

## KARTA KATALOGOWA

# R3G310-AN12-30

Wentylator promieniowy EC, łopatki zakrzywione do tyłu, jednostronnie ssący

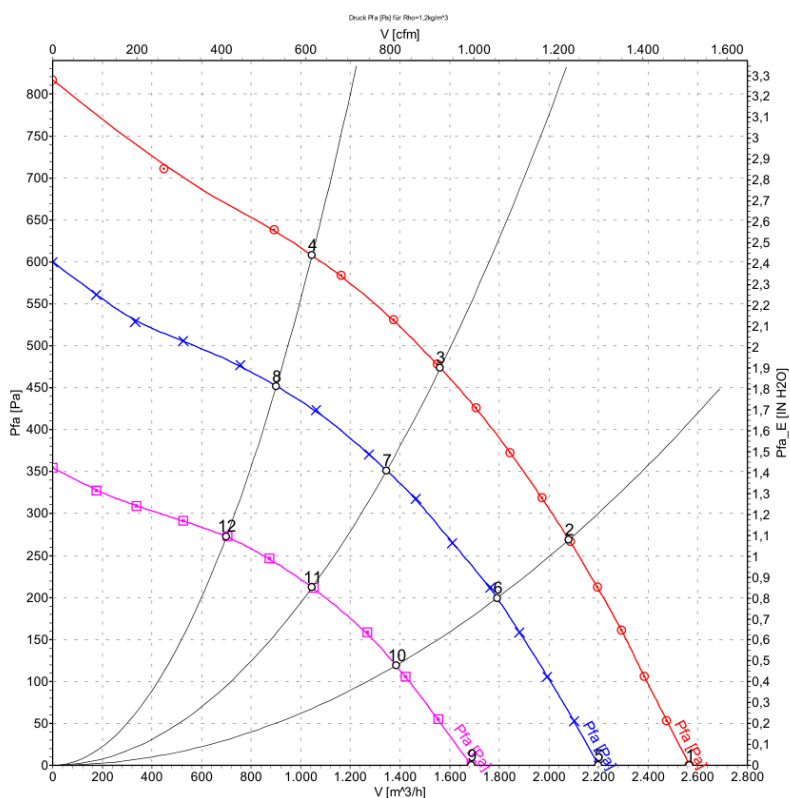
Producent: ebm-papst



| Dane znamionowe           |                     | Budowa                 |                   |
|---------------------------|---------------------|------------------------|-------------------|
| Napięcie znamionowe       | 48 V DC (36...57 V) | Średnica wirnika       | 310 mm            |
| Prędkość obrotowa         | 2000 obr/min        | Materiał wirnika       | blacha aluminiowa |
| Pobór mocy                | 190 W               | Liczba łopatek         | 6                 |
| Pobór prądu               | 4 A                 | Stopień ochrony        | IP42              |
| Maks. wydajność           | 2570 m³/h           | Klasa izolacji         | B                 |
| Maks. ciśnienie statyczne | 608 Pa              | Zabezpieczenie silnika | termik (TOP)      |
| Maks. temp. otoczenia     | +60 °C              | Masa                   | 4,35 kg           |

## Charakterystyka przepływowa

### Charts: Air flow


 Measurement: LU-57147  
 Measurement: LU-57146  
 Measurement: LU-57148

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

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

### Dobór, wycena i dostawa – zapytaj LUFTBERG

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**R3G310-AN12-30**

# EC centrifugal fan

backward curved, single inlet



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## Nominal data

|                          |                      |          |
|--------------------------|----------------------|----------|
| Type                     | R3G310-AN12-30       |          |
| Motor                    | M3G084-FA            |          |
| Nominal voltage          | [VDC]                | 48       |
| Nominal voltage range    | [VDC]                | 36 .. 57 |
| Type of data definition  |                      | rfa      |
| Speed                    | [min <sup>-1</sup> ] | 2000     |
| Power input              | [W]                  | 190      |
| Current draw             | [A]                  | 4.0      |
| 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

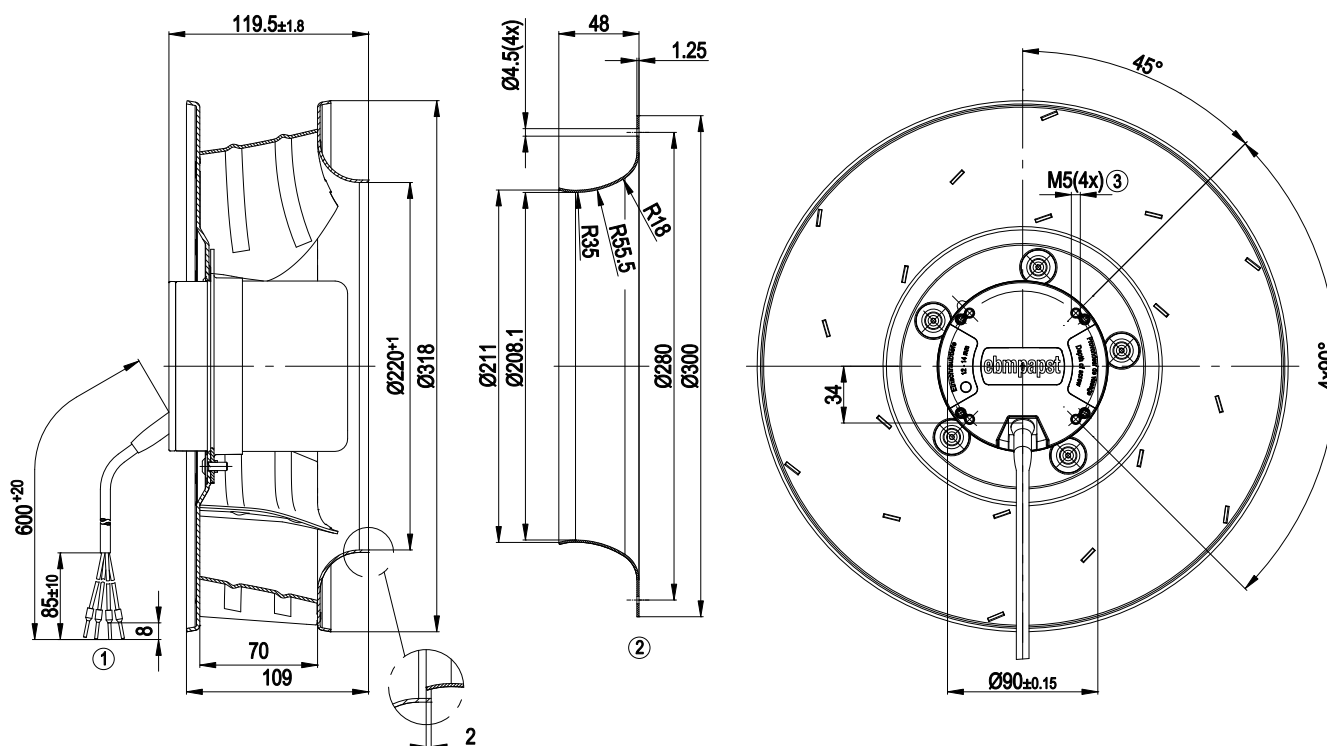
|                                                         |                                                                                                                                                                                                          |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size                                                    | 310 mm                                                                                                                                                                                                   |
| Operation mode                                          | S1                                                                                                                                                                                                       |
| Direction of rotation                                   | Clockwise, seen on rotor                                                                                                                                                                                 |
| Mounting position                                       | Any                                                                                                                                                                                                      |
| EMC interference emission                               | Acc. to EN 55022 (Class B)                                                                                                                                                                               |
| EMC interference immunity                               | Acc. to EN 61000-6-2 (industrial environment)                                                                                                                                                            |
| Insulation class                                        | "B"                                                                                                                                                                                                      |
| Cable exit                                              | Variable                                                                                                                                                                                                 |
| Condensate discharge holes                              | None                                                                                                                                                                                                     |
| Bearing motor                                           | Ball bearing                                                                                                                                                                                             |
| Mass                                                    | 4.35 kg                                                                                                                                                                                                  |
| Material of impeller                                    | Aluminium sheet                                                                                                                                                                                          |
| Motor protection                                        | Thermal overload protector (TOP) wired internally                                                                                                                                                        |
| Product conforming to standard                          | EN 60950-1                                                                                                                                                                                               |
| Surface of rotor                                        | Coated in black                                                                                                                                                                                          |
| Number of blades                                        | 6                                                                                                                                                                                                        |
| Type of protection                                      | IP 42                                                                                                                                                                                                    |
| Technical features                                      | <ul style="list-style-type: none"> <li>- Control input 0-10 VDC / PWM</li> <li>- Tach output</li> <li>- Over-temperature protected motor</li> <li>- Motor current limit</li> <li>- Soft start</li> </ul> |
| Max. permissible ambient motor temp. (transp./ storage) | +80 °C                                                                                                                                                                                                   |
| Min. permissible ambient motor temp. (transp./storage)  | -40 °C                                                                                                                                                                                                   |
| Approval                                                | CCC; CSA C22.2 Nr.77; UL 2111                                                                                                                                                                            |

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## Product drawing



1 Connection line AWG16 , 4x crimped core-end sleeves

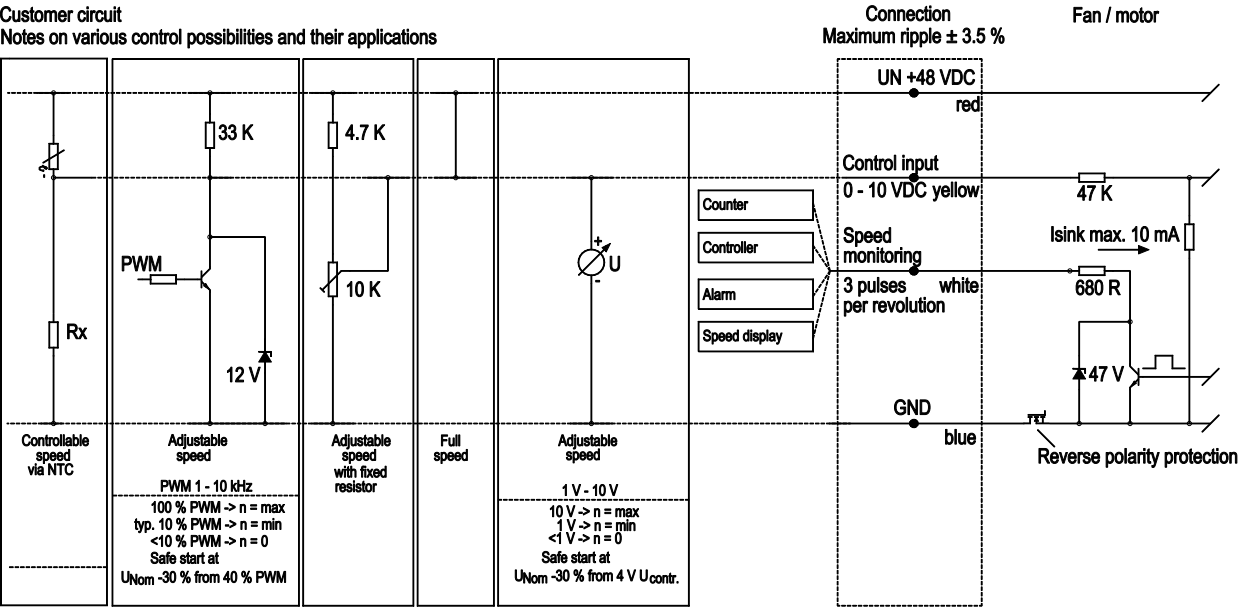
2 Accessory part: Inlet nozzle 31050-2-4013 not included in the standard scope of delivery, other inlet nozzles on request

3 Depth of screw 12 - 14 mm

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Connection screen

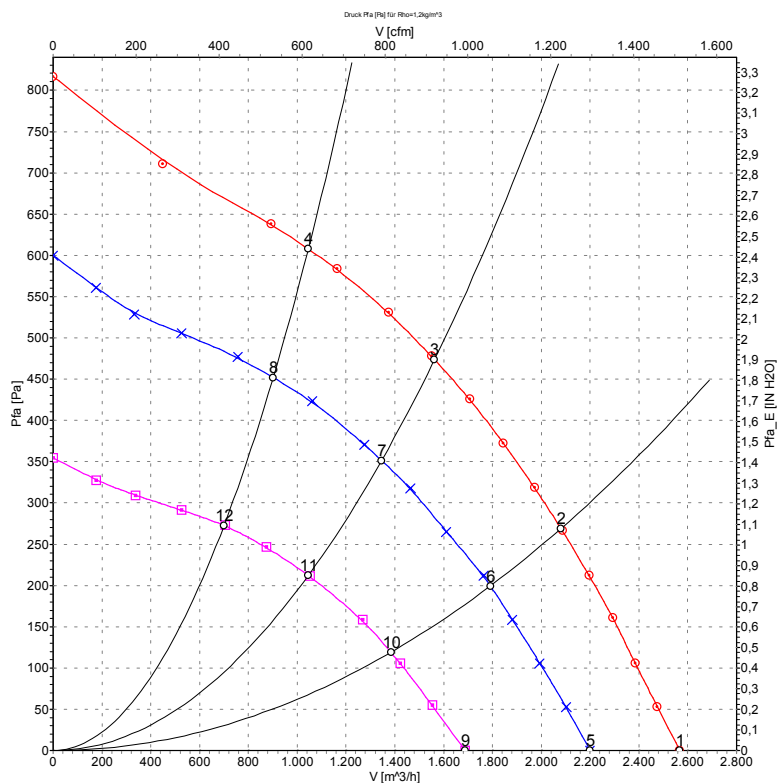


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## Charts: Air flow


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 Measurement: LU-57146  
 Measurement: LU-57148

## Measured values

|    | U   | n                    | P <sub>1</sub> | I    | $\dot{V}$           | P <sub>fa</sub> |
|----|-----|----------------------|----------------|------|---------------------|-----------------|
|    | [V] | [min <sup>-1</sup> ] | [W]            | [A]  | [m <sup>3</sup> /h] | [Pa]            |
| 1  | 57  | 2370                 | 263            | 4.65 | 2570                | 0               |
| 2  | 57  | 2325                 | 317            | 5.61 | 2080                | 269             |
| 3  | 57  | 2295                 | 347            | 6.15 | 1560                | 474             |
| 4  | 57  | 2310                 | 335            | 5.93 | 1045                | 608             |
| 5  | 48  | 2030                 | 171            | 3.59 | 2200                | 0               |
| 6  | 48  | 2000                 | 204            | 4.29 | 1790                | 200             |
| 7  | 48  | 1980                 | 225            | 4.72 | 1345                | 350             |
| 8  | 48  | 1990                 | 217            | 4.55 | 900                 | 450             |
| 9  | 36  | 1570                 | 84             | 2.35 | 1690                | 0               |
| 10 | 36  | 1555                 | 101            | 2.83 | 1385                | 119             |
| 11 | 36  | 1545                 | 110            | 3.07 | 1045                | 213             |
| 12 | 36  | 1550                 | 106            | 2.96 | 700                 | 274             |