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**Nominal data**

| Type                     | 3312              |         |
|--------------------------|-------------------|---------|
| Nominal voltage          | VDC               | 12      |
| Nominal voltage range    | VDC               | 6 .. 15 |
| Speed                    | min <sup>-1</sup> | 3000    |
| Power input              | W                 | 2.4     |
| Min. ambient temperature | °C                | -20     |
| Max. ambient temperature | °C                | 75      |
| Air flow                 | m <sup>3</sup> /h | 80      |
| Sound power level        | B                 | 5.2     |
| Sound pressure level     | dB(A)             | 37      |

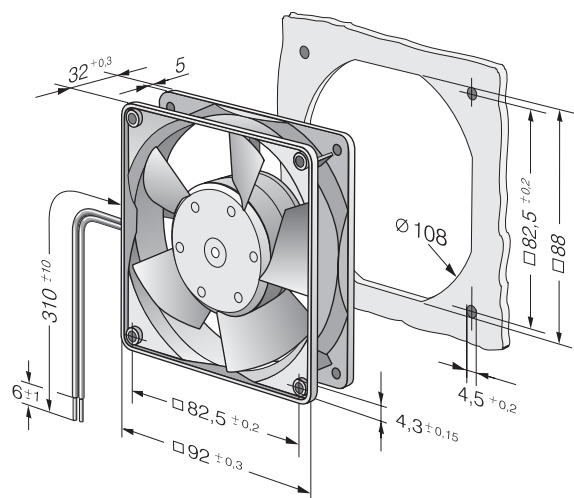
ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations



## Technical features

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimensions</b>                          | 92 x 92 x 32 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>General description</b>                 | <p>Particular design features:</p> <p>Ball bearings and sleeve bearings available.</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>General features:</p> <p>Material: fibreglass-reinforced plastic. Impeller PA, housing PBT.</p> <p>Electronic commutation completely integrated.</p> <p>Protected against reverse polarity and locking.</p> <p>Connection via single strands AWG 22, TR 64, bared and tin-plated.</p> <p>Air exhaust over bars. Rotational direction clockwise looking at rotor.</p> <p>Mass: 190 g.</p> |
| <b>Connection line</b>                     | Single strands AWG 22, TR 64, bared and tin-plated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Direction of rotation</b>               | Right, looking at rotor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Direction of air flow</b>               | Air exhaust over bars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Bearing</b>                             | Ball bearings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Lifetime L10 at 40 °C</b>               | 70000 h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Lifetime L10 at maximum temperature</b> | 30000 h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Mass</b>                                | 0.190 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Housing material</b>                    | Fiberglass-reinforced PBT plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Material of impeller</b>                | Fiberglass-reinforced PA plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Motor protection</b>                    | Protected against reverse polarity and locking.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Approval</b>                            | VDE, CSA, UL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Product drawing



## Charts: Air flow

