

# KVRI 5025 EC 30

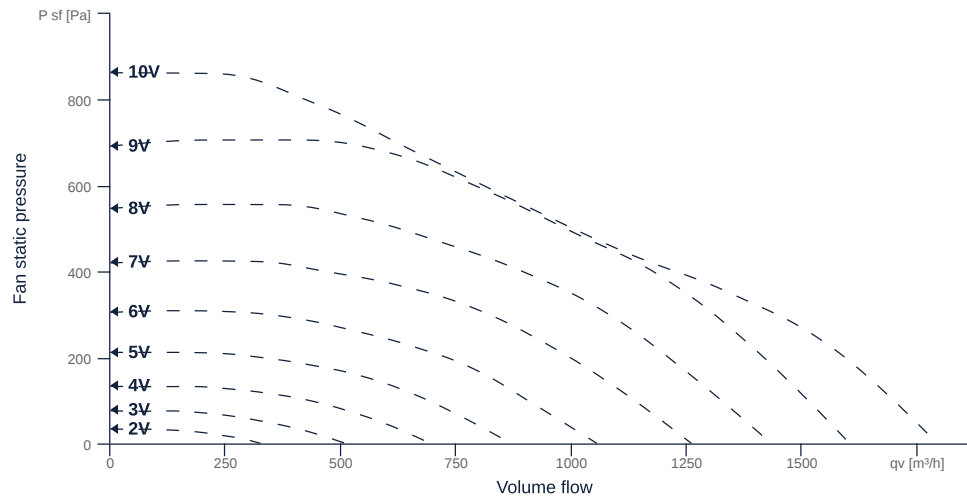
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- Backward curved radial impeller
- Swing out fan unit
- Galvanized sheet steel housing, double-walled, 25 mm mineral wool
- High efficiency EC motor, steplessly controllable
- Conveyed medium temperature up to 60 °C in continuous operation



## MAP

| Name        | Value | Unit              |
|-------------|-------|-------------------|
| Volume flow | 0     | m <sup>3</sup> /h |
| Pressure    | 0     | Pa                |



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## GENERAL DATA

| Name   | Value            | Unit              | Formula symbol          |
|--|------------------|-------------------|-------------------------|
| Labeling   | CE, UKCA         |                   |                         |
| Duct size  | 500x250          |                   | WxH <sub>duct</sub>     |
| Pipe connection size (DN)                              | -                |                   | 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                                      | Galvanized steel |                   | 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   | 21.1             | kg                | m                       |
| Nominal air flow rate, nominal point m <sup>3</sup> /h | 741.6            | m <sup>3</sup> /h | q <sub>v,nom</sub>      |
| Nominal external pressure, static                      | 334.9            | Pa                | p <sub>s,nom</sub>      |
| Fan type   | Radial           |                   | Fan <sub>type</sub>     |
| Category / Installation situation                      | A                |                   | cat                     |

## ERP DATA (LOT 6)

| Name   | Value                     | Unit              | Formula symbol      |
|--|---------------------------|-------------------|---------------------|
| Nominal air flow rate, nominal point m <sup>3</sup> /s | 0.21                      | m <sup>3</sup> /s | q <sub>v,nom</sub>  |
| Actual electrical input power, nominal point           | 0.12                      | kW                | P <sub>e,nom</sub>  |
| Face velocity, nominal point                           | 1.6                       | m/s               | v <sub>nom</sub>    |
| Nominal external pressure, static                      | 334.9                     | Pa                | p <sub>s,nom</sub>  |
| supply air fan static efficiency, nominal point        | 58.7                      | %                 | η <sub>es,SUP</sub> |
| Enclosure sound level, nominal point                   | 70                        | dB(A)             | L <sub>WA2</sub>    |
| Rating   | Product is compliant 2018 |                   |                     |



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## MAXIMAL DATA

| Name                            | Value |       | Unit              | Formula symbol        |
|---------------------------------|-------|-------|-------------------|-----------------------|
|                                 | 50 Hz | 60 Hz |                   |                       |
| Max. power consumption (device) | 268   | 268   | W                 | P <sub>ed, max</sub>  |
| Max. operating current (device) | 1.89  | 1.89  | A                 | I <sub>ed, max</sub>  |
| Max. speed                      | 2960  | 2960  | 1/min             | n <sub>max</sub>      |
| Max. stat. efficiency           | 49.5  | 49.5  | %                 | η <sub>es</sub>       |
| Max. fan efficiency             | 49.8  | 49.8  | %                 | η <sub>e</sub>        |
| Max. flowrate                   | 1790  | 1790  | m <sup>3</sup> /h | Q <sub>v, max</sub>   |
| Max. stat pressure              | 860   | 860   | Pa                | p <sub>st, max</sub>  |
| Max. medium temperature         | 55    | 55    | °C                | T <sub>m, max</sub>   |
| Max. environment temperature    | 55    | 55    | °C                | T <sub>amb, max</sub> |
| Min. environment temperature    | -30   | -30   | °C                | T <sub>amb, min</sub> |

## MOTOR DATA

| Name                     | Value    |                     | Unit  | Formula symbol          |
|--------------------------|----------|---------------------|-------|-------------------------|
|                          | 50 Hz    | 60 Hz               |       |                         |
| Rated frequency (device) |          | 50                  |       | f                       |
| Motor type               |          | EC                  |       | phase                   |
| Control type             |          | stepless-controlled |       | ctrltype                |
| Installation type        |          | ORM (Out)           |       | install                 |
| Rotation direction       |          | right               |       | rotation                |
| Isolation class          |          | ISO F               |       | ISOclass                |
| Motor-protection         |          | TEC                 |       | protectmotor            |
| Protection class         |          | IP30                |       | IPmotor                 |
| Is pole-changeable       |          | No                  |       | polexch                 |
| Type of power supply     |          | AC 1~               |       | pwrsupmotor             |
| Rated voltage            | 230      | 230                 | V     | U <sub>rated, f1</sub>  |
| Rated current            | 1.74     | 1.74                | A     | I <sub>rated, f1</sub>  |
| Shaft power              | 272      | 272                 | W     | P <sub>out, f1</sub>    |
| Speed                    | 2547     | 2547                | 1/min | n <sub>f1</sub>         |
| Efficiency               | 52       |                     | %     | η <sub>m, f1</sub>      |
| Min. temperature         |          | -30                 | °C    | T <sub>motor, min</sub> |
| Cos Phi                  | 0.000000 | 0.680000            |       | cos φ                   |
| UL-Certification motor   |          | None                |       | ULcert                  |

## SMOKE EXTRACT DATA

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

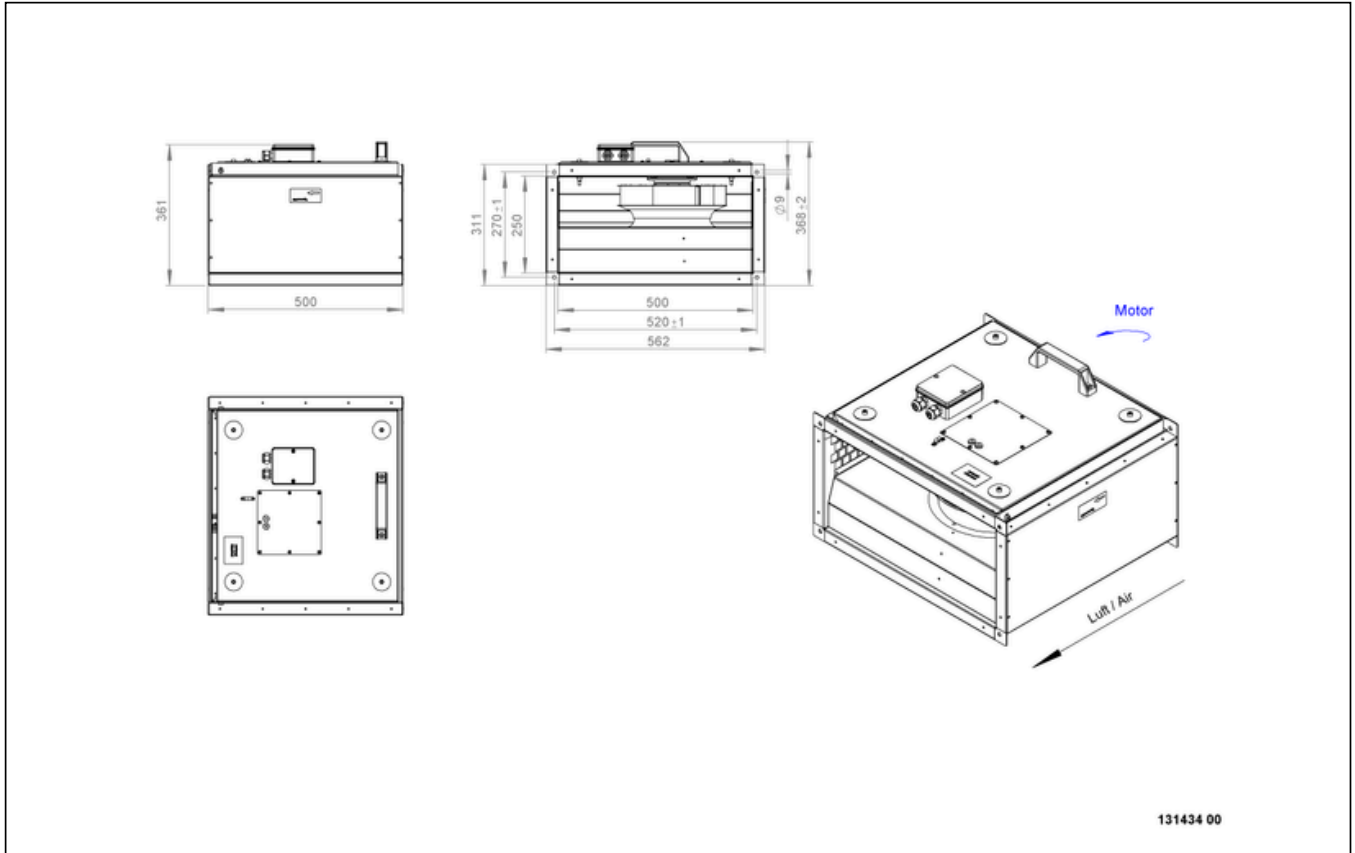


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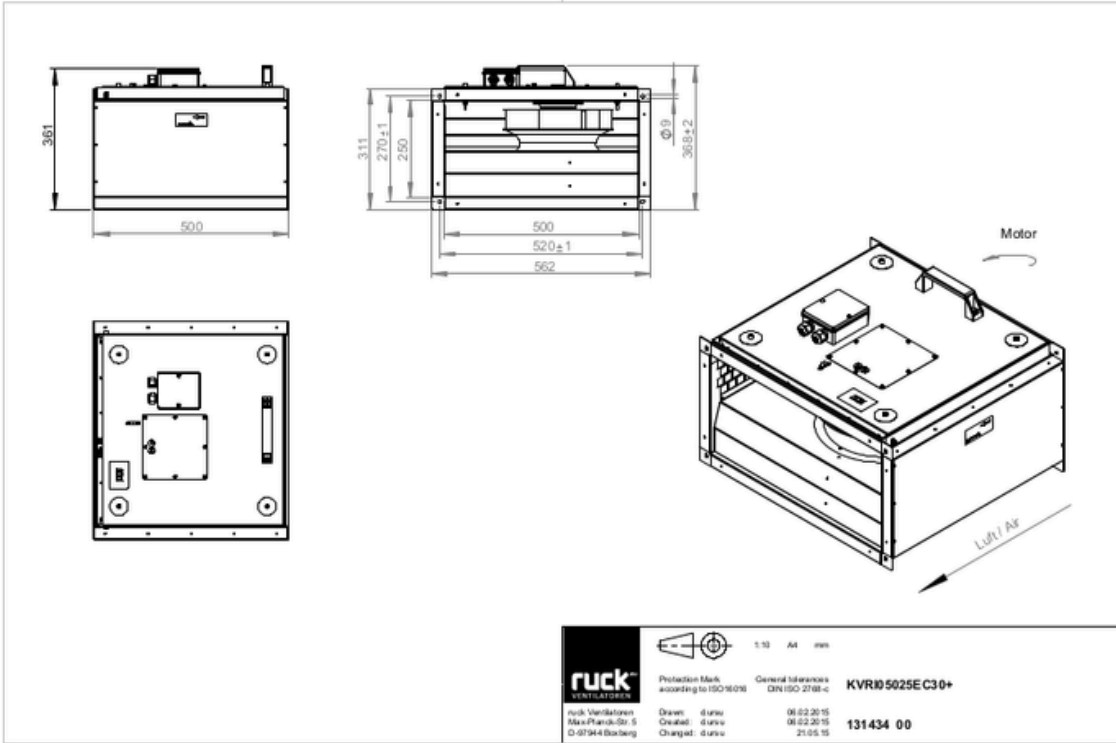
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## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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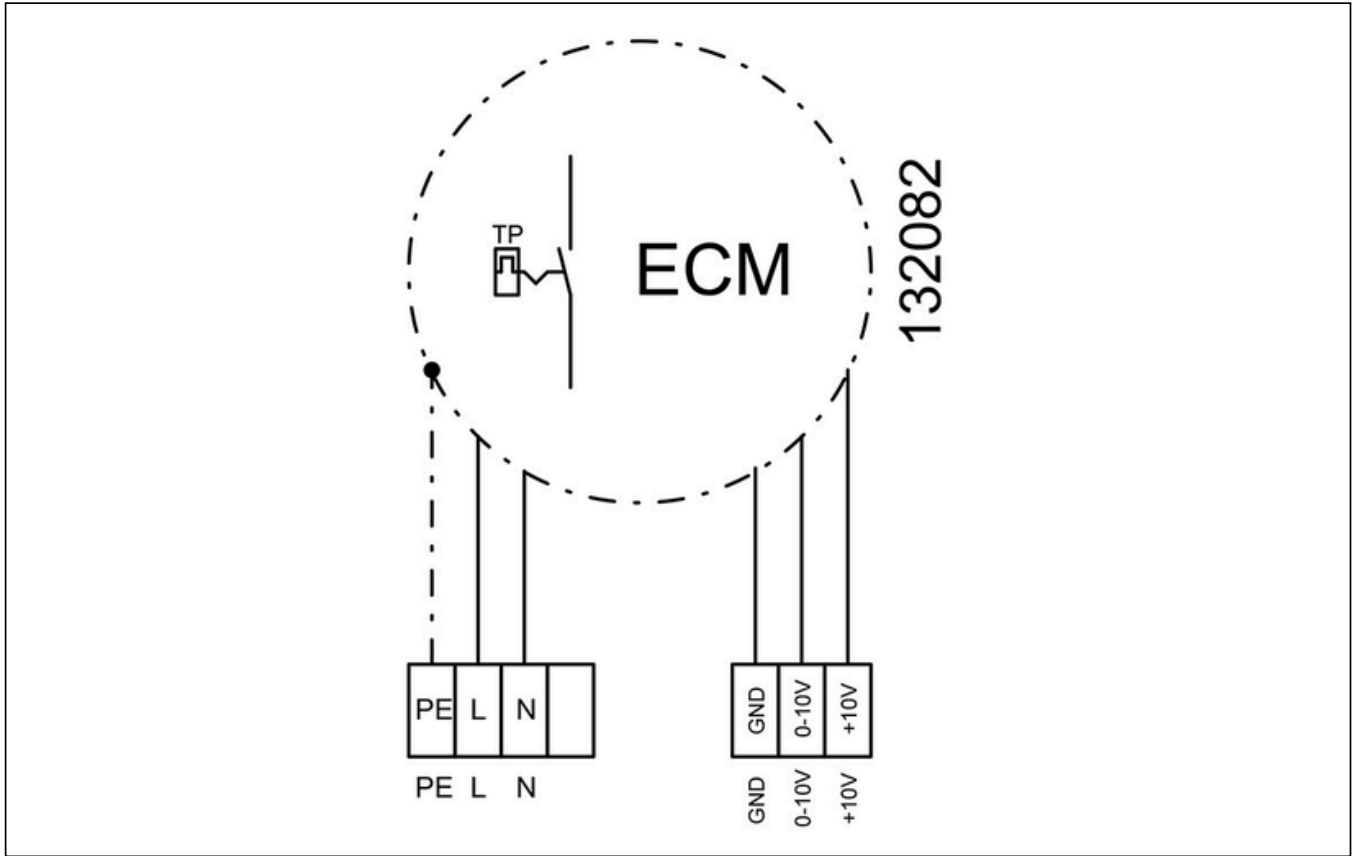
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|  |  |                   |  |                                |                   |
|--|--|-------------------|--|--------------------------------|-------------------|
|  <p><b>ruck</b><br/>VENTILATOREN</p> <p>ruck Ventilatoren<br/>Max-Planck-Str. 5<br/>D-97944 Boxberg</p> |  <p>Protection Mark<br/>according to ISO 9006</p> | <p>1:10 A4 mm</p> | <p>General tolerances<br/>DIN ISO 2768-c</p> | <p><b>KVRI 5025 EC 30+</b></p> |                   |
|  |  |                   |  | <p>Drawn: d.ursu</p>           | <p>08.02.2015</p> |
|  |  |                   |  | <p>Created: d.ursu</p>         | <p>08.02.2015</p> |
|  |  |                   |  | <p>Changed: d.ursu</p>         | <p>21.05.15</p>   |
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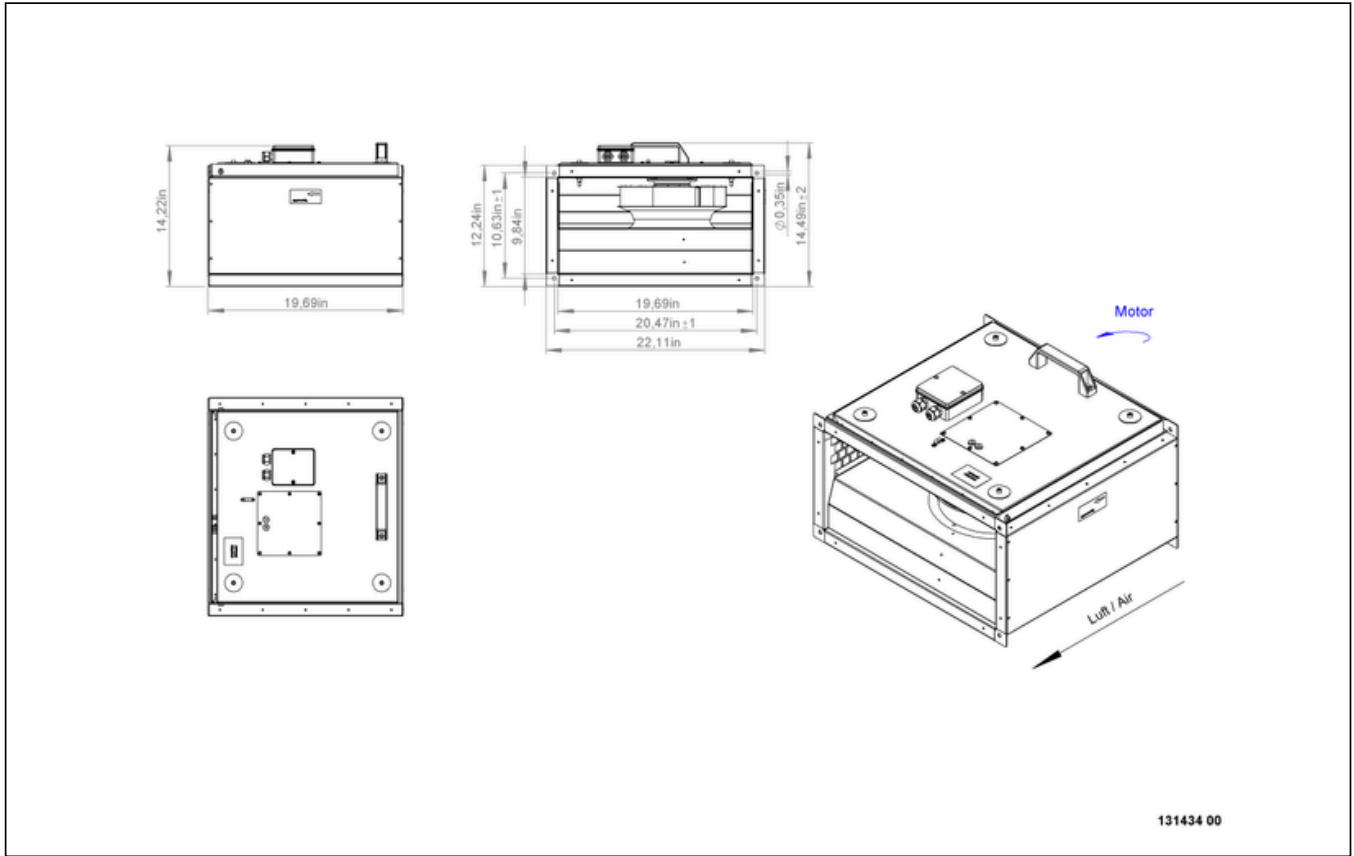
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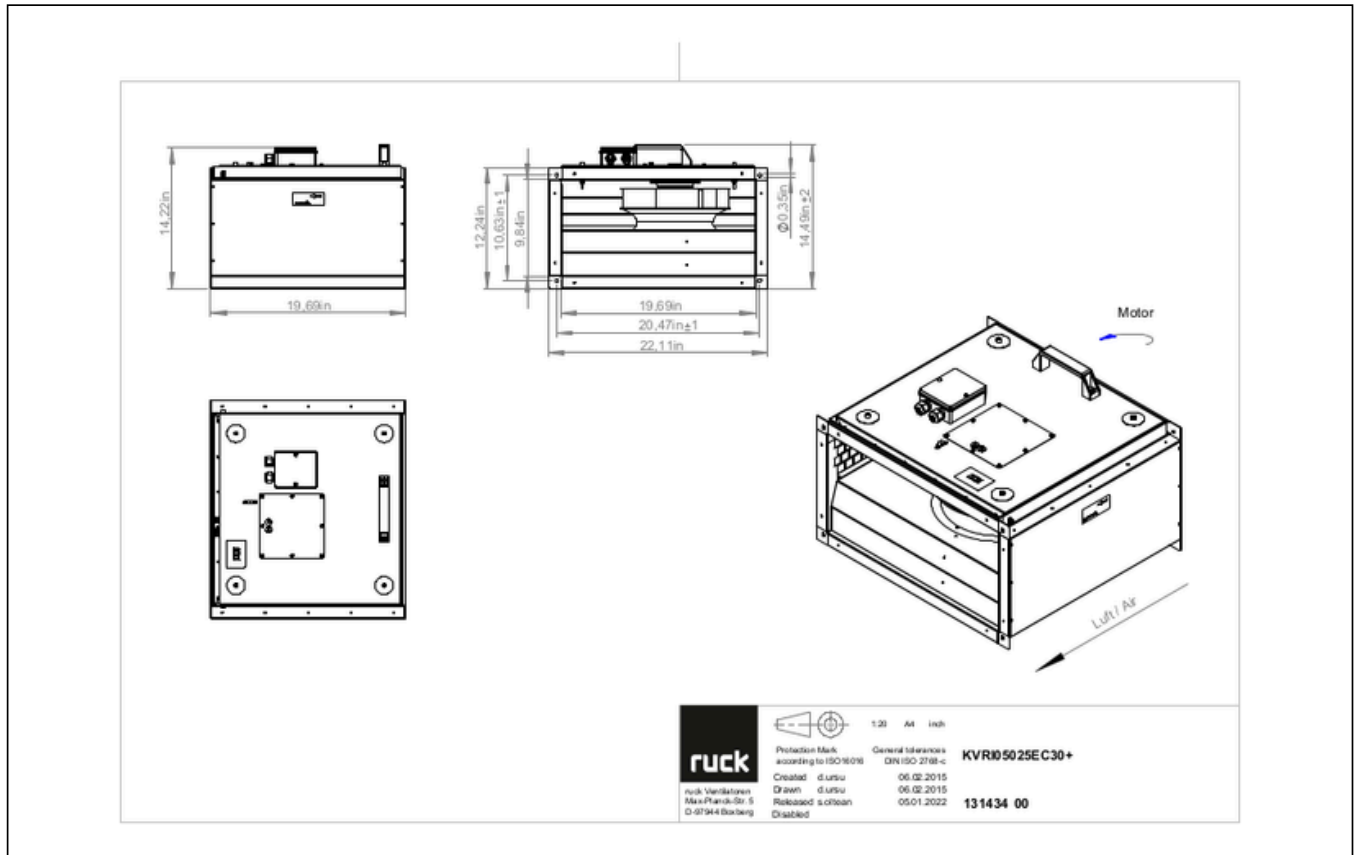
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## MECHANICAL ACCESSORIES

### VS 5025 | 102804



- Duct connector, flexible
- Standard profile flange P20
- Galvanized steel sheet, plastic band (PVC)
- Temperature resistant up to 70 °C

### VKK 5025 | 103894



- Automatic shutter
- Plastic, weather resistant
- Temperature resistant up to 70 °C





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## ELECTRICAL ACCESSORIES

**GS 03 | 107633**



- Device switch
- $U_{max} = 400\text{ V}$ ,  $I_{max} = 25\text{ A}$
- Switching capacity  $400\text{ V } 3\text{-} = 5,5\text{ kW}$
- Protection class IP 55

**CON P1000 | 115259**



- Constant pressure control
- Actual value display possible via optional control unit
- Output 0-10 V DC + FC enable + setpoint reached
- Pressure setting by means of decade switch

**MTP 20 | 128146**



- Potentiometer 10 k $\Omega$
- Switching contact 1A/250V AC - 2,5A/12V DC
- Max. ambient temperature 50 °C
- VDE

**MTP 30 | 143289**



- Stepped potentiometer 10 k $\Omega$
- Step 1 + 2 settable 10 % - 100 % Vdc
- Step 3 100 % Vdc
- Supply voltage +10 Vdc

**MTP 40 | 147359**



- Potentiometer 10 k $\Omega$
- Connection in terminal box
- Max. ambient temperature 50 °C
- PU: 20 pieces

**MTP 50 | 153133**



- Potentiometer with multifunction output
- 230 VAC  $\pm 10\%$  / 50-60 Hz
- Selectable output: 1-10 VDC / 2-20 mA / 10-100 % PWM
- Min. and max. output value adjustable



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