

# EMKI 6035 EC 23

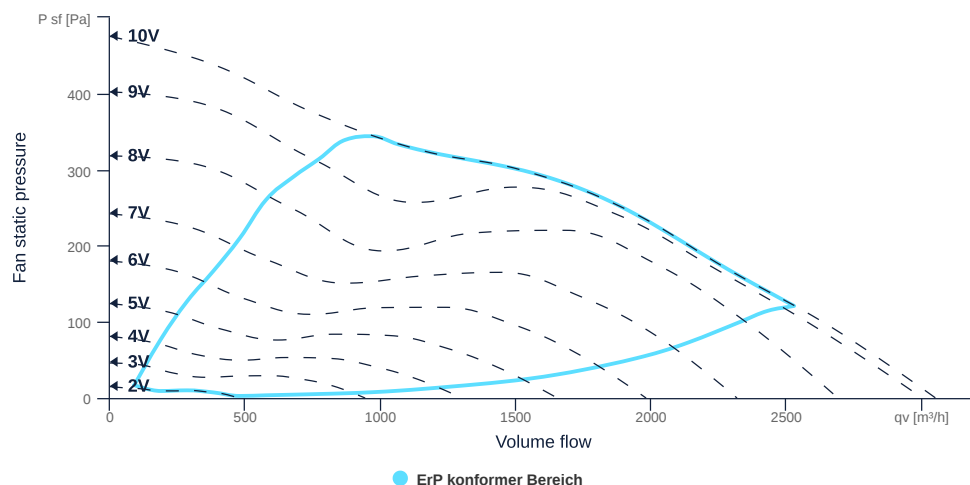
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- Efficiency optimized diagonal fan
- Optimally tuned and CFD-optimized aerodynamics
- Soundproof housing made of galvanized sheet steel
- Removable fan unit
- High efficiency EC motor, steplessly controllable
- Internal electronic temperature monitoring



## 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                                 | 600x350          |      | 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                         | Plastic          |      | mat <sub>impeller</sub> |
| Weight                                    | 16               | kg   | m                       |
| Nominal air flow rate, nominal point m³/h | 1839.6           | CmH  | q <sub>v,nom</sub>      |
| Nominal external pressure, static         | 267.7            | Pa   | p <sub>s,nom</sub>      |
| Fan type                                  | Diagonal         |      | Fan <sub>type</sub>     |
| Category / Installation situation         | A                |      | cat                     |

## ERP DATA (LOT 6)

| Name                                            | Value                     | Unit | Formula symbol      |
|-------------------------------------------------|---------------------------|------|---------------------|
| Nominal air flow rate, nominal point m³/s       | 0.51                      | CmS  | q <sub>v,nom</sub>  |
| Actual electrical input power, nominal point    | 0.25                      | kw   | P <sub>e,nom</sub>  |
| Face velocity, nominal point                    | 2.4                       | mps  | v <sub>nom</sub>    |
| Nominal external pressure, static               | 267.7                     | Pa   | p <sub>s,nom</sub>  |
| supply air fan static efficiency, nominal point | 61.1                      | p    | η <sub>es,SUP</sub> |
| Enclosure sound level, nominal point            | 55                        | db   | LWA2                |
| Rating                                          | Product is compliant 2018 |      |                     |

## MAXIMAL DATA

| Name                            | Value |       | Unit | Formula symbol        |
|---------------------------------|-------|-------|------|-----------------------|
|                                 | 50 Hz | 60 Hz |      |                       |
| Max. power consumption (device) | 264   | 264   | w    | P <sub>ed, max</sub>  |
| Max. operating current (device) | 1.85  | 1.85  | A    | I <sub>ed, max</sub>  |
| Max. speed                      | 2210  | 2210  | rpm  | n <sub>max</sub>      |
| Max. stat. efficiency           | 49.8  | 49.8  | p    | η <sub>es</sub>       |
| Max. fan efficiency             | 50.4  | 50.4  | p    | η <sub>e</sub>        |
| Max. flowrate                   | 3050  | 3050  | CmH  | q <sub>v, max</sub>   |
| Max. stat pressure              | 475   | 475   | Pa   | p <sub>sf, max</sub>  |
| Max. medium temperature         | 35    | 35    | °C   | T <sub>m, max</sub>   |
| Max. environment temperature    | 35    | 35    | °C   | T <sub>amb, max</sub> |
| Min. environment temperature    | -30   | -30   | °C   | T <sub>amb, min</sub> |
| Min. voltage                    | 230   | 230   | v    | U <sub>min</sub>      |



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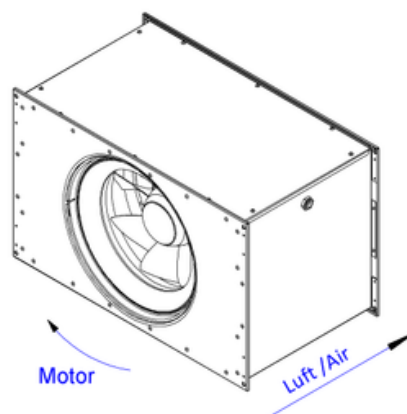
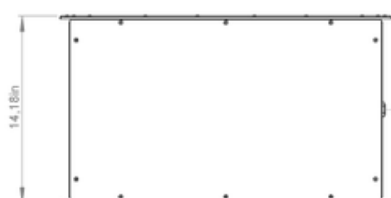
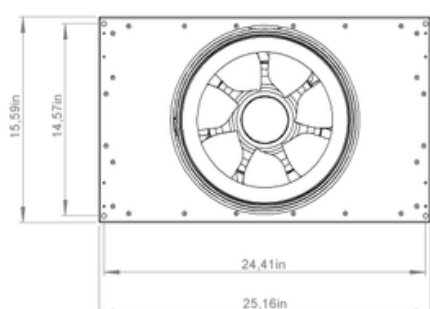
## MOTOR DATA

| Name                     | Value |                     | Unit | Formula symbol |
|--------------------------|-------|---------------------|------|----------------|
|                          | 50 Hz | 60 Hz               |      |                |
| Rated frequency (device) |       | 50                  |      | f              |
| Motor type               |       | EC                  |      | phase          |
| 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    | Urated, f1     |
| Rated current            | 1.61  | 1.61                | A    | Irated, f1     |
| Nominal power            | 253   | 253                 | w    | Pa             |
| Speed                    | 1946  | 1946                | rpm  | nf1            |
| Min. temperature         | -30   | -30                 | °C   | Tmotor, min    |
| UL-Certification motor   |       | None                |      | ULcert         |

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## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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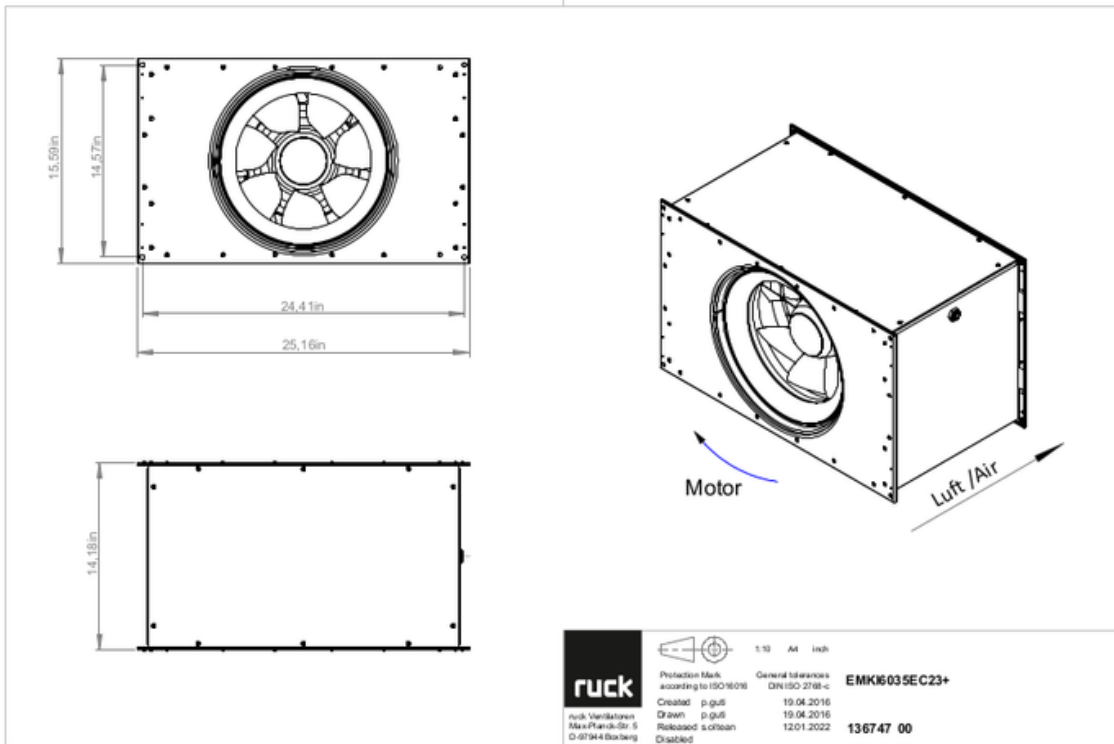


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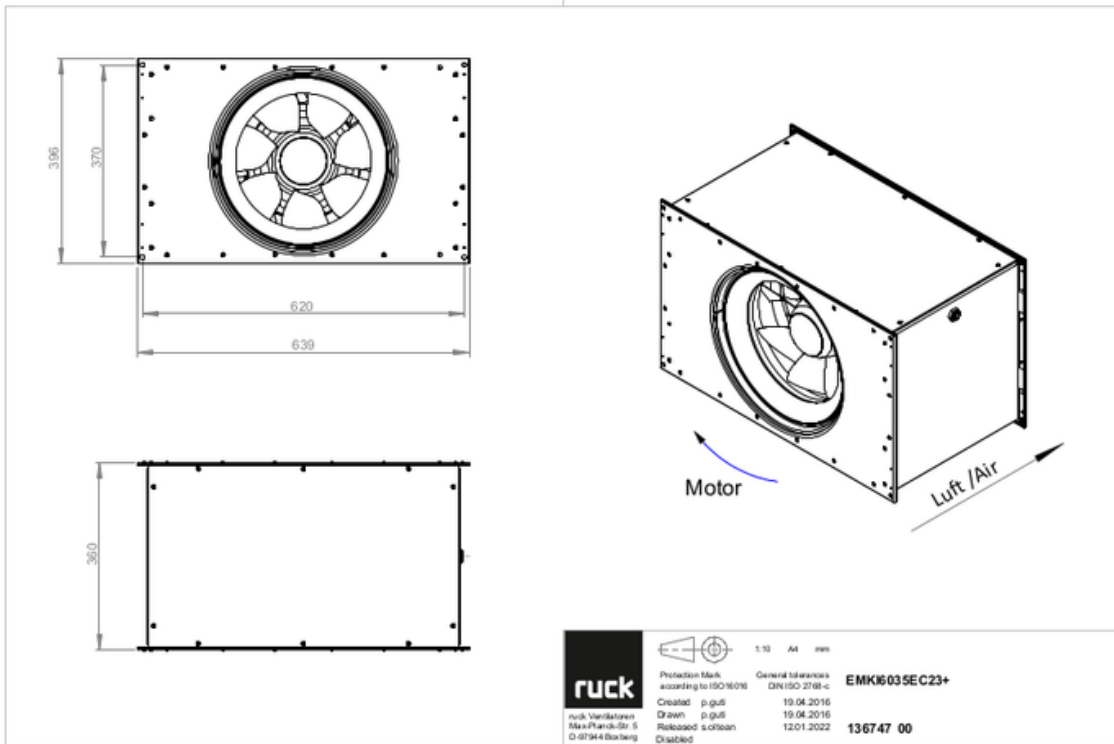


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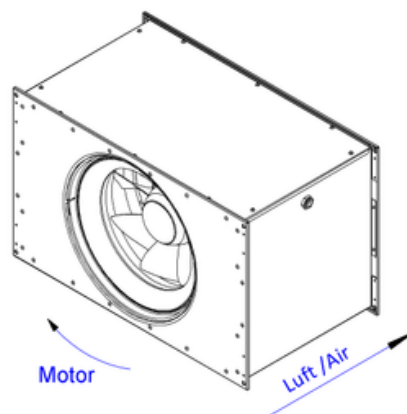
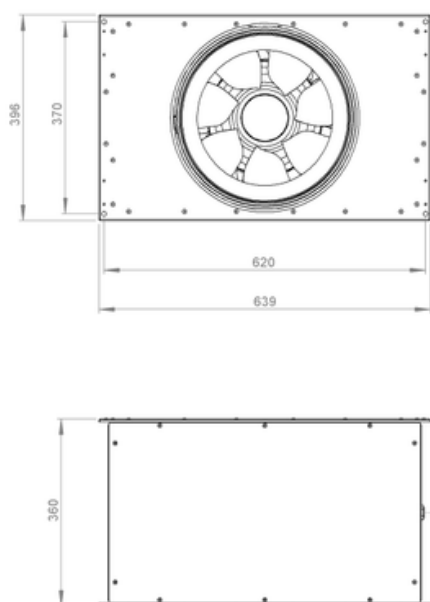
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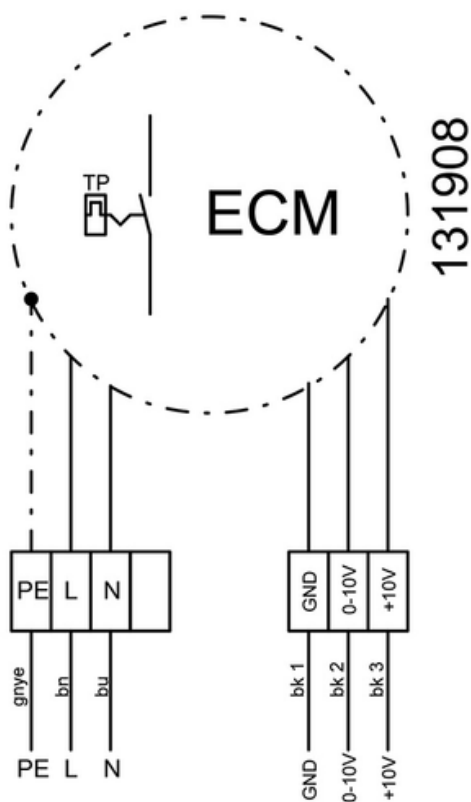
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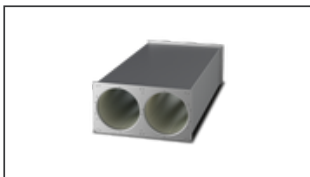
## MECHANICAL ACCESSORIES

### VS 6035 | 102808



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

### SDE 6035 L02 | 127751



- Duct silencer
- Sendzimir galvanized sheet steel housing
- Sound absorption by mineral wool with fleece covering on air side
- 20 mm flange profiles

### VKK 6035 | 169684



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



## ELECTRICAL ACCESSORIES

### GS 01 | 102787



- Isolator switch
- $U_{max} = 400 \text{ V}$ , 50/60 Hz
- Switching capacity 400 V 3~ = 7,5 kW
- $I_{max} = 25 \text{ A}$

### 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 | 168752



- 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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