

max. 24 m<sup>3</sup>/h

## DC centrifugal fans

Series RV 40 105 x 59 x 79 mm

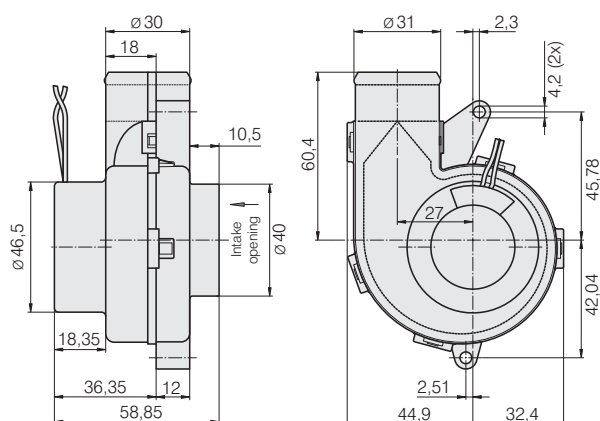
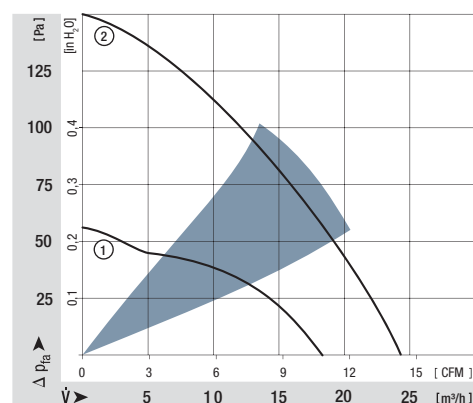


- **Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>
  - **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
  - **Connection:** Via single wires AWG 26, TR 64
  - **Highlights:** Forwards-curved impeller
  - **Mass:** 100 g
- **Possible special versions:**  
(See chapter DC fans - specials)
    - Speed signal
    - Protection against moisture

1) Fibreglass-reinforced plastic

| Nominal data  | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|---------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type          | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      | ①     |
| RV 40-18/12 L | 18                | 10,6     | 12              | 9...16        | 4,0               | ■                                       | 2,0         | 3 900         | -20...+70         | 70 000 / 35 000                                            | 117 500                                                                | ①                                                          |       |
| RV 40-18/12 H | 24                | 14,1     | 12              | 9...16        | 5,0               | ■                                       | 4,5         | 4 800         | -20...+70         | 50 000 / 25 000                                            | 85 000                                                                 | ②                                                          |       |

Subject to alternations



max. 9,6 m³/h

# DC centrifugal fans

Series RLF 35 51 x 51 x 15 mm

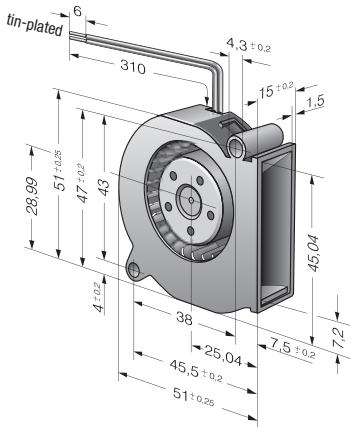
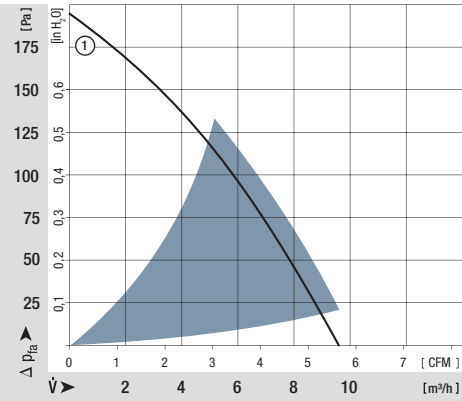


- **Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>
  - **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
  - **Connection:** Via single wires AWG 26, TR 64
  - **Highlights:** Forwards-curved impeller
  - **Mass:** 40 g
- **Possible special versions:**  
(See chapter DC fans - specials)
    - Speed signal
    - PWM control input
    - Protection against moisture

1) Fibreglass-reinforced plastic

| Nominal data  |  | Air flow | Air flow | Nominal voltage | Voltage range | Sound power level | Sintec sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|---------------|--|----------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type          |  | m³/h     | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      | ①     |
| RLF 35-8/12 N |  | 9,6      | 5,7      | 12              | 8...13,2      | 5,5               | ■                                       | 3,5         | 6 700         | -20...+70         | 60 000 / 30 000                                            | 102 500                                                                | 102 500                                                    | ①     |
| RLF 35-8/14 N |  | 9,6      | 5,7      | 24              | 14...28       | 5,5               | ■                                       | 4,3         | 6 700         | -20...+70         | 60 000 / 30 000                                            | 102 500                                                                | 102 500                                                    | ①     |

Subject to alternations



max. 28 m³/h

# DC centrifugal fans

Series RL 48 76 x 76 x 27 mm

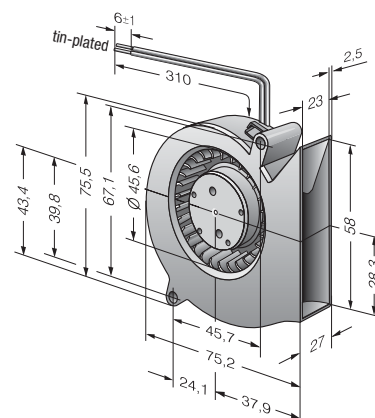
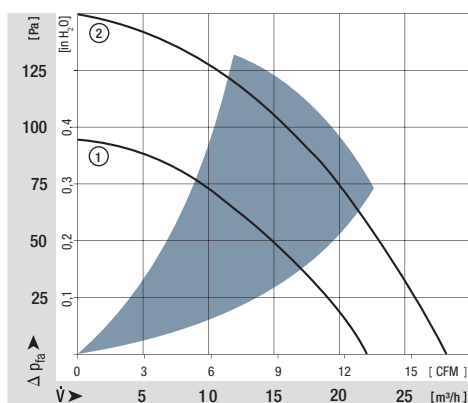


- **Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Connection:** Via single wires AWG 26, TR 64
- **Highlights:** Forwards-curved impeller
- **Mass:** 75 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture

1) Fibreglass-reinforced plastic

| Nominal data   |  | Air flow | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|----------------|--|----------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type           |  | m³/h     | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RL 48-19/12 ML |  | 22       | 12,9     | 12              | 8...15        | 5,3               | ■                                       | 5,0         | 3 500         | -20...+70         | 70 000 / 35 000                                            | 117 500                                                                | ①                                                          |       |
| RL 48-19/12    |  | 28       | 16,5     | 12              | 8...13,5      | 5,7               | ■                                       | 4,6         | 4 400         | -20...+70         | 60 000 / 30 000                                            | 102 500                                                                | ②                                                          |       |
| RL 48-19/14 ML |  | 22       | 12,9     | 24              | 18...28       | 5,3               | ■                                       | 5,0         | 3 500         | -20...+70         | 70 000 / 35 000                                            | 117 500                                                                | ①                                                          |       |
| RL 48-19/14    |  | 28       | 16,5     | 24              | 18...26,4     | 5,7               | ■                                       | 4,4         | 4 400         | -20...+70         | 60 000 / 30 000                                            | 102 500                                                                | ②                                                          |       |

Subject to alternations



max. 61 m<sup>3</sup>/h

## DC centrifugal fans

Series RL 65 97 x 93,5 x 33 mm

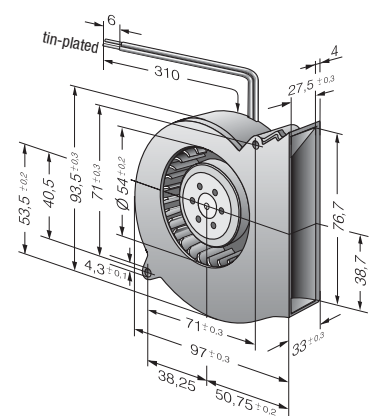
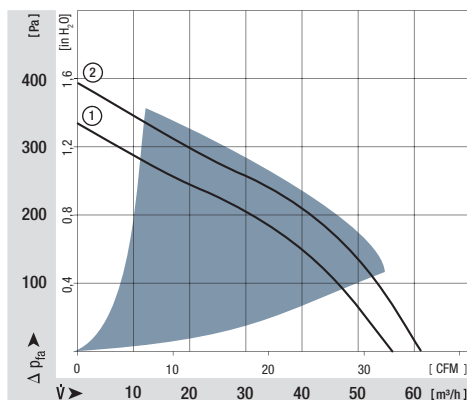
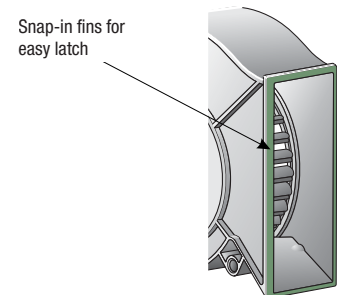


- **Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>
  - **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
  - **Connection:** Via single wires AWG 26, TR 64
  - **Highlights:** Forwards-curved impeller
  - **Mass:** 170 g
- **Possible special versions:**  
(See chapter DC fans - specials)
    - Speed signal
    - Go / No-go alarm
    - Alarm with limit speed
    - External temperature sensor
    - Internal temperature sensor
    - PWM control input
    - Analogue control input
    - Protection against moisture

1) Fibreglass-reinforced plastic

| Nominal data  | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|---------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type          | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RL 65-21/12   | 56                | 33       | 12              | 6,8...13,8    | 6,6               | ■                                       | 15,0        | 4 500         | -20...+70         | 60 000 / 30 000                                            |                                                                        | 102 500                                                    | ①     |
| RL 65-21/12 H | 61                | 36       | 12              | 6,8...13,2    | 6,8               | ■                                       | 19,2        | 4 900         | -20...+55         | 55 000 / 40 000                                            |                                                                        | 92 500                                                     | ②     |
| RL 65-21/14   | 56                | 33       | 24              | 12...26,4     | 6,6               | ■                                       | 14,0        | 4 500         | -20...+70         | 60 000 / 30 000                                            |                                                                        | 102 500                                                    | ①     |
| RL 65-21/14 H | 61                | 36       | 24              | 12...26,4     | 6,8               | ■                                       | 18,0        | 4 900         | -20...+60         | 55 000 / 35 000                                            |                                                                        | 92 500                                                     | ②     |

Subject to alternations



max. 55 m<sup>3</sup>/h

# DC centrifugal fans

Series RL 90 N 121 x 121 x 37 mm

Information

DC axial fans

DC centrifugal fans

DC fans - specials

ACmaxx / GreenTech  
EC-Compact fans

AC axial fans

AC centrifugal fans

Accessories

Representatives

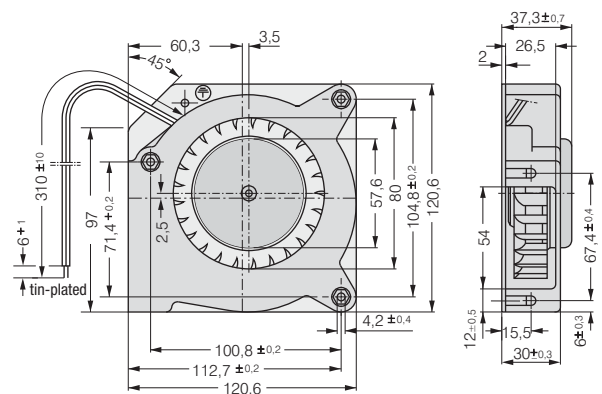
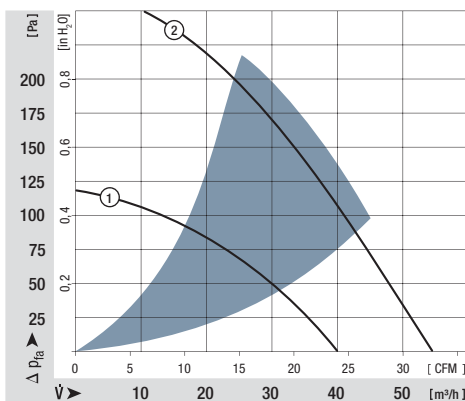


- Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>  
Housing base: Sheet steel
- Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- Connection:** Via single wires AWG 22, TR 64
- Highlights:** Forwards-curved impeller
- Mass:** 420 g
- Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54 / IP 68

1) Fibreglass-reinforced plastic

| Nominal data   |  | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|----------------|--|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type           |  | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RL 90-18/12 N  |  | 40                | 23,5     | 12              | 7...15        | 5,8               | ■                                       | 6,3         | 2 500         | -30...+75         | 62 500 / 27 500                                            | 105 000                                                                | 105 000                                                    | ①     |
| RL 90-18/14 NG |  | 40                | 23,5     | 24              | 12...28       | 5,8               | ■                                       | 5,6         | 2 500         | -20...+75         | 62 500 / 27 500                                            | 105 000                                                                | 105 000                                                    | ①     |
| RL 90-18/14 N  |  | 40                | 23,5     | 24              | 12...28       | 5,8               | ■                                       | 5,6         | 2 500         | -30...+75         | 62 500 / 27 500                                            | 105 000                                                                | 105 000                                                    | ①     |
| RL 90-18/18 NH |  | 55                | 32,4     | 48              | 36...53       | 6,9               | ■                                       | 14,7        | 3 500         | -30...+65         | 32 500 / 17 500                                            | 55 000                                                                 | 55 000                                                     | ②     |

Subject to alternations



Screw clip M4 or 8-32UNC. Screw-in depth max. 12.5 min. 9.0

max. 80 m<sup>3</sup>/h

# DC centrifugal fans

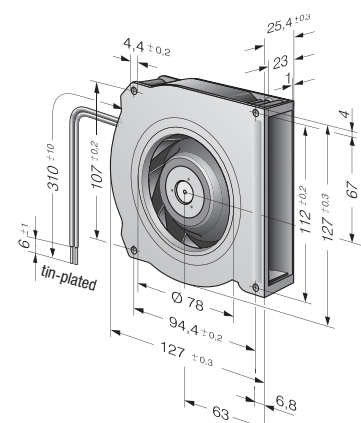
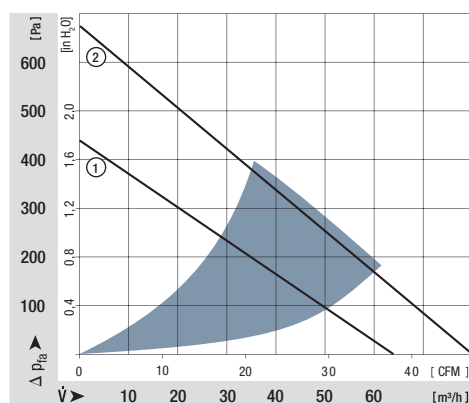
Series RLF 100 127 x 127 x 25 mm



- **Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>  
Housing base: Sheet steel
  - **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
  - **Connection:** Via single wires AWG 22, TR 64
  - **Highlights:** Optional protective cap for outlet opening  
Backwards-curved impeller
  - **Mass:** 320 g
- **Possible special versions:** (See chapter DC fans - specials)
    - Speed signal
    - Go / No-go alarm
    - Alarm with limit speed
    - External temperature sensor
    - Internal temperature sensor
    - PWM control input
    - Analogue control input
    - Protection against moisture
    - Type of protection: IP 54

1) Fibreglass-reinforced plastic

| Nominal data                                                       | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|--------------------------------------------------------------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                                                               | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      | Curve |
| RLF 100-11/12                                                      | 64                | 37,7     | 12              | 8...15        | 6,4               | ■                                       | 8,0         | 5 100         | -20...+75         | 80 000 / 30 000                                            |                                                                        | 135 000                                                    | ①     |
| RLF 100-11/14                                                      | 64                | 37,7     | 24              | 16...30       | 6,4               | ■                                       | 8,0         | 5 100         | -20...+75         | 80 000 / 30 000                                            |                                                                        | 135 000                                                    | ①     |
| RLF 100-11/18                                                      | 64                | 37,7     | 48              | 36...60       | 6,4               | ■                                       | 8,6         | 5 100         | -20...+75         | 80 000 / 30 000                                            |                                                                        | 135 000                                                    | ①     |
| High speed models with Open Collector Tacho and PWM speed control. |                   |          |                 |               |                   |                                         |             |               |                   |                                                            |                                                                        |                                                            |       |
| RLF 100-11/12/2 HP-200                                             | 80                | 47,1     | 12              | 10...13,2     | 7,5               | ■                                       | 18,6        | 6 400         | -20...+60         | 72 500 / 45 000                                            |                                                                        | 122 500                                                    | ②     |
| RLF 100-11/18/2 HP-182                                             | 80                | 47,1     | 48              | 43...53       | 7,5               | ■                                       | 17,0        | 6 400         | -20...+70         | 72 500 / 35 000                                            |                                                                        | 122 500                                                    | ②     |
| Subject to alternations                                            |                   |          |                 |               |                   |                                         |             |               |                   |                                                            |                                                                        |                                                            |       |



max. 55 m³/h

# DC centrifugal fans

Series RG 90 N 135 x 135 x 38 mm

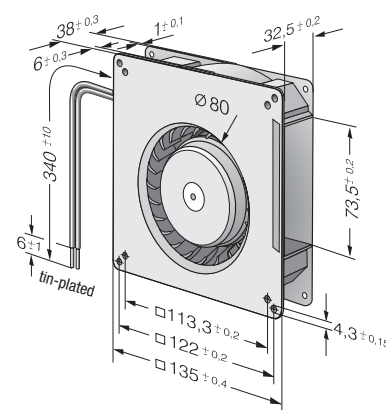
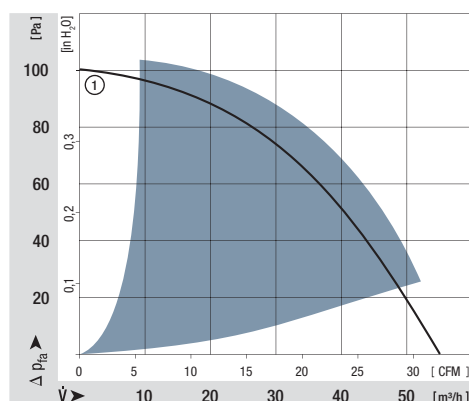


- **Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>  
Housing base: Sheet steel
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Connection:** Via single wires AWG 22, TR 64  
48 V model: Flat plug  
6.3 x 0.8 mm for protective earth  
Forwards-curved impeller
- **Highlights:**
- **Mass:** 440 g
- **Possible special versions:**  
(See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54 / IP 68

1) Fibreglass-reinforced plastic

| Nominal data   |  | Air flow | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|----------------|--|----------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type           |  | m³/h     | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RG 90-18/12 N  |  | 55       | 32,4     | 12              | 7...15        | 5,5               | ■                                       | 6,7         | 2 200         | -30...+75         | 62 500 / 27 500                                            | 105 000                                                                | 105 000                                                    | ①     |
| RG 90-18/14 NG |  | 55       | 32,4     | 24              | 12...28       | 5,5               | ■                                       | 6,2         | 2 200         | -10...+75         | 62 500 / 27 500                                            | 105 000                                                                | 105 000                                                    | ①     |
| RG 90-18/14 N  |  | 55       | 32,4     | 24              | 12...28       | 5,5               | ■                                       | 6,2         | 2 200         | -30...+75         | 62 500 / 27 500                                            | 105 000                                                                | 105 000                                                    | ①     |
| RG 90-18/18 N  |  | 55       | 32,4     | 48              | 36...56       | 5,5               | ■                                       | 6,1         | 2 200         | -30...+75         | 62 500 / 27 500                                            | 105 000                                                                | 105 000                                                    | ①     |

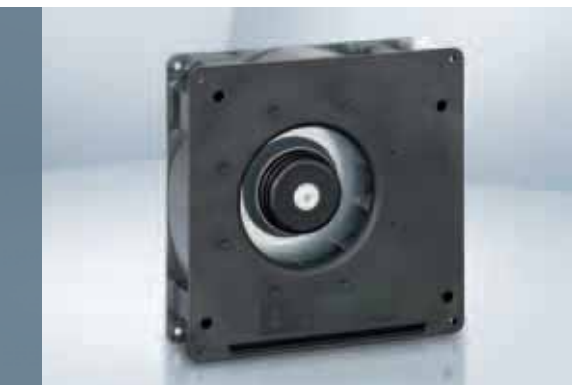
Subject to alternations



max. 137 m<sup>3</sup>/h

## DC centrifugal fans

Series RG 125 N 180 x 180 x 40 mm

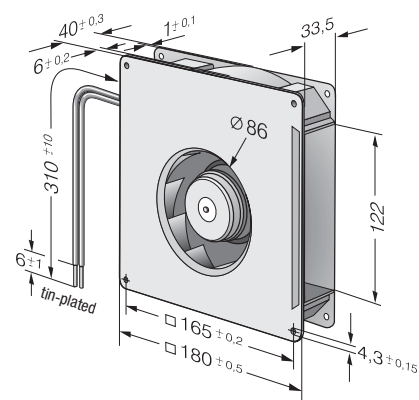
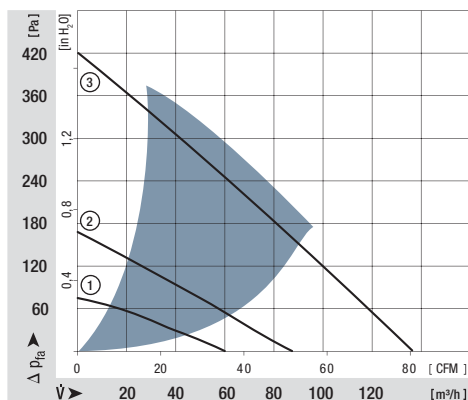


- **Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>  
Housing base: Sheet steel
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Connection:** Via single wires AWG 22, TR 64  
48 V model: Flat plug  
6.3 x 0.8 mm for protective earth  
Backwards-curved impeller
- **Highlights:**
- **Mass:** 730 g
- **Possible special versions:**  
(See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54 / IP 68

1) Fibreglass-reinforced plastic

| Nominal data    | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|-----------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type            | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      | Curve |
| RG 125-19/12 NM | 60,0              | 35,3     | 12              | 7...15        | 4,8               | ■                                       | 2,0         | 1 750         | -30...+75         | 70 000 / 30 000                                            |                                                                        | 117 500                                                    | ①     |
| RG 125-19/12 N  | 87,5              | 51,5     | 12              | 7...15        | 5,8               | ■                                       | 5,2         | 2 550         | -30...+75         | 62 500 / 27 500                                            |                                                                        | 105 000                                                    | ②     |
| RG 125-19/14 NM | 60,0              | 35,3     | 24              | 12...28       | 4,8               | ■                                       | 2,0         | 1 750         | -30...+75         | 70 000 / 30 000                                            |                                                                        | 117 500                                                    | ①     |
| RG 125-19/14 N  | 87,5              | 51,5     | 24              | 12...28       | 5,8               | ■                                       | 4,9         | 2 550         | -30...+75         | 62 500 / 27 500                                            |                                                                        | 105 000                                                    | ②     |
| RG 125-19/18 N  | 87,5              | 51,5     | 48              | 36...56       | 5,8               | ■                                       | 4,8         | 2 550         | -30...+75         | 62 500 / 27 500                                            |                                                                        | 105 000                                                    | ②     |
| RG 125-19/18 NH | 137               | 80,6     | 48              | 36...56       | 7,0               | ■                                       | 19,0        | 4 000         | -20...+70         | 55 000 / 27 500                                            |                                                                        | 92 500                                                     | ③     |

Subject to alternations





max. 209 m<sup>3</sup>/h

## DC centrifugal fans

Series RG 160 N 220 x 220 x 56 mm

Information

DC axial fans

DC centrifugal fans

DC fans - specials

ACmaxx / GreenTech  
EC-Compact fans

AC axial fans

AC centrifugal fans

Accessories

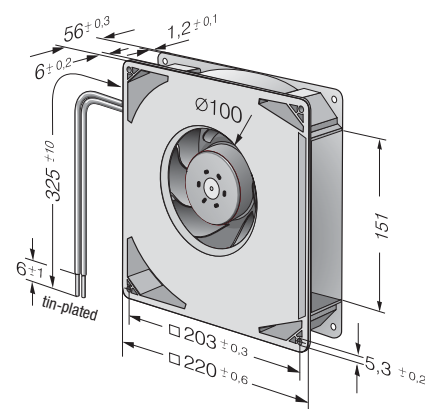
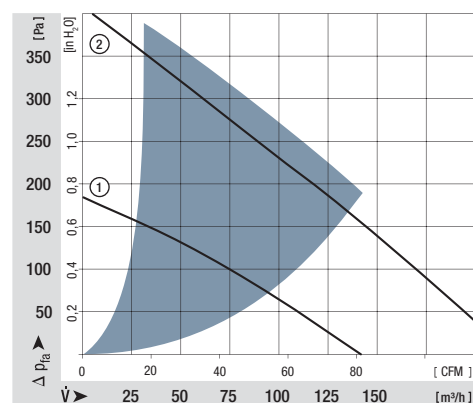
Representatives

- **Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>  
Housing base: Sheet steel
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Connection:** Via single wires AWG 22, TR 64  
48 V model: Flat plug  
6.3 x 0.8 mm for protective earth  
Backwards-curved impeller
- **Highlights:**
- **Mass:** 1,4 kg
- **Possible special versions:**  
(See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54

1) Fibreglass-reinforced plastic

| Nominal data    | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|-----------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type            | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RG 160-28/12 NM | 139               | 81       | 12              | 7...14        | 5,6               | ■                                       | 7,5         | 1 900         | -20...+70         | 80 000 / 40 000                                            | 135 000                                                                | ①                                                          |       |
| RG 160-28/12 N  | 209               | 123      | 12              | 7,5...14      | 6,6               | ■                                       | 21,0        | 2 850         | -20...+70         | 70 000 / 35 000                                            | 117 500                                                                | ②                                                          |       |
| RG 160-28/14 NM | 139               | 81       | 24              | 12...28       | 5,6               | ■                                       | 7,0         | 1 900         | -20...+70         | 80 000 / 40 000                                            | 135 000                                                                | ①                                                          |       |
| RG 160-28/14 N  | 209               | 123      | 24              | 12...28       | 6,6               | ■                                       | 20,0        | 2 850         | -20...+70         | 70 000 / 35 000                                            | 117 500                                                                | ②                                                          |       |
| RG 160-28/18 N  | 209               | 123      | 48              | 28...60       | 6,6               | ■                                       | 20,0        | 2 850         | -20...+70         | 70 000 / 35 000                                            | 117 500                                                                | ②                                                          |       |

Subject to alternations



max. 444 m<sup>3</sup>/h

# DC centrifugal fans

Series RG 160 NTD 220 x 220 x 56 mm



- **Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>  
Housing base: Sheet steel
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Connection:** Via single wires AWG 22, TR 64  
48 V model: Flat plug  
6.3 x 0.8 mm for protective earth
- **Highlights:** 3-phase fan drive with very smooth running  
Backwards-curved impeller
- **Mass:** 1,4 kg
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture
  - Type of protection: IP 54

1) Fibreglass-reinforced plastic

| Nominal data             |                           | Air flow  | Air flow  | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|--------------------------|---------------------------|-----------|-----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                     |                           | m³/h      | CFM       | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| <div>min.<br/>max.</div> | RG 160-28/14 NTD...       | 59<br>308 | 35<br>181 | 24              | 16...28       | —<br>7,5          | ■                                       | 2,0<br>64,0 | 800<br>4 200  | -20...+60         | 55 000 / 35 000                                            | 92 500                                                                 | 92 500                                                     | ①     |
|                          |                           |           |           |                 |               |                   |                                         |             |               |                   |                                                            |                                                                        |                                                            |       |
|                          | RG 160-28/14 NTD          | 308       | 181       | 24              | 16...28       | 7,5               | ■                                       | 64,0        | 4 200         | -20...+60         | 55 000 / 35 000                                            | 92 500                                                                 | 92 500                                                     | ②     |
|                          | RG 160-28/14 NTDH         | 370       | 218       | 24              | 16...28       | 7,8               | ■                                       | 101,0       | 5 000         | -20...+60         | 50 000 / 32 500                                            | 85 000                                                                 | 85 000                                                     | ③     |
| <div>min.<br/>max.</div> | RG 160-28/18 NTD...       | 59<br>308 | 35<br>181 | 48              | 38...57       | —<br>7,5          | ■                                       | 2,0<br>59,0 | 800<br>4 200  | -20...+70         | 55 000 / 27 500                                            | 92 500                                                                 | 92 500                                                     | ①     |
|                          |                           |           |           |                 |               |                   |                                         |             |               |                   |                                                            |                                                                        |                                                            |       |
|                          | RG 160-28/18/2 N/2 TDHHP* | 444       | 261       | 48              | 36...60       | 8,5               | ■                                       | 159         | 6 000         | -20...+65         | 40 000 / 22 500                                            | 67 500                                                                 | 67 500                                                     | ④     |
| Subject to alterations   |                           |           |           |                 |               |                   |                                         |             |               |                   |                                                            |                                                                        |                                                            |       |

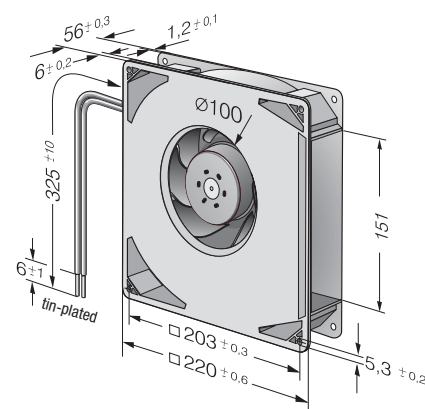
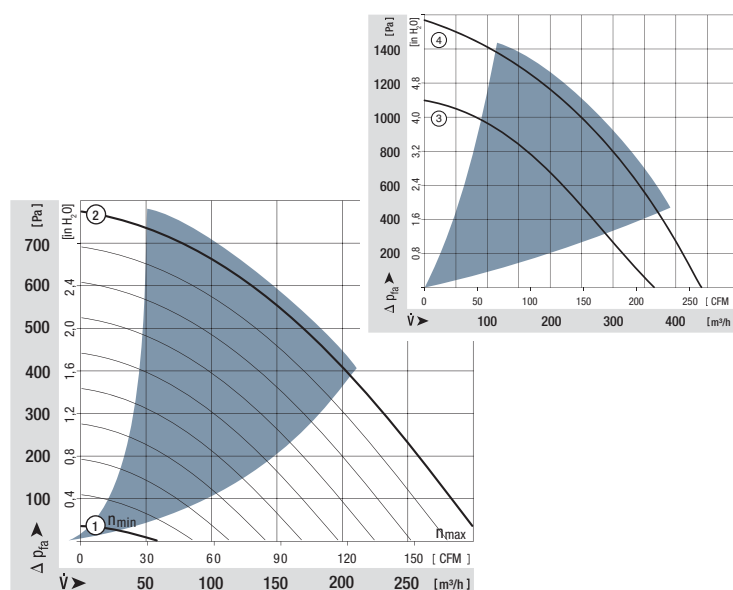
Subject to alternations

Models RG 160-28/14 NTD... and RG 160-28/18 NTD... are available in customer-specific, custom-developed variants only.

The data specified here are technically feasible benchmark values. The fans can be specially adapted to your application with signal outputs and control inputs.

\*The specific service life is valid when an external capacitor is wired between the plus and minus wires.

Please note the wiring suggestion.



max. 930 m<sup>3</sup>/h  
**S-Force**

## DC centrifugal fans

Series RG 190 TD 225 x 225 x 85 mm

Information

DC axial fans

DC centrifugal fans

DC fans - specials

ACmaxx / GreenTech  
EC-Compact fans

AC axial fans

AC centrifugal fans

Accessories

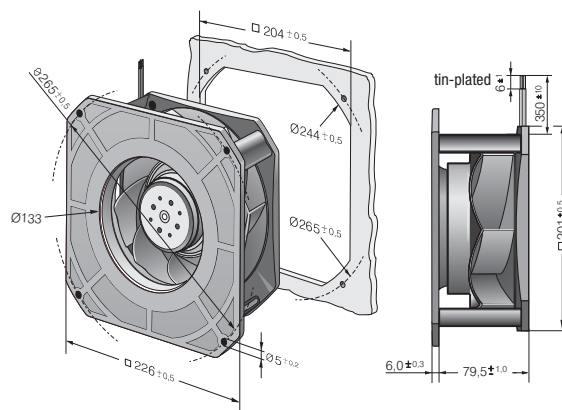
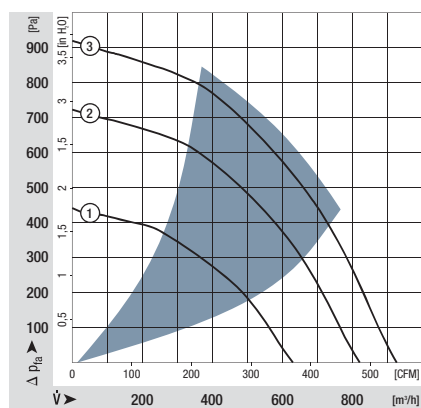
Representatives



- **Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake, Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 18, 20 or AWG 22, TR 64, speed signal and control input AWG 22
- **Highlights:** 3-phase fan drive with very smooth running and high efficiency  
Backwards-curved RadiCal impeller
- **Mass:** 1210 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Multi-option control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54

<sup>1)</sup> Fibreglass-reinforced plastic

| Nominal data                                                                                                                                                                                 | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                                                                                                                                                                                         | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■/■                                     | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RG 190-39/14/2 TDML0                                                                                                                                                                         | 630               | 371      | 24              | 16...30       | 7,6               | ■                                       | 54          | 3 000         | -20...+60         | 55 000 / 35 000                                            | 92 500                                                                 | ①                                                          |       |
| RG 190-39/14/2 TDM0                                                                                                                                                                          | 820               | 482      | 24              | 16...36       | 7,9               | ■                                       | 113         | 3 900         | -20...+65         | 52 500 / 30 000                                            | 87 500                                                                 | ②                                                          |       |
| RG 190-39/18/2 TDML0*                                                                                                                                                                        | 630               | 371      | 48              | 36...57       | 7,6               | ■                                       | 52          | 3 000         | -20...+65         | 55 000 / 30 000                                            | 92 500                                                                 | ①                                                          |       |
| RG 190-39/18/2 TDM0                                                                                                                                                                          | 820               | 482      | 48              | 36...72       | 7,9               | ■                                       | 113         | 3 900         | -20...+65         | 52 500 / 30 000                                            | 87 500                                                                 | ②                                                          |       |
| RG 190-39/18/2 TD0                                                                                                                                                                           | 930               | 547      | 48              | 36...72       | 8,3               | ■                                       | 140         | 4 400         | -20...+65         | 40 000 / 22 500                                            | 67 500                                                                 | ③                                                          |       |
| * provisional<br>Subject to alterations<br>Speed control range from 800 rpm at 7 % PWM up to nominal speed at > 90 % PWM. Standstill at 0 % PWM, standstill if control cable is interrupted. |                   |          |                 |               |                   |                                         |             |               |                   |                                                            |                                                                        |                                                            |       |



max. 1280 m<sup>3</sup>/h  
**S-Force**

## DC centrifugal fans

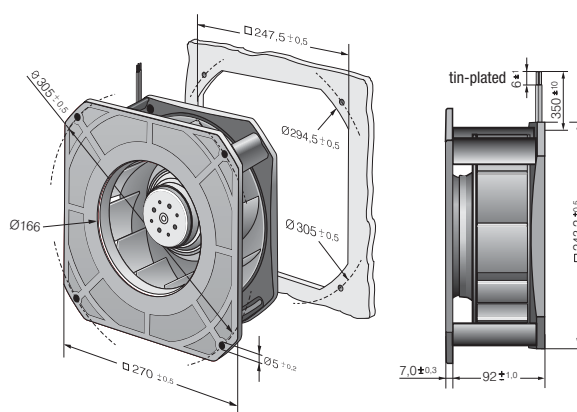
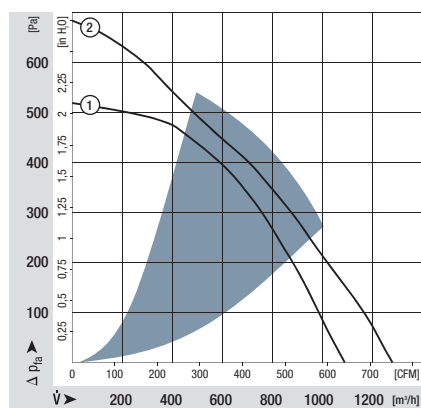
Series RG 220 TD 270 x 270 x 99 mm



- **Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 18, 20 or AWG 22, TR 64, speed signal and control input AWG 22
- **Highlights:** 3-phase fan drive with very smooth running and high efficiency  
Backwards-curved impeller
- **Mass:** 1870 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54

<sup>1)</sup> Fibreglass-reinforced plastic

| Nominal data                                                                                                                                                                                 | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                                                                                                                                                                                         | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      | ①     |
| RG 220-44/14/2 TDMO*                                                                                                                                                                         | 1090              | 641      | 24              | 16...36       | 7,7               | ■                                       | 82          | 3 000         | -20...+55         | 75 000 / 52 500                                            | 127 500                                                                | 127 500                                                    | ①     |
| RG 220-44/18/2 TDMO*                                                                                                                                                                         | 1090              | 641      | 48              | 36...72       | 7,7               | ■                                       | 80          | 3 000         | -20...+55         | 75 000 / 52 500                                            | 127 500                                                                | 127 500                                                    | ①     |
| RG 220-44/18/2 TDO*                                                                                                                                                                          | 1280              | 753      | 48              | 36...72       | 8,0               | ■                                       | 140         | 3 500         | -20...+55         | 55 000 / 40 000                                            | 92 500                                                                 | 92 500                                                     | ②     |
| * provisional<br>Subject to alterations<br>Speed control range from 800 rpm at 7 % PWM up to nominal speed at > 90 % PWM. Standstill at 0 % PWM, standstill if control cable is interrupted. |                   |          |                 |               |                   |                                         |             |               |                   |                                                            |                                                                        |                                                            |       |



max. 1450 m<sup>3</sup>/h  
**S-Force**

## DC centrifugal fans

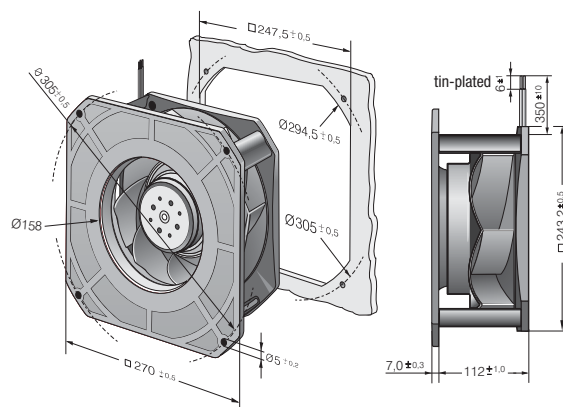
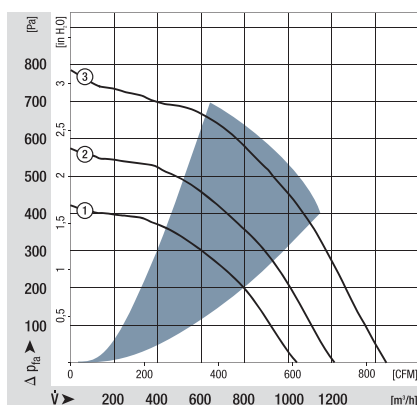
Series RG 225 TD 270 x 270 x 119 mm



- **Material:** Scroll housing: GRP<sup>1)</sup>  
Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake, Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 18, 20 or AWG 22, TR 64, speed signal and control input AWG 22
- **Highlights:** 3-phase fan drive with very smooth running and high efficiency  
Backwards-curved RadiCal impeller
- **Mass:** 1750 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54

1) Fibreglass-reinforced plastic

| Nominal data                                                                                                                                                                                                                                                                                                                                       |  | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                                                                                                                                                                                                                                                                                                                                               |  | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RG 225-55/14/2 TDMLO                                                                                                                                                                                                                                                                                                                               |  | 1040              | 612      | 24              | 16...36       | 7,3               | ■                                       | 65          | 2 400         | -20...+55         | 72 500 / 52 500                                            | 122 500                                                                | ①                                                          |       |
| RG 225-55/18/2 TDMLO*                                                                                                                                                                                                                                                                                                                              |  | 1040              | 612      | 48              | 36...72       | 7,3               | ■                                       | 65          | 2 400         | -20...+55         | 72 500 / 52 500                                            | 122 500                                                                | ①                                                          |       |
| RG 225-55/18/2 TDMO                                                                                                                                                                                                                                                                                                                                |  | 1210              | 712      | 48              | 36...72       | 7,9               | ■                                       | 116         | 2 800         | -20...+55         | 55 000 / 40 000                                            | 92 500                                                                 | ②                                                          |       |
| NEW RG 225-55/18/2 TDO                                                                                                                                                                                                                                                                                                                             |  | 1450              | 853      | 48              | 36...60       | 8,1               | ■                                       | 192         | 3 300         | -20...+40         | 30 000 / 30 000                                            | 50 000                                                                 | ③                                                          |       |
| * provisional<br>Subject to alterations<br><br>Speed control range from 800 rpm at 7 % PWM up to nominal speed at > 90 % PWM. Standstill at 0 % PWM, standstill if control cable is interrupted.<br>The specific service life is valid when an external capacitor is wired between the plus and minus wires.<br>Please note the wiring suggestion. |  |                   |          |                 |               |                   |                                         |             |               |                   |                                                            |                                                                        |                                                            |       |



max. 220 m<sup>3</sup>/h  
**S-Force**

## DC centrifugal fans

Series RET 97 TD Ø 97 x 41 mm



- **Material:** Impeller: Galvanised sheet steel
- **Direction of air flow:** Axial: Intake, Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 18, 20 or AWG 22, TR 64, speed signal and control input AWG 22
- **Highlights:** 3-phase fan drive with very smooth running and high efficiency  
Forwards-curved impeller  
Fan requires a scroll housing
- **Mass:** 430 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture

| Nominal data       | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|--------------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type               | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      | ①     |
| RET 97-25/14/2 TDP | 220               | 129      | 24              | 16...36       | 8,1               | ■                                       | 77          | 6 000         | -20...+60         | 80 000 / 50 000                                            |                                                                        | 135 000                                                    | ①     |
| RET 97-25/18/2 TDP | 220               | 129      | 48              | 36...60       | 8,1               | ■                                       | 76          | 6 000         | -20...+60         | 80 000 / 50 000                                            |                                                                        | 135 000                                                    | ①     |

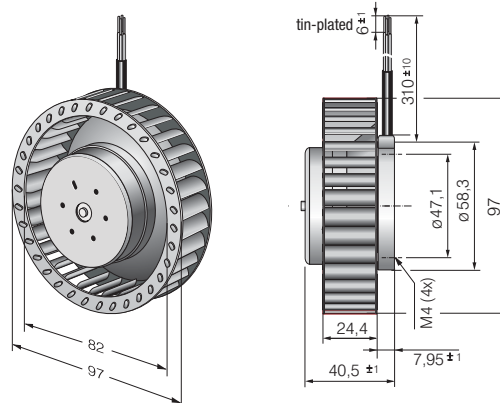
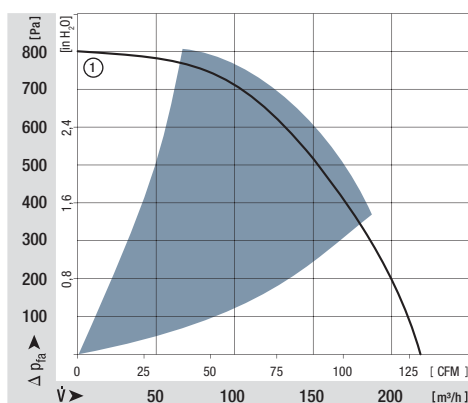
Subject to alterations

Speed control range from 800 rpm at 7 % PWM up to nominal speed at > 90 % PWM. Standstill at 0 % PWM, standstill if control cable is interrupted.

The specific service life is valid when an external capacitor is wired between the plus and minus wires.

Please note the wiring suggestion.

All nominal data were measured in the scroll housing.





max. 104 m<sup>3</sup>/h

# DC centrifugal fans

Series REF 100 Ø 104 x 25 mm

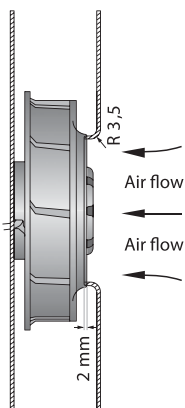


- **Material:** Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 22, TR 64
- **Highlights:** Backwards-curved impeller
- **Mass:** 160 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture
  - Type of protection: IP 54

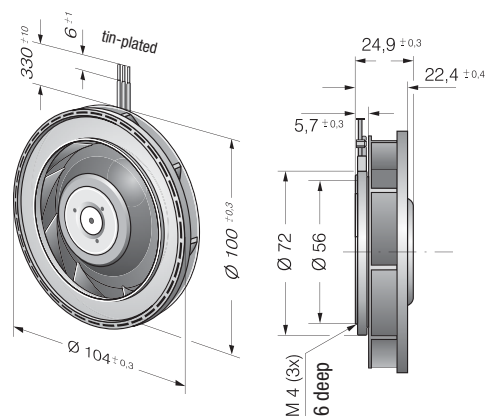
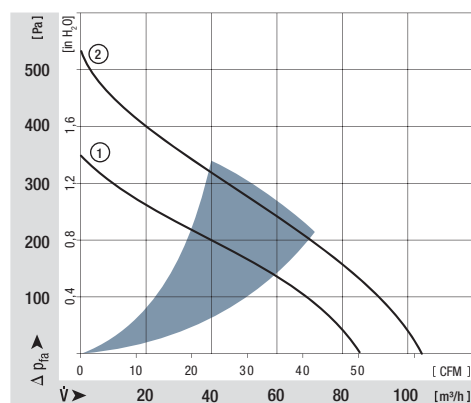
1) Fibreglass-reinforced plastic

| Nominal data    | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|-----------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type            | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      | ①     |
| REF 100-11/12   | 86                | 50,6     | 12              | 8...15        | 6,3               | ■                                       | 7,5         | 5 400         | -20...+75         | 80 000 / 30 000                                            | 135 000                                                                | 135 000                                                    | ①     |
| REF 100-11/14   | 86                | 50,6     | 24              | 16...30       | 6,3               | ■                                       | 7,5         | 5 400         | -20...+75         | 80 000 / 30 000                                            | 135 000                                                                | 135 000                                                    | ①     |
| REF 100-11/18   | 86                | 50,6     | 48              | 36...60       | 6,3               | ■                                       | 8,2         | 5 400         | -20...+75         | 80 000 / 30 000                                            | 135 000                                                                | 135 000                                                    | ①     |
| REF 100-11/18 H | 104               | 61,2     | 48              | 36...56       | 6,9               | ■                                       | 14,8        | 6 700         | -20...+70         | 67 500 / 32 500                                            | 115 000                                                                | 115 000                                                    | ②     |

Subject to alternations



The air flow and noise level of the centrifugal fans without external housing depend on their individual installation conditions. The stated air flow and noise level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 127 x 127 mm. Cover plate 127 x 127 mm, with an air inlet opening Ø 70 mm, arranged concentrically to the impeller.



max. 190 m<sup>3</sup>/h

## DC centrifugal fans

Series RER 101 Ø 101 x 52 mm

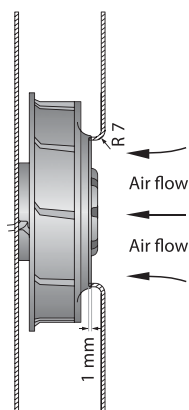


- **Material:** Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 22, TR 64
- **Highlights:** Backwards-curved impeller
- **Mass:** 305 g
- **Possible special versions:**  
(See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture

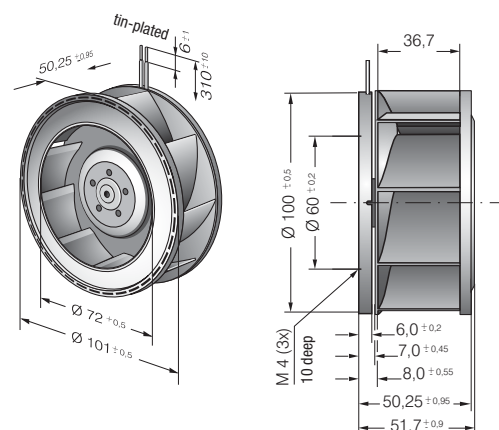
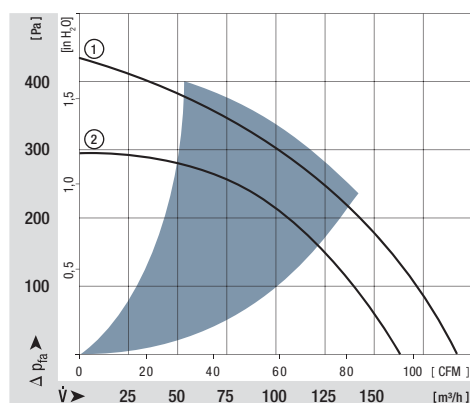
1) Fibreglass-reinforced plastic

| Nominal data      | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|-------------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type              | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RER 101-36/12 NH  | 162               | 95       | 12              | 9...13,6      | 6,9               | ■                                       | 13,0        | 5 000         | -20...+70         | 65 000 / 32 500                                            | 110 000                                                                | ②                                                          |       |
| RER 101-36/12 NHH | 190               | 112      | 12              | 9...13,6      | 7,2               | ■                                       | 20,5        | 6 000         | -20...+70         | 60 000 / 30 000                                            | 102 500                                                                | ①                                                          |       |
| RER 101-36/14 NHH | 190               | 112      | 24              | 18...27,2     | 7,2               | ■                                       | 22,5        | 6 050         | -20...+70         | 60 000 / 30 000                                            | 102 500                                                                | ①                                                          |       |
| RER 101-36/18 NHH | 190               | 112      | 48              | 36...60       | 7,2               | ■                                       | 19,4        | 5 850         | -20...+70         | 60 000 / 30 000                                            | 102 500                                                                | ①                                                          |       |

Subject to alternations



The air flow and noise level of the centrifugal fans without external housing depend on their individual installation conditions. The stated air flow and noise level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 148 x 148 mm.  
Cover plate 148 x 148 mm, with an air inlet opening Ø 66 mm, arranged concentrically to the impeller.





max. 390 m<sup>3</sup>/h  
**S-Force**

# DC centrifugal fans

Series RER 120 TD Ø 120 x 54 mm

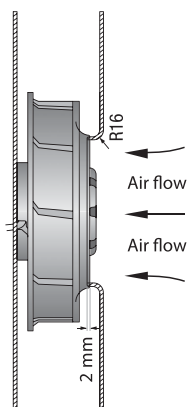
- **Material:** Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 18, 20 or AWG 22, TR 64, speed signal and control input AWG 22
- **Highlights:** 3-phase fan drive with very smooth running and high efficiency  
Backwards-curved impeller
- **Mass:** 430 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture

1) Fibreglass-reinforced plastic

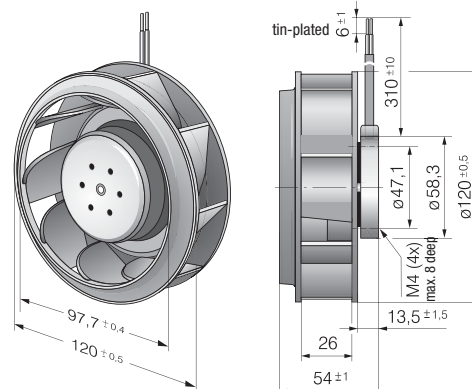
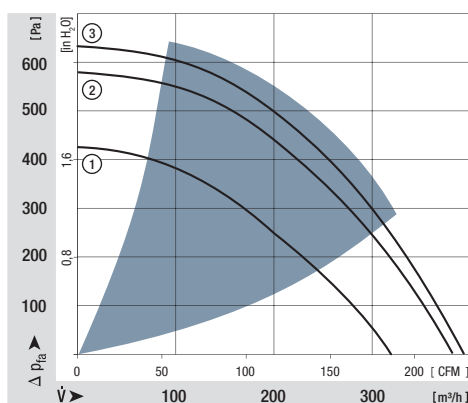
| Nominal data          |      | Air flow | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|-----------------------|------|----------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                  | m³/h | CFM      | VDC      | VDC             | Bel(A)        | ■ / ■             | Watts                                   | rpm         | °C            | Hours             | Hours                                                      | Hours                                                                  |                                                            |       |
| RER 120-26/14/2 TDMP* | 320  | 188      | 24       | 16...32         | tbd           | ■                 | 51                                      | 5 200       | -20...+60     | 60 000 / 37 500   | 102 500                                                    | 102 500                                                                | ①                                                          |       |
| RER 120-26/14/2 TDP   | 377  | 222      | 24       | 16...32         | 8,2           | ■                 | 78                                      | 6 100       | -20...+60     | 55 000 / 35 000   | 92 500                                                     | 92 500                                                                 | ②                                                          |       |
| RER 120-26/18/2 TDMP* | 320  | 188      | 48       | 36...60         | tbd           | ■                 | 51                                      | 5 200       | -20...+60     | 57 500 / 35 000   | 97 500                                                     | 97 500                                                                 | ①                                                          |       |
| RER 120-26/18/2 TDP   | 390  | 230      | 48       | 36...60         | 8,3           | ■                 | 92                                      | 6 300       | -20...+60     | 50 000 / 30 000   | 85 000                                                     | 85 000                                                                 | ③                                                          |       |

\* provisional  
Subject to alterations

Speed control range from 800 rpm at 7 % PWM up to nominal speed at > 90 % PWM. Standstill at 0 % PWM, standstill if control cable is interrupted.  
The specific service life is valid when an external capacitor is wired between the plus and minus wires.  
Please note the wiring suggestion.



The air flow and noise level of the centrifugal fans without external housing depend on their individual installation conditions. The stated air flow and noise level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 140 x 140 mm.  
Cover plate 140 x 140 mm, with an air inlet opening Ø 94,4 mm, arranged concentrically to the fan impeller.



max. 250 m<sup>3</sup>/h

# DC centrifugal fans

Ø 120 mm



- **Material:** Impeller: PA 6.6 plastic, fibreglass-reinforced  
Rotor: Galvanised
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 20
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Operation mode:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

## Nominal data

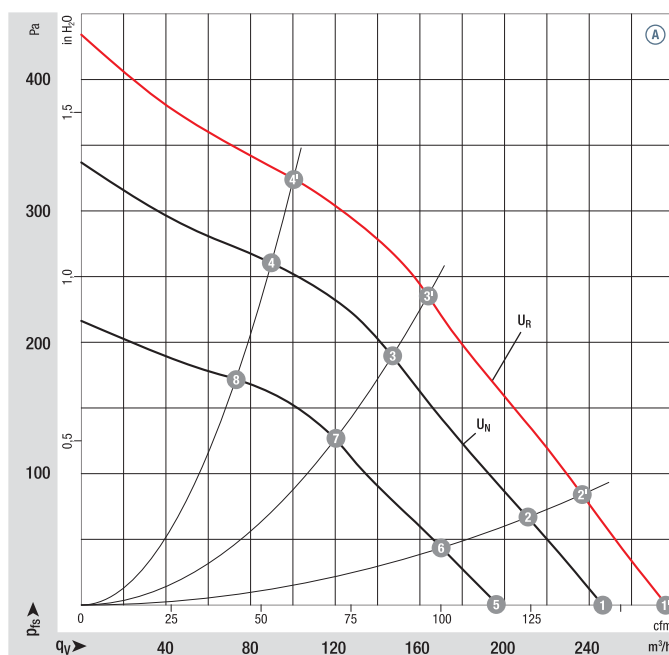
| Type           | Motor      | Curve | Nominal voltage<br>VDC | Voltage range<br>VDC | Air flow<br>m <sup>3</sup> /h | Speed / rpm | Input power<br>W | Current draw<br>A | Sound power level<br>dB(A) | Perm. amb. temp.<br>°C | Technical features and<br>electrical connections |
|----------------|------------|-------|------------------------|----------------------|-------------------------------|-------------|------------------|-------------------|----------------------------|------------------------|--------------------------------------------------|
| <b>R1G 120</b> | M1G 045-BE | Ⓐ     | 24                     | 16-28                | 250                           | 4060        | 26               | 1,20              | 62                         | -25..+60               | p. 255 / G)                                      |
| <b>R1G 120</b> | M1G 045-BE | Ⓐ     | 48                     | 36-57                | 250                           | 4060        | 26               | 0,60              | 62                         | -25..+60               | p. 255 / G)                                      |

Subject to alternations

## Curve:

U<sub>N</sub> = nominal  
voltage  
(24 V / 48 V)

U<sub>R</sub> = overvoltage  
(28 V / 57 V)



|      | n<br>rpm | P <sub>ed</sub><br>W | Lp <sub>A</sub><br>dB(A) | η <sub>IL</sub><br>% |
|------|----------|----------------------|--------------------------|----------------------|
| Ⓐ 1' | 4520     | 36                   | 65                       | —                    |
| Ⓐ 2' | 4500     | 36                   | 64                       | 27                   |
| Ⓐ 3' | 4540     | 36                   | 61                       | 45                   |
| Ⓐ 4' | 4750     | 32                   | 64                       | 39                   |
| Ⓐ 1  | 4060     | 26                   | 62                       | —                    |
| Ⓐ 2  | 4000     | 26                   | 61                       | 27                   |
| Ⓐ 3  | 4050     | 26                   | 58                       | 45                   |
| Ⓐ 4  | 4200     | 23                   | 61                       | 39                   |
| Ⓐ 5  | 3270     | 14                   | 56                       | —                    |
| Ⓐ 6  | 3250     | 14                   | 55                       | 27                   |
| Ⓐ 7  | 3280     | 14                   | 53                       | 45                   |
| Ⓐ 8  | 3400     | 13                   | 56                       | 39                   |

Air performance measured as per: ISO 5801, Installation category A, with ebm-papst inlet nozzle without protection against accidental contact. Suction-side noise levels: LWA as per ISO 13347, LpA measured at 1 m distance to fan axis. The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation. With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted! For detailed information see <http://www.ebmpapst.com/general-conditions>

- **Technical features:** See electrical connections p. 255
- **Cable exit:** Axial
- **Protection class:** I
- **Product conforming to standards:** EN 60950-1
- **Approvals:** Ⓐ (48 VDC) CCC



Mass  
centrifugal fans



Centrifugal fans

kg

Inlet nozzle  
(long)

R1G 120-AD13 -02

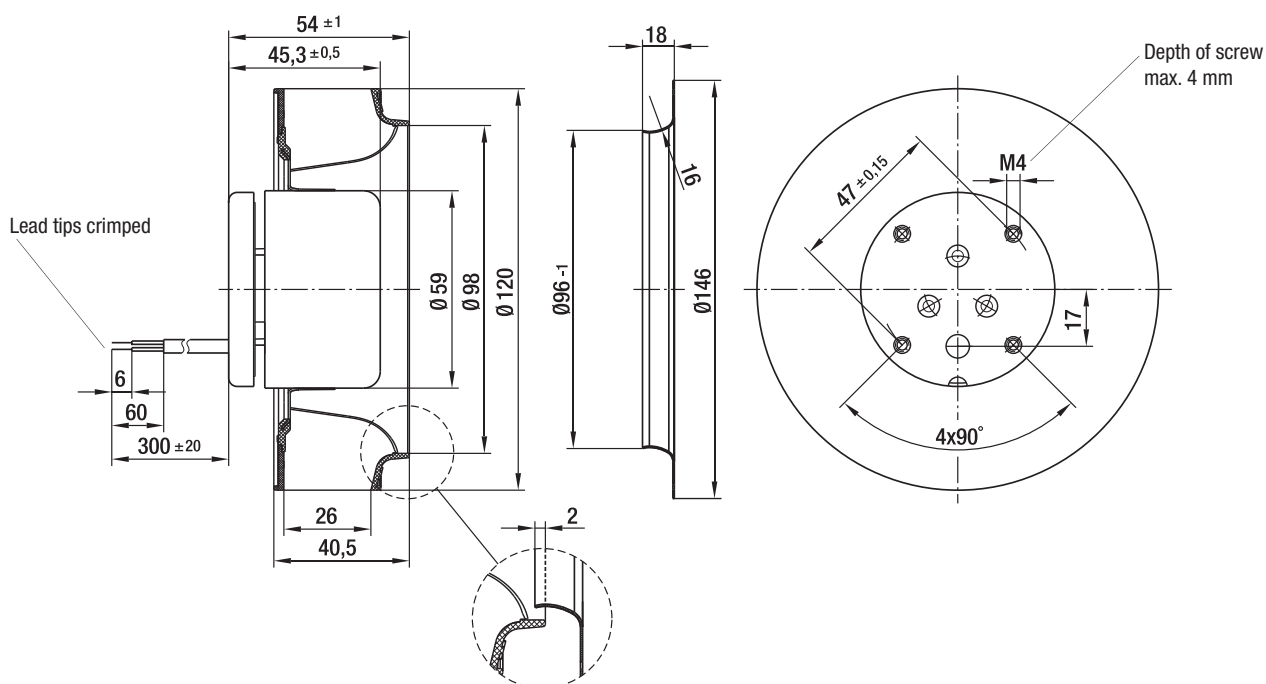
0,5

96120-2-4013

R1G 120-AD11 -02

0,5

96120-2-4013



max. 166 m<sup>3</sup>/h

# DC centrifugal fans

Series RER 125 N Ø 138 x 35 mm

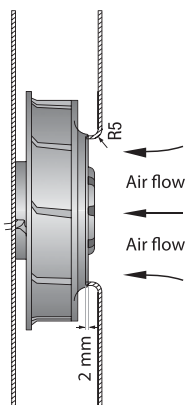


- **Material:** Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 22, TR 64
- **Highlights:** Backwards-curved impeller
- **Mass:** 320 g
- **Possible special versions:**  
(See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54 / IP 68

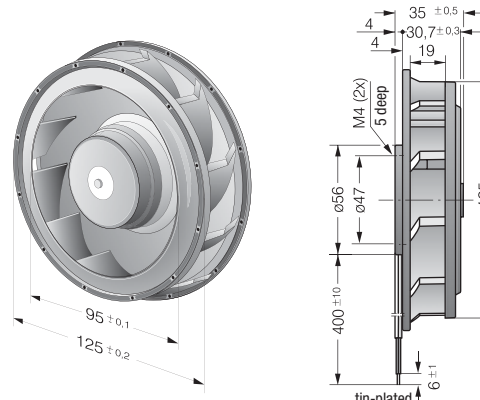
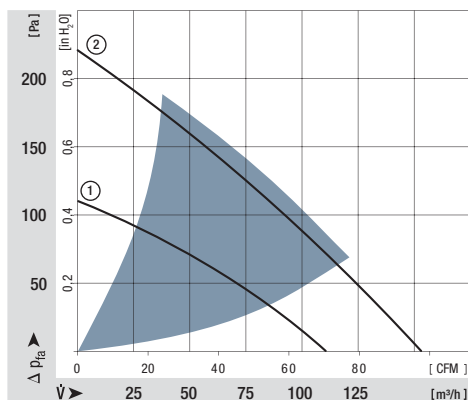
1) Fibreglass-reinforced plastic

| Nominal data     | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|------------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type             | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RER 125-19/12 N  | 110               | 64,7     | 12              | 7...15        | 5,7               | ■                                       | 4,6         | 2 650         | -30...+75         | 62 500 / 27 500                                            | 105 000                                                                | 105 000                                                    | ①     |
| RER 125-19/14 N  | 110               | 64,7     | 24              | 12...28       | 5,7               | ■                                       | 4,3         | 2 650         | -30...+75         | 62 500 / 27 500                                            | 105 000                                                                | 105 000                                                    | ①     |
| RER 125-19/14 NH | 166               | 97,7     | 24              | 12...28       | 7,0               | ■                                       | 13,0        | 4 000         | -20...+70         | 55 000 / 27 500                                            | 92 500                                                                 | 92 500                                                     | ②     |
| RER 125-19/18 N  | 110               | 64,7     | 48              | 36...56       | 5,7               | ■                                       | 4,2         | 2 650         | -30...+75         | 62 500 / 27 500                                            | 105 000                                                                | 105 000                                                    | ①     |

Subject to alternations



The air flow and noise level of the centrifugal fans without external housing depend on their individual installation conditions. The stated air flow and noise level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 120 x 120 mm.  
Cover plate 120 x 120 mm, with an air inlet opening Ø 86 mm, arranged concentrically to the impeller.



max. 565 m<sup>3</sup>/h  
**S-Force**

# DC centrifugal fans

Series RER 133 TD Ø 133 x 91 mm



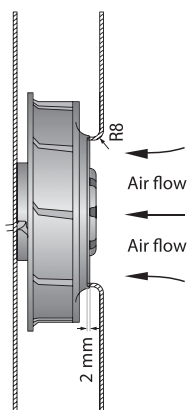
- **Material:** Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 18, 20 or AWG 22, TR 64, speed signal and control input AWG 22
- **Highlights:** 3-phase fan drive with very smooth running and high efficiency  
Backwards-curved impeller
- **Mass:** 890 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Multi-option control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54

1) Fibreglass-reinforced plastic

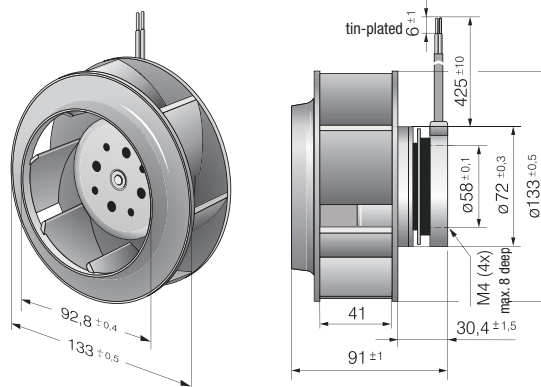
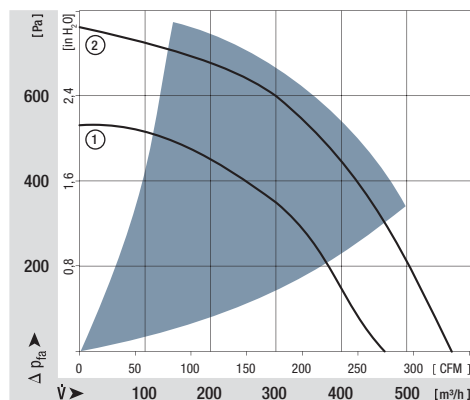
| Nominal data          | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|-----------------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                  | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RER 133-41/14/2 TDMP  | 460               | 271      | 24              | 16...30       | tbd               | ■                                       | 58          | 5 000         | -20...+65         | 72 500 / 40 000                                            | 122 500                                                                | ①                                                          |       |
| RER 133-41/14/2 TDP*  | 565               | 332      | 24              | 16...36       | tbd               | ■                                       | 90          | 6 000         | -20...+65         | 70 000 / 37 500                                            | 117 500                                                                | ②                                                          |       |
| RER 133-41/18/2 TDMP* | 460               | 271      | 48              | 36...57       | tbd               | ■                                       | 50          | 5 000         | -20...+65         | 72 500 / 40 000                                            | 122 500                                                                | ①                                                          |       |
| RER 133-41/18/2 TDP   | 565               | 332      | 48              | 36...72       | 8,2               | ■                                       | 87          | 6 000         | -20...+65         | 70 000 / 37 500                                            | 117 500                                                                | ②                                                          |       |

\* provisional  
Subject to alterations

Speed control range from 800 rpm at 7 % PWM up to nominal speed at > 90 % PWM. Standstill at 0 % PWM, standstill if control cable is interrupted.



The air flow and noise level of the centrifugal fans without external housing depend on their individual installation conditions. The stated air flow and noise level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 140 x 140 mm. Cover plate 140 x 140 mm, with an air inlet opening Ø 87 mm, arranged concentrically to the impeller.



max. 255 m<sup>3</sup>/h

# DC centrifugal fans

Series RER 160 N Ø 165 x 51 mm

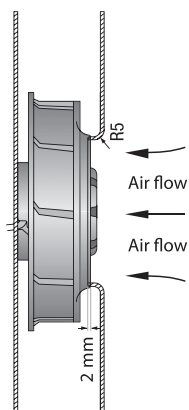


- **Material:** Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Connection:** Via single wires AWG 22, TR 64
- **Highlights:** Backwards-curved impeller
- **Mass:** 590 g
- **Possible special versions:**  
(See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54

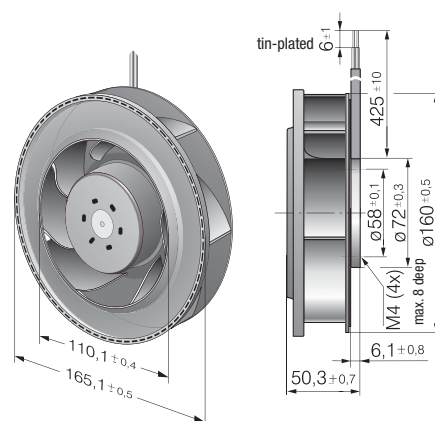
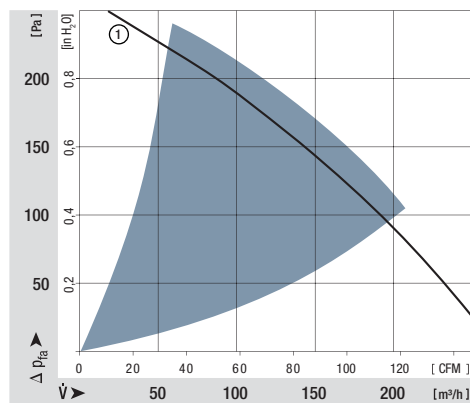
1) Fibreglass-reinforced plastic

| Nominal data    | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|-----------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type            | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      | ①     |
| RER 160-28/12 N | 255               | 150      | 12              | 7...14        | 6,4               | ■                                       | 19,0        | 3 000         | -20...+70         | 75 000 / 37 500                                            | 127 500                                                                | 127 500                                                    | ①     |
| RER 160-28/14 N | 255               | 150      | 24              | 12...28       | 6,4               | ■                                       | 19,0        | 3 000         | -20...+70         | 75 000 / 37 500                                            | 127 500                                                                | 127 500                                                    | ①     |
| RER 160-28/18 N | 255               | 150      | 48              | 28...60       | 6,4               | ■                                       | 19,0        | 3 000         | -20...+70         | 75 000 / 37 500                                            | 127 500                                                                | 127 500                                                    | ①     |

Subject to alternations



The air flow and noise level of the centrifugal fans without external housing depend on their individual installation conditions. The stated air flow and noise level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 260 x 260 mm. Cover plate 260 x 260 mm, with an air inlet opening Ø 100 mm, arranged concentrically to the impeller.





max. 370 m<sup>3</sup>/h  
**S-Force**

# DC centrifugal fans

Series RER 160 NTD Ø 165 x 51 mm



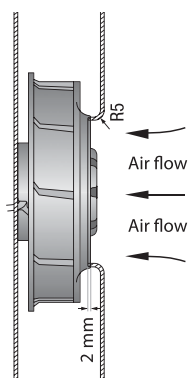
- **Material:** Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 22, TR 64
- **Highlights:** 3-phase fan drive with very smooth running and high efficiency  
Backwards-curved impeller
- **Mass:** 590 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture
  - Type of protection: IP 54

1) Fibreglass-reinforced plastic

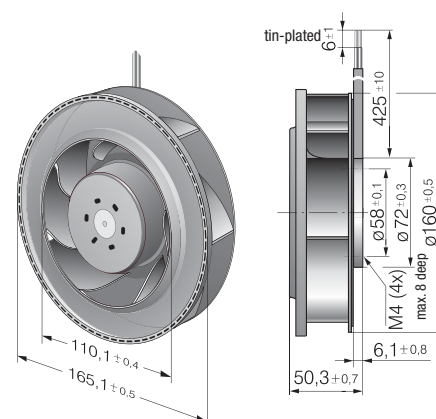
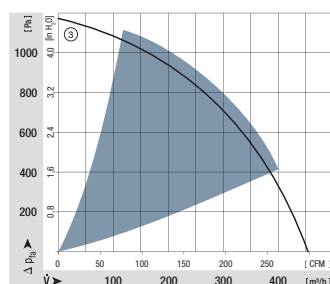
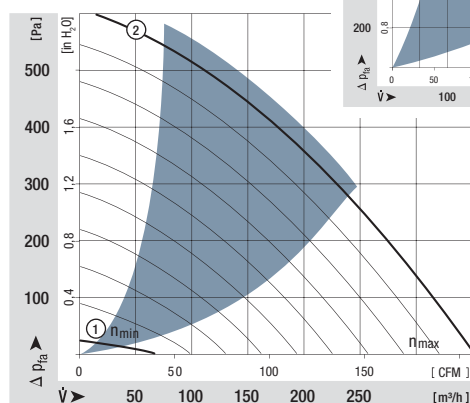
| Nominal data             | Air flow             | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|--------------------------|----------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                     | m <sup>3</sup> /h    | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      | Curve |
| RER 160-28/14 N/2 TDA    | 370                  | 217      | 24              | 16...28       | 7,4               | ■                                       | 51          | 4 200         | -20...+60         | 55 000 / 35 000                                            | 92 500                                                                 | ②                                                          |       |
| RER 160-28/18 N/2 TDHHP* | 305                  | 298      | 48              | 36...60       | 8,5               | ■                                       | 142         | 6 000         | -20...+65         | 40 000 / 22 500                                            | 67 500                                                                 | ③                                                          |       |
| min.<br>max.             | RER 160-28/18 NTD... | 66       | 39              | 48            | 38...57           | —                                       | 2,0         | 800           | -20...+70         | 55 000 / 27 500                                            | 92 500                                                                 | ①                                                          |       |
|                          |                      | 354      | 98              | 48            | 38...57           | 7,4                                     | 43,0        | 4 200         | -20...+70         | 55 000 / 27 500                                            | 92 500                                                                 | ②                                                          |       |

Subject to alternations

Model RER 160-28/18 NTD... is available in customer-specific, custom-developed variant only.  
The data specified here are technically feasible benchmark values. The fans can be specially adapted to your application with signal outputs and control inputs.  
\* The specific service life is valid when an external capacitor is wired between the plus and minus wires.  
Please note the wiring suggestion.



The air flow and noise level of the centrifugal fans without external housing depend on their individual installation conditions. The stated air flow and noise level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 260 x 260 mm.  
Cover plate 260 x 260 mm, with an air inlet opening Ø 100 mm, arranged concentrically to the impeller.





max. 800 m<sup>3</sup>/h  
**S-Force**

## DC centrifugal fans

Series REF 175 TD Ø 175 x 55 mm

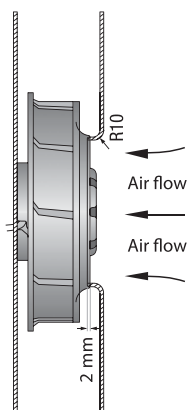


- **Material:** Impeller: Galvanised sheet steel
  - **Direction of air flow:** Axial: Intake, Centrifugal: Exhaust
  - **Direction of rotation:** Clockwise, seen on rotor
  - **Connection:** Via single wires AWG 18, 20 or AWG 22, TR 64, speed signal and control input AWG 22
  - **Highlights:** 3-phase fan drive with very smooth running and high efficiency  
Backwards-curved impeller
  - **Mass:** 930 g
- 1) Fibreglass-reinforced plastic
- **Possible special versions:** (See chapter DC fans - specials)
    - Speed signal
    - Go / No-go alarm
    - Alarm with limit speed
    - External temperature sensor
    - Internal temperature sensor
    - PWM control input
    - Analogue control input
    - Multi-option control input
    - Protection against moisture
    - Type of protection: IP 54

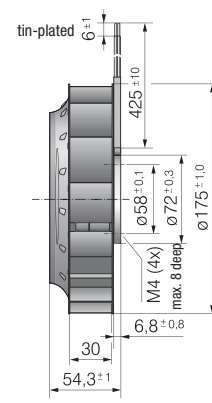
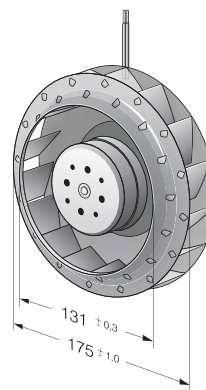
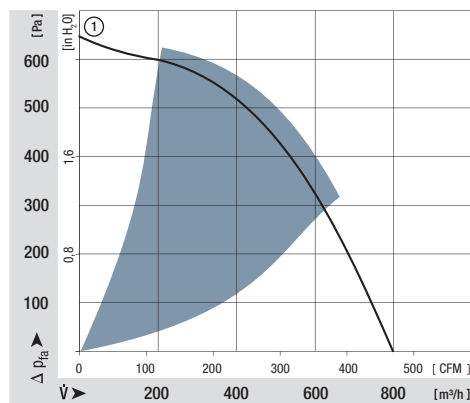
| Nominal data        | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|---------------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      | ①     |
| REF 175-30/18/2 TDP | 800               | 470      | 48              | 36 ... 72     | 8,3               | ■                                       | 144         | 4 400         | -20...+60         | 65 000 / 37 500                                            |                                                                        | 110 000                                                    | ①     |

Subject to alternations

Speed control range from 800 rpm at 7 % PWM up to nominal speed at > 90 % PWM. Standstill at 0 % PWM, standstill if control cable is interrupted.



The air flow and noise level of the centrifugal fans without external housing depend on their individual installation conditions. The stated air flow and noise level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 180 x 180 mm.  
Cover plate 180 x 180 mm, with an air inlet opening Ø 125,5 mm, arranged concentrically to the impeller.



max. 980 m<sup>3</sup>/h  
**S-Force**

## DC centrifugal fans

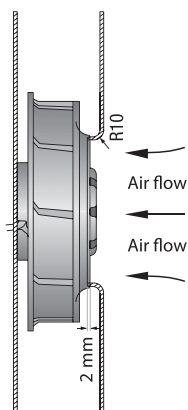
Series RER 175 TD Ø 175 x 69 mm



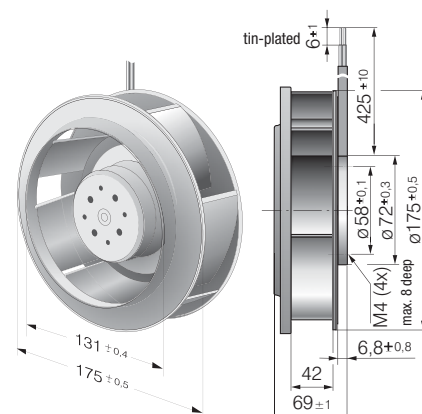
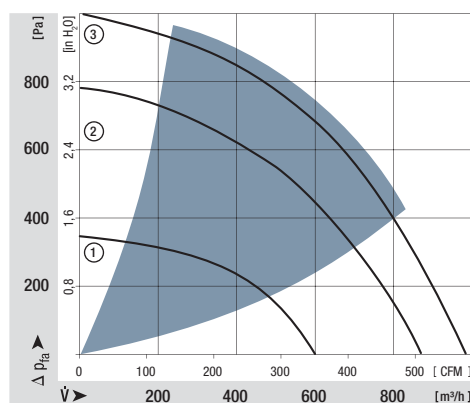
- **Material:** Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 18, 20 or AWG 22, TR 64, speed signal and control input AWG 22
- **Highlights:** 3-phase fan drive with very smooth running and high efficiency  
Backwards-curved impeller
- **Mass:** 775 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Multi-option control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54

1) Fibreglass-reinforced plastic

| Nominal data                                                                                                                                      | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                                                                                                                                              | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RER 175-42/14/2 TDMLP                                                                                                                             | 600               | 353      | 24              | 16...30       | 7,3               | ■                                       | 48          | 3 400         | -20...+65         | 72 500 / 40 000                                            | 122 500                                                                | ①                                                          |       |
| RER 175-42/14/2 TDMP                                                                                                                              | 865               | 509      | 24              | 16...36       | 8,2               | ■                                       | 110         | 4 800         | -20...+65         | 70 000 / 40 000                                            | 117 500                                                                | ②                                                          |       |
| RER 175-42/18/2 TDMLP                                                                                                                             | 600               | 353      | 48              | 36...57       | 7,3               | ■                                       | 46          | 3 400         | -20...+65         | 72 500 / 40 000                                            | 122 500                                                                | ①                                                          |       |
| RER 175-42/18/2 TDMP*                                                                                                                             | 865               | 509      | 48              | 36...72       | 8,2               | ■                                       | 110         | 4 800         | -20...+65         | 70 000 / 40 000                                            | 117 500                                                                | ②                                                          |       |
| RER 175-42/18/2 TDP                                                                                                                               | 980               | 577      | 48              | 36...72       | 8,5               | ■                                       | 166         | 5 400         | -20...+65         | 60 000 / 32 500                                            | 102 500                                                                | ③                                                          |       |
| * vorläufig<br>Subject to alterations                                                                                                             |                   |          |                 |               |                   |                                         |             |               |                   |                                                            |                                                                        |                                                            |       |
| Speed control range from 800 rpm at 7 % PWM up to nominal speed at > 90 % PWM. Standstill at 0 % PWM, standstill if control cable is interrupted. |                   |          |                 |               |                   |                                         |             |               |                   |                                                            |                                                                        |                                                            |       |



The air flow and noise level of the centrifugal fans without external housing depend on their individual installation conditions. The stated air flow and noise level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 180 x 180 mm. Cover plate 180 x 180 mm, with an air inlet opening Ø 125,5 mm, arranged concentrically to the impeller.



max. 970 m<sup>3</sup>/h  
**S-Force**

# DC centrifugal fans

Series RER 190 TD Ø 190 x 69 mm



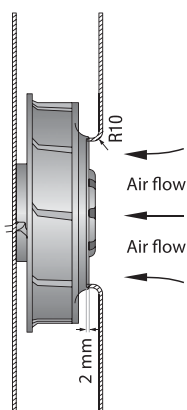
- **Material:** Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake, Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 18, 20 or AWG 22, TR 64, speed signal and control input AWG 22
- **Highlights:** 3-phase fan drive with very smooth running and high efficiency  
Backwards-curved RadiCal impeller
- **Mass:** 870 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Multi-option control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54

1) Fibreglass-reinforced plastic

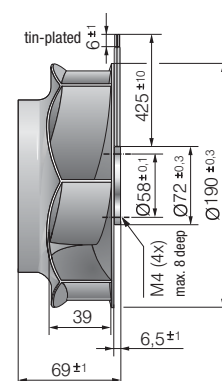
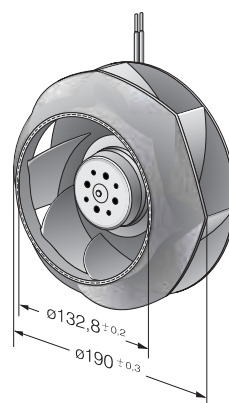
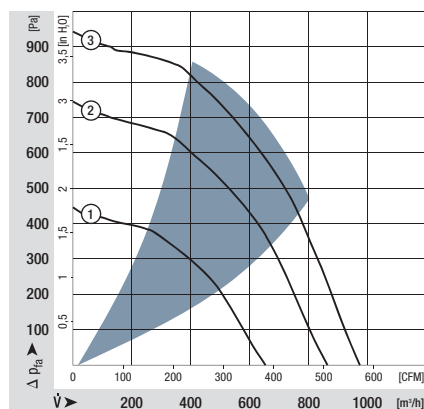
| Nominal data           | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|------------------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                   | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RER 190-39/14/2 TDMLO  | 650               | 382      | 24              | 16...30       | 7,6               | ■                                       | 58          | 3 000         | -20...+60         | 55 000 / 35 000                                            |                                                                        | 92 500                                                     | ①     |
| RER 190-39/14/2 TDMO   | 860               | 506      | 24              | 16...36       | 7,9               | ■                                       | 110         | 3 900         | -20...+65         | 52 500 / 30 000                                            |                                                                        | 87 500                                                     | ②     |
| RER 190-39/18/2 TDMLO* | 650               | 382      | 48              | 36...57       | 7,6               | ■                                       | 56          | 3 000         | -20...+65         | 55 000 / 30 000                                            |                                                                        | 92 500                                                     | ①     |
| RER 190-39/18/2 TDMO*  | 860               | 506      | 48              | 36...72       | 7,9               | ■                                       | 105         | 3 900         | -20...+65         | 52 500 / 30 000                                            |                                                                        | 87 500                                                     | ②     |
| RER 190-39/18/2 TDO    | 970               | 571      | 48              | 36...72       | 8,3               | ■                                       | 148         | 4 400         | -20...+65         | 40 000 / 22 500                                            |                                                                        | 67 500                                                     | ③     |

\* Auf Anfrage  
Subject to alterations

Speed control range from 800 rpm at 7 % PWM up to nominal speed at > 90 % PWM. Standstill at 0 % PWM, standstill if control cable is interrupted.



The air flow and noise level of the centrifugal fans without external housing depend on their individual installation conditions. The stated air flow and noise level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 195 x 195 mm.  
Cover plate 195 x 195 mm, with an air inlet opening Ø 125,5 mm, arranged concentrically to the impeller.





max. 930 m<sup>3</sup>/h

# DC centrifugal fans – RadiCal

Ø 190 mm



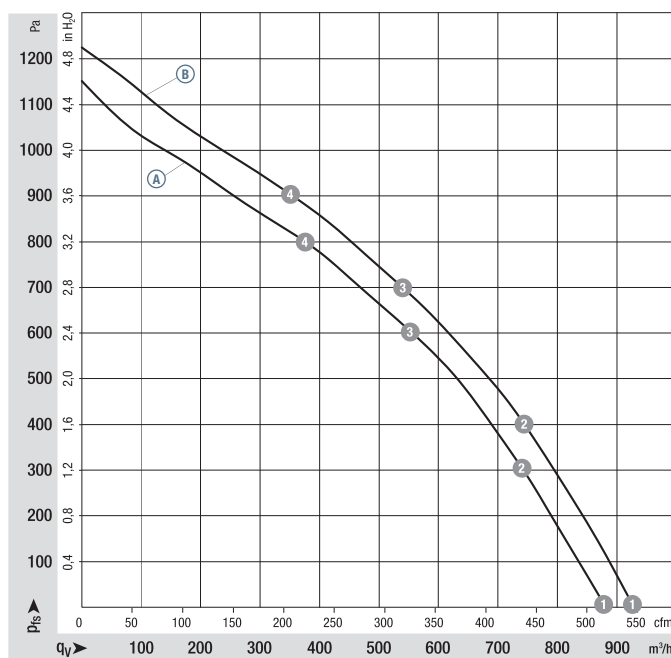
- **Material:** Impeller: Plastic PA  
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44, depending on installation and position
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Operation mode:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

## Nominal data

| Type           | Motor      | Curve | Nominal voltage<br>VDC | Voltage range<br>VDC | Air flow<br>m <sup>3</sup> /h | Speed / rpm | Input power<br>W | Current draw<br>A | Sound power level<br>dB(A) | Perm. amb. temp.<br>°C | Technical features and<br>electrical connections |
|----------------|------------|-------|------------------------|----------------------|-------------------------------|-------------|------------------|-------------------|----------------------------|------------------------|--------------------------------------------------|
| <b>R3G 190</b> | M3G 074-CF | Ⓐ     | 24                     | 16-28                | 880                           | 4570        | 180              | 7,50              | 76                         | -25..+60               | p. 258 / J5)                                     |
| <b>R3G 190</b> | M3G 074-CF | Ⓑ     | 48                     | 36-57                | 930                           | 4800        | 192              | 4,00              | 76                         | -25..+60               | p. 258 / J5)                                     |

Subject to alternations

## Curve:



Air performance measured as per: ISO 5801, Installation category A, with ebm-papst inlet nozzle without protection against accidental contact. Suction-side noise levels: LWA as per ISO 13347, LpA measured at 1 m distance to fan axis. The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation. With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted! For detailed information see <http://www.ebmpapst.com/general-conditions>

- **Technical features:** See electrical connections p. 258
- **Cable exit:** Variabel
- **Product conforming to standards:** EN 60950-1
- **Approvals:** GOST



Mass  
centrifugal fans



Centrifugal fans

kg

Inlet nozzle

R3G 190-RN38 -01

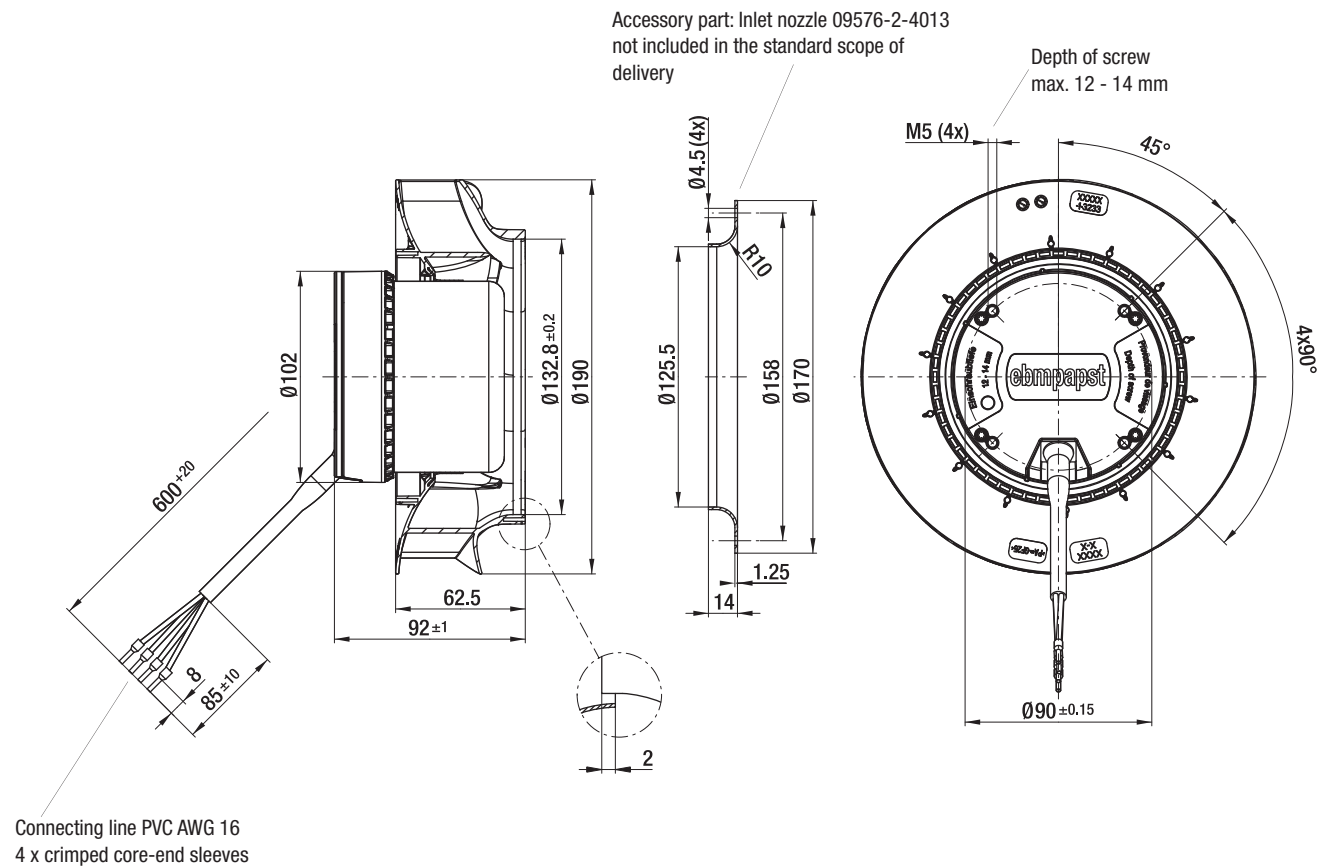
1,9

09576-2-4013

R3G 190-RN99 -02

1,9

09576-2-4013





max. 1210 m³/h

## DC centrifugal fans – RadiCal

Ø 220 mm



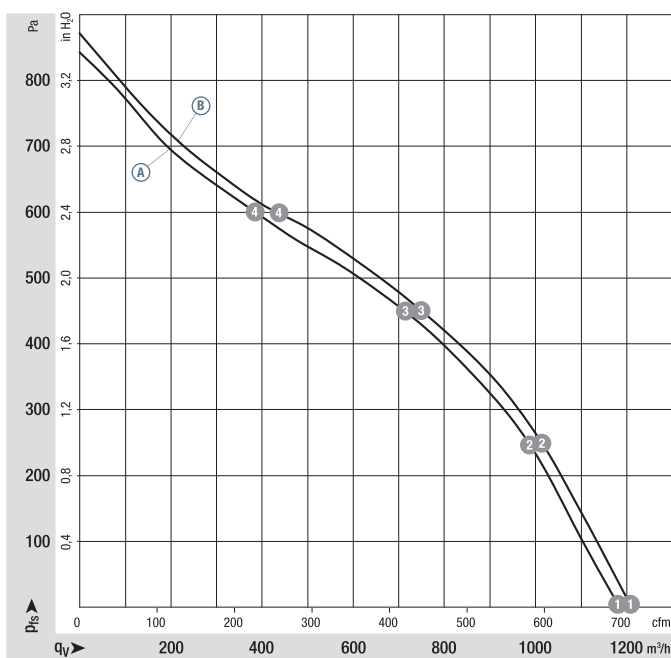
- **Material:** Impeller: Plastic PA  
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44, depending on installation and position
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Operation mode:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

### Nominal data

| Type           | Motor      | Curve | Nominal voltage<br>VDC | Voltage range<br>VDC | Air flow<br>m³/h | Speed / rpm | Input power<br>W | Current draw<br>A | Sound power level<br>dB(A) | Perm. amb. temp.<br>°C | Technical features and<br>electrical connections |
|----------------|------------|-------|------------------------|----------------------|------------------|-------------|------------------|-------------------|----------------------------|------------------------|--------------------------------------------------|
| <b>R3G 220</b> | M3G 074-CF | Ⓐ     | 24                     | 16-28                | 1185             | 3480        | 162              | 6,75              | 73                         | -25...+60              | p. 258 / J5)                                     |
| <b>R3G 220</b> | M3G 074-CF | Ⓑ     | 48                     | 36-57                | 1210             | 3510        | 160              | 3,40              | 73                         | -25...+60              | p. 258 / J5)                                     |

Subject to alternations

Curve:



Air performance measured as per: ISO 5801, Installation category A, with ebm-papst inlet nozzle without protection against accidental contact. Suction-side noise levels: L<sub>WA</sub> as per ISO 13347, L<sub>pA</sub> measured at 1 m distance to fan axis. The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation. With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted! For detailed information see <http://www.ebmpapst.com/general-conditions>



- **Technical features:** See electrical connections p. 258
- **Cable exit:** Variabel
- **Product conforming to standards:** EN 60950-1
- **Approvals:** GOST



Mass  
centrifugal fans



Centrifugal fans

kg

Inlet nozzle

R3G 220-RN12 -01

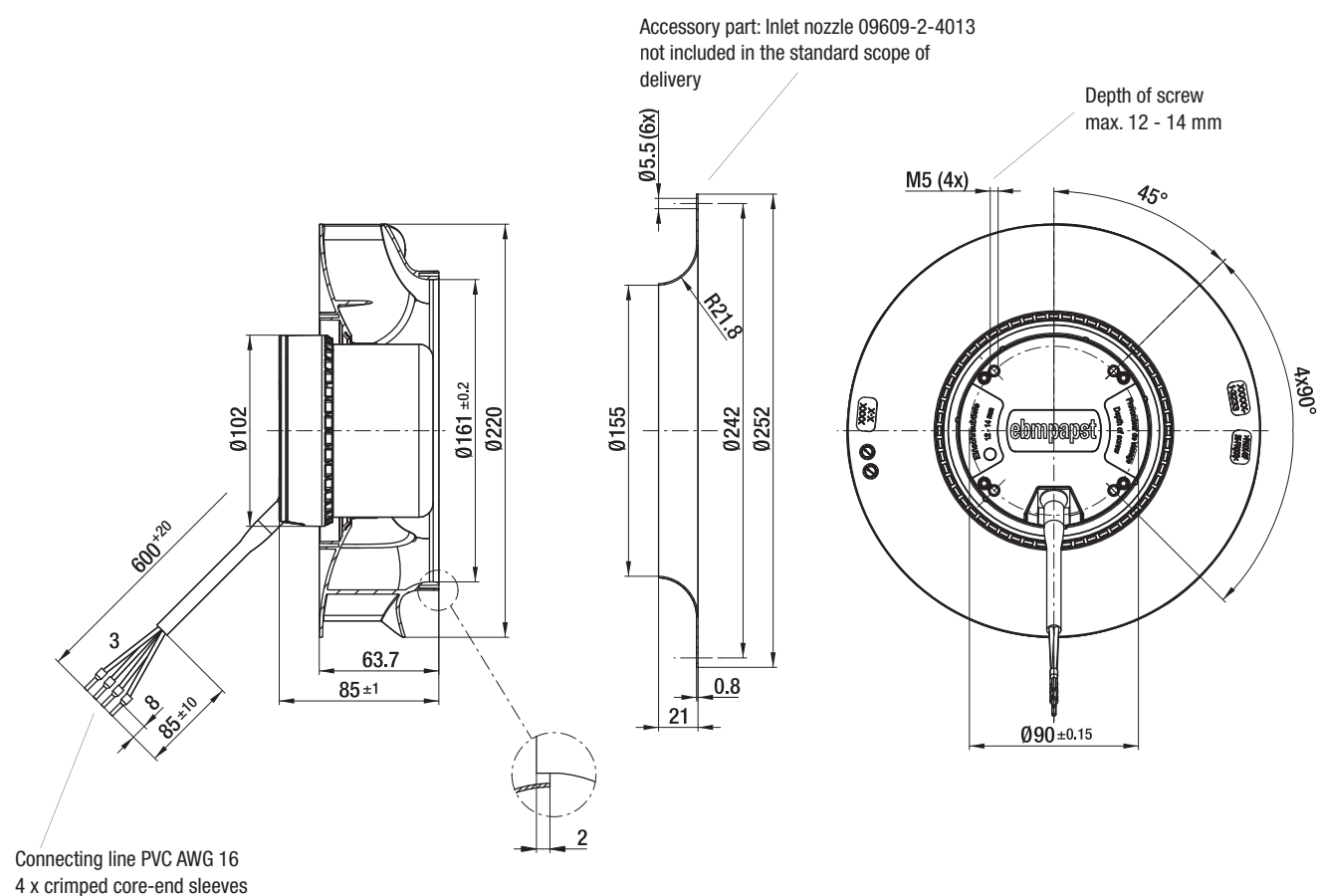
1,9

09609-2-4013

R3G 220-RNB6 -02

1,9

09609-2-4013



max. 1280 m<sup>3</sup>/h  
**S-Force**

## DC centrifugal fans

Series RER 220 TD Ø 221 x 71 mm



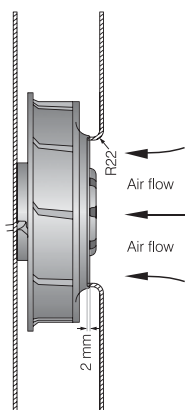
- **Material:** Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 18, 20 or AWG 22, TR 64, speed signal and control input AWG 22
- **Highlights:** 3-phase fan drive with very smooth running and high efficiency  
Backwards-curved impeller
- **Mass:** 940 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Multi-option control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54

1) Fibreglass-reinforced plastic

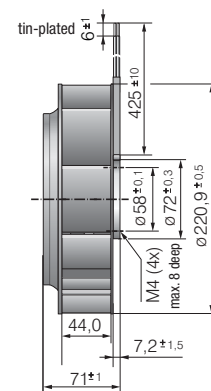
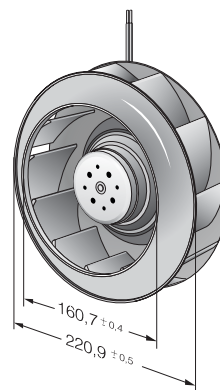
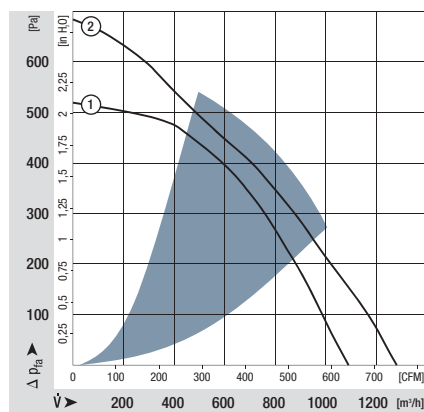
| Nominal data          | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|-----------------------|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                  | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■/■                                     | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| RER 220-44/14/2 TDM0* | 1090              | 641      | 24              | 16...36       | 7,7               | ■                                       | 82          | 3 000         | -20...+55         | 75 000 / 52 500                                            | 127 500                                                                | ①                                                          |       |
| RER 220-44/18/2 TDM0* | 1090              | 641      | 48              | 36...72       | 7,7               | ■                                       | 80          | 3 000         | -20...+55         | 75 000 / 52 500                                            | 127 500                                                                | ①                                                          |       |
| RER 220-44/18/2 TDP   | 1280              | 753      | 48              | 36...72       | 8,0               | ■                                       | 140         | 3 500         | -20...+55         | 55 000 / 40 000                                            | 92 500                                                                 | ②                                                          |       |

\* upon request  
Subject to alternations

Speed control range from 800 rpm at 7 % PWM up to nominal speed at > 90 % PWM. Standstill at 0 % PWM, standstill if control cable is interrupted.



The air flow and noise level of the centrifugal fans without external housing depend on their individual installation conditions. The stated air flow and noise level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 230 x 230 mm.  
Cover plate 230 x 230 mm, with an air inlet opening Ø 155 mm, arranged concentrically to the impeller.



max. 1600 m<sup>3</sup>/h  
**S-Force**

## DC centrifugal fans

Series RER 225 TD Ø 225 x 99 mm



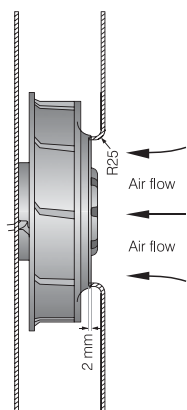
- **Material:** Impeller: GRP<sup>1)</sup>
- **Direction of air flow:** Axial: Intake  
Centrifugal: Exhaust
- **Direction of rotation:** Clockwise, seen on rotor
- **Connection:** Via single wires AWG 18, 20 or AWG 22, TR 64, speed signal and control input AWG 22
- **Highlights:** 3-phase fan drive with very smooth running and high efficiency  
Backwards-curved impeller
- **Mass:** 1030 g
- **Possible special versions:** (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Multi-option control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54

1) Fibreglass-reinforced plastic

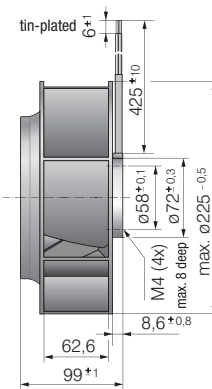
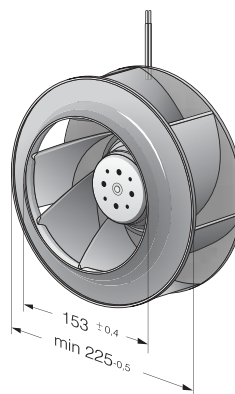
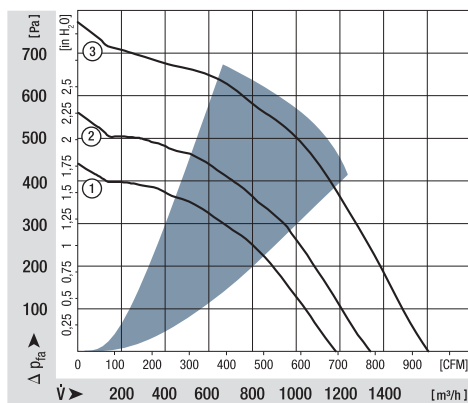
| Nominal data              |  | Air flow          | Air flow | Nominal voltage | Voltage range | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range | Service life L <sub>10</sub> (40 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (T <sub>max</sub> )<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|---------------------------|--|-------------------|----------|-----------------|---------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|-------|
| Type                      |  | m <sup>3</sup> /h | CFM      | VDC             | VDC           | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours                                                      | Hours                                                                  | Hours                                                      |       |
| NEW RER 225-63/18/2 TDMLO |  | 1190              | 700      | 48              | 36...72       | 7,2               | ■                                       | 77          | 2 500         | -20...+55         | 70 000 / 50 000                                            | 122 500                                                                | ①                                                          |       |
| NEW RER 225-63/18/2 TDMO  |  | 1340              | 789      | 48              | 36...72       | 7,8               | ■                                       | 108         | 2 800         | -20...+55         | 55 000 / 40 000                                            | 92 500                                                                 | ②                                                          |       |
| NEW RER 225-63/18/2 TDO   |  | 1600              | 941      | 48              | 36...72       | 8,1               | ■                                       | 163         | 3 300         | -20...+55         | 52 500 / 37 500                                            | 87 500                                                                 | ③                                                          |       |

Subject to alternations

Speed control range from 800 rpm at 7 % PWM up to nominal speed at > 90 % PWM. Standstill at 0 % PWM, standstill if control cable is interrupted.



The air flow and noise level of the centrifugal fans without external housing depend on their individual installation conditions. The stated air flow and noise level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 230 x 230 mm. Cover plate 230 x 230 mm, with an air inlet opening Ø 146 mm, arranged concentrically to the impeller.



max. 1400 m³/h

## DC centrifugal fans – RadiCal

Ø 225 mm



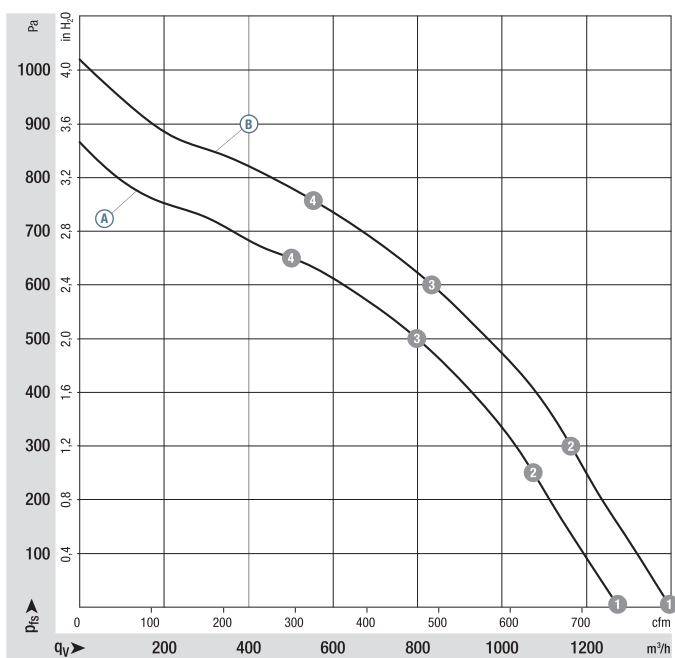
- **Material:** Impeller: Plastic PA  
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44, depending on installation and position
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Operation mode:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

### Nominal data

| Type           | Motor      | Curve | Nominal voltage<br>VDC | Voltage range<br>VDC | Air flow<br>m³/h | Speed / rpm | Input power<br>W | Current draw<br>A | Sound power level<br>dB(A) | Perm. amb. temp.<br>°C | Technical features and<br>electrical connections |
|----------------|------------|-------|------------------------|----------------------|------------------|-------------|------------------|-------------------|----------------------------|------------------------|--------------------------------------------------|
| <b>R3G 225</b> | M3G 074-CF | Ⓐ     | 24                     | 16-28                | 1275             | 3240        | 200              | 8,30              | 75                         | -25...+60              | p. 258 / J5)                                     |
| <b>R3G 225</b> | M3G 074-CF | Ⓑ     | 48                     | 36-57                | 1400             | 3500        | 245              | 5,00              | 73                         | -25...+60              | p. 258 / J5)                                     |

Subject to alternations

Curve:



|     | n<br>rpm | P <sub>ed</sub><br>W | I<br>A | L <sub>WA</sub><br>dB(A) |
|-----|----------|----------------------|--------|--------------------------|
| Ⓐ ① | 3240     | 200                  | 8,30   | 81                       |
| Ⓐ ② | 3200     | 208                  | 8,66   | 78                       |
| Ⓐ ③ | 3185     | 213                  | 8,88   | 74                       |
| Ⓐ ④ | 3260     | 194                  | 8,02   | 77                       |
| Ⓑ ① | 3500     | 245                  | 5,00   | 83                       |
| Ⓑ ② | 3440     | 257                  | 5,35   | 80                       |
| Ⓑ ③ | 3435     | 260                  | 5,43   | 76                       |
| Ⓑ ④ | 3500     | 239                  | 4,97   | 78                       |

Air performance measured as per: ISO 5801, Installation category A, with ebm-papst inlet nozzle without protection against accidental contact. Suction-side noise levels: LWA as per ISO 13347, LpA measured at 1 m distance to fan axis. The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation. With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted! For detailed information see <http://www.ebmpapst.com/general-conditions>

- **Technical features:** See electrical connections p. 258
- **Cable exit:** Variabel
- **Product conforming to standards:** EN 60950-1
- **Approvals:** GOST



Mass  
centrifugal fans



Centrifugal fans

kg

Inlet nozzle

R3G 225-RN28 -01

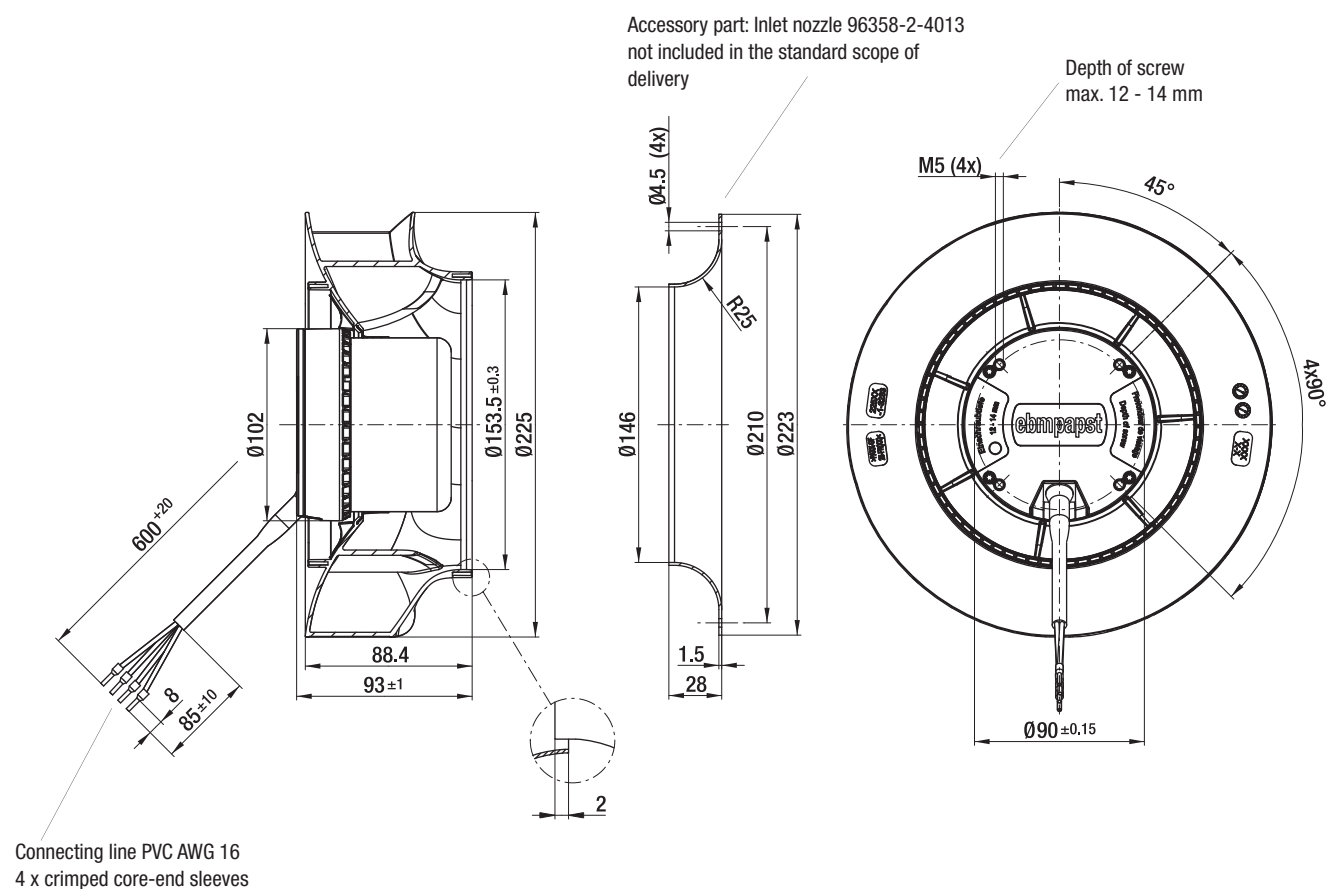
2,1

96358-2-4013

R3G 225-RN18 -02

2,1

96358-2-4013



max. 1650 m³/h

## DC centrifugal fans – RadiCal

Ø 250 mm



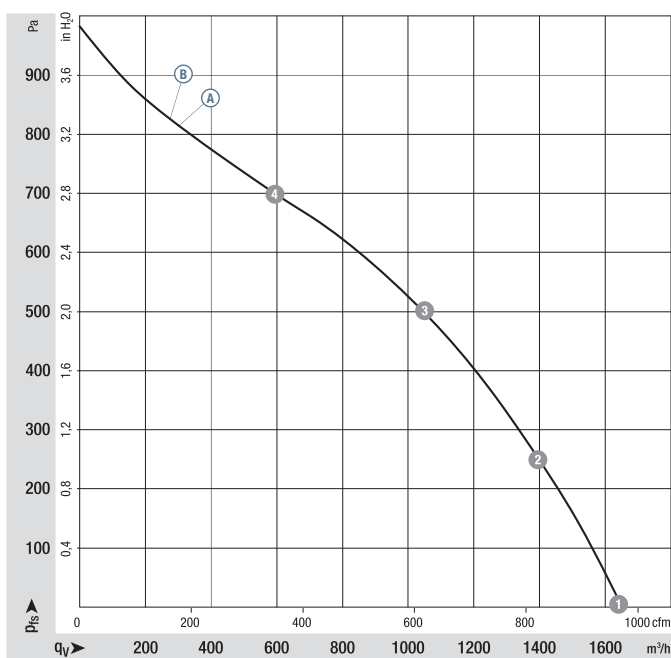
- **Material:** Impeller: Plastic PA  
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44, depending on installation and position
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Operation mode:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

### Nominal data

| Type           | Motor      | Curve | Nominal voltage<br>VDC | Voltage range<br>VDC | Air flow<br>m³/h | Speed / rpm | Input power<br>W | Current draw<br>A | Sound power level<br>dB(A) | Perm. amb. temp.<br>°C | Technical features and<br>electrical connections |
|----------------|------------|-------|------------------------|----------------------|------------------|-------------|------------------|-------------------|----------------------------|------------------------|--------------------------------------------------|
| <b>R3G 250</b> | M3G 074-CF | Ⓐ     | 24                     | 16-28                | 1650             | 3140        | 236              | 9,80              | 73                         | -25...+60              | p. 258 / J5)                                     |
| <b>R3G 250</b> | M3G 074-CF | Ⓑ     | 48                     | 36-57                | 1640             | 3125        | 230              | 4,75              | 73                         | -25...+60              | p. 258 / J5)                                     |

Subject to alternations

Curve:



|     | n<br>rpm | P <sub>ed</sub><br>W | I<br>A | L <sub>WA</sub><br>dB(A) |
|-----|----------|----------------------|--------|--------------------------|
| Ⓐ ① | 3140     | 236                  | 9,80   | 81                       |
| Ⓐ ② | 3075     | 260                  | 10,80  | 77                       |
| Ⓐ ③ | 3035     | 276                  | 11,45  | 75                       |
| Ⓐ ④ | 3095     | 256                  | 10,66  | 75                       |
| Ⓑ ① | 3125     | 230                  | 4,75   | 81                       |
| Ⓑ ② | 3065     | 249                  | 5,20   | 77                       |
| Ⓑ ③ | 3025     | 266                  | 5,55   | 75                       |
| Ⓑ ④ | 3090     | 244                  | 5,09   | 78                       |

Air performance measured as per: ISO 5801, Installation category A, with ebm-papst inlet nozzle without protection against accidental contact. Suction-side noise levels: LWA as per ISO 13347, LpA measured at 1 m distance to fan axis. The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation. With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted! For detailed information see <http://www.ebmpapst.com/general-conditions>

- **Technical features:** See electrical connections p. 258
- **Cable exit:** Variabel
- **Product conforming to standards:** EN 60950-1
- **Approvals:** GOST

Mass  
centrifugal fans

Centrifugal fans

kg

Inlet nozzle

R3G 250-RN46 -01

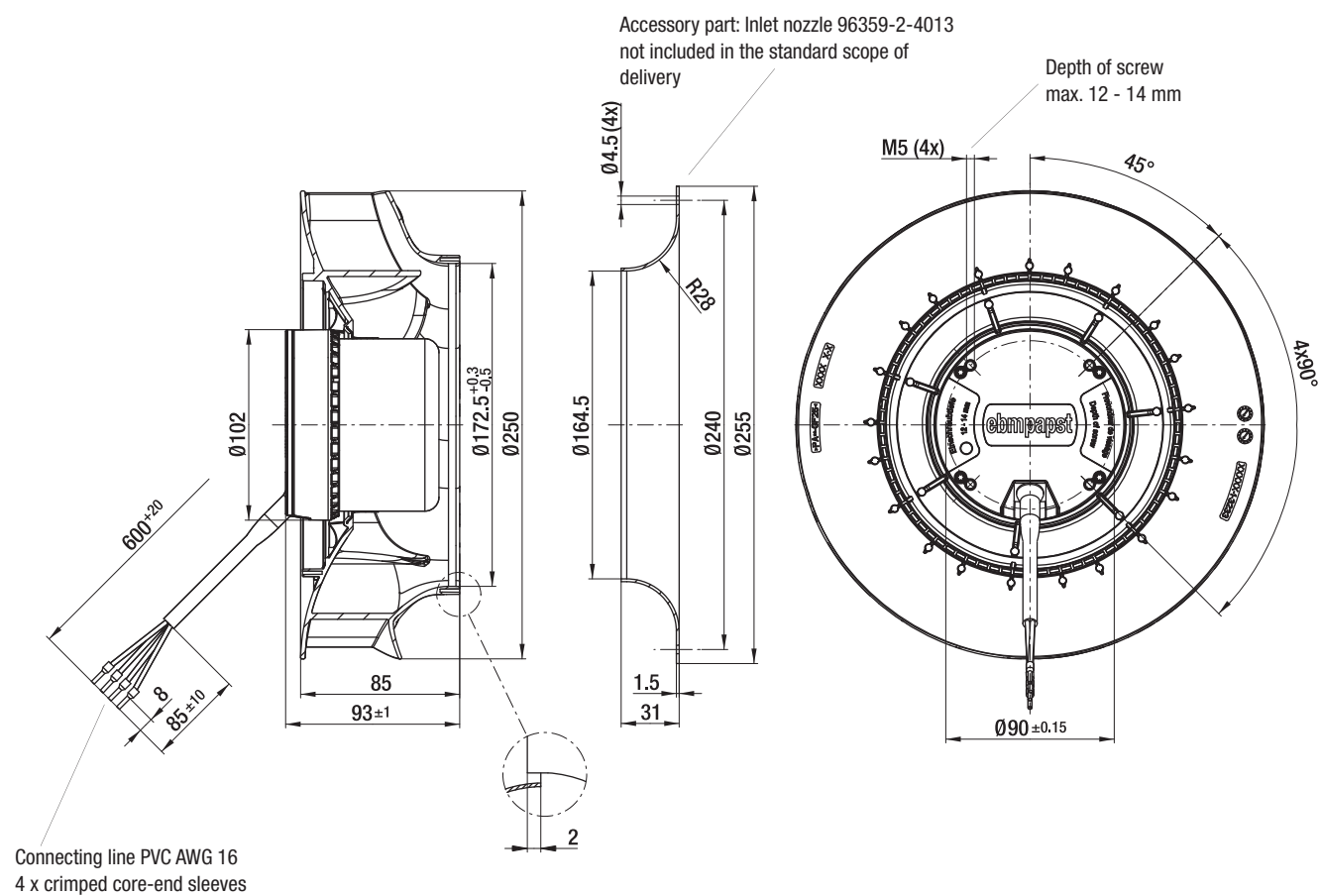
2,1

96359-2-4013

R3G 250-RN85 -02

2,1

96359-2-4013





max. 2210 m³/h

## DC centrifugal fans – RadiCal

Ø 280 mm



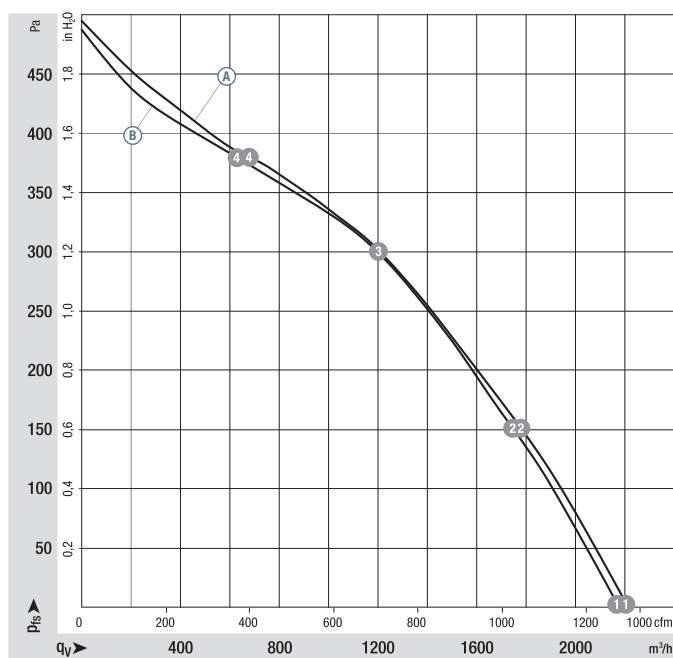
- **Material:** Impeller: Plastic PP  
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44, depending on installation and position
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Operation mode:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

### Nominal data

| Type           | Motor      | Curve | Nominal voltage<br>VDC | Voltage range<br>VDC | Air flow<br>m³/h | Speed / rpm | Input power<br>W | Current draw<br>A | Sound power level<br>dB(A) | Perm. amb. temp.<br>°C | Technical features and<br>electrical connections |
|----------------|------------|-------|------------------------|----------------------|------------------|-------------|------------------|-------------------|----------------------------|------------------------|--------------------------------------------------|
| <b>R3G 280</b> | M3G 074-CF | Ⓐ     | 24                     | 16-28                | 2210             | 1930        | 148              | 6,10              | 67                         | -25...+60              | p. 258 / J5)                                     |
| <b>R3G 280</b> | M3G 074-CF | Ⓑ     | 48                     | 36-57                | 2175             | 1910        | 140              | 2,90              | 67                         | -25...+60              | p. 258 / J5)                                     |

Subject to alternations

### Curve:



|     | n<br>rpm | P <sub>ed</sub><br>W | I<br>A | L <sub>WA</sub><br>dB(A) |
|-----|----------|----------------------|--------|--------------------------|
| Ⓐ ① | 1930     | 148                  | 6,10   | 74                       |
| Ⓐ ② | 1870     | 162                  | 6,76   | 67                       |
| Ⓐ ③ | 1840     | 173                  | 7,21   | 64                       |
| Ⓐ ④ | 1905     | 153                  | 6,36   | 68                       |
| Ⓑ ① | 1910     | 140                  | 2,90   | 74                       |
| Ⓑ ② | 1845     | 158                  | 3,30   | 67                       |
| Ⓑ ③ | 1830     | 163                  | 3,40   | 64                       |
| Ⓑ ④ | 1900     | 141                  | 2,93   | 68                       |

Air performance measured as per: ISO 5801, Installation category A, with ebm-papst inlet nozzle without protection against accidental contact. Suction-side noise levels: LWA as per ISO 13347, LpA measured at 1 m distance to fan axis. The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation. With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted! For detailed information see <http://www.ebmpapst.com/general-conditions>

- **Technical features:** See electrical connections p. 258
- **Cable exit:** Variabel
- **Product conforming to standards:** EN 60950-1
- **Approvals:** GOST

Mass  
centrifugal fans

## Centrifugal fans

kg

Inlet nozzle

R3G 280-RN30 -01

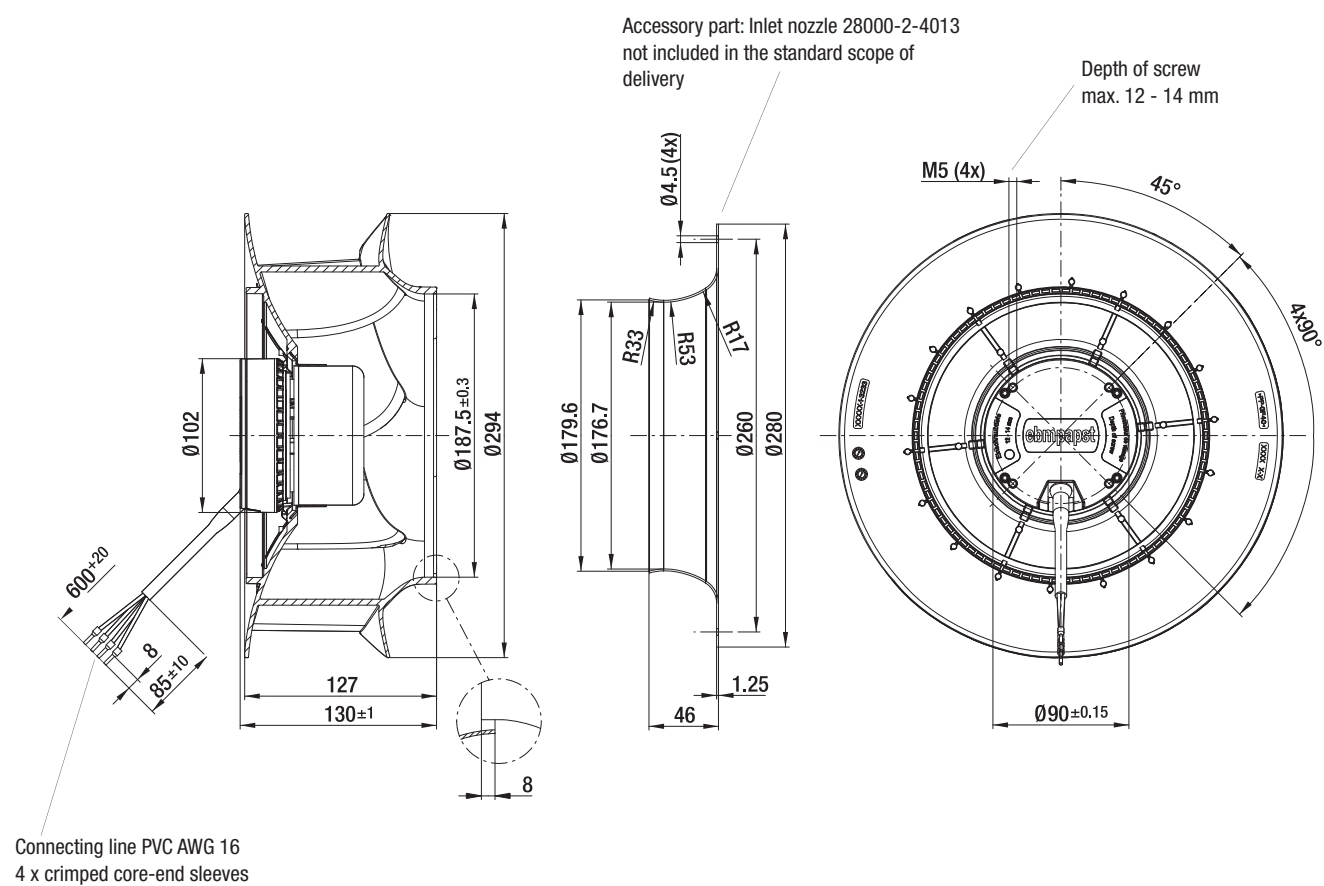
2,4

28000-2-4013

R3G 280-RNB1 -02

2,4

28000-2-4013



max. 2420 m³/h

# DC centrifugal fans – RadiCal

Ø 310 mm



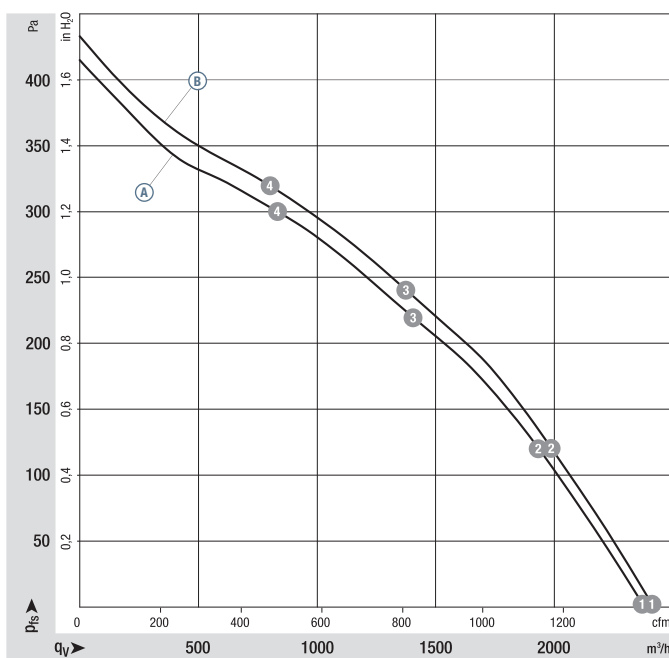
- **Material:** Impeller: Plastic PP  
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44, depending on installation and position
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Operation mode:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

## Nominal data

| Type           | Motor      | Curve | Nominal voltage<br>VDC | Voltage range<br>VDC | Air flow<br>m³/h | Speed / rpm | Input power<br>W | Current draw<br>A | Sound power level<br>dB(A) | Perm. amb. temp.<br>°C | Technical features and<br>electrical connections |
|----------------|------------|-------|------------------------|----------------------|------------------|-------------|------------------|-------------------|----------------------------|------------------------|--------------------------------------------------|
| <b>R3G 310</b> | M3G 074-CF | Ⓐ     | 24                     | 16-28                | 2380             | 1625        | 122              | 5,00              | 64                         | -25...+60              | p. 258 / J5)                                     |
| <b>R3G 310</b> | M3G 074-CF | Ⓑ     | 48                     | 36-57                | 2420             | 1650        | 123              | 2,60              | 64                         | -25...+60              | p. 258 / J5)                                     |

Subject to alternations

## Curve:



|     | n<br>rpm | P <sub>ed</sub><br>W | I<br>A | L <sub>WA</sub><br>dB(A) |
|-----|----------|----------------------|--------|--------------------------|
| Ⓐ ① | 1625     | 122                  | 5,00   | 70                       |
| Ⓐ ② | 1540     | 145                  | 6,03   | 67                       |
| Ⓐ ③ | 1520     | 152                  | 6,34   | 63                       |
| Ⓐ ④ | 1550     | 143                  | 5,95   | 65                       |
| Ⓑ ① | 1650     | 123                  | 2,60   | 70                       |
| Ⓑ ② | 1570     | 147                  | 3,07   | 66                       |
| Ⓑ ③ | 1545     | 156                  | 3,26   | 63                       |
| Ⓑ ④ | 1580     | 144                  | 3,01   | 66                       |

Air performance measured as per: ISO 5801, Installation category A, with ebm-papst inlet nozzle without protection against accidental contact. Suction-side noise levels: LWA as per ISO 13347, LpA measured at 1 m distance to fan axis. The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation. With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted! For detailed information see <http://www.ebmpapst.com/general-conditions>

- **Technical features:** See electrical connections p. 258
- **Cable exit:** Variabel
- **Product conforming to standards:** EN 60950-1
- **Approvals:** GOST



Mass  
centrifugal fans



Centrifugal fans

kg

Inlet nozzle

R3G 310-RN99 -01

2,8

31000-2-4013

R3G 310-RN98 -02

2,8

31000-2-4013

