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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

County court Stuttgart · HRB 590142

## Nominal data

|                               |                   |      |      |
|-------------------------------|-------------------|------|------|
| Type                          | A2D160-AA22-05    |      |      |
| Motor                         | M2D068-BC         |      |      |
| Phase                         |                   | 3~   | 3~   |
| Nominal voltage               | VAC               | 400  | 480  |
| Connection                    |                   | Y    | Y    |
| Frequency                     | Hz                | 50   | 60   |
| Type of data definition       |                   | cs   | cs   |
| Valid for approval / standard |                   | CE   | CE   |
| Speed                         | min <sup>-1</sup> | 2800 | 3350 |
| Power input                   | W                 | 40   | 52   |
| Current draw                  | A                 | 0.19 | 0.18 |
| Min. ambient temperature      | °C                | -25  | -25  |

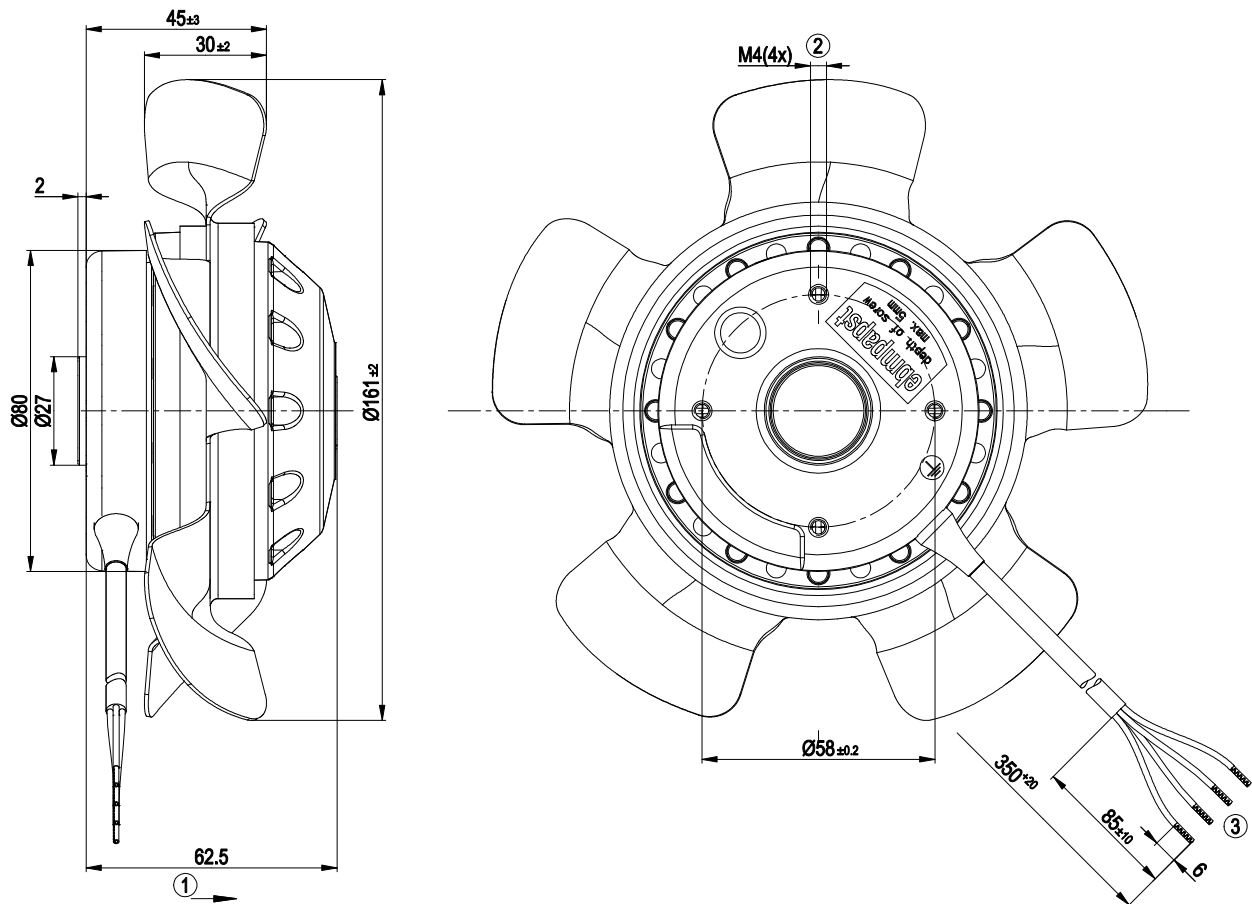
ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations



## Technical features

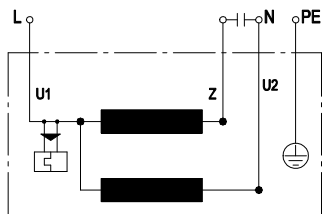
|                                                                    |                                                                 |
|--------------------------------------------------------------------|-----------------------------------------------------------------|
| Mass                                                               | 1.2 kg                                                          |
| Size                                                               | 160 mm                                                          |
| Surface of rotor                                                   | Coated in black                                                 |
| Material of blades                                                 | Sheet steel, galvanised                                         |
| Number of blades                                                   | 5                                                               |
| Direction of air flow                                              | "A"                                                             |
| Direction of rotation                                              | Clockwise, seen on rotor                                        |
| Type of protection                                                 | IP 44; Depending on installation and position as per EN 60034-5 |
| Insulation class                                                   | "F"                                                             |
| Humidity class                                                     | F2-2                                                            |
| Max. permissible ambient motor temp. (transp./ storage)            | + 80 °C                                                         |
| Min. permissible ambient motor temp. (transp./storage)             | - 40 °C                                                         |
| Mounting position                                                  | Shaft horizontal or rotor on bottom; rotor on top on request    |
| Condensate discharge holes                                         | Rotor-side                                                      |
| Operation mode                                                     | S1                                                              |
| Motor bearing                                                      | Ball bearing                                                    |
| Touch current acc. IEC 60990 (measuring network Fig. 4, TN system) | < 0.75 mA                                                       |
| Cable exit                                                         | Lateral                                                         |
| Protection class                                                   | I (if protective earth is connected by customer)                |
| Product conforming to standard                                     | EN 60335-1                                                      |
| Approval                                                           | UL 1004-1; CSA C22.2 Nr.100                                     |

## Product drawing



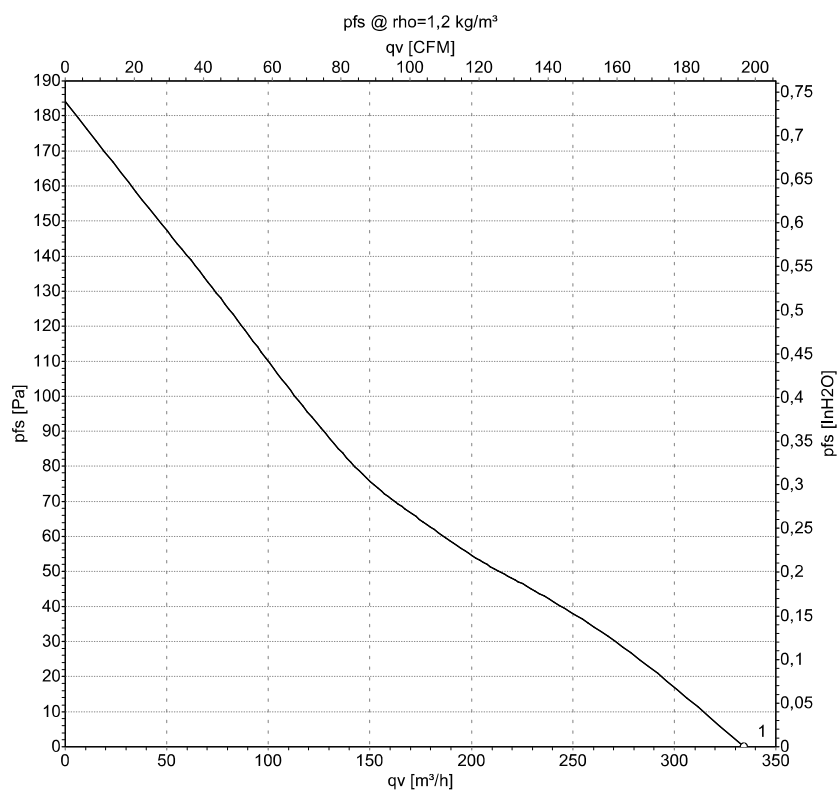
|   |                                                          |
|---|----------------------------------------------------------|
| 1 | Direction of air flow "A"                                |
| 2 | Depth of screw max. 5 mm                                 |
| 3 | Connection line PFA 4G AWG20, 4x brass lead tips crimped |

## Connection screen



|    |              |   |       |    |       |
|----|--------------|---|-------|----|-------|
| U1 | blue         | Z | brown | U2 | black |
| PE | green/yellow |   |       |    |       |

## Charts: Air flow 50 Hz



Measurement: LU-43403

Air performance measured as per ISO 5801  
Installation category A. For detailed  
information on the measuring set-up, please  
contact ebm-papst. Suction-side noise  
levels: LwA measured as per ISO 13347 /  
LpA measured with 1m distance to fan axis.  
The values given are valid under the  
measuring conditions mentioned above and  
may vary according to the actual installation  
situation. With any deviation from the  
standard set-up, the specific values have to  
be checked and reviewed with the unit  
installed.

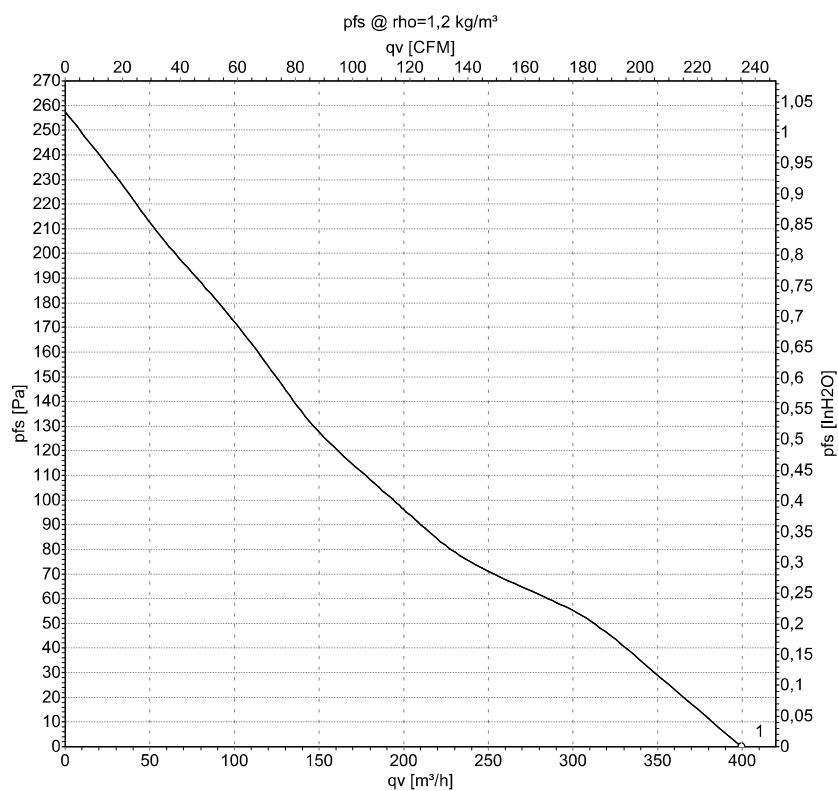
## Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | qv   |
|---|-----|----|-------------------|----------------|------|------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h |
| 1 | 400 | 50 | 2800              | 40             | 0.14 | 335  |

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow



## Charts: Air flow 60 Hz



Measurement: LU-43405

Air performance measured as per ISO 5801  
 Installation category A. For detailed  
 information on the measuring set-up, please  
 contact ebm-papst. Suction-side noise  
 levels: LwA measured as per ISO 13347 /  
 LpA measured with 1m distance to fan axis.  
 The values given are valid under the  
 measuring conditions mentioned above and  
 may vary according to the actual installation  
 situation. With any deviation from the  
 standard set-up, the specific values have to  
 be checked and reviewed with the unit  
 installed.

## Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | qv   |
|---|-----|----|-------------------|----------------|------|------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h |
| 1 | 480 | 60 | 3350              | 52             | 0.15 | 400  |

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow

