

RADIAL FANS / COMPONENTS



BDRKF

BACKWARD CURVED FANS

Fan Components and Material Properties

The fan is made of high quality galvanized steel which is resistant to corrosion. Some models can also be manufactured in plastic or aluminum to meet application and performance requirements. All fans have an external rotor motor that creates a compact structure and have air transport at max.40°C. Motors are mounted to the fan by means of tight fitting or fasteners. Thanks to the holes on the motor cover, it can be mounted easily on the surface. The suction flange is available as an option.

Fan Structure

The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

Benefits

The rotation of the fan on the motor housing saves efficiency and space. It works at optimum sound levels while providing strong air suction. It can be operated in any position. Speed can be adjusted with speed control devices.

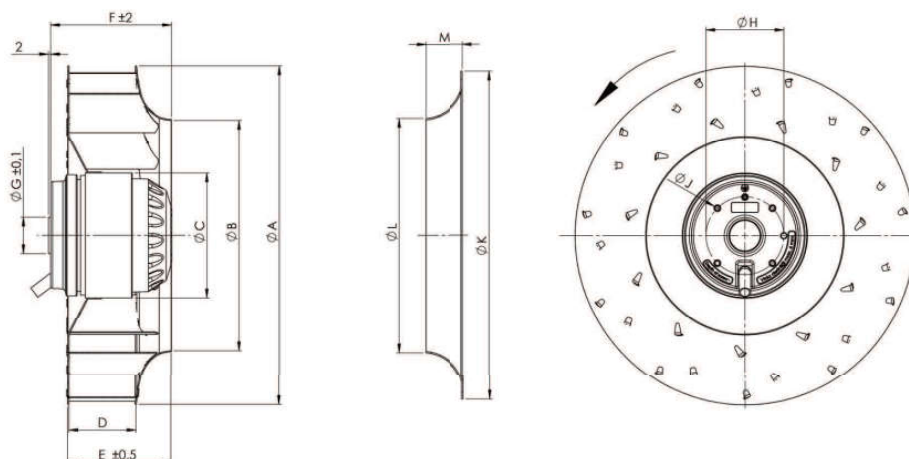
Speed Control

Optional control devices can be provided. 1 ~ Phase products can be controlled with linear voltage regulator. (see BSC accessory) Speed control can be done with frequency inverter in 3 ~ phase products. (see BSC-F accessory)

Usage Areas

They are used in air-conditioning devices and duct fans.

Technical Drawing and Tables



| TYPE | A | B | C | D | E | F | G | H | J | K | L | M |
|-----------|-----|-------|----|----|----|-----|----|----|----|-----|-----|----|
| BDRKF 160 | 162 | 121,5 | 92 | 40 | 60 | 75 | 27 | 58 | M4 | 168 | 113 | 16 |
| BDRKF 180 | 180 | 121,5 | 92 | 40 | 60 | 83 | 27 | 58 | M4 | 168 | 113 | 16 |
| BDRKF 220 | 220 | 159 | 92 | 44 | 63 | 73 | 27 | 58 | M4 | 204 | 147 | 20 |
| BDRKF 225 | 227 | 15 | 92 | 50 | 76 | 102 | 27 | 58 | M4 | 204 | 147 | 20 |
| BDRKF 250 | 252 | 172,5 | 92 | 50 | 79 | 92 | 27 | 58 | M4 | 225 | 165 | 20 |
| BDRKF 280 | 281 | 190 | 92 | 50 | 85 | 112 | 27 | 58 | M4 | 245 | 173 | 20 |

Dimensions are in (mm)

| TYPE | VOLTAGE | FREQUENCY | POWER | CURRENT | CAPACITOR | SPEED | AIR FLOW | SOUND PRESSURE | INSULATION CLASS | PROTECTION CLASS | WEIGHT | PIECES IN BOX |
|---------------|---------|-----------|---------|-----------|-----------|-----------|-----------|----------------|------------------|------------------|--------|---------------|
| TYPE | V | Hz | W | (A) | (μF) | r.p.m | m³/h | dB(A) | Ins.cl. | IP | kg | AD |
| BDRKF 160-M | 230 | 50/60 | 65/75 | 0,29/0,33 | 2 | 2500/2750 | 346/380 | 44 | B | 44 | 1,4 | 8 |
| BDRKF 180-M | 230 | 50/60 | 80/100 | 0,35/0,44 | 2,5 | 2400 | 500 | 52 | B | 44 | 1,6 | 8 |
| BDRKF 220-A-M | 230 | 50/60 | 65/75 | 0,30/0,35 | 1,5 | 2100 | 700 | 53 | B | 44 | 1,8 | 8 |
| BDRKF 220-B-M | 230 | 50/60 | 100/120 | 0,44/0,53 | 3 | 2450/2750 | 860/965 | 54 | B | 44 | 1,9 | 8 |
| BDRKF 225-M | 230 | 50/60 | 100/135 | 0,46/0,62 | 4 | 2650/2950 | 1000/1100 | 54 | B | 44 | 2,3 | 8 |
| BDRKF 250-M | 230 | 50/60 | 155/225 | 0,72/1 | 6 | 2600/2800 | 1400/1500 | 54 | B | 44 | 2,8 | 8 |
| BDRKF 280-M | 230 | 50/60 | 200/275 | 0,89/1,23 | 7 | 2600 | 1850 | 55 | B | 44 | 3,3 | 8 |

Sound Level Measured from 3m distance in room condition.