

REF 100-11/12

# DC centrifugal compact fan

single inlet



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## Nominal data

| Type                     | REF 100-11/12     |         |
|--------------------------|-------------------|---------|
| Nominal voltage          | VDC               | 12      |
| Nominal voltage range    | VDC               | 8 .. 15 |
| Speed                    | min <sup>-1</sup> | 5400    |
| Power input              | W                 | 7.5     |
| Min. ambient temperature | °C                | -20     |
| Max. ambient temperature | °C                | 75      |
| Air flow                 | m <sup>3</sup> /h | 86      |
| Sound power level        | B                 | 6.3     |

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



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## Technical features

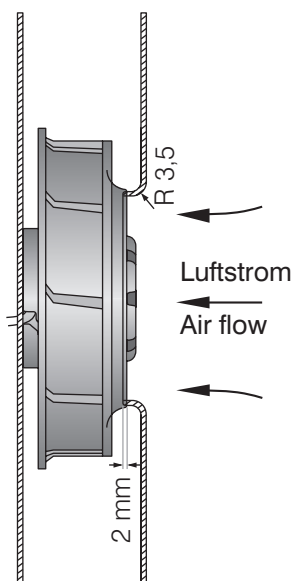
|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimensions</b>                          | 100 Ø x 25 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>General description</b>                 | <p>Particular design features:</p> <p>Pressure-optimised blower.</p> <p>Very flat and high-performance centrifugal fan.</p> <p>Optional Vario-Pro: Highly flexible software configuration for the fan ensures an easily customisable solution to meet the individual requirements of your application.</p> <p>Backward curved impeller.</p> <p>General features:</p> <p>Impeller made of fibreglass-reinforced plastic.</p> <p>Electronic commutation completely integrated.</p> <p>Protected against reverse polarity and locking.</p> <p>Direction of air flow radial, direction of rotation, seen on rotor: clockwise.</p> <p>Connection via single strands AWG 22, TR 64, bared and tin-plated.</p> <p>Mass: 160 g.</p> |
| <b>Connection line</b>                     | Single strands AWG 22, TR 64, bared and tin-plated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Locked-rotor protection</b>             | With electronic blocking and overload protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Direction of rotation</b>               | Right, looking at rotor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Direction of air flow</b>               | Axial air intake, centrifugal air exhaust out of the outlet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Bearing</b>                             | Ball bearings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Lifetime L10 at 40 °C</b>               | 80000 h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Lifetime L10 at maximum temperature</b> | 30000 h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Mass</b>                                | 0.160 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Housing material</b>                    | Scroll housing of fiberglass-reinforced plastic.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Material of impeller</b>                | Fiberglass-reinforced plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Motor protection</b>                    | Protected against reverse polarity and locking.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Approval</b>                            | CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



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## Product drawing



## Charts: Air flow

