

R4E280-AM19-11 ebmpapst Datasheet

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## Nominal data

|                               |                   |         |
|-------------------------------|-------------------|---------|
| Type                          | R4E280-AM19-11    |         |
| Motor                         | M4E068-CF         |         |
| Phase                         |                   | 1~      |
| Nominal voltage               | VAC               | 230     |
| Frequency                     | Hz                | 50      |
| Type of data definition       |                   | cu      |
| Valid for approval / standard |                   | CE      |
| Speed (rpm)                   | min <sup>-1</sup> | 850     |
| Power input                   | W                 | 50      |
| Current draw                  | A                 | 0.22    |
| Motor capacitor               | μF                | 1.5     |
| Capacitor voltage             | VDB               | 400     |
| Capacitor standard            |                   | S2 (CE) |
| Min. back pressure            | Pa                | 0       |
| Min. ambient temperature      | °C                | -25     |
| Max. ambient temperature      | °C                | 60      |
| Starting current              | A                 | 0.25    |

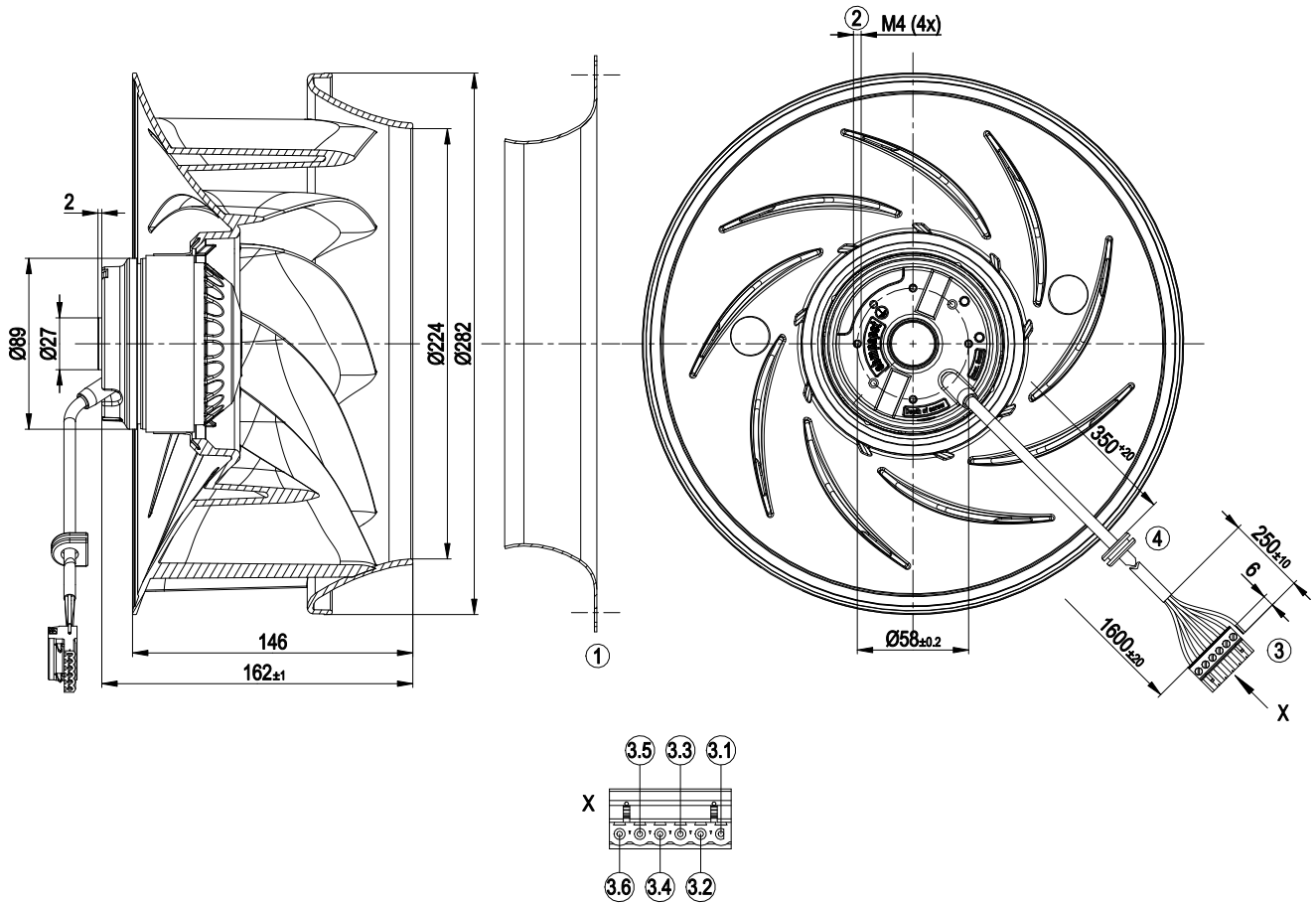
ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit  
Subject to alterations



## Technical features

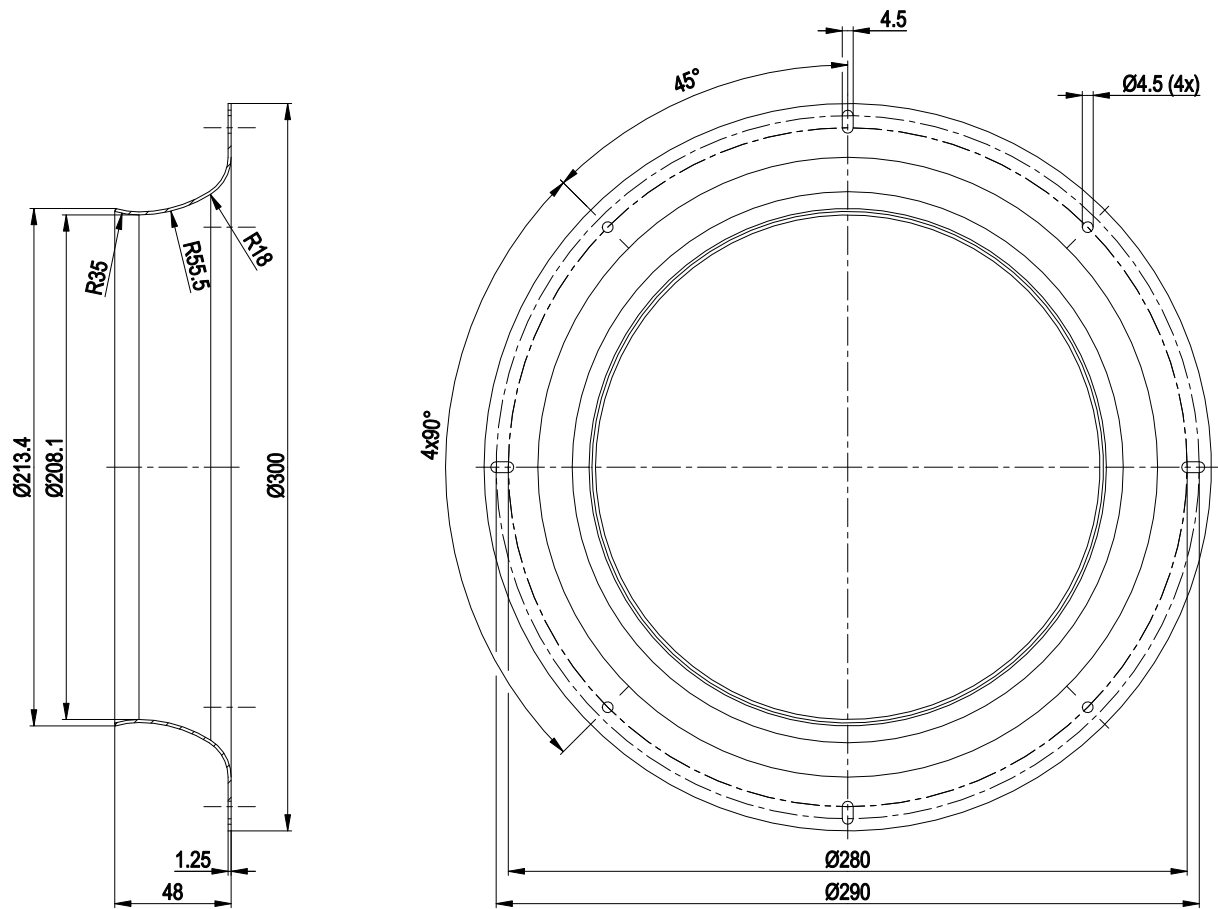
|                                                                    |                                                                 |
|--------------------------------------------------------------------|-----------------------------------------------------------------|
| Mass                                                               | 2.3 kg                                                          |
| Size                                                               | 280 mm                                                          |
| Surface of rotor                                                   | Coated in black                                                 |
| Material of impeller                                               | PA plastic                                                      |
| Number of blades                                                   | 9                                                               |
| Direction of rotation                                              | Counter-clockwise, seen on rotor                                |
| Type of protection                                                 | IP 44; Depending on installation and position as per EN 60034-5 |
| Insulation class                                                   | "B"                                                             |
| Humidity (F)/environmental protection class (H)                    | H0+                                                             |
| 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                                                    |
| Speed steps                                                        | 3                                                               |
| Touch current acc. IEC 60990 (measuring network Fig. 4, TN system) | < 0.75 mA                                                       |
| Motor protection                                                   | Thermal overload protector (TOP) wired internally               |
| Cable exit                                                         | Variable                                                        |
| Protection class                                                   | I (if protective earth is connected by customer)                |
| Product conforming to standard                                     | EN 60335-1; CE                                                  |

## Product drawing



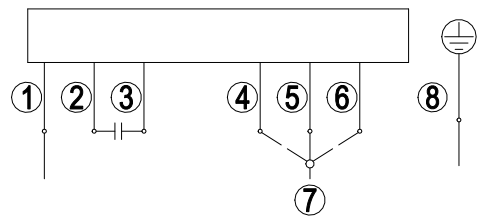
|     |                                                                                                                                     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Accessory part: Inlet nozzle 31050-2-4013 not included in scope of delivery                                                         |
| 2   | Thread reach max. 5 mm                                                                                                              |
| 3   | Connection line PVC 7G 0.5 mm², 1x connector housing Phönix 6-pole 1757051 (MSTB 2.5/6-ST/5.08), 1x lead tip (green/yellow) crimped |
| 3.1 | Red (capacitor)                                                                                                                     |
| 3.2 | white (level 1)                                                                                                                     |
| 3.3 | grey (level 2)                                                                                                                      |
| 3.4 | black (level 3)                                                                                                                     |
| 3.5 | blue (N)                                                                                                                            |
| 3.6 | Orange (capacitor)                                                                                                                  |
| 4   | Grommet 64901-4-7011 EPDM black                                                                                                     |

## Accessory part



Inlet nozzle 31050-2-4013 not included in scope of delivery

Connection screen

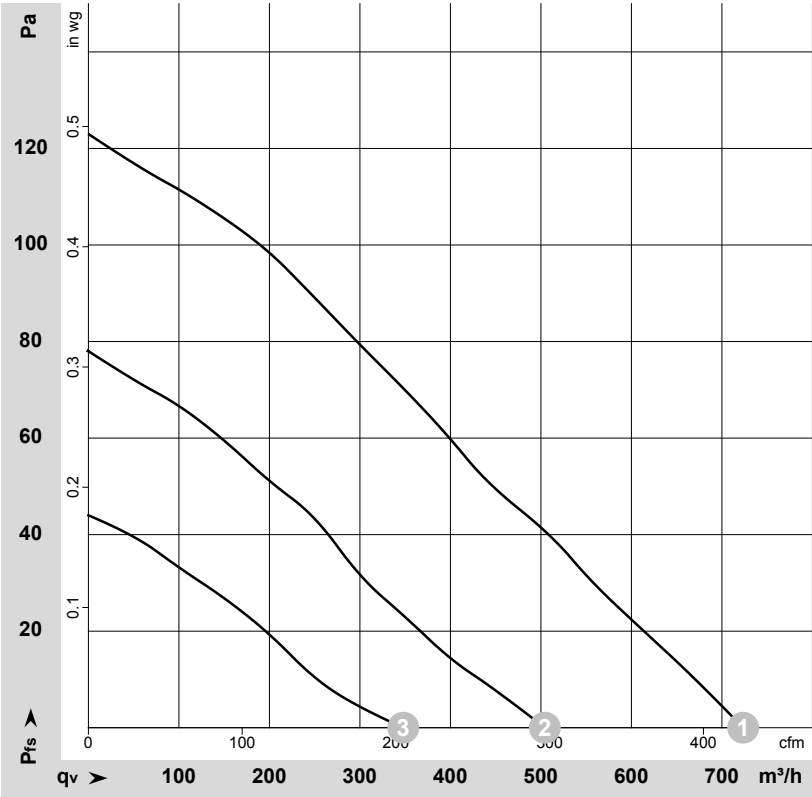


Note: Fast speed (step III); slow speed (step I)

|   |                 |   |                   |   |                    |
|---|-----------------|---|-------------------|---|--------------------|
| 1 | N (blue)        | 2 | Capacitor (red)   | 3 | Capacitor (orange) |
| 4 | Level 1 (white) | 5 | Level 2 (grey)    | 6 | Level 3 (black)    |
| 7 | L1              | 8 | PE (green/yellow) |   |                    |



Charts: Air flow 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-65843-1  
Measurement: LU-65844-1  
Measurement: LU-65845-1

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

|   | Stage | U   | f  | n                 | P <sub>e</sub> | I    | LpA <sub>in</sub> | q <sub>v</sub> | q <sub>v</sub> | P <sub>fs</sub> |
|---|-------|-----|----|-------------------|----------------|------|-------------------|----------------|----------------|-----------------|
|   |       | V   | Hz | min <sup>-1</sup> | W              | A    | dB(A)             | m³/h           | cfm            | inH2O           |
| 1 | 3     | 230 | 50 | 850               | 50             | 0.22 | 44                | 725            | 425            | 0.00            |
| 2 | 2     | 230 | 50 | 610               | 37             | 0.17 | 34                | 505            | 295            | 0.00            |
| 3 | 1     | 230 | 50 | 450               | 29             | 0.14 | 28                | 350            | 205            | 0.00            |

U = Supply voltage · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power input · I = Current draw · LpA<sub>in</sub> = Sound pressure level inlet side · q<sub>v</sub> = Air flow

