How to use this catalogue



The ebm-papst catalogue combines a technical and a product-specific section.

<u>Technical section</u>: General information on how to select and find ebm-papst products for your specific application is found in the chapters "Selection" (p. 10) and "Technical parameters" (p. 572). In case you require technical background information on ebm-papst product groups, simply turn to the chapters "Impellers" (p. 576), "Motors" (p.590) and "Control technology" (p. 594). <u>Product-specific section</u>: The product-specific section is organised according to product diameters, lines, materials and/or design principles.

Headline

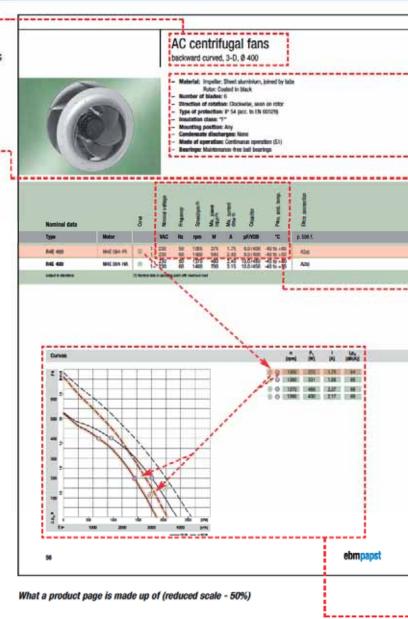
The headline indicates which technology (AC or EC), which design (centrifugal, axial, etc.), and which line (e.g. S-Range) the product belongs to. Impeller diameter or other features are also indicated.

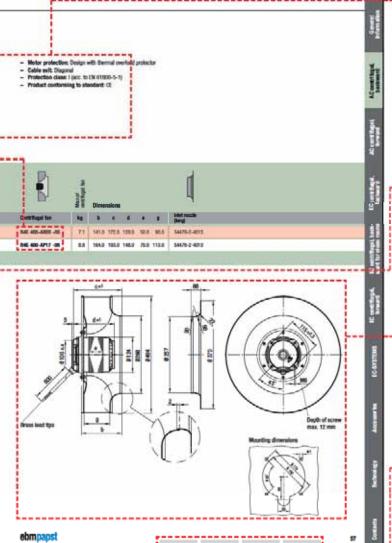
Part designation / Type



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

- 1) <u>Type</u>
 - 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
- Key for <u>electrical design</u>
- Key for mechanical variants





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.

How to select your ebm-papst product



Solutions for ventilation offered by ebm-papst

In the field of ventilation, ebm-papst offers the perfect solution for a vast number of applications. Depending on motor, impeller and control technology, there is almost no limit to the number of possible combinations, thus making sure you can find the best solution for your application.

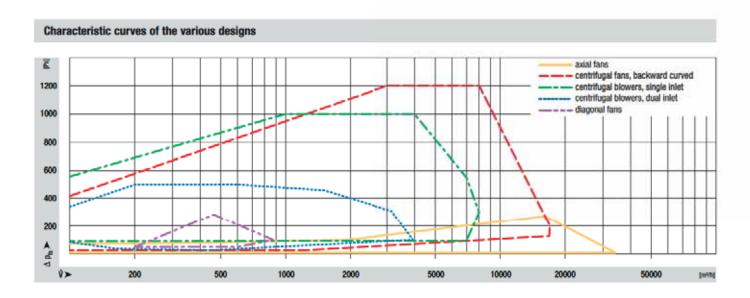
Criteria for selection

When selecting a fan for a specific application, these parameters play an important role:

- Air flow with given back pressure
- Voltage supply, divided into DC and AC voltage (1-, 3-)
- Noise generation
- Efficiency
- Available mounting space

Selecting a fan

The following diagram shows the range of characteristic curves for the most important fan designs and serves as a helpful tool in preselecting a design on the basis of air flow and back pressure.



How to order your ebm-papst product



Have you found the suitable ebm-papst product and would like to order it now?

In this case, simply contact your nearest ebm-papet sales office by E-mail, fax or phone.

Don't know exactly which ebm-papst product you need to order?

In this case, simply contact your nearest ebm-papst sales office by E-mail, fax or phone. Our specialists in ventilation and drive technology are always there to help you find the best solution for your specific application.

Using the questions provided in the checklist here as a guideline, you can make sure your ebm-papst contact has all the necessary information to handle your enquiry as efficiently and quickly as possible.

How your ebm-papst product is delivered

In our order confirmation, you will find information on when, how and where to the delivery will be made.

We deliver:

- Ex works (excluding packaging)
- Via freight carrier (we also use postal services for shipments up to 30 kg)

All the other details such as packaging, freight, insurance and customs duty will be settled with your ebm-papst contact prior to the time we issue our order confirmation.

Is there anything else you need to know about your ebm-papst product?

In this case, simply contact your nearest ebm-papst sales office by E-mail, fax or phone. We have the answer to your problem and are always glad to be able to be of assistance.

Using the questions provided in the checklist here as a guideline, you can make sure your ebm-papst contact has all the necessary information to handle your enquiry as efficiently and quickly as possible.

Checklist

- Part designation / type
- Quantity needed
- Field of application
- Ambient conditions (humidity, temperature, climate)
- Impeller diameter
- Air flow
- Back pressure
- Voltage supply

For your nearest sales office, please turn to page 610.

