

# EM 150 EC 01

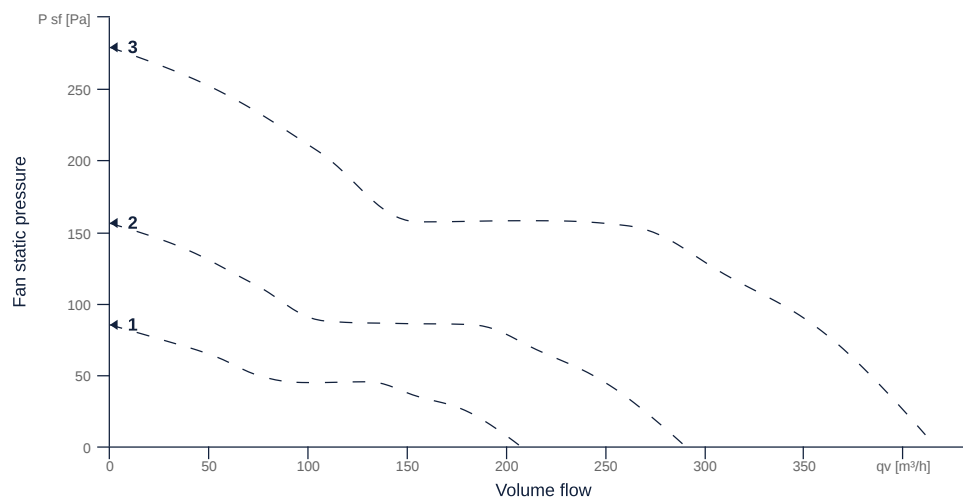
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing made of impact-resistant, reinforced polypropylene
- High efficiency IE5 EC motor, 3-steps controllable
- Conveyed medium temperature up to 40 °C in continuous operation
- The benchmark for efficiency since 2012



## FAN CURVES

| Name        | Value | Unit |
|-------------|-------|------|
| Volume flow | 0     | m³/h |
| Pressure    | 0     | Pa   |



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## GENERAL DATA

| Name                                  | Value    | Unit | Formula symbol      |
|---------------------------------------|----------|------|---------------------|
| Labeling                              | CE, UKCA |      |                     |
| Duct size                             | -        |      | WxHduct             |
| Pipe connection size (DN)             | DN150    |      | DN                  |
| Rated voltage (entire device)         | 230      | v    | U <sub>rated</sub>  |
| Phases (entire device)                | 1~       |      | phase               |
| Electrical protection (entire device) | 6 A      |      | fuse                |
| Housing material                      | Plastic  |      | matcasing           |
| Impeller material                     | Plastic  |      | matimpeller         |
| IP-protection class (entire device)   | IPX2     |      | IPcompl             |
| Weight                                | 0.83     | kg   | m                   |
| Fan type                              | Diagonal |      | Fan <sub>type</sub> |
| Category / Installation situation     | A        |      | cat                 |

## MAXIMAL DATA

| Name                            | Value |       | Unit | Formula symbol        |
|---------------------------------|-------|-------|------|-----------------------|
|                                 | 50 Hz | 60 Hz |      |                       |
| Max. power consumption (device) | 31    | 31    | w    | P <sub>ed, max</sub>  |
| Max. operating current (device) | 0.33  | 0.33  | A    | I <sub>ed, max</sub>  |
| Max. speed                      | 3830  | 3830  | rpm  | n <sub>max</sub>      |
| Max. stat. efficiency           | 36.2  | 36.2  | p    | η <sub>es</sub>       |
| Max. fan efficiency             | 38.7  | 38.7  | p    | η <sub>e</sub>        |
| Max. flowrate                   | 410   | 410   | CmH  | q <sub>v, max</sub>   |
| Max. stat pressure              | 275   | 275   | Pa   | p <sub>sf, max</sub>  |
| Max. medium temperature         | 40    | 40    | °C   | T <sub>m, max</sub>   |
| Max. environment temperature    | 40    | 40    | °C   | T <sub>amb, max</sub> |



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MOTOR DATA

| Name                     | Value |          | Unit | Formula symbol |
|--------------------------|-------|----------|------|----------------|
|                          | 50 Hz | 60 Hz    |      |                |
| Rated frequency (device) |       | 50       |      | f              |
| Motor type               |       | EC       |      | phase          |
| Installation type        |       | IRM (In) |      | install        |
| Rotation direction       |       | right    |      | rotation       |
| Isolation class          |       | ISO F    |      | ISOclass       |
| Motor-protection         |       | TAI      |      | protectmotor   |
| Protection class         |       | IP00     |      | IPmotor        |
| Is pole-changeable       |       | No       |      | polexch        |
| Type of power supply     |       | AC 1~    |      | pwrsupmotor    |
| Number of poles (1)      |       | 2.000000 |      | num polesw1    |
| Rated voltage            | 230   |          | v    | Urated, f1     |
| Nominal power            | 40    |          | w    | Pa             |
| Speed                    | 3650  |          | rpm  | nr1            |
| Efficiency               | 58    |          | p    | ηm, f1         |
| UL-Certification motor   |       | None     |      | ULcert         |

ERP DATA (LOT11)

| Name                                                      | Value    | Unit | Formula symbol            |
|-----------------------------------------------------------|----------|------|---------------------------|
| Speed at the energy efficiency optimum                    | 3828     | rpm  | n <sub>opt</sub>          |
| Efficiency level                                          | 43.5     | p    | N                         |
| Efficiency category                                       | statisch |      | cat <sub>efficiency</sub> |
| Input power of the motor at the energy efficiency optimum | 0.03     | kw   | P <sub>e, opt</sub>       |
| Overall efficiency                                        | 70.1     | p    | η <sub>ges</sub>          |
| Measurement category                                      | A        |      | meas cat                  |
| Fan pressure at energy efficiency optimum                 | 160      | Pa   | p <sub>f, opt</sub>       |
| Flowrate at energy efficiency optimum                     | 251      | CmH  | q <sub>v, opt</sub>       |

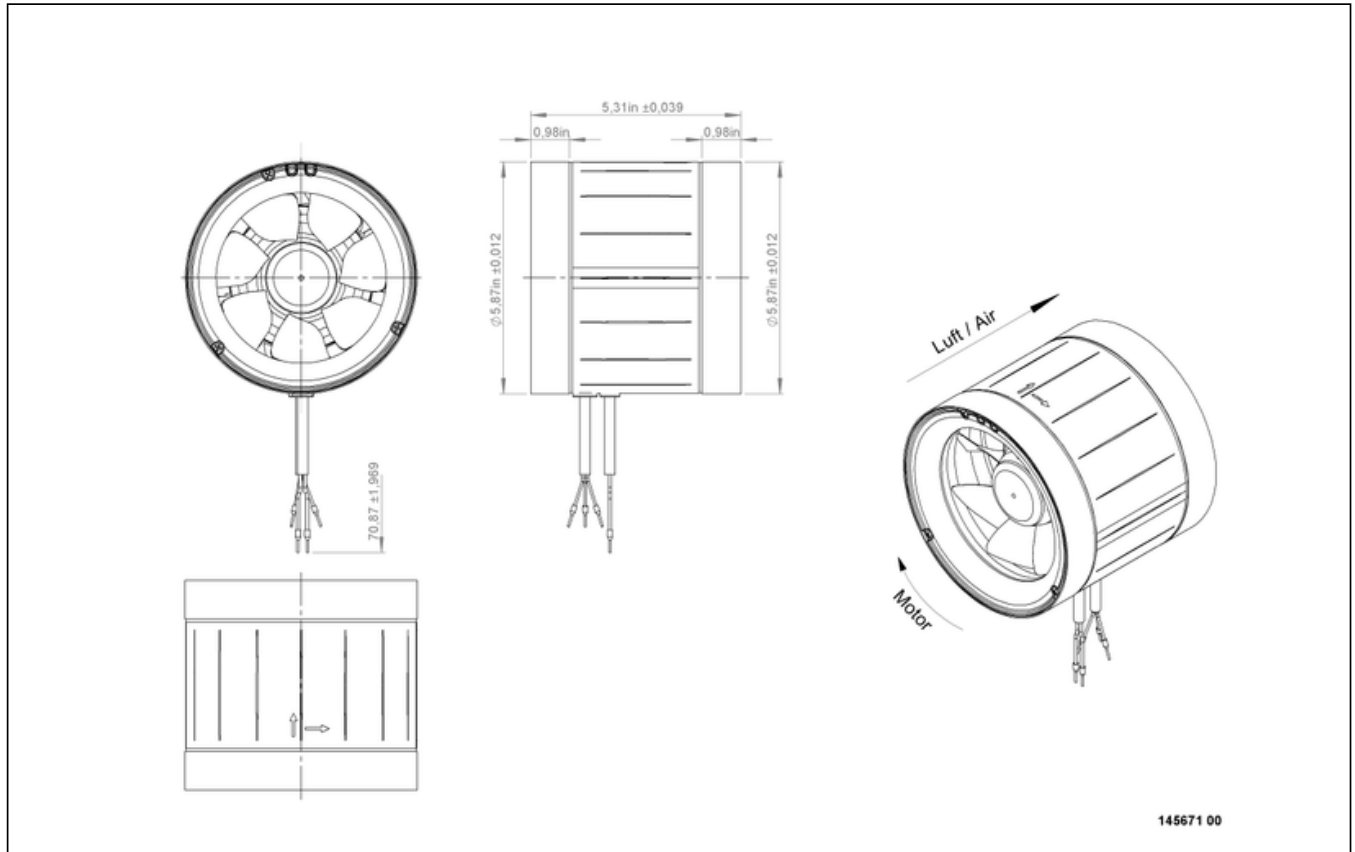
SMOKE EXTRACT DATA

| Name                  | Value | Unit | Formula symbol     |
|-----------------------|-------|------|--------------------|
| Fire resistance class | None  |      | F <sub>class</sub> |



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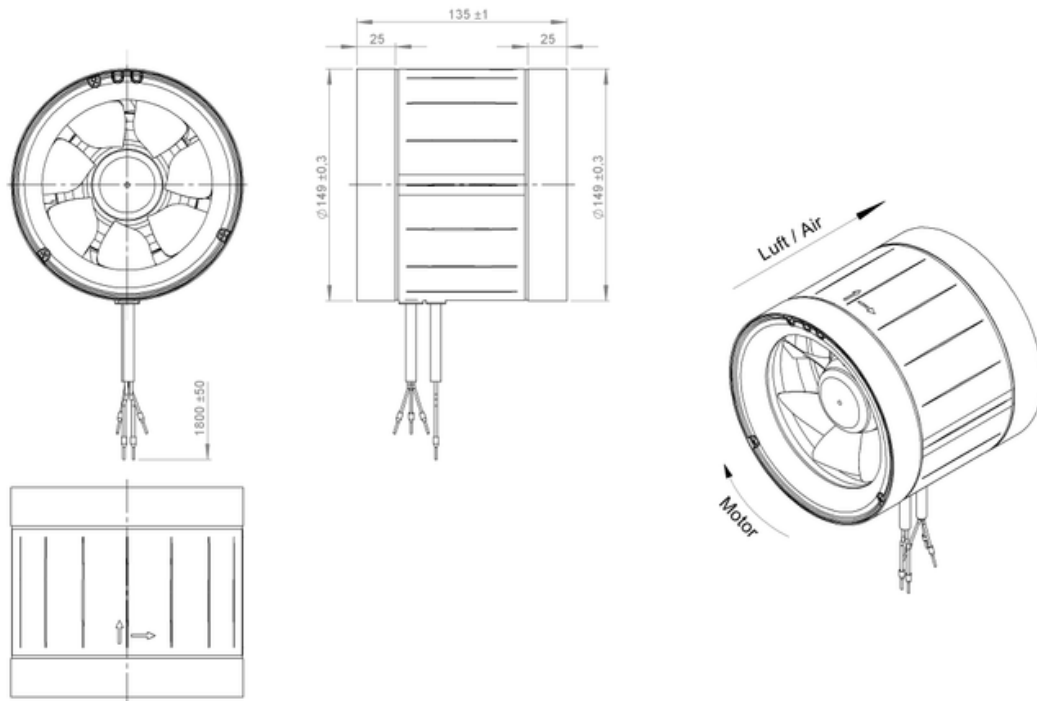
## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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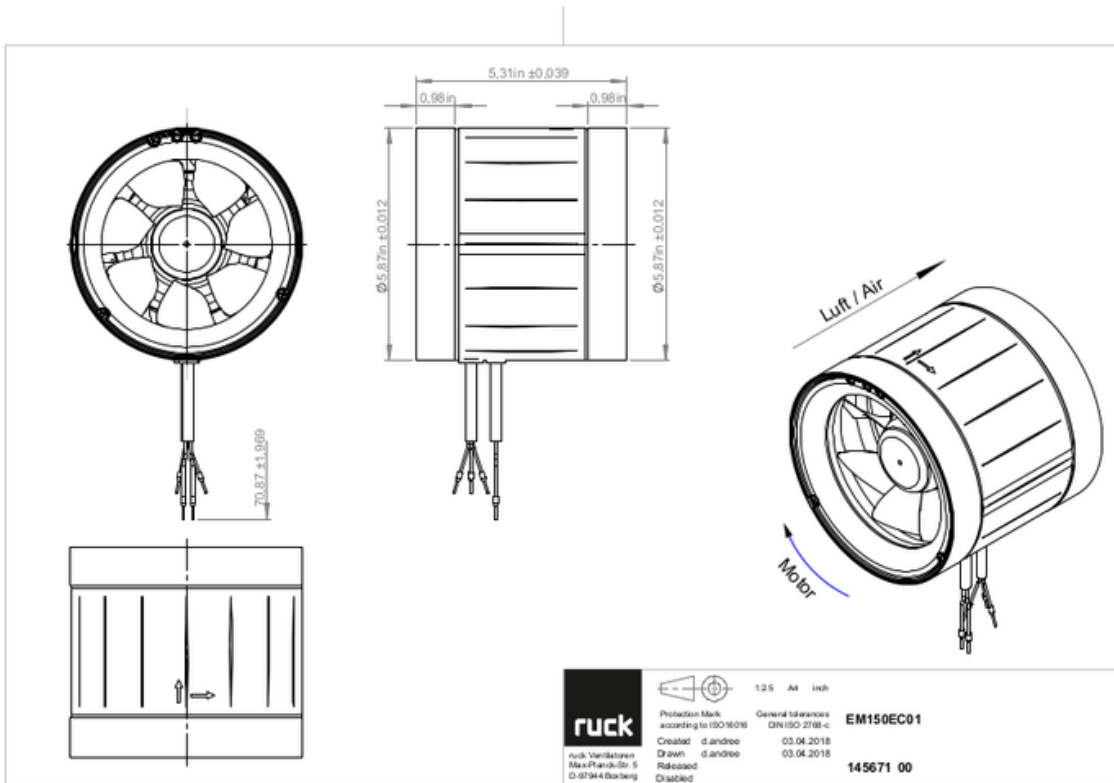


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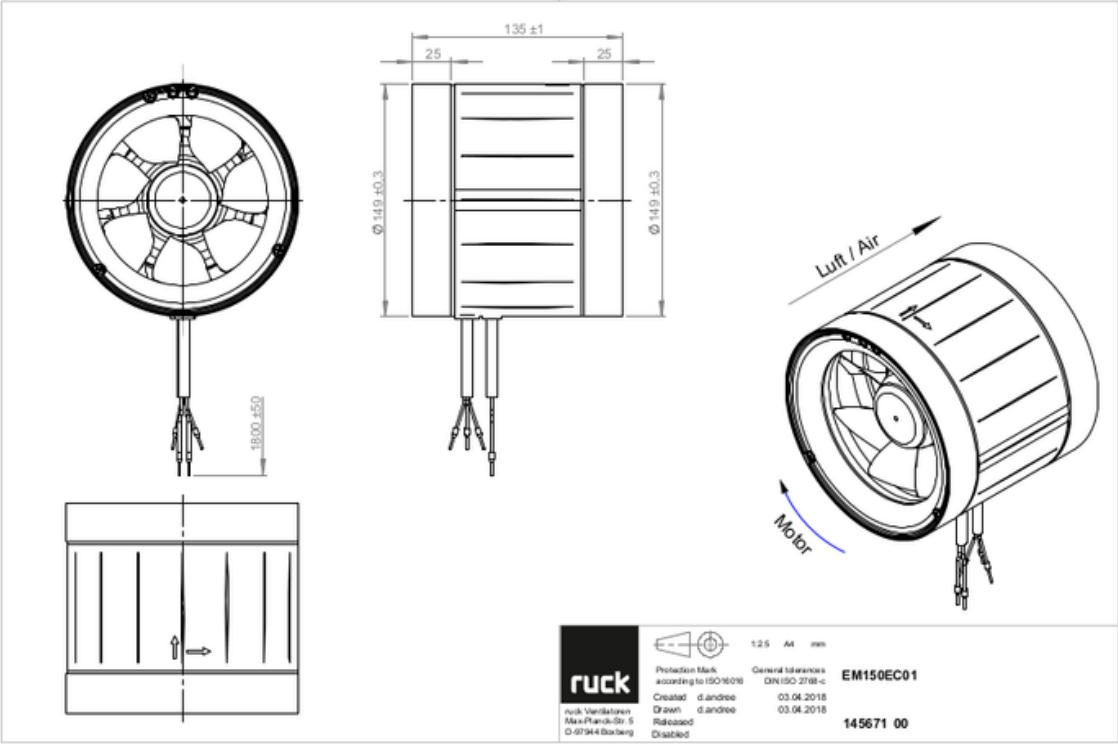
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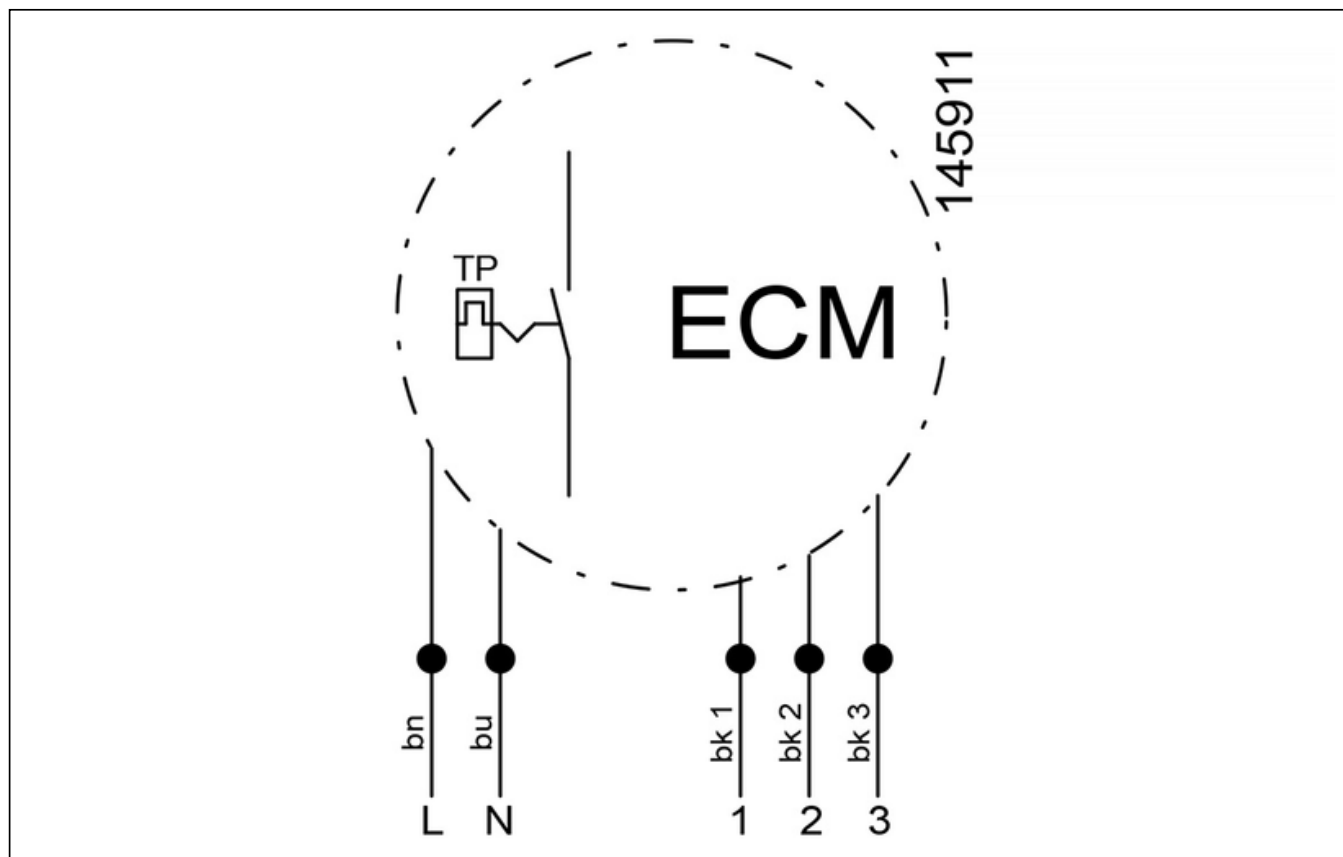
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