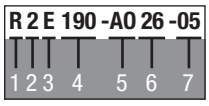
**Headline**

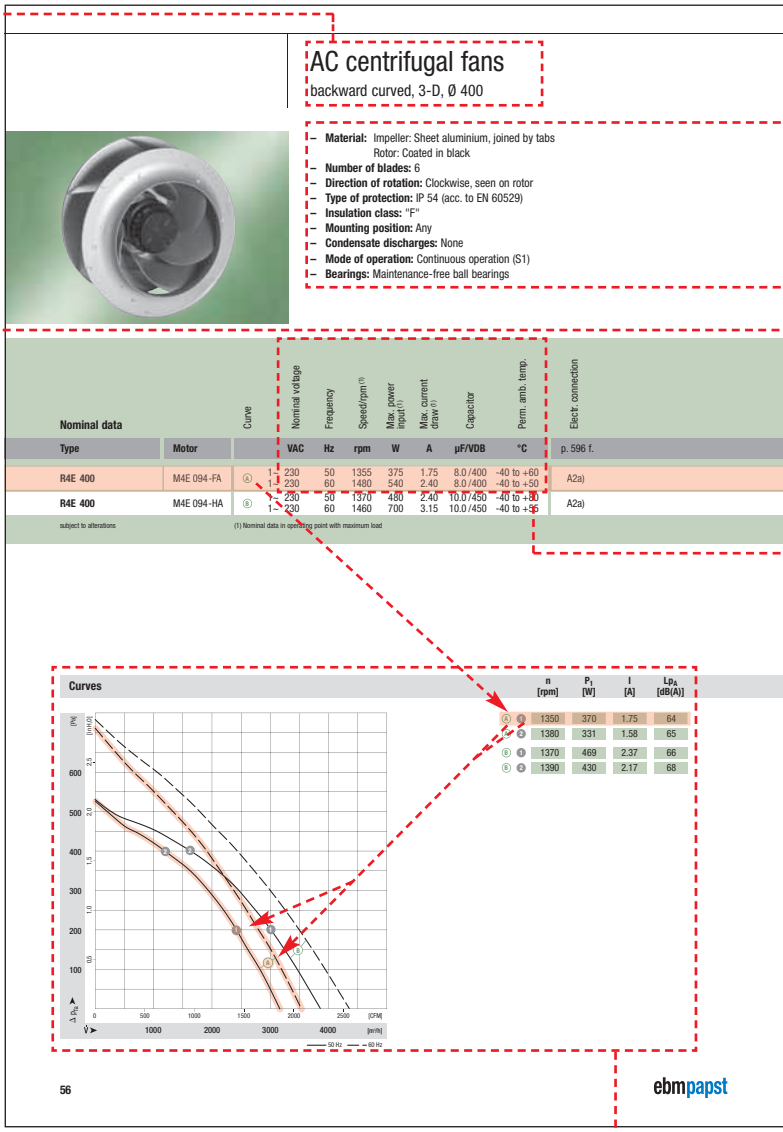
The headline indicates which technology (AC or EC), which design (centrifugal, axial, etc.), and which line (e.g. S-Range) the product belongs to. Impeller diameter or other features are also indicated.

**Part designation / Type**

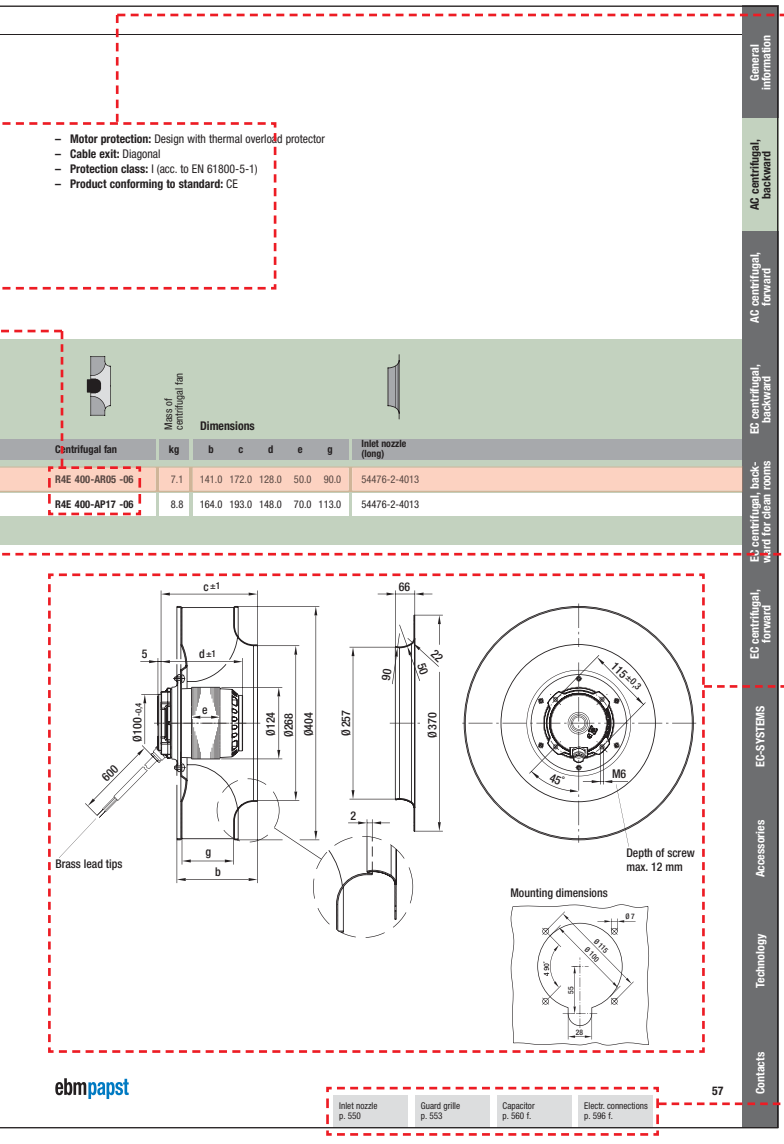



This key designates and identifies all ebm-papst products and serves as part number:

1) Type
   - A - axial fan
   - S - axial fan with guard grille
   - W - axial fan with wall ring
   - V - axial combination
   - R - centrifugal fan, single inlet
   - G - centrifugal blower, single inlet (with scroll housing)
   - B - centrifugal fan, dual inlet
   - D - centrifugal blower, dual inlet (with scroll housing)
   - K - centrifugal combination
   - M - motor
   - P - pumps
2) Number of poles (AC) / number of cores (EC)
   2-, 4-, 6-, 8- and 12-pole (Z = 12) / 1- and 3-core
3) Motor type
   - D - 3-phase motor
   - E - single-phase motor with operating capacitor
   - G - EC motor
   - S - shaded-pole motor
   - Q - square shaded-pole motors
4) Impeller diameter in mm
5) Key for mechanical design
6) Key for electrical design
7) Key for mechanical variants




*What a product page is made up of (reduced scale - 50%)*



– **Motor protection:** Design with thermal overload protector
– **Cable exit:** Diagonal
– **Protection class:** I (acc. to EN 61800-5-1)
– **Product conforming to standard:** CE

| Centrifugal fan | Mass of centrifugal fan kg | Dimensions b | c | d | e | g | Inlet nozzle (long) |
|---|---|---|---|---|---|---|---|
| R4E 400-AR05 -06 | 7.1 | 141.0 | 172.0 | 128.0 | 50.0 | 90.0 | 54476-2-4013 |
| R4E 400-AP17 -06 | 8.8 | 164.0 | 193.0 | 148.0 | 70.0 | 113.0 | 54476-2-4013 |



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Inlet nozzle p. 550 | Guard grille p. 553 | Capacitor p. 560 f. | Electr. connections p. 596 f.



**Product description**

Depending on the product, information is provided here on the following: material, number of blades, direction of air flow, direction of rotation, system of protection, insulation class, mounting position, condensate discharge holes, mode of operation, design, bearing, technical equipment, EMC, leakage current, motor protection, electrical connection, cable exit, protection class, capacitor, product conforming to standards, approvals and options.

**Nominal data**

AC products (up to motor size 074) and EC products (DC-fed):
Free-blowing or at minimal backpressure
AC products (from motor size 094) and EC products (AC-fed):
In operating point at maximum load

**Graphic rendition of products**

All drawings represent the design principle and are not to scale. Dimensions are either given in the product drawing or, with varying dimensions, in the table of dimensions given above the drawing.

**Indication of relevant accessories and additional information**

The pages indicated at the bottom refer to the accessories, e.g. inlet nozzles, guard grilles, wall rings, etc. for this particular product, as well as additional information (e. g. the connection diagram).

**Curves and operating points**

The diagram gives air performance curves pertaining to the product. Refer to the operating point table to the right for information on speed, power consumption, current draw, sound level or sound pressure level and overall efficiency of the impeller.

# AC axial fans 2-pole

## S series, Ø 300

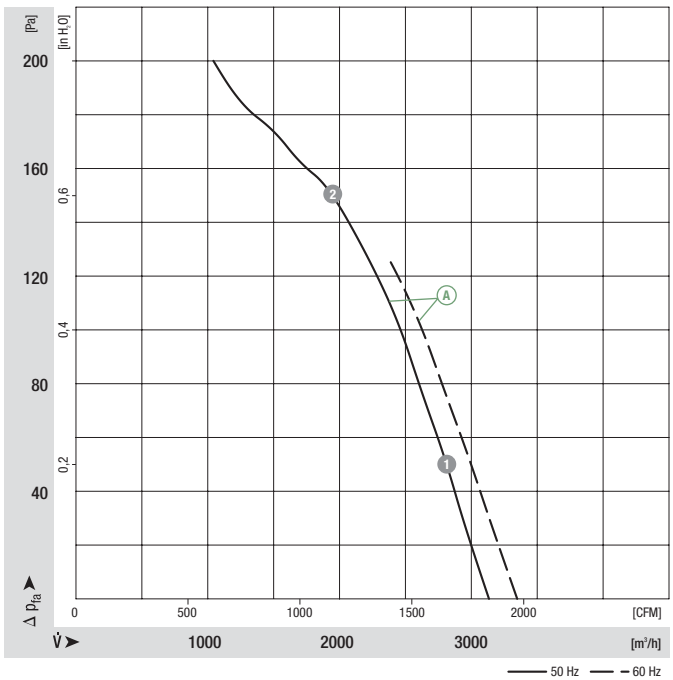
- **Material:** Guard grille: Steel, phosphated and coated in black plastic
  Wall ring: Sheet steel, pre-galvanised and coated in black plastic
  Blades: Sheet steel, coated in black
  Rotor: Coated in black
- **Number of blades:** 5
- **Direction of rotation:** Direction of air flow "V" counter-clockwise, direction of air flow "A" counter-clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Frequency | Air flow | Speed/rpm | Power input | Current draw | Capacitor | Sound pressure level | Max. operative range | Perm. amb. temp. | Mass without attachments | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **m³/h** | **rpm** | **W** | **A** | **µF/VDB** | **dB(A)** | **Pa** | **°C** | **kg** | p. 416 f. |
| ***2D 300** (1) | M2D 074-DF | Ⓐ | 3~ 230/400 | 50 | 3130 | 2580 | 210 | 0.62/0.36 | — | 72 | 200 | -25 to +55 | 3.0 | C1)/C2) |
| | | | 3~ 230/400 | 60 | 3350 | 2750 | 300 | 0.83/0.48 | — | 73 | 125 | -25 to +40 | | |
| ***2E 300** | M2E 074-DF | Ⓑ | 1~ 230 | 50 | 3410 | 2700 | 230 | 1.10 | 8.0/400 | 73 | 200 | -25 to +50 | 3.0 | A1) |
| | | | 1~ 230 | 60 | 3740 | 3000 | 350 | 1.55 | 8.0/400 | 76 | 50 | -25 to +40 | | |

subject to alterations

(1) 230 VAC Δ / 400 VAC Y

## Curves




| | n [rpm] | $P_1$ [W] | I [A] |
|---|---|---|---|
| Ⓐ 1 | 2530 | 228 | 0.68/0.39 |
| Ⓐ 2 | 2400 | 273 | 0.78/0.45 |

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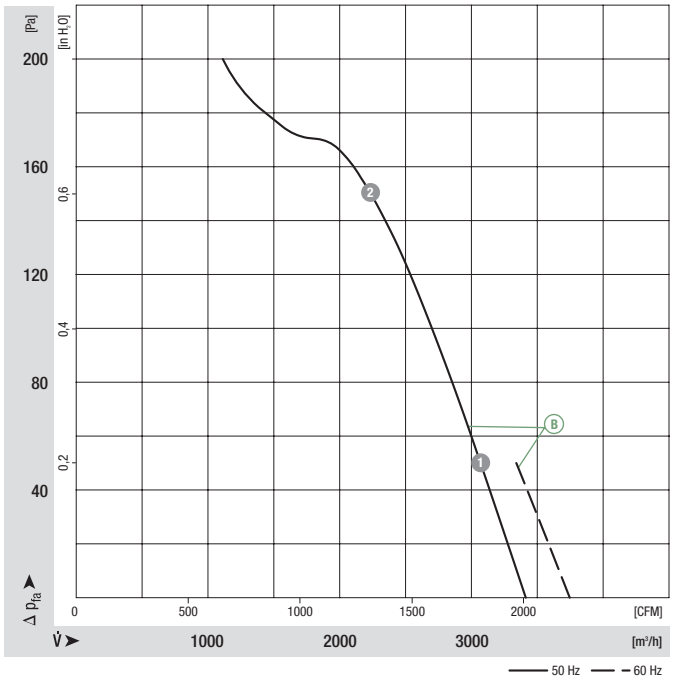
- **Motor protection:** Ⓐ Without TOP, Ⓑ TOP wired internally
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, Ⓑ also CE
- **Approvals:** CCC

Direction of air flow

| | ❮ "V"/"A" ❯ Without attachments | ❮ "V"/"A" ❯ With full round nozzle | ❮ "V"/"A" ❯ With guard grille for full nozzle | ❮ "V"/"A" ❯ With guard grille for short nozzle |
|---|---|---|---|---|
| "V" | A2D 300-AP02 -01 | W2D 300-CP02 -30 | S2D 300-BP02 -30 | S2D 300-AP02 -30 |
| "A" | A2D 300-AP02 -02 | W2D 300-CP02 -31 | S2D 300-BP02 -31 | S2D 300-AP02 -31 |
| "V" | A2E 300-AP02 -01 | W2E 300-CP02 -30 | S2E 300-BP02 -30 | S2E 300-AP02 -30 |
| "A" | A2E 300-AP02 -02 | W2E 300-CP02 -31 | S2E 300-BP02 -31 | S2E 300-AP02 -31 |

## Curves




| | n [rpm] | $P_1$ [W] | I [A] |
|---|---|---|---|
| Ⓑ 1 | 2680 | 252 | 1.11 |
| Ⓑ 2 | 2560 | 290 | 1.27 |

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