

# DVA 250 E4P 31

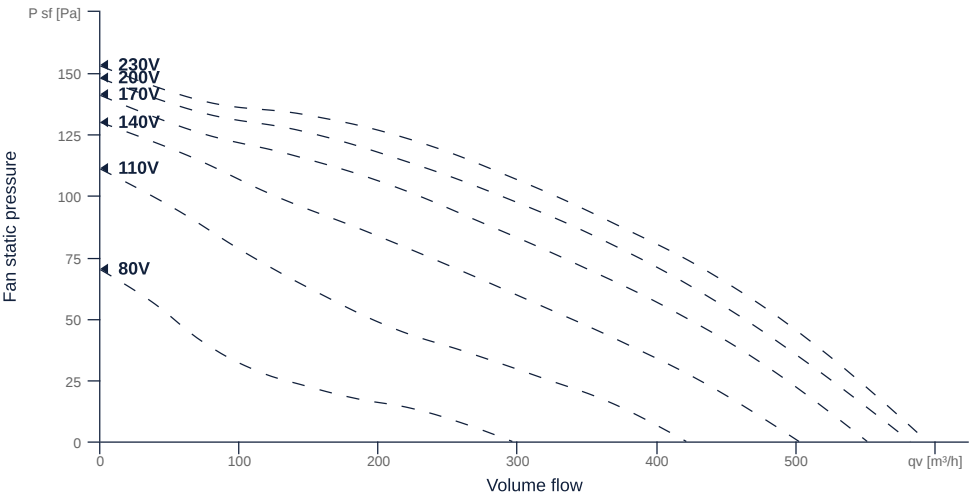
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- Backward curved radial impeller
- Vertical discharge
- Housing made of aluminum AlMg3
- Robust single phase AC motor, steplessly controllable
- Conveyed medium temperature up to 70 °C in continuous operation
- Integrated device switch



## MAP

| 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)                 | -                |      | 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                          | Aluminium        |      | mat <sub>casing</sub>   |
| Impeller material                         | Galvanized steel |      | mat <sub>impeller</sub> |
| IP-protection class (casing)              | IP44             |      | IP <sub>casing</sub>    |
| IP-protection class (entire device)       | IPX4             |      | IP <sub>compl</sub>     |
| Weight                                    | 5.76             | kg   | m                       |
| Nominal air flow rate, nominal point m³/h | 363.6            | m³/h | q <sub>v,nom</sub>      |
| Nominal external pressure, static         | 63               | 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 m³/s       | 0.1                       | m³/s  | q <sub>v,nom</sub>  |
| Actual electrical input power, nominal point    | 0.03                      | kW    | P <sub>e,nom</sub>  |
| Face velocity, nominal point                    | 2.48                      | m/s   | v <sub>nom</sub>    |
| Nominal external pressure, static               | 63                        | Pa    | p <sub>s,nom</sub>  |
| supply air fan static efficiency, nominal point | 20.3                      | %     | η <sub>es,SUP</sub> |
| Enclosure sound level, nominal point            | 66                        | 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) | 52    | 62    | W     | P <sub>ed, max</sub>  |
| Max. operating current (device) | 0.32  | 0.36  | A     | I <sub>ed, max</sub>  |
| Max. speed                      | 1400  | 1650  | 1/min | n <sub>max</sub>      |
| Max. stat. efficiency           | 16.7  | 20.6  | %     | η <sub>es</sub>       |
| Max. fan efficiency             | 17.5  | 21.3  | %     | η <sub>e</sub>        |
| Max. flowrate                   | 590   | 690   | m³/h  | Q <sub>v, max</sub>   |
| Max. stat pressure              | 150   | 210   | Pa    | p <sub>sf, max</sub>  |
| Max. medium temperature         | 70    | 75    | °C    | T <sub>m, max</sub>   |
| Max. environment temperature    | 70    | 75    | °C    | T <sub>amb, max</sub> |
| Min. environment temperature    | -25   | -25   | °C    | T <sub>amb, min</sub> |
| Min. voltage                    | 80    | 80    | V     | U <sub>min</sub>      |
| Stall current                   | 0.35  | 0.35  | 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        | ORM (Out)           |          |       | install                 |
| Rotation direction       | right               |          |       | rotation                |
| Isolation class          | ISO F               |          |       | ISOclass                |
| Motor-protection         | TAI                 |          |       | protectmotor            |
| Protection class         | IP33                |          |       | IP <sub>motor</sub>     |
| Is pole-changeable       | No                  |          |       | polexch                 |
| Type of power supply     | AC 1~               |          |       | p <sub>wsup</sub> motor |
| Capacity capacitor       | 2                   |          | μF    | C <sub>cond</sub>       |
| Voltage capacitor        | 450                 |          | V     | V <sub>Ucond</sub>      |
| Number of poles (1)      | 4.000000            |          |       | num poles <sub>w1</sub> |
| Rated voltage            | 230                 |          | V     | U <sub>rated, f1</sub>  |
| Rated current            | 0.28                |          | A     | I <sub>rated, f1</sub>  |
| Speed                    | 1454                |          | 1/min | n <sub>f1</sub>         |
| Min. temperature         | -30                 |          | °C    | T <sub>motor, min</sub> |
| Cos Phi                  | 0.990000            | 0.000000 |       | cos φ                   |
| UL-Certification motor   | None                |          |       | ULcert                  |



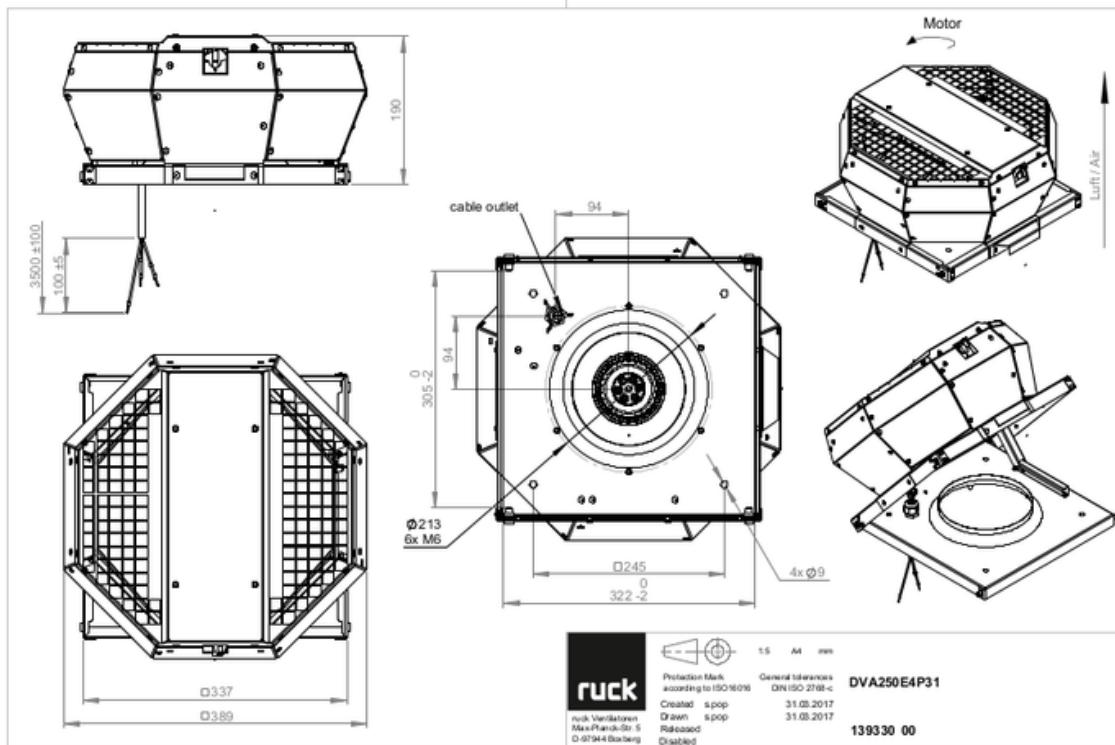
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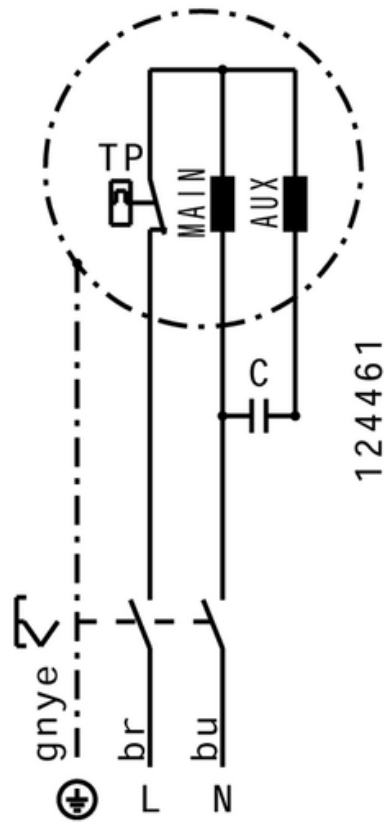
## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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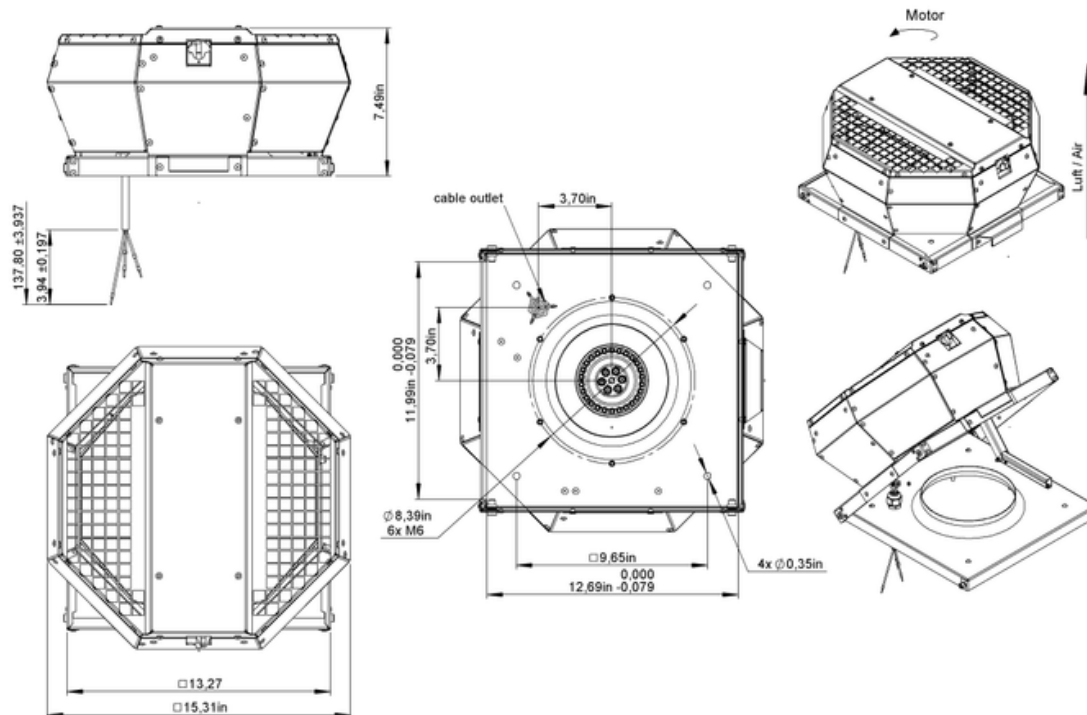


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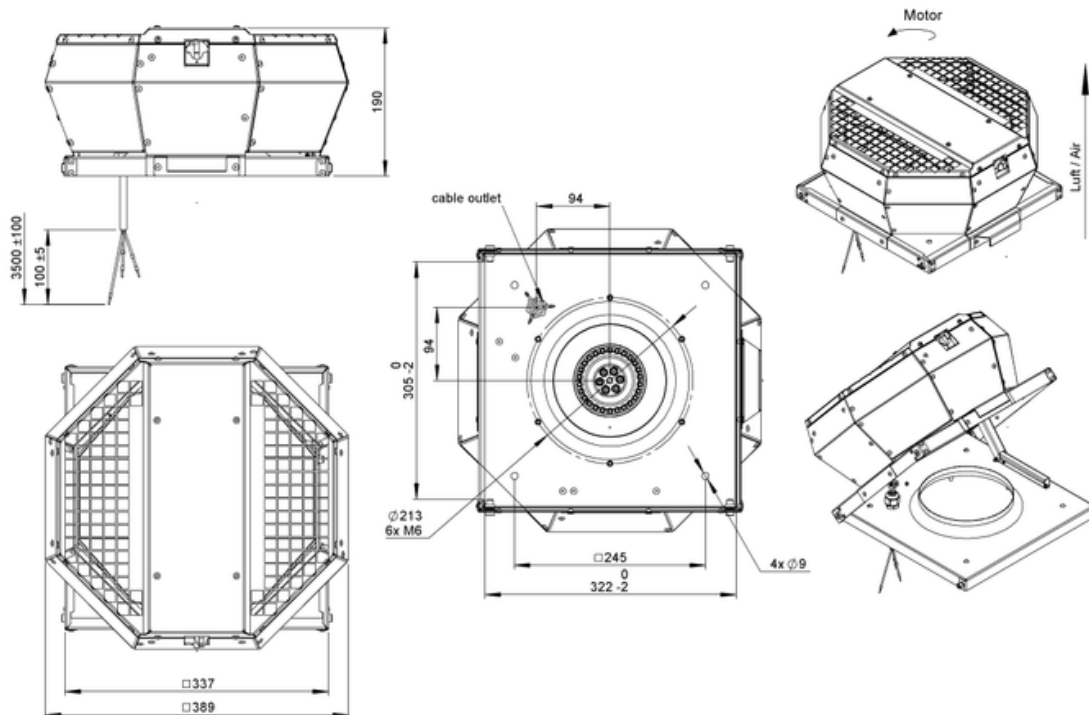


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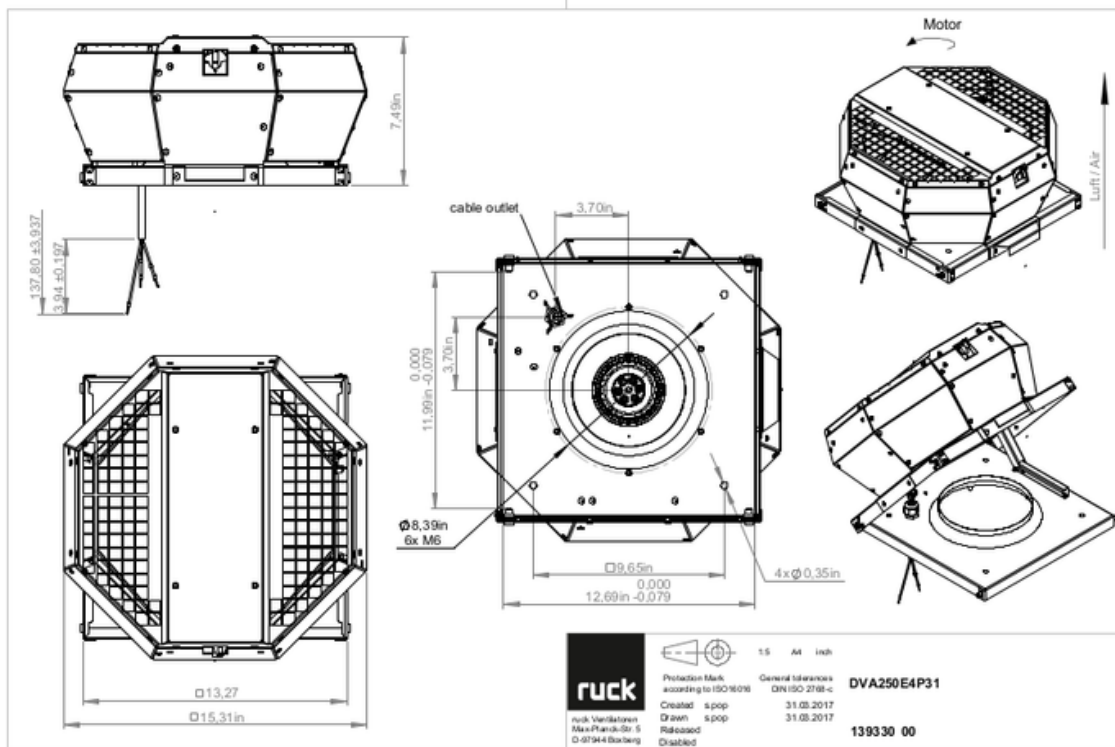


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## MECHANICAL ACCESSORIES

**DVK 180 10 | 153000**



- Automatic roof shutter
- Galvanized steel sheet

**DAF 150 | 110735**



- Roof inlet flange
- Galvanized steel sheet

**DAF 180 | 110744**



- Roof inlet flange
- Galvanized steel sheet

**DAS 180 | 110745**



- Flexible roof inlet spigot
- Temperature resistant up to 75 °C

**DAF 160 | 137396**



- Roof inlet flange
- Galvanized steel sheet

**DSF 220-10 | 126170**



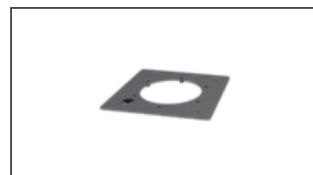
- Flat roof socket
- Made of aluminum AlMg3
- Sound and heat insulation

**DSF 220-12 | 133709**



- Sloped roof socket
- Made of aluminum AlMg3
- Sound and heat insulation
- For roof slope 3°

**DAP 220 | 133946**



- Adapter plate for roof mounting of roof fans
- Galvanized steel sheet

**DSS 220-10 | 126356**



- Flat roof socket silencer
- Made of aluminum AlMg3
- Sound and heat insulation

**DSS 220-12 | 134283**



- Sloped roof socket silencer
- Made of aluminum AlMg3
- Sound and heat insulation
- For roof slope 3°

## ELECTRICAL ACCESSORIES

**TES 0145 | 111858**



- Step transformer
- 230 V ~, 50/60 Hz

**TEE 015 | 115893**



- 5-step transformer
- 230 V ~, 50/60 Hz



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