

**ebm-papst St. Georgen GmbH & Co. KG**

Hermann-Papst-Straße 1

D-78112 St. Georgen

Phone +49 7724 81-0

Fax +49 7724 81-1309

info2@de.ebmpapst.com

www.ebmpapst.com

**Nominal data**

| Type                     | 4650 TA           |      |
|--------------------------|-------------------|------|
| Phase                    |                   | 1~   |
| Nominal voltage          | VAC               | 230  |
| Frequency                | Hz                | 50   |
| Speed                    | min <sup>-1</sup> | 2550 |
| Power input              | W                 | 19.0 |
| Min. ambient temperature | °C                | -10  |
| Max. ambient temperature | °C                | 45   |
| Air flow                 | m <sup>3</sup> /h | 138  |
| Sound pressure level     | dB(A)             | 41   |

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



## Technical features

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions                          | 113 Ø x 37 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| General description                 | <p>AC voltage fan with external rotor shaded-pole motor. Protected from overload by impedance protection.</p> <p>Impeller and mounting bracket made of metal.</p> <p>Inlet via mounting bracket. Rotational direction clockwise looking at rotor.</p> <p>Electrical connection to 2 single strands. Strand ends bared and tin-plated.</p> <p>Mass 430 g.</p> <p>Please note our new ACmaxx series. With identical fastening dimensions and voltages, this series achieves higher energy efficiency.</p> |
| Connection line                     | 2 single strands AWG 22, TR 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Direction of rotation               | Right, looking at rotor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Direction of air flow               | Inlet via mounting bracket.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Bearing                             | Sintec sleeve bearing system                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Lifetime L10 at 40 °C               | 37500 h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Lifetime L10 at maximum temperature | 32500 h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Mass                                | 0.430 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Material of impeller                | Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Motor protection                    | Protected from overload using impedance protection                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Approval                            | VDE, CSA, UL, CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

Technical drawing of a fan assembly, showing front and side views with dimensions.

**Front View (Left):**

- Overall width:  $148,2 \pm 0,2$
- Overall height:  $112,5 \pm 0,3$
- Top width:  $16$
- Top radius:  $R4$
- Top hole diameter:  $\varnothing 4,3 \pm 0,15$
- Bottom angle:  $90^\circ$

**Side View (Right):**

- Top width:  $37 \pm 1$
- Top thickness:  $3$
- Top hole diameter:  $\varnothing 0,5 \pm 0,3$
- Bottom thickness:  $6 \pm 1$
- Bottom height:  $375 \pm 10$