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## Nominal data

|                               |                   |         |
|-------------------------------|-------------------|---------|
| Type                          | R4E355-AG02-05    |         |
| Motor                         | M4E074-GA         |         |
| Phase                         |                   | 1~      |
| Nominal voltage               | VAC               | 230     |
| Frequency                     | Hz                | 50      |
| Type of data definition       |                   | fa      |
| Valid for approval / standard |                   | CE      |
| Speed                         | min <sup>-1</sup> | 1430    |
| Power input                   | W                 | 210     |
| Current draw                  | A                 | 0.97    |
| Motor capacitor               | μF                | 7       |
| Capacitor voltage             | VDB               | 400     |
| Capacitor standard            |                   | P0 (CE) |
| Min. back pressure            | Pa                | 0       |
| Max. ambient temperature      | °C                | 30      |
| Starting current              | A                 | 2.6     |

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

## Data according to ErP directive

|                       |        |
|-----------------------|--------|
| Installation category | A      |
| Efficiency category   | Static |
| Variable speed drive  | No     |
| Specific ratio*       | 1.00   |

\* Specific ratio =  $1 + p_g / 100\,000\text{ Pa}$

|                                |                   | Actual | Request 2013 | Request 2015 |
|--------------------------------|-------------------|--------|--------------|--------------|
| Overall efficiency $\eta_{es}$ |                   | 45.4   | 41.4         | 45.4         |
| Efficiency grade N             |                   | 62     | 58           | 62           |
| Power input $P_e$              | kW                | 0.26   |              |              |
| Air flow $q_v$                 | m <sup>3</sup> /h | 1685   |              |              |
| Pressure increase $p_{fs}$     | Pa                | 250    |              |              |
| Speed n                        | min <sup>-1</sup> | 1395   |              |              |

Data definition with optimum efficiency.



# AC centrifugal fan

backward curved, single inlet

## Technical features

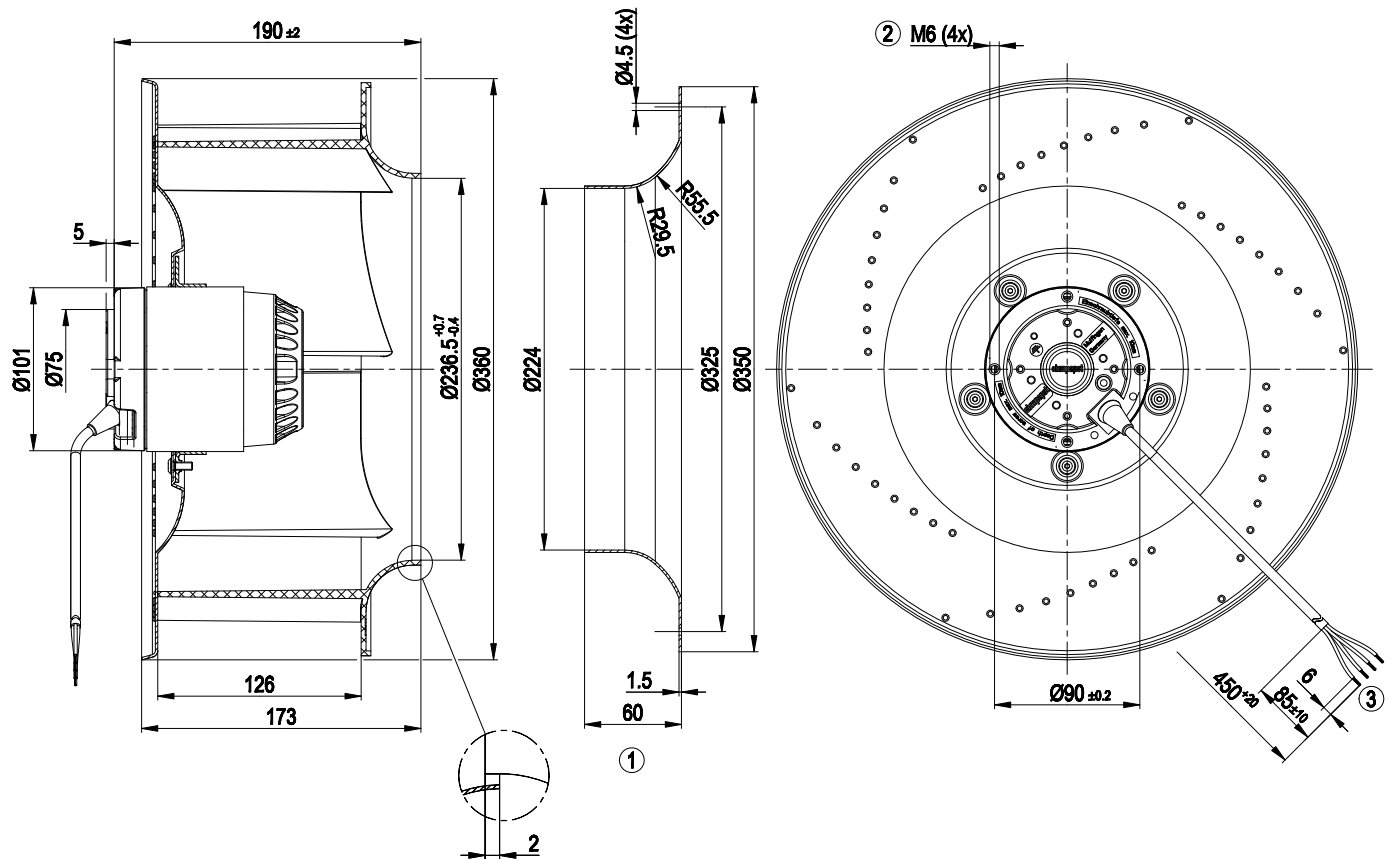
|                                                                    |                                                                 |
|--------------------------------------------------------------------|-----------------------------------------------------------------|
| Mass                                                               | 5.4 kg                                                          |
| Size                                                               | 355 mm                                                          |
| Surface of rotor                                                   | Coated in black                                                 |
| Material of impeller                                               | PP plastic                                                      |
| Number of blades                                                   | 6                                                               |
| Direction of rotation                                              | Clockwise, seen on rotor                                        |
| Type of protection                                                 | IP 44; Depending on installation and position as per EN 60034-5 |
| Insulation class                                                   | "B"                                                             |
| Humidity class                                                     | F1-2                                                            |
| 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                                                       |
| 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                                                  |



# AC centrifugal fan

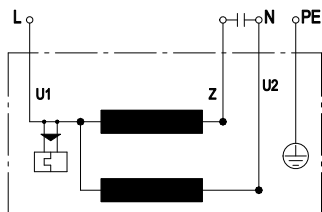
backward curved, single inlet

## Product drawing



- |   |                                                                                           |
|---|-------------------------------------------------------------------------------------------|
| 1 | Accessory part: Inlet nozzle 51357-2-4013, not included in the standard scope of delivery |
| 2 | Depth of screw max. 10 mm                                                                 |
| 3 | Connection line PVC 4G 0.5 mm², 4x brass lead tips crimped                                |

## Connection screen

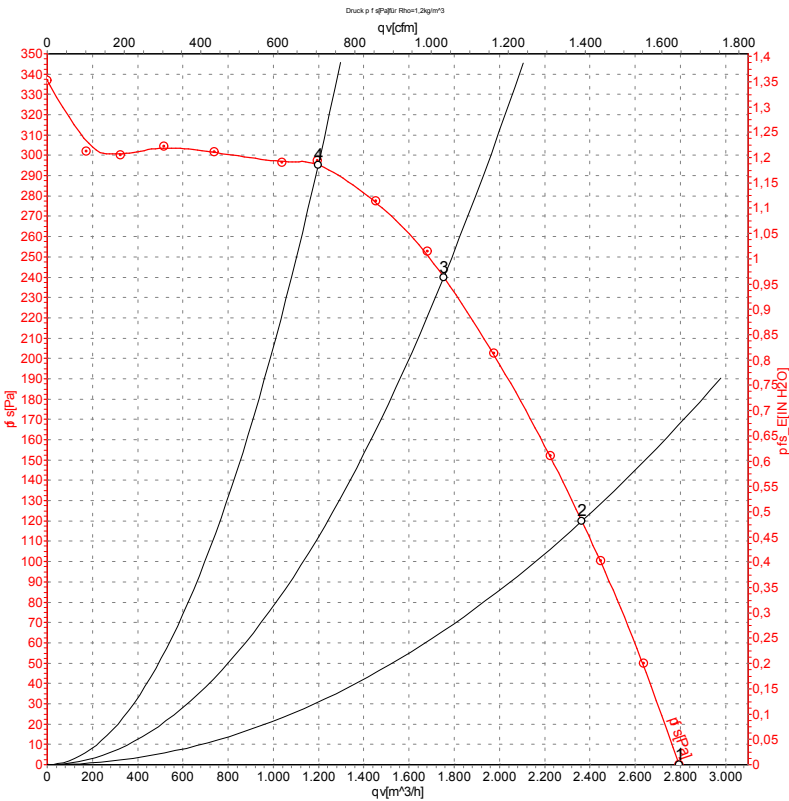


|    |              |   |       |    |       |
|----|--------------|---|-------|----|-------|
| U1 | blue         | Z | brown | U2 | black |
| PE | green/yellow |   |       |    |       |

# AC centrifugal fan

backward curved, single inlet

## Charts: Air flow 50 Hz



Measurement: LU-37971

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: L<sub>WA</sub> measured as per ISO 13347 /  
L<sub>pA</sub> 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   | p <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h | Pa              |
| 1 | 230 | 50 | 1430              | 210            | 0.97 | 2795 | 0               |
| 2 | 230 | 50 | 1415              | 244            | 1.13 | 2365 | 120             |
| 3 | 230 | 50 | 1395              | 268            | 1.22 | 1755 | 240             |
| 4 | 230 | 50 | 1405              | 255            | 1.17 | 1200 | 300             |

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

