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**Nominal data**

| Type                     | 8418 N            |          |
|--------------------------|-------------------|----------|
| Nominal voltage          | VDC               | 48       |
| Nominal voltage range    | VDC               | 36 .. 56 |
| Speed (rpm)              | min <sup>-1</sup> | 3100     |
| Power consumption        | W                 | 2.0      |
| Min. ambient temperature | °C                | -20      |
| Max. ambient temperature | °C                | 70       |
| Air flow                 | m <sup>3</sup> /h | 69       |
| Sound power level        | B                 | 4.7      |
| Sound pressure level     | dB(A)             | 32       |

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change

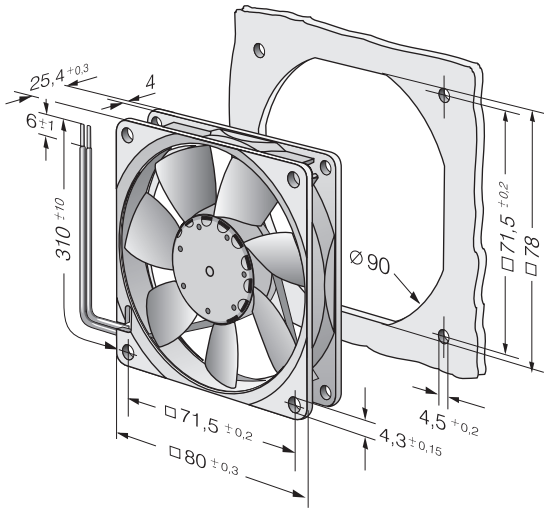


### Technical description

|                                                |                                                                                                                                                                                                                                                               |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Housing material</b>                        | Glass-fiber reinforced PBT plastic                                                                                                                                                                                                                            |
| <b>Impeller material</b>                       | Glass-fiber reinforced PA plastic                                                                                                                                                                                                                             |
| <b>Weight</b>                                  | 0.095 kg                                                                                                                                                                                                                                                      |
| <b>Dimensions</b>                              | 80 x 80 x 25 mm                                                                                                                                                                                                                                               |
| <b>Airflow direction</b>                       | Exhaust over struts                                                                                                                                                                                                                                           |
| <b>Direction of rotation</b>                   | Counterclockwise, viewed toward rotor                                                                                                                                                                                                                         |
| <b>Storage</b>                                 | Ball bearing                                                                                                                                                                                                                                                  |
| <b>Service life L10 at 40 °C</b>               | 70000 h                                                                                                                                                                                                                                                       |
| <b>Service life L10 at maximum temperature</b> | 35000 h                                                                                                                                                                                                                                                       |
| <b>Cable</b>                                   | Leads AWG 24, TR 64, stripped and tin-plated.                                                                                                                                                                                                                 |
| <b>Motor protection</b>                        | Protection against reverse polarity and blocked rotor.                                                                                                                                                                                                        |
| <b>Locked-rotor protection</b>                 | Locked-rotor and overload protection                                                                                                                                                                                                                          |
| <b>Approval</b>                                | VDE, CSA, UL, CE                                                                                                                                                                                                                                              |
| <b>Option</b>                                  | Possible custom designs:<br>Speed signal<br>Go / No-go alarm<br>Alarm with speed limit<br>External temperature sensor<br>Internal temperature sensor<br>PWM control input<br>Analog control input<br>Moisture protection<br>Degree of protection: IP54 / IP68 |



## Product drawing



## Curves: Air performance

