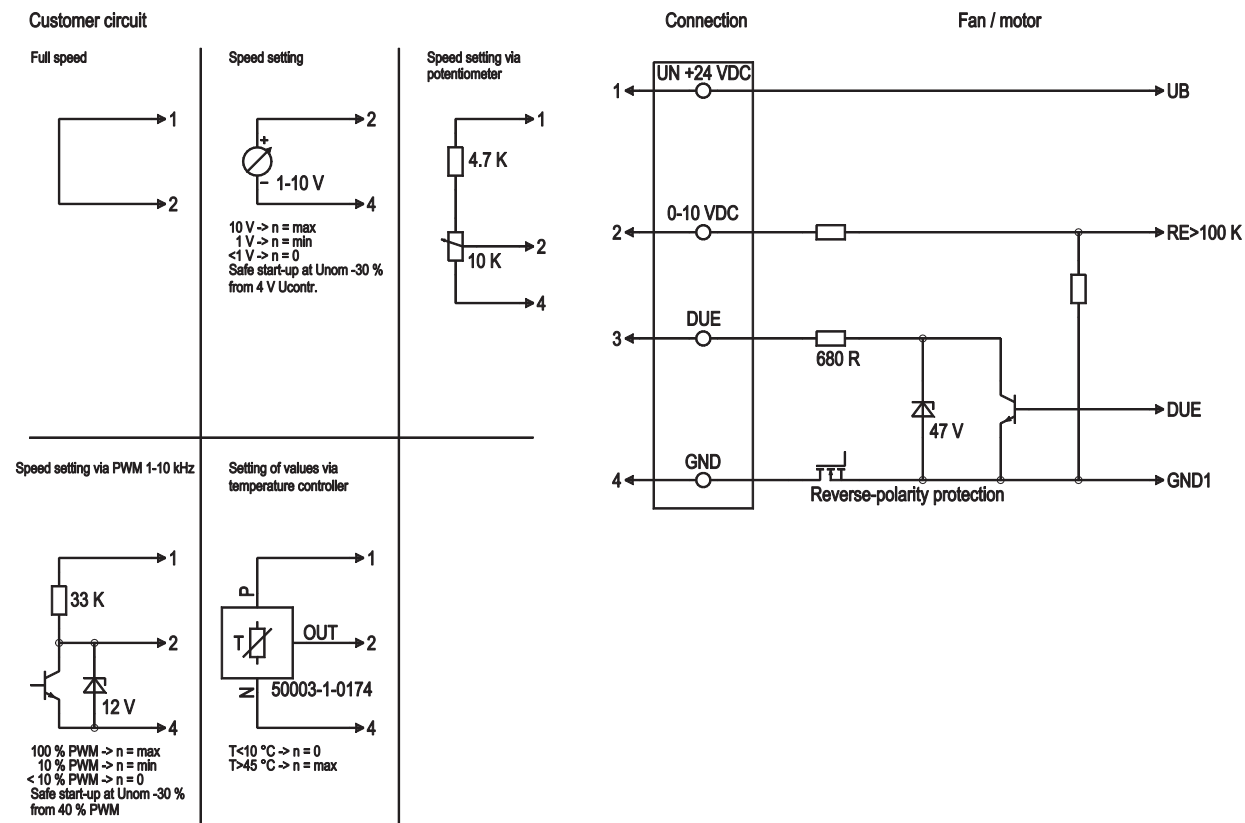
- |   |                                                                                           |
|---|-------------------------------------------------------------------------------------------|
| 1 | Connection line AWG20, 4 x brass lead tips crimped                                        |
| 2 | Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery |
| 3 | Depth of screw max. 6 mm                                                                  |

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## Connection screen



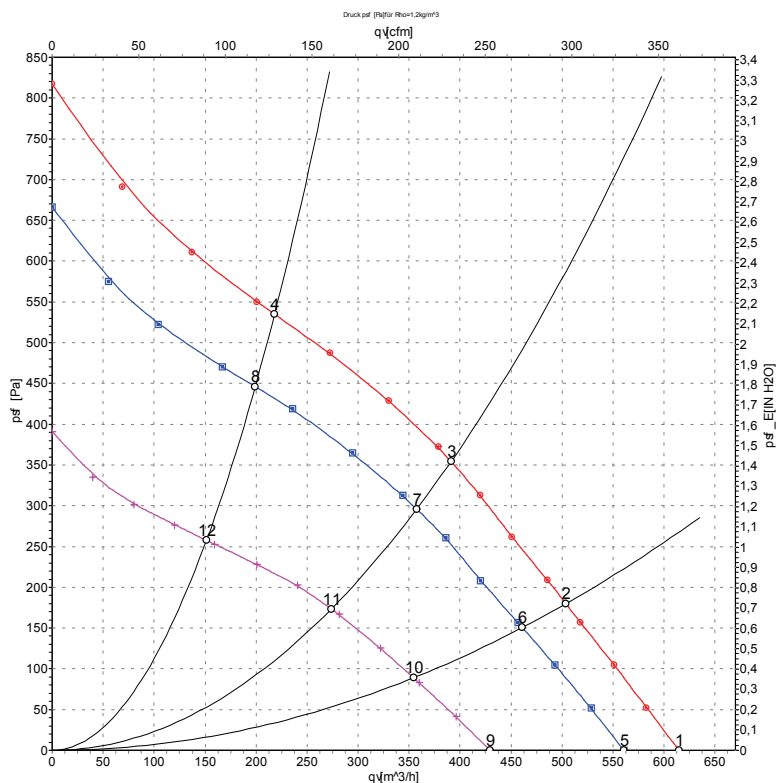
| Line | No. | Signal     | Colour | Function / assignment                                             |
|------|-----|------------|--------|-------------------------------------------------------------------|
| 1    | 1   | Un +24 VDC | red    | Power supply 24 VDC, residual ripple 3.5 %                        |
| 1    | 2   | 0-10 VDC   | yellow | Control input Re > 100 K                                          |
| 1    | 3   | DUE        | white  | Speed monitoring output, 3 pulses per rotation, Isink max = 10 mA |
| 1    | 4   | GND        | blue   | Reference mass                                                    |

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## Measured values

|    | U  | n                 | P <sub>e</sub> | I    | qv   | P <sub>sf</sub> |
|----|----|-------------------|----------------|------|------|-----------------|
|    | V  | min <sup>-1</sup> | W              | A    | m³/h | Pa              |
| 1  | 28 | 3630              | 103            | 4.14 | 615  | 0               |
| 2  | 28 | 3540              | 107            | 4.30 | 505  | 180             |
| 3  | 28 | 3600              | 104            | 4.19 | 390  | 354             |
| 4  | 28 | 3705              | 100            | 4.01 | 220  | 535             |
| 5  | 24 | 3250              | 80             | 3.70 | 560  | 0               |
| 6  | 24 | 3230              | 82             | 3.82 | 460  | 150             |
| 7  | 24 | 3290              | 80             | 3.71 | 360  | 300             |
| 8  | 24 | 3380              | 76             | 3.53 | 200  | 450             |
| 9  | 16 | 2515              | 38             | 2.72 | 430  | 0               |
| 10 | 16 | 2470              | 39             | 2.80 | 355  | 89              |
| 11 | 16 | 2515              | 38             | 2.70 | 275  | 174             |
| 12 | 16 | 2560              | 36             | 2.61 | 150  | 258             |