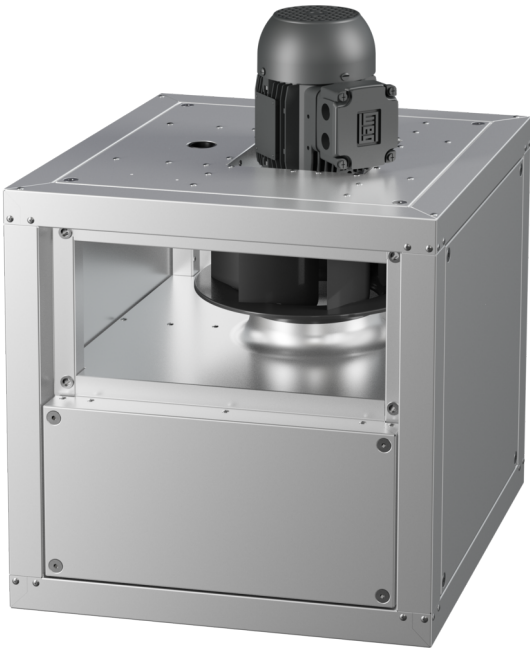


# MPC 225 D2 TI 40

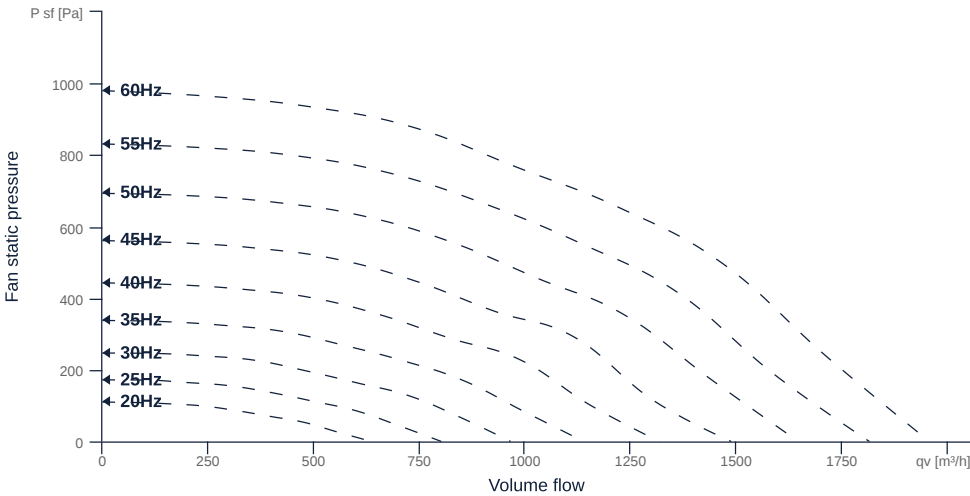
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- Backward curved radial impeller
- Removable side walls, variable discharge direction
- Sheet steel housing double-walled, 30 mm mineral wool
- AC motor outside the airflow, controllable
- Conveyed medium temperature up to 120 °C in continuous operation
- Housing bottom designed with integrated drain



## 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)             | 400              | V    | U <sub>rated</sub>      |
| Phases (entire device)                    | 3~               |      | phase                   |
| Electrical protection (entire device)     | 6 A              |      | fuse                    |
| Housing material                          | Galvanized steel |      | mat <sub>casing</sub>   |
| Impeller material                         | Steel            |      | mat <sub>impeller</sub> |
| Weight                                    | 40.3             | kg   | m                       |
| Nominal air flow rate, nominal point m³/h | 1065.6           | m³/h | q <sub>v,nom</sub>      |
| Nominal external pressure, static         | 724              | Pa   | p <sub>s,nom</sub>      |
| Fan type                                  | Radial           |      | F <sub>antype</sub>     |
| Category / Installation situation         | A                |      | cat                     |

## ERP DATA (LOT 6)

| Name                                            | Value                     | Unit  | Formula symbol      |
|-------------------------------------------------|---------------------------|-------|---------------------|
| Nominal air flow rate, nominal point m³/s       | 0.3                       | m³/s  | q <sub>v,nom</sub>  |
| Actual electrical input power, nominal point    | 0.46                      | kW    | P <sub>e,nom</sub>  |
| Face velocity, nominal point                    | 5.4                       | m/s   | v <sub>nom</sub>    |
| Nominal external pressure, static               | 724                       | Pa    | p <sub>s,nom</sub>  |
| supply air fan static efficiency, nominal point | 53.2                      | %     | η <sub>es,SUP</sub> |
| Highest external air leakage rate               | 0.2                       | %     |                     |
| Enclosure sound level, nominal point            | 74                        | dB(A) | L <sub>WA2</sub>    |
| Rating                                          | Product is compliant 2018 |       |                     |

## MAXIMAL DATA

| Name                            | Value | Unit  | Formula symbol        |
|---------------------------------|-------|-------|-----------------------|
| Max. power consumption (device) | 317   | W     | P <sub>ed, max</sub>  |
| Max. operating current (device) | 0.9   | A     | I <sub>ed, max</sub>  |
| Max. speed                      | 3520  | 1/min | n <sub>max</sub>      |
| Max. stat. efficiency           | 40.9  | %     | η <sub>es</sub>       |
| Max. fan efficiency             | 41.8  | %     | η <sub>e</sub>        |
| Max. flowrate                   | 1960  | m³/h  | q <sub>v, max</sub>   |
| Max. stat pressure              | 980   | Pa    | p <sub>sf, max</sub>  |
| Max. medium temperature         | 120   | °C    | T <sub>m, max</sub>   |
| Max. environment temperature    | 60    | °C    | T <sub>amb, max</sub> |
| Min. environment temperature    | -20   | °C    | T <sub>amb, min</sub> |



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## MOTOR DATA

| Name                        | Value    |                      | Unit  | Formula symbol          |
|-----------------------------|----------|----------------------|-------|-------------------------|
|                             | 50 Hz    | 60 Hz                |       |                         |
| Rated frequency (device)    |          | 50                   |       | f                       |
| Motor type                  |          | AC 3~                |       | phase                   |
| Control type                |          | frequency-controlled |       | ctrltype                |
| Installation type           |          | IRM (In)             |       | install                 |
| Rotation direction          |          | right                |       | rotation                |
| Isolation class             |          | ISO F                |       | ISOclass                |
| Protection class            |          | IP55                 |       | IPmotor                 |
| Is pole-changeable          |          | No                   |       | polexch                 |
| Type of power supply        |          | AC 3~                |       | pwrsupmotor             |
| Number of poles (1)         |          | 2.000000             |       | num polesw1             |
| Connection                  | $\Delta$ | Y                    |       | wiringw1                |
| Connection (wiring 2)       | Y        |                      |       | wiringw2                |
| Rated voltage               | 230      | 460                  | V     | U <sub>rated, f1</sub>  |
| Rated voltage (wiring 2)    | 400      |                      | V     | U <sub>rated, f2</sub>  |
| Rated current               | 2.07     | 1.07                 | A     | I <sub>rated, f1</sub>  |
| Rated current (wiring 2)    | 1.19     |                      | A     | I <sub>rated, f2</sub>  |
| Shaft power                 | 550      | 550                  | W     | P <sub>out, f1</sub>    |
| Shaft power (wiring 2)      | 550      |                      | W     | P <sub>out, f2</sub>    |
| Speed                       | 2770     | 3415                 | 1/min | n <sub>f1</sub>         |
| Speed (wiring 2)            | 2770     |                      | 1/min | n <sub>f2</sub>         |
| Starting current            | 122      | 7.81                 | A     | I <sub>start, f1</sub>  |
| Starting current (wiring 2) | 70.2     |                      | A     | I <sub>start, f2</sub>  |
| Efficiency                  | 77.8     | 77                   | %     | $\eta_m, f1$            |
| Efficiency (wiring 2)       | 77.8     |                      | %     | $\eta_m, f2$            |
| Efficiency class            | IE3      | IE3                  |       | IE <sub>motor</sub>     |
| Min. temperature            | -20      | -20                  | °C    | T <sub>motor, min</sub> |
| Cos Phi                     | 0.860000 | 0.840000             |       | cos $\varphi$           |
| UL-Certification motor      |          | UL recognized        |       | ULcert                  |



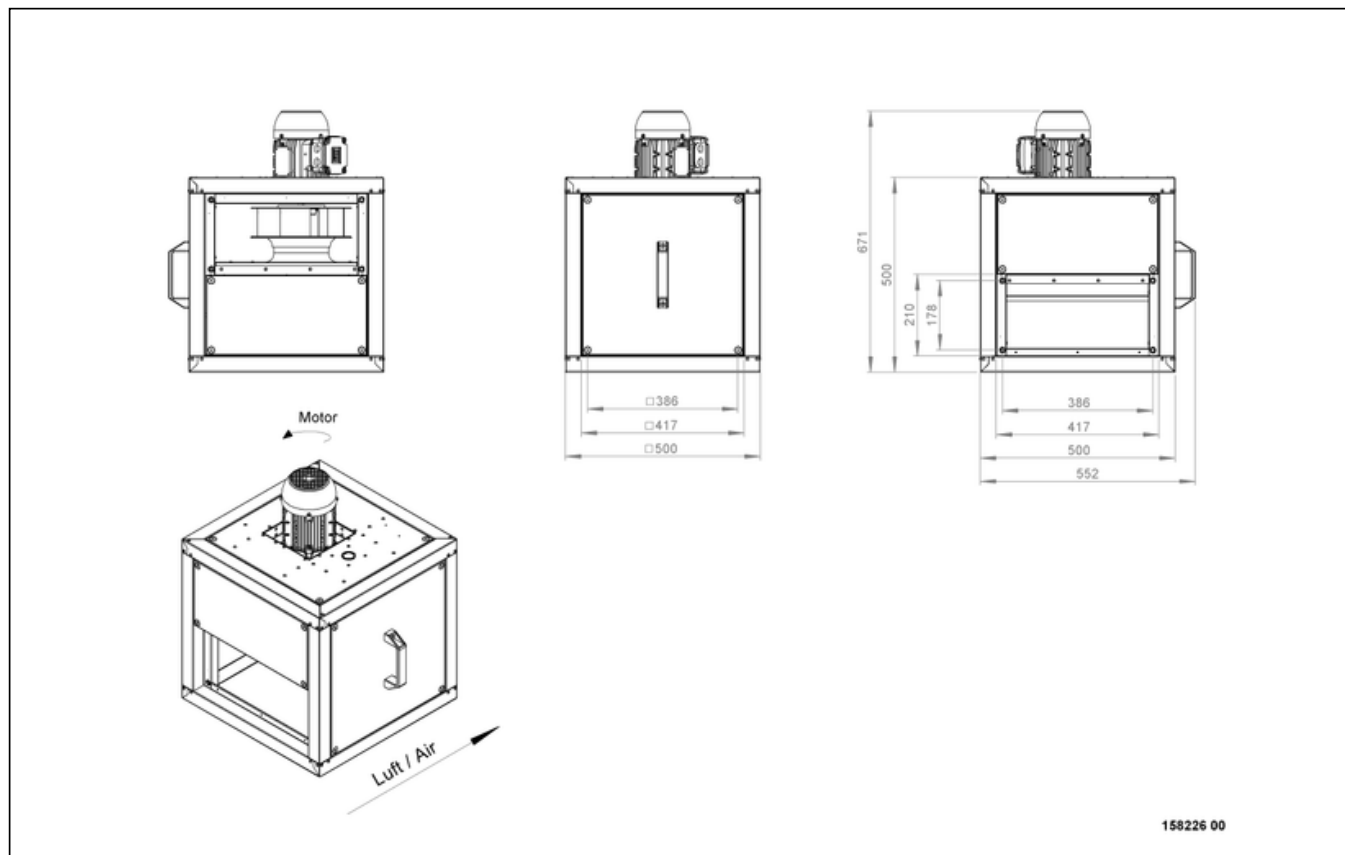
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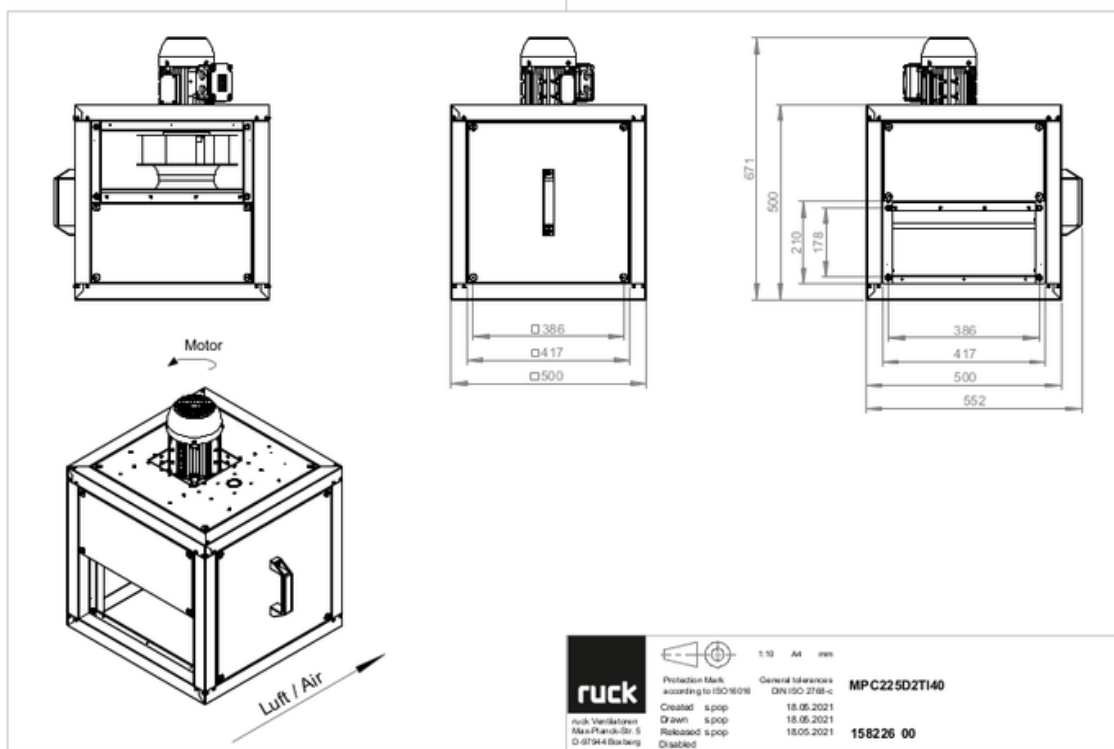
## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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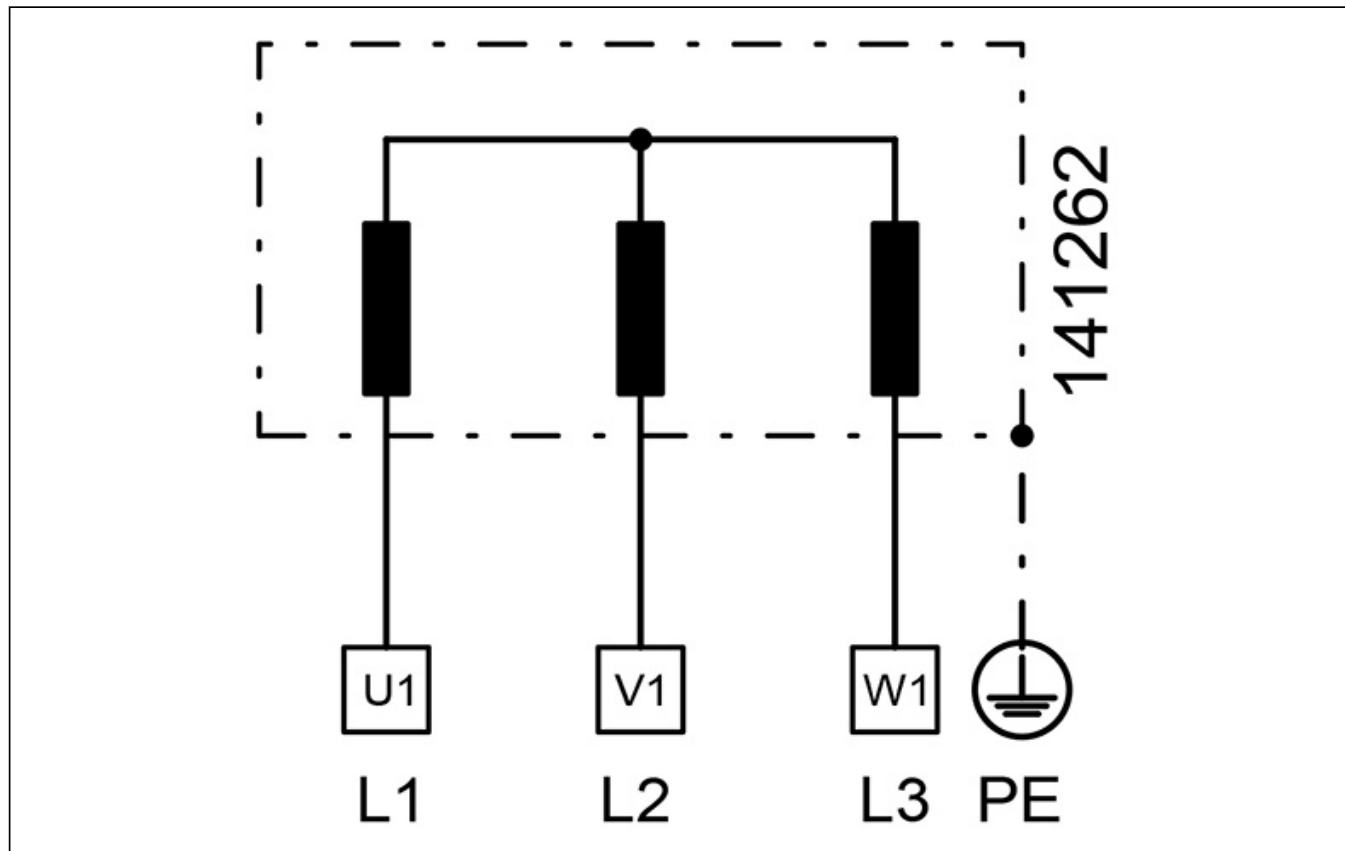
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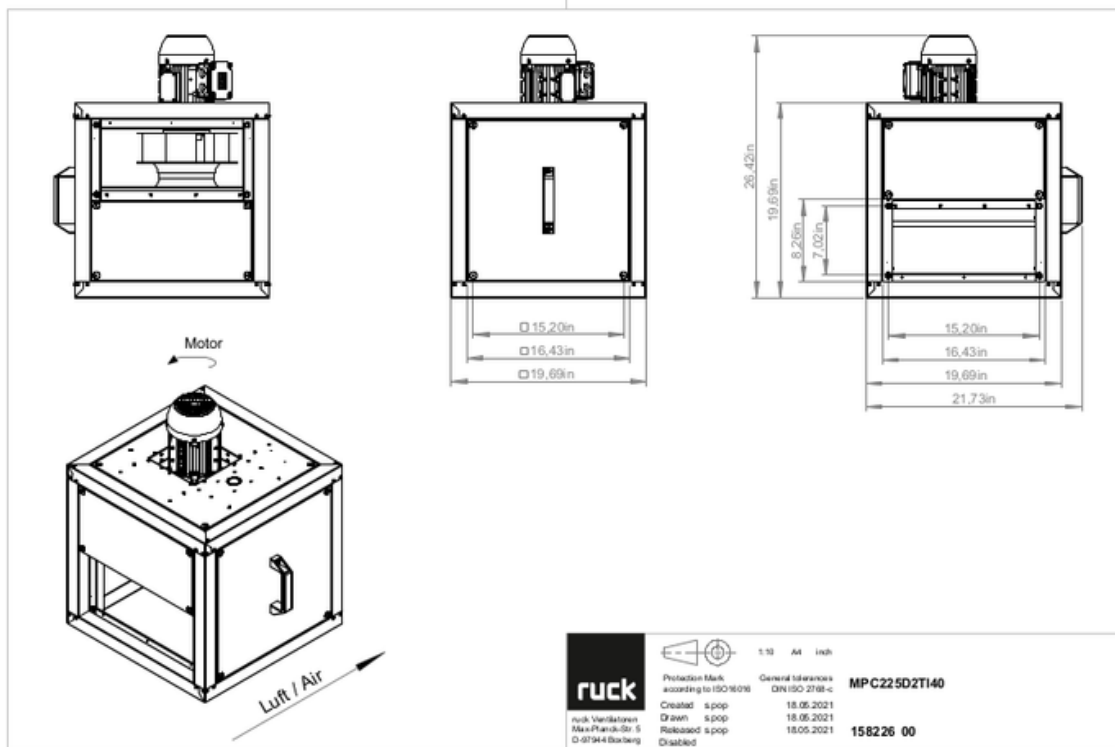


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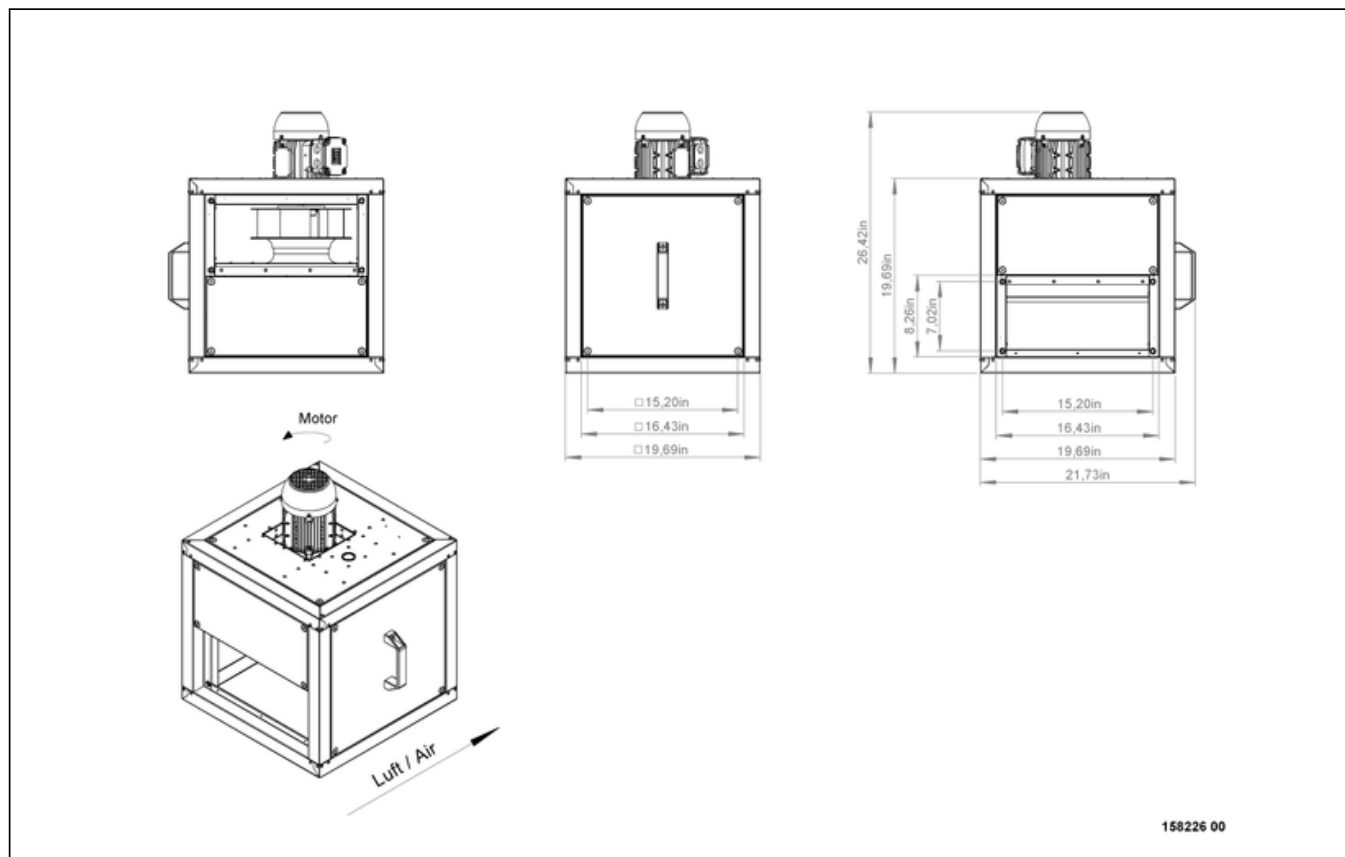
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## MECHANICAL ACCESSORIES

### RSK 200 | 102662



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

### RSK 200D | 113487



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

### UCPD 500 | 146783



- Panel
- With condensate drain
- Galvanized steel sheet

### VS 39 20 | 160121



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

### UKR 3920 11 | 160127



- Transition duct / tube
- Steel sheet, galvanized
- 390 x 200 mm / NW 200 mm with seal lips

### VM 200 | 102650



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



## ELECTRICAL ACCESSORIES

**GS 03 | 107633**



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

**MS 01 | 140407**



- Motor protection switch with Isolator switchfunktion
- $I_{max} = 400\text{ V}$ ,  $50/60\text{ Hz}$
- Max.  $0,55\text{ kW}$
- Protection class IP 55

**MTP 20 | 128146**



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

**MTP 30 | 143289**



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

**MTP 40 | 147359**



- Potentiometer  $10\text{ k}\Omega$
- Connection in terminal box
- Max. ambient temperature  $50\text{ }^{\circ}\text{C}$
- PU: 20 pieces

**SEN AIR | 148641**



- Airflow and temperature transducer
- Measuring range temperature  $0\ldots+50\text{ }^{\circ}\text{C}$
- With adjustable switching threshold (air speed)
- Measuring range air velocity up to  $20\text{ m/s}$

**CON P1000 | 115259**



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

**FU 075 08 | 141836**



- Frequency converter
- Supply voltage  $230\text{ V } 1\sim 50/60\text{ Hz}$
- Output voltage  $0 - 230\text{ V } 3\sim$
- Protection class IP 20, for switch cabinet

**FU 075 26 | 141869**



- Frequency converter
- Supply voltage  $400\text{ V } 3\sim 50/60\text{ Hz}$
- Output voltage  $0 - 400\text{ V } 3\sim$
- Fire mode function (smoke extract fans)

**FU 075 14 | 141847**



- Frequency converter IP66
- Supply voltage  $230\text{ V } 1\sim 50/60\text{ Hz}$
- Output voltage  $0 - 230\text{ V } 3\sim$
- Fire mode function (smoke extract fans)

**FU 075 20 | 141858**



- Frequency converter
- Supply voltage  $400\text{ V } 3\sim 50/60\text{ Hz}$
- Output voltage  $0 - 400\text{ V } 3\sim$
- Protection class IP 20, for switch cabinet

**MTP 50 | 153133**



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

