

**PRODUCT SPECIFICATION**

|              |                                     |
|--------------|-------------------------------------|
| <b>TYPE</b>  | EC centrifugal fan, backward curved |
| <b>MODEL</b> | BC-B250B-EC-01                      |
| <b>MOTOR</b> | MEC3C-72-174-01                     |

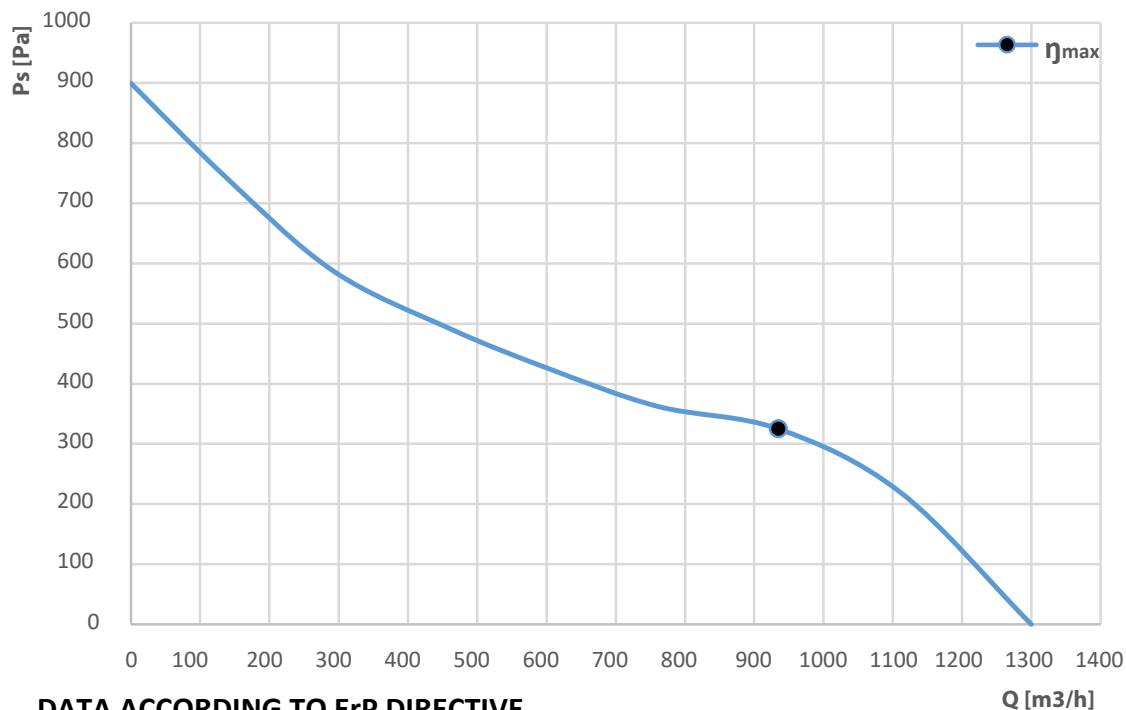
**NOMINAL DATA**

|                             |     |       |
|-----------------------------|-----|-------|
| Phase                       | -   | 1~    |
| Nominal Voltage             | VAC | 120   |
| Frequency                   | Hz  | 50/60 |
| Speed                       | RPM | 2500  |
| Power Input                 | W   | 174   |
| Current                     | A   | 2.2   |
| Sound Pressure Level        | dBA | 72    |
| Valid For Approval/Standard |     | CE    |
| Min. Ambient Temperature    | °C  | -25   |
| Max. Ambient Temperature    | °C  | +60   |

**TECHNICAL FEATURES**

|                                                                          |                                     |
|--------------------------------------------------------------------------|-------------------------------------|
| Mass                                                                     | 1.85 Kg                             |
| Dimensions                                                               | 250 mm                              |
| Material Of Impeller                                                     | PA plastic + 30% glass fiber        |
| Number Of Blades                                                         | 7                                   |
| Direction Of Rotation                                                    | Clockwise, seen on rotor            |
| Surface Of Rotor                                                         | Coated in reflex BLUE C             |
| Type of protection                                                       | IP55                                |
| Insulation Class                                                         | B                                   |
| Condensate Discharge Holes                                               | On rotor side                       |
| Min./Max. permissible ambient motor temperature (transportable/ storage) | - 40°C ... + 80°C                   |
| Operation Mode                                                           | S1                                  |
| Motor Bearing                                                            | Ball bearing                        |
| Motor Protection                                                         | Self-resetting TOP wired internally |
| Length Of Cable                                                          | 500 mm                              |
| RoHS                                                                     | All material accord with RoHS       |
| Min./Max. Humidity                                                       | 0% ... 90% RH                       |
| Motor                                                                    | External rotor EC motor             |
| Deviation Of Impeller In Axial Direction                                 | ≤0.5mm                              |
| Deviation Of Impeller In Radial Direction                                | ≤0.5mm                              |

## PERFORMANCE CURVES



## DATA ACCORDING TO ErP DIRECTIVE

|                       |        |
|-----------------------|--------|
| Installation category | A      |
| Efficiency category   | Static |
| Variable speed drive  | Yes    |
| Specific ratio        | 1,00   |

|                                   | Actual | Request 2015 |
|-----------------------------------|--------|--------------|
| Overall efficiency $\eta_{es}$    | 56     | 44           |
| Efficiency grade N                | 74     | 62           |
| Power input P, W                  | 173    |              |
| Air flow V, m³/h                  | 935    |              |
| Pressure increase $\Delta P$ , Pa | 325    |              |

## ELECTRICAL CONNECTION DIAGRAMM

