

# EL 315 E2 01

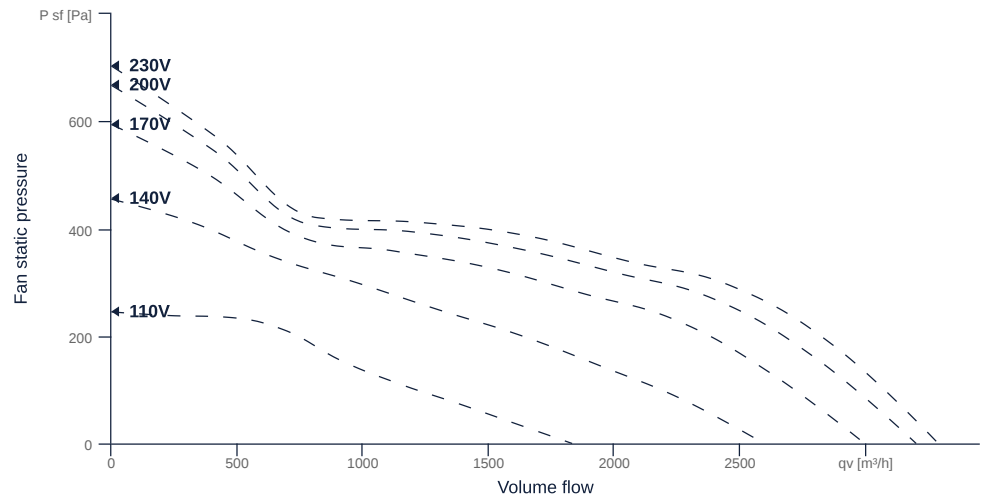
112202

- 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 70 °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)             | DN315            |      | 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                                | 15.1             | 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) | 509   | 775   | W     | P <sub>ed, max</sub>  |
| Max. operating current (device) | 3     | 3.7   | A     | I <sub>ed, max</sub>  |
| Max. speed                      | 2840  | 3275  | 1/min | n <sub>max</sub>      |
| Max. stat. efficiency           | 39    | 36.8  | %     | η <sub>es</sub>       |
| Max. fan efficiency             | 43.5  | 39.5  | %     | η <sub>e</sub>        |
| Max. flowrate                   | 3290  | 3710  | m³/h  | Q <sub>v, max</sub>   |
| Max. stat pressure              | 700   | 880   | Pa    | p <sub>st, max</sub>  |
| Max. medium temperature         | 70    | 45    | °C    | T <sub>m, max</sub>   |
| Max. environment temperature    | 70    | 45    | °C    | T <sub>amb, max</sub> |
| Min. environment temperature    | -25   | -25   | °C    | T <sub>amb, min</sub> |
| Min. voltage                    | 110   | 110   | V     | U <sub>min</sub>      |
| Stall current                   | 8.5   |       | 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         |          | IP54                |       | IPmotor                |
| Is pole-changeable       |          | No                  |       | polexch                |
| Type of power supply     |          | AC 1~               |       | pwsupmotor             |
| Capacity capacitor       |          | 10                  | µF    | Ccond                  |
| Voltage capacitor        |          | 400                 | V     | VUcond                 |
| Number of poles (1)      |          | 2.000000            |       | num polesw1            |
| Rated voltage            | 230      |                     | V     | U <sub>rated, f1</sub> |
| Rated current            | 1.9      |                     | A     | I <sub>rated, f1</sub> |
| Shaft power              | 300      |                     | W     | P <sub>out, f1</sub>   |
| Speed                    | 2820     |                     | 1/min | n <sub>f1</sub>        |
| Cos Phi                  | 0.990000 | 0.000000            |       | cos φ                  |
| UL-Certification motor   |          | None                |       | ULcert                 |

## ERP DATA (LOT11)

| Name                                                      | Value    | Unit  | Formula symbol      |
|-----------------------------------------------------------|----------|-------|---------------------|
| Speed at the energy efficiency optimum                    | 2758     | 1/min | n <sub>opt</sub>    |
| Efficiency level                                          | 39.3     | %     | N                   |
| Efficiency category                                       | statisch |       | catefficiency       |
| Input power of the motor at the energy efficiency optimum | 0.47     | kW    | P <sub>e, opt</sub> |
| Overall efficiency                                        | 53.2     | %     | η <sub>ges</sub>    |
| Measurement category                                      | A        |       | meas cat            |
| Fan pressure at energy efficiency optimum                 | 350      | Pa    | p <sub>f, opt</sub> |
| Flowrate at energy efficiency optimum                     | 1993     | m³/h  | q <sub>v, opt</sub> |

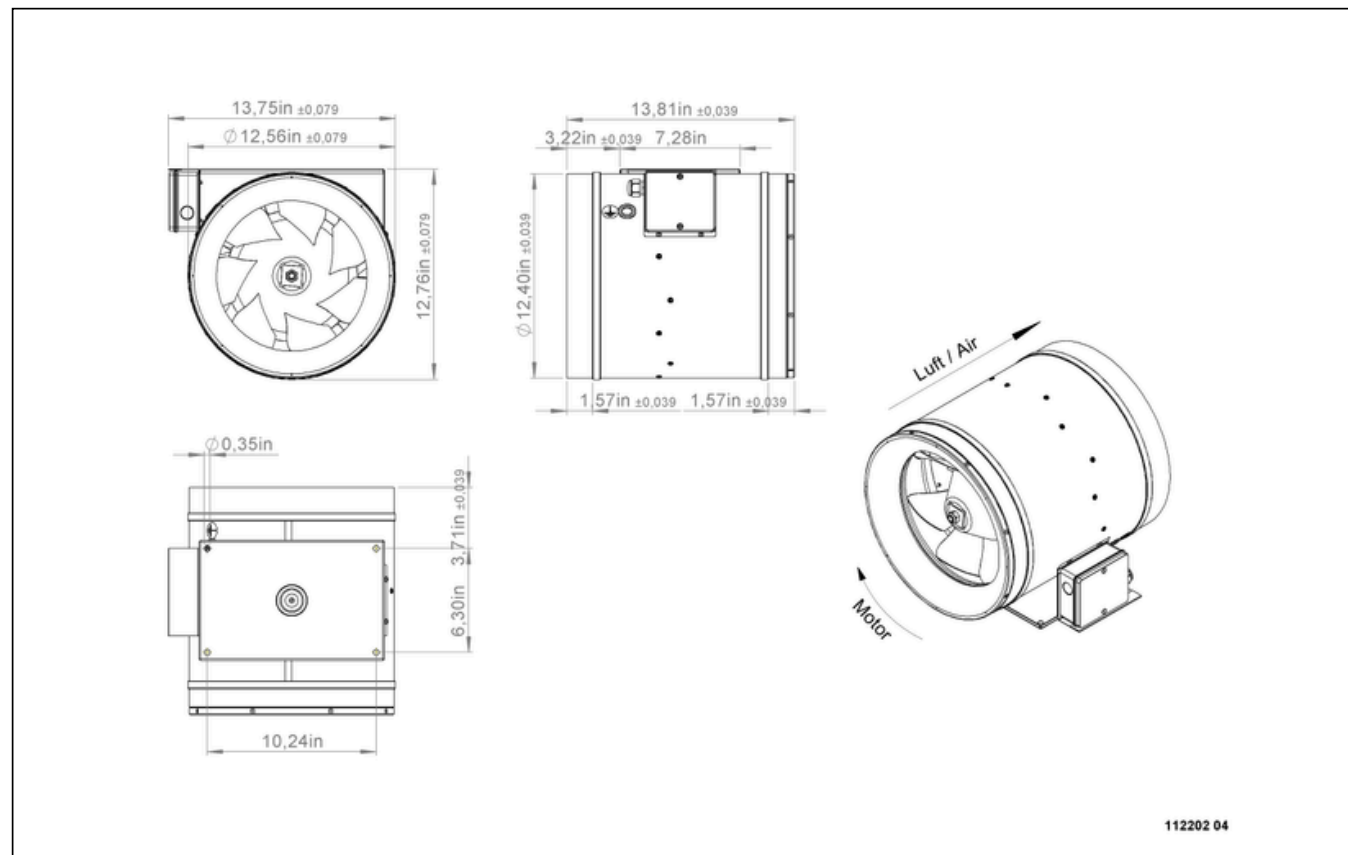
## SMOKE EXTRACT DATA

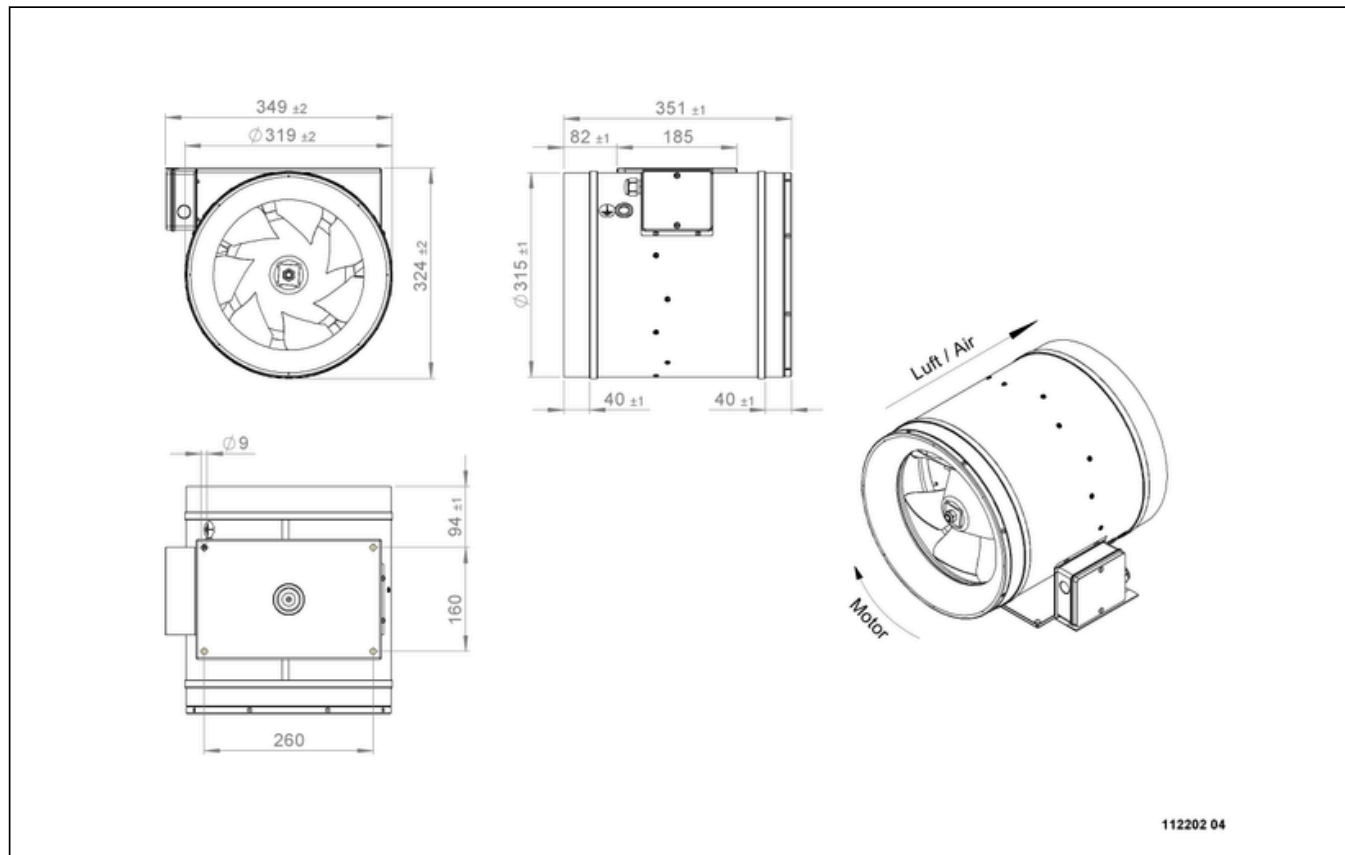
| Name                  | Value | Unit | Formula symbol |
|-----------------------|-------|------|----------------|
| Fire resistance class | None  |      | Fclass         |



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## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

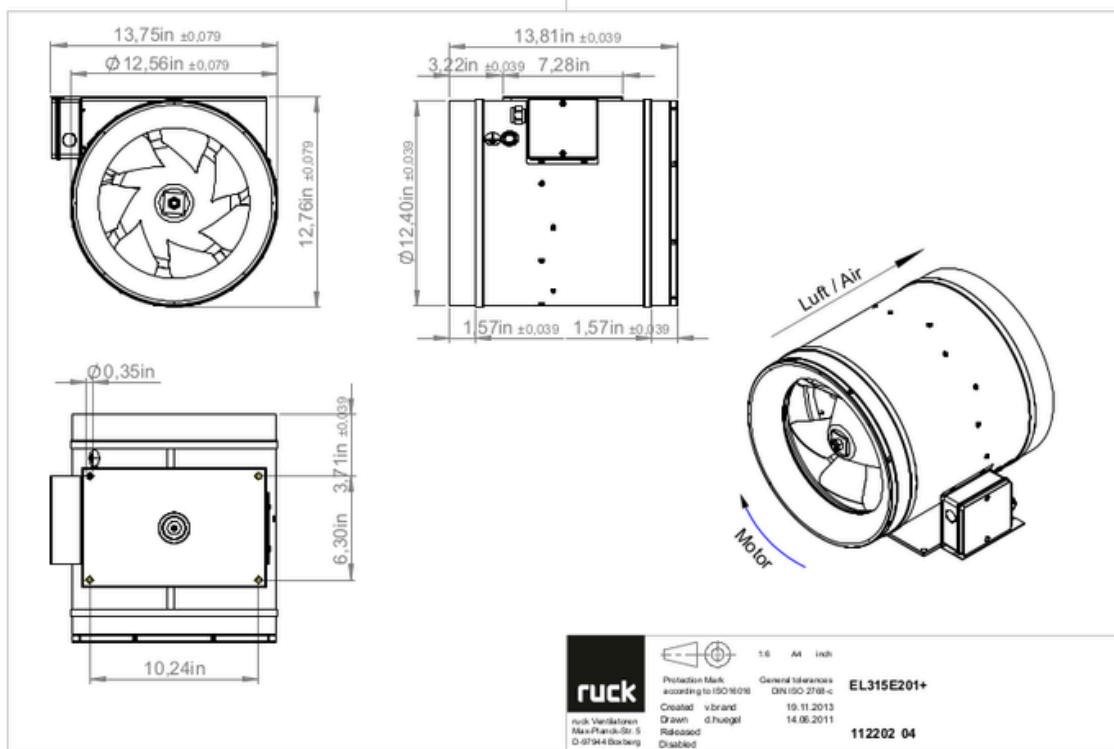




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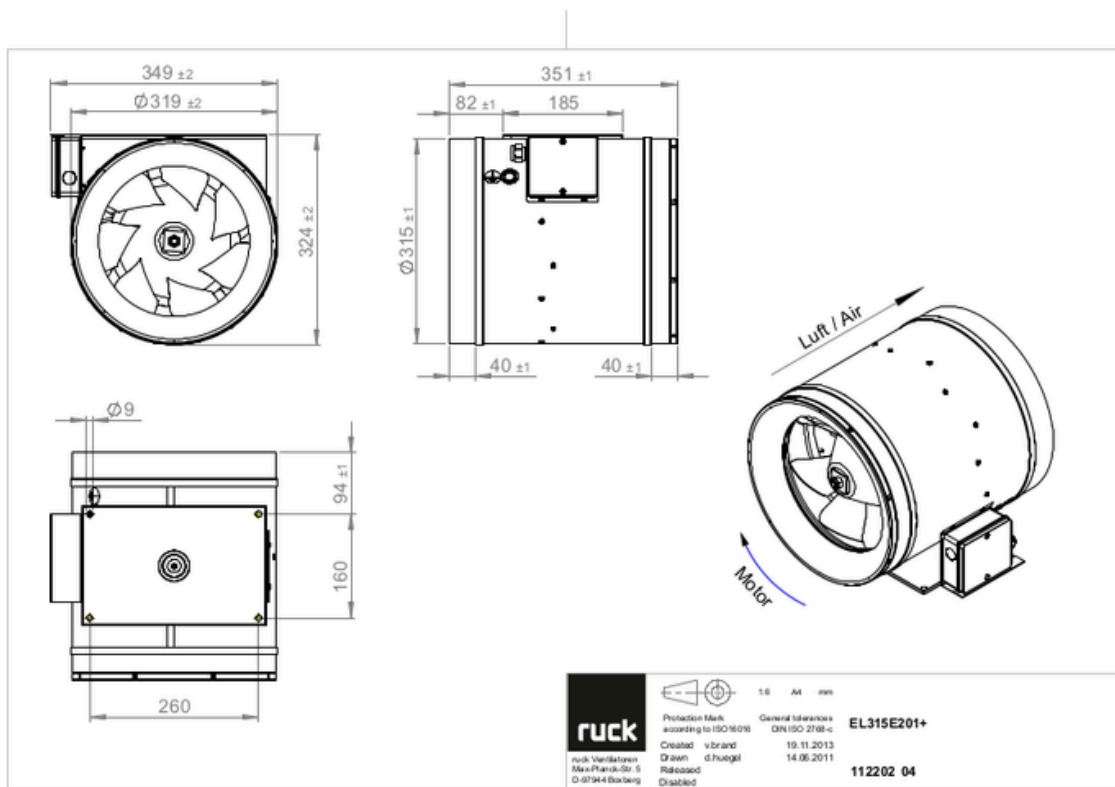


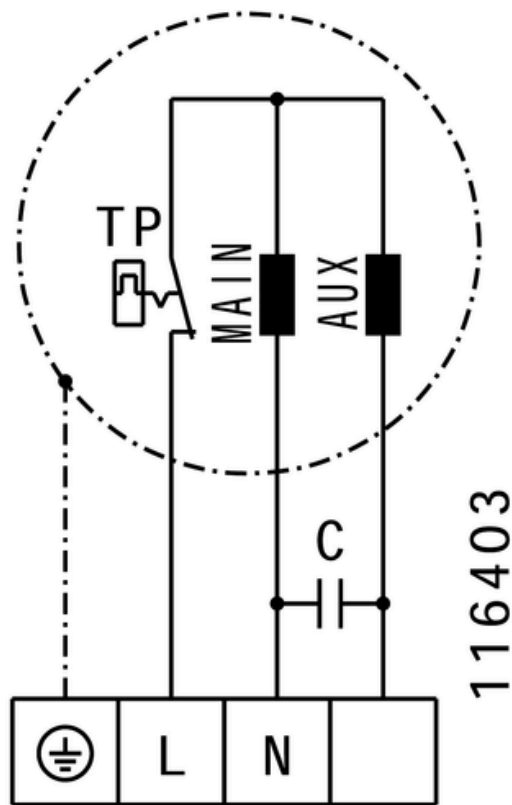
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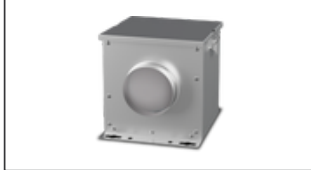






## MECHANICAL ACCESSORIES

**FV 315 | 112834**



- Air filter box with mat filter ISO Coarse 45 % (G3)
- Toggle-type fastener

**FT 315 | 112846**



- Air filter box for pocket filter
- Toggle-type fastener
- Galvanized steel sheet housing
- Without filter

**FTW 315 | 112855**



- Air filter box with pocket filter M5
- Integrated warm water heating coil
- Galvanized steel sheet housing
- Toggle-type fastener

**RSK 315 | 102664**



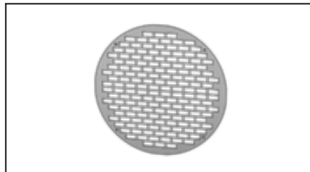
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

**UKR 6030 03 | 114640**



- Transition duct / tube
- Steel sheet, galvanized
- 600 x 300 mm / NW 315

**SG 315 02 | 112675**



- Inlet protection grille for Etaline
- Galvanized steel sheet

**RSK 315D | 113489**



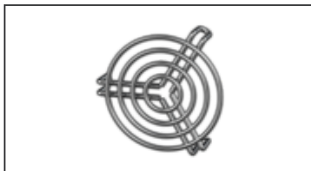
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps
- Integrated gasket

**VM 315 | 102652**



- Fast clamps for sound decoupling and sealing
- Galvanized steel sheet, 5 mm Neopren gasket
- 1 Pack = 2 pieces

**SG 315 01 | 169592**



- Protection grille for tube connection
- Galvanized wire

**SDS 315 | 169609**



- Rigid tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm (mineral wool)

**SDF 315 | 169645**



- Flexible tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm

## ELECTRICAL ACCESSORIES

**GS 01 | 102787**



- Isolator switch
- U<sub>max</sub> = 400 V, 50/60 Hz
- Switching capacity 400 V 3~ = 7,5 kW
- I<sub>max</sub> = 25 A

**TEM 035 | 103502**



- 5-step transformer
- 230 V, 50/60 Hz, 3,5 A
- Output voltage: 230-190-170-140-110-80-0 V
- Protection class IP 54

**TES 035 02 | 146195**



- 5-step transformer
- 230 V, 50/60 Hz, 3,5 A
- Without housing, control cabinet installation
- Protection class IP 20

