

# EL 250 E2 01

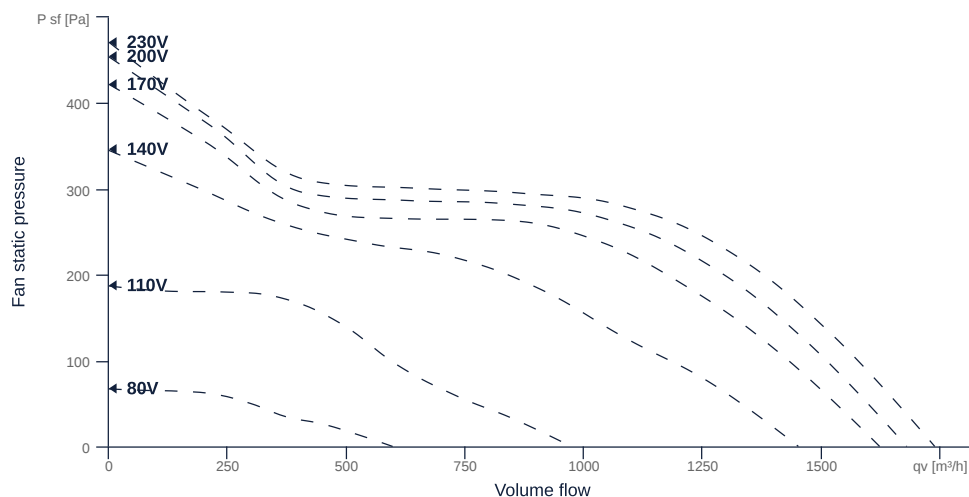
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- The benchmark for efficiency since 2007
- Robust single phase AC motor
- Conveyed medium temperature up to 55 °C in continuous operation
- Housing made of galvanized steel sheet



## 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                             | -                |      | WxH <sub>duct</sub>     |
| Pipe connection size (DN)             | DN250            |      | 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                      | Galvanized steel |      | mat <sub>casing</sub>   |
| Impeller material                     | Plastic          |      | mat <sub>impeller</sub> |
| IP-protection class (entire device)   | IPX4             |      | IP <sub>compl</sub>     |
| IP-Protection class (terminal box)    | IP44             |      | IP <sub>ebox</sub>      |
| Weight                                | 6.41             | kg   | m                       |
| Fan type                              | Diagonal         |      | Fan <sub>type</sub>     |
| Category / Installation situation     | A                |      | cat                     |

## MAXIMAL DATA

| Name                            | Value | Unit | Formula symbol        |
|---------------------------------|-------|------|-----------------------|
| Max. power consumption (device) | 180   | w    | P <sub>ed, max</sub>  |
| Max. operating current (device) | 1     | A    | I <sub>ed, max</sub>  |
| Max. speed                      | 2890  | rpm  | n <sub>max</sub>      |
| Max. stat. efficiency           | 44.8  | p    | η <sub>es</sub>       |
| Max. fan efficiency             | 49.2  | p    | η <sub>e</sub>        |
| Max. flowrate                   | 1740  | CmH  | Q <sub>v, max</sub>   |
| Max. stat pressure              | 470   | Pa   | p <sub>sf, max</sub>  |
| Max. medium temperature         | 55    | °C   | T <sub>m, max</sub>   |
| Max. environment temperature    | 55    | °C   | T <sub>amb, max</sub> |
| Min. environment temperature    | -25   | °C   | T <sub>amb, min</sub> |
| Min. voltage                    | 80    | v    | U <sub>min</sub>      |
| Stall current                   | 2.59  | A    | I <sub>LRA</sub>      |



## MOTOR DATA

| Name                     | Value |                     | Unit | Formula symbol |
|--------------------------|-------|---------------------|------|----------------|
|                          | 50 Hz | 60 Hz               |      |                |
| Rated frequency (device) |       | 50                  |      | f              |
| Motor type               |       | AC 1~               |      | phase          |
| Control type             |       | stepless-controlled |      | ctrltype       |
| Installation type        |       | IRM (In)            |      | install        |
| Rotation direction       |       | right               |      | rotation       |
| Isolation class          |       | ISO F               |      | ISOclass       |
| Motor-protection         |       | TMI                 |      | protectmotor   |
| Protection class         |       | IP00                |      | IPmotor        |
| Is pole-changeable       |       | No                  |      | polexch        |
| Type of power supply     |       | AC 1~               |      | pwrsupmotor    |
| Capacity capacitor       |       | 6                   | μF   | Ccond          |
| Voltage capacitor        |       | 400                 | v    | VUcond         |
| Number of poles (1)      |       | 2.000000            |      | num polesw1    |
| Rated voltage            | 230   |                     | v    | Urated, f1     |
| Rated current            | 0.9   |                     | A    | Irated, f1     |
| Speed                    | 2750  |                     | rpm  | nr1            |
| UL-Certification motor   |       | None                |      | ULcert         |

## ERP DATA (LOT11)

| Name                                                      | Value    | Unit | Formula symbol            |
|-----------------------------------------------------------|----------|------|---------------------------|
| Speed at the energy efficiency optimum                    | 2824     | rpm  | n <sub>opt</sub>          |
| Efficiency level                                          | 44.9     | p    | N                         |
| Efficiency category                                       | statisch |      | cat <sub>efficiency</sub> |
| Input power of the motor at the energy efficiency optimum | 0.17     | kw   | P <sub>e, opt</sub>       |
| Overall efficiency                                        | 63.4     | p    | η <sub>ges</sub>          |
| Measurement category                                      | A        |      | meas cat                  |
| Fan pressure at energy efficiency optimum                 | 274      | Pa   | p <sub>f, opt</sub>       |
| Flowrate at energy efficiency optimum                     | 1119     | CmH  | q <sub>v, opt</sub>       |

## SMOKE EXTRACT DATA

| Name                  | Value | Unit | Formula symbol |
|-----------------------|-------|------|----------------|
| Fire resistance class | None  |      | Fclass         |

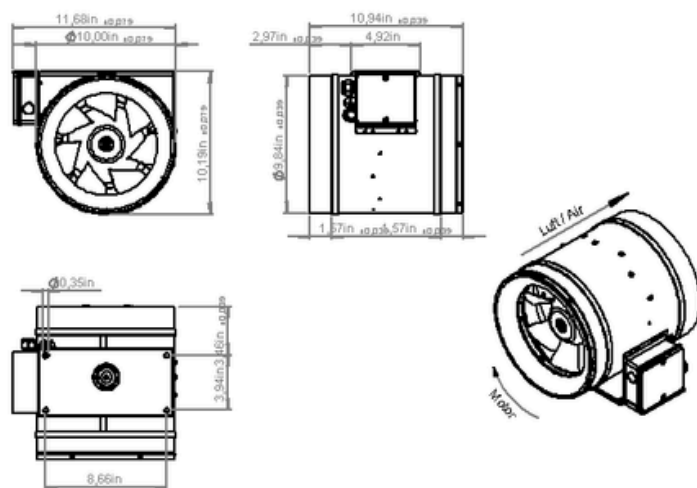


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## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



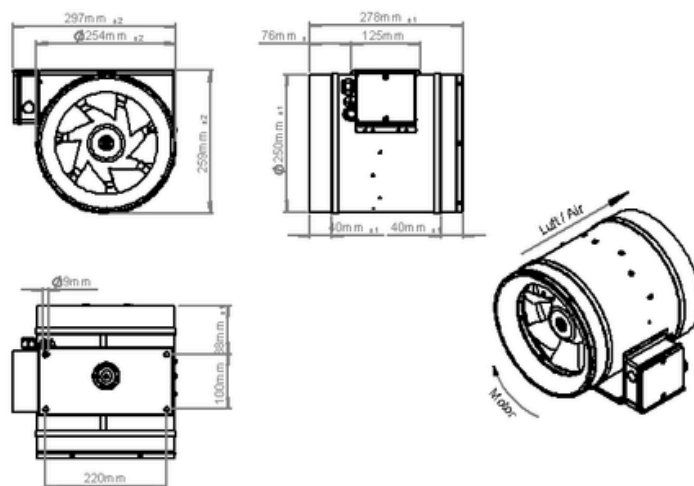
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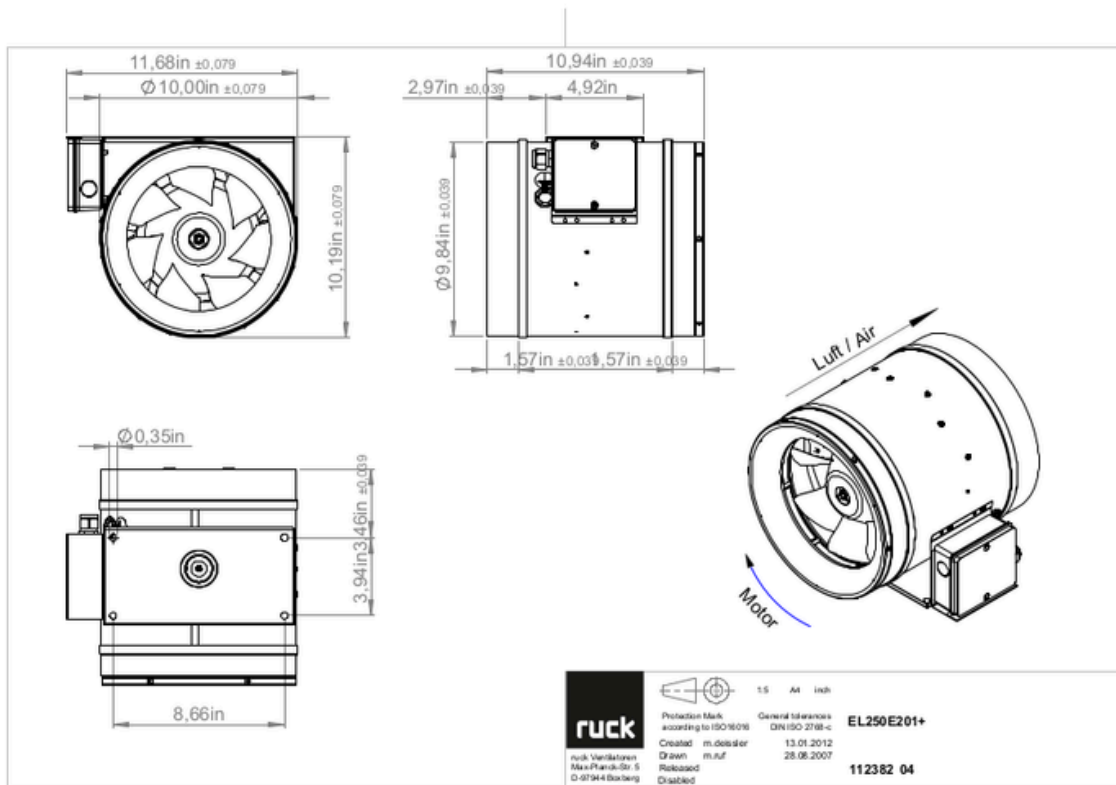


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