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

R 2 E 190 -A0 26 -05
1 2 3 4 5 6 7

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

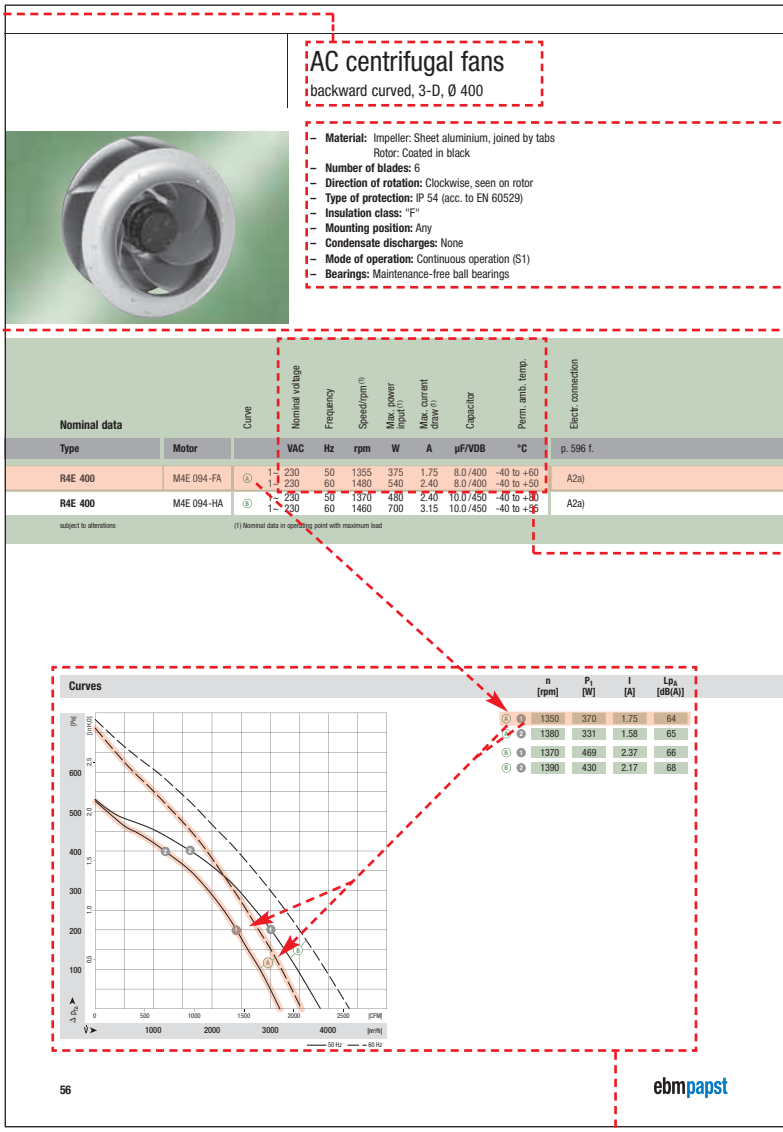
3) Type of motor
- D – 3-phase motor
- E – single-phase motor with capacitor
- G – EC motor
- S – shaded-pole motor
- Q – square shaded-pole motor

4) Impeller diameter in mm

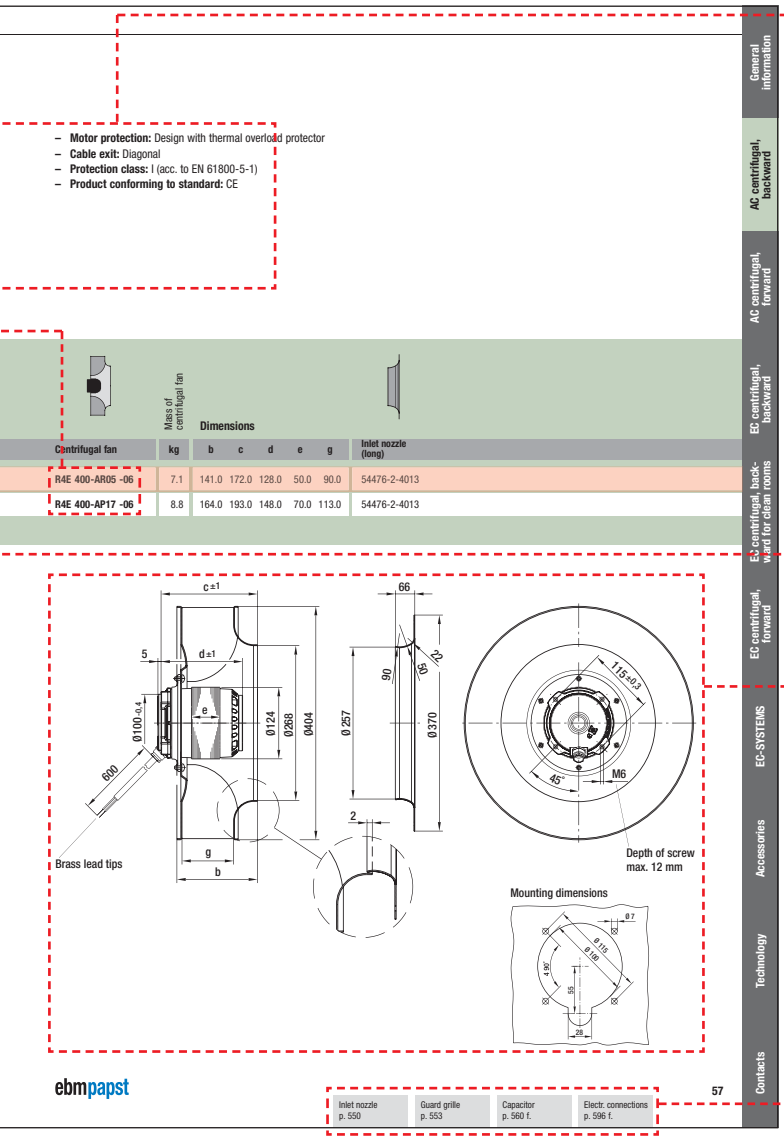
5) Key for mechanical design

6) Key for electrical design

7) Key for mechanical variants



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



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 centrifugal fans

backward curved, 3-D, Ø 310

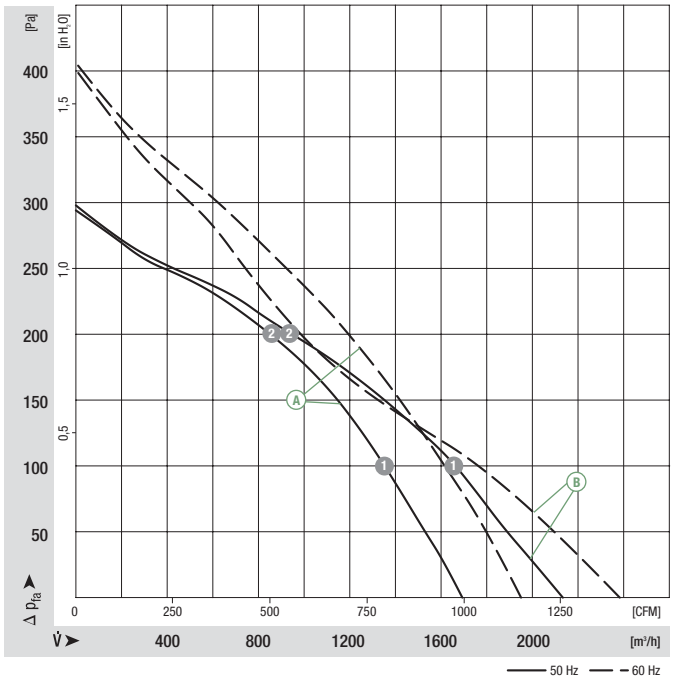
- **Material:** Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** Ⓐ "B", Ⓑ "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
			VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R4E 310	M4E 068-EC	Ⓐ	1~ 230 1~ 230	50 60	1690 1950	1410 1650	95 125	0.46 0.56	4.0 / 400 4.0 / 400	62 66	-25 to +70 -25 to +65	A1)
R4E 310	M4E 068-EC	Ⓑ	1~ 230 1~ 230	50 60	2130 2380	1370 1530	120 160	0.54 0.71	4.0 / 400 4.0 / 400	59 62	-25 to +85 -25 to +50	A1)

subject to alterations

Curves (established with long inlet nozzle)



	n [rpm]	P_1 [W]	I [A]
Ⓐ 1	1370	114	0.55
Ⓐ 2	1360	118	0.57
Ⓑ 1	1310	140	0.63
Ⓑ 2	1320	140	0.63

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- **Motor protection:** TOP wired internally
- **Cable exit:** Axial
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC

Centrifugal fan	Mass of centrifugal fan kg	Dimensions b	c	g	Inlet nozzle (long)	Inlet nozzle (short)
R4E 310-AR06 -01	3.3	104.0	123.0	70.0	31050-2-4013	31051-2-4013
R4E 310-AS06 -01	3.4	139.0	154.0	101.0	31050-2-4013	31051-2-4013

Inlet nozzle (long)