

# MPS 225 D2 40

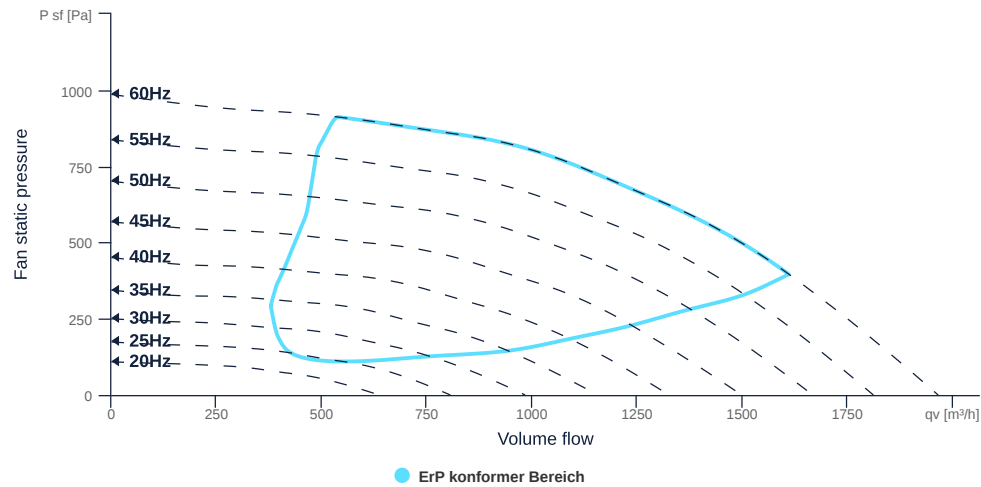
156622

- Backward curved radial impeller
- Swing out fan unit
- Sheet steel housing double-walled, 40 mm mineral wool
- Efficient IE3 motor, outside the airflow
- Conveyed medium temperature up to 120 °C in continuous operation
- With condensate and grease drain



## MAP

| Name        | Value | Unit |
|-------------|-------|------|
| Volume flow | 0     | m³/h |
| Pressure    | 0     | Pa   |



to the product detail page

# MPS 225 D2 40

156622

ruck

## GENERAL DATA

| Name                                      | Value            | Unit | Formula symbol          |
|-------------------------------------------|------------------|------|-------------------------|
| Labeling                                  | CE, UKCA         |      |                         |
| Duct size                                 | -                |      | WxH <sub>duct</sub>     |
| Pipe connection size (DN)                 | DN200            |      | 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                                    | 29.3             | kg   | m                       |
| Nominal air flow rate, nominal point m³/h | 1144.8           | m³/h | q <sub>v,nom</sub>      |
| Nominal external pressure, static         | 736.7            | 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       | 0.32                      | m³/s  | q <sub>v,nom</sub>  |
| Actual electrical input power, nominal point    | 0.48                      | kW    | P <sub>e,nom</sub>  |
| Face velocity, nominal point                    | 10.1                      | m/s   | v <sub>nom</sub>    |
| Nominal external pressure, static               | 736.7                     | 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               | 0.07                      | %     |                     |
| Enclosure sound level, nominal point            | 76                        | dB(A) | L <sub>WA2</sub>    |
| Rating                                          | Product is compliant 2018 |       |                     |

## MAXIMAL DATA

| Name                            | Value | Unit  | Formula symbol        |
|---------------------------------|-------|-------|-----------------------|
| Max. power consumption (device) | 486   | W     | P <sub>ed, max</sub>  |
| Max. operating current (device) | 0.91  | A     | I <sub>ed, max</sub>  |
| Max. speed                      | 3530  | 1/min | n <sub>max</sub>      |
| Max. stat. efficiency           | 46.3  | %     | η <sub>es</sub>       |
| Max. fan efficiency             | 50.6  | %     | 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> |
| Min. voltage                    | 400   | V     | U <sub>min</sub>      |



to the product detail page

# MPS 225 D2 40

156622

ruck

## 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                  |

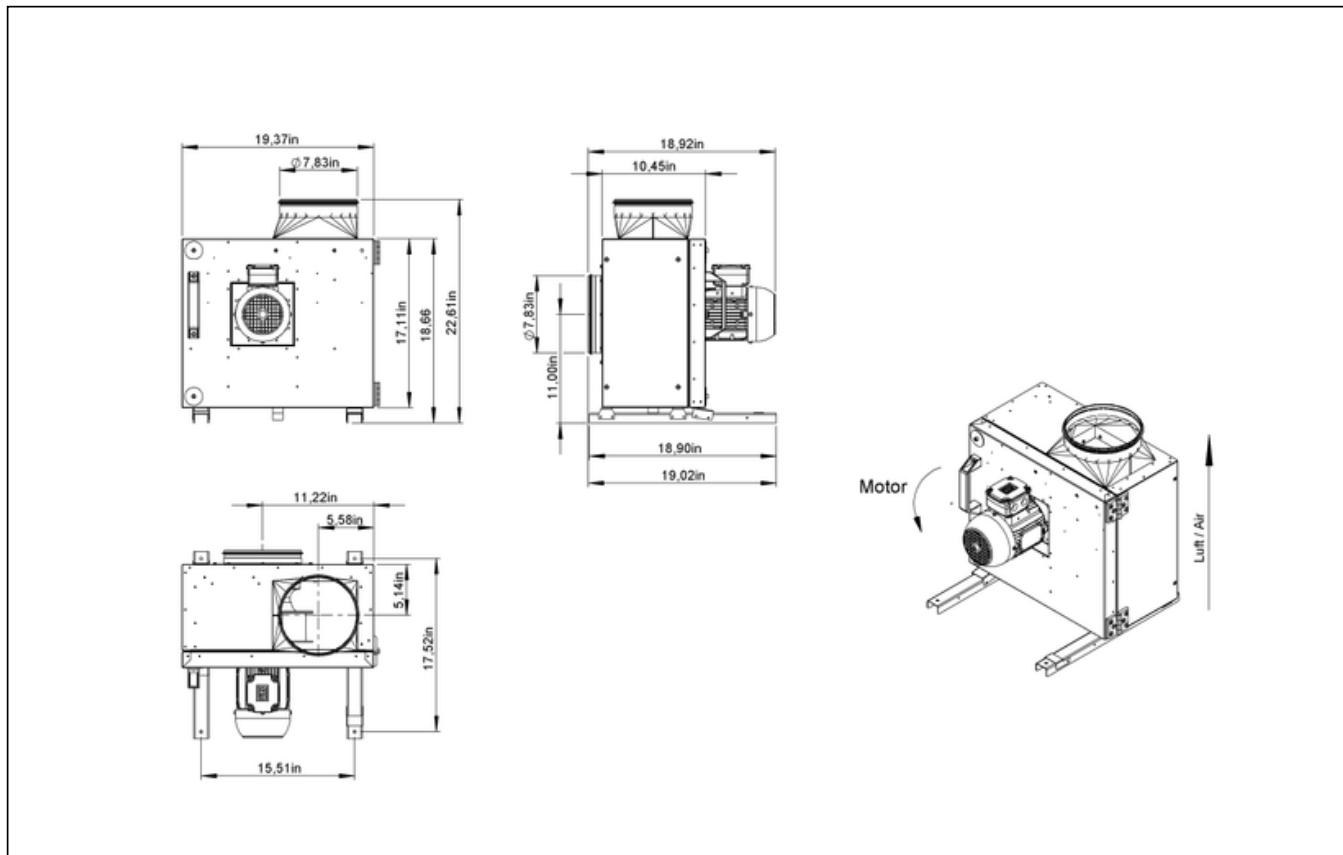


# MPS 225 D2 40

156622

ruck

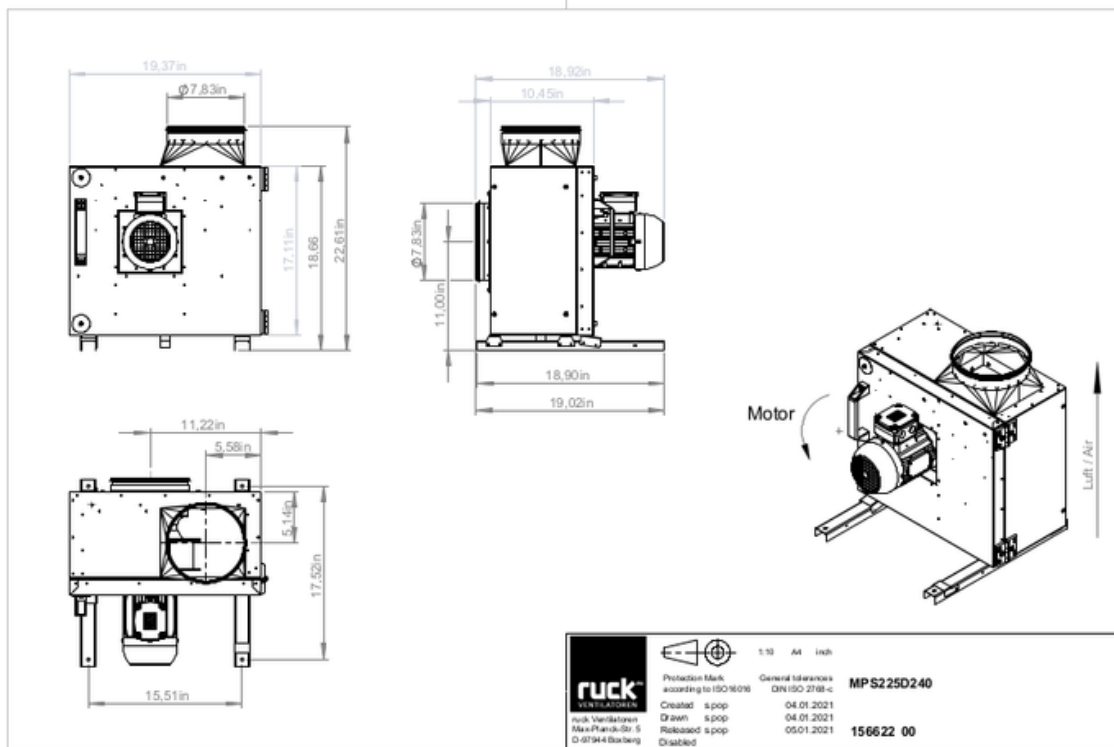
## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



# MPS 225 D2 40

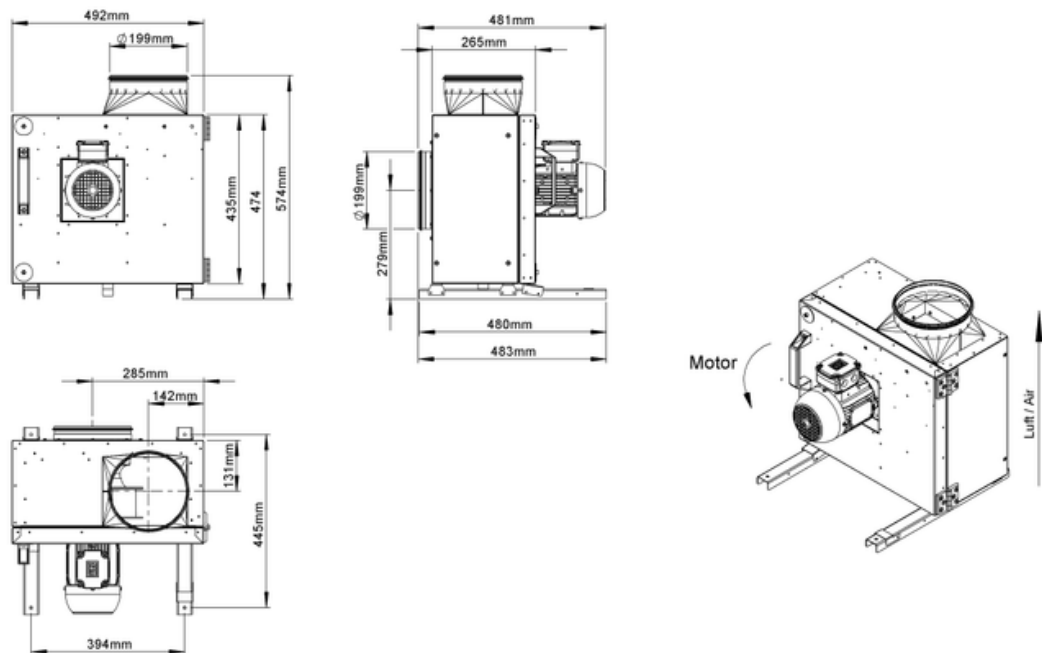
156622

**ruck**



# MPS 225 D2 40

156622

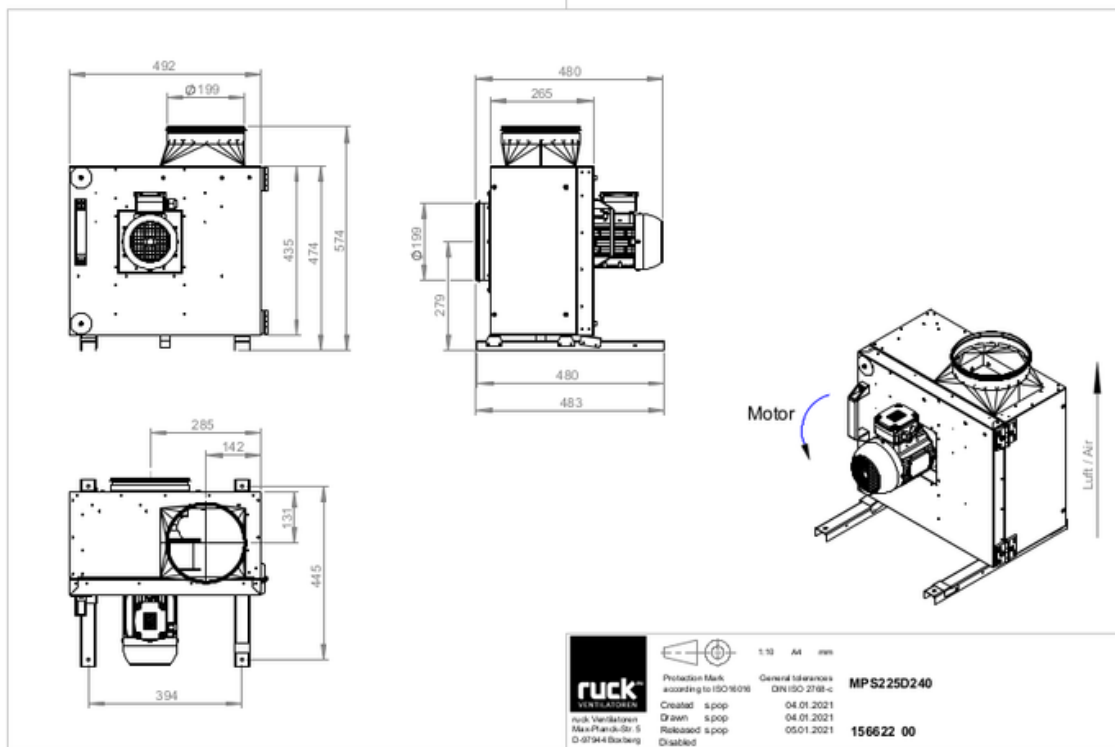


to the product detail page

# MPS 225 D2 40

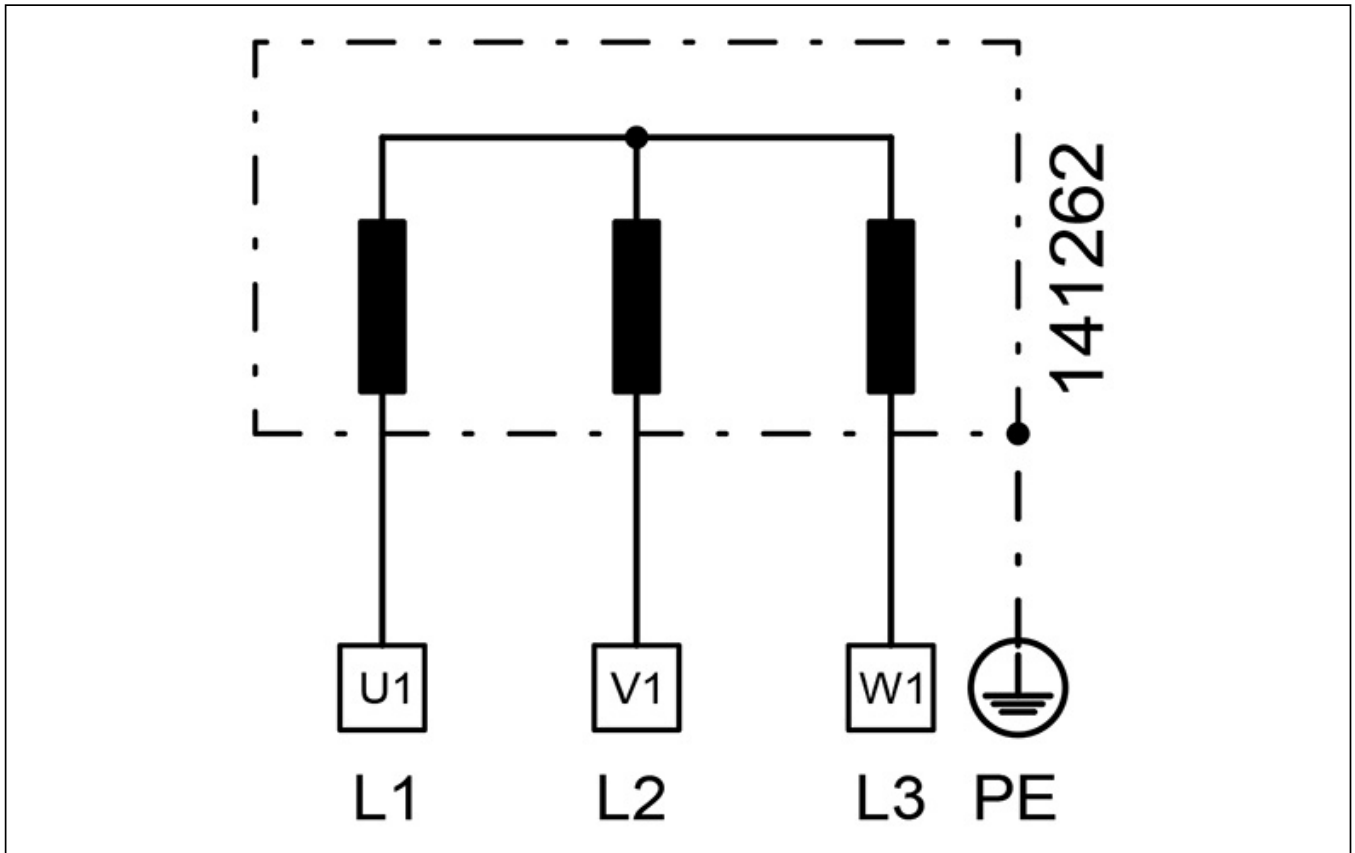
156622

**ruck**



# MPS 225 D2 40

156622



## 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

### WK MPS 07 | 127953



- Wall mounting bracket for box fan
- Galvanized steel sheet
- 1 Pack = 2 pieces

### VM 200 | 102650



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

### WSH MPS | 103661



- Weather protection hood for motor
- Galvanized steel sheet



to the product detail page

## ELECTRICAL ACCESSORIES

**GS 03 | 107633**



- Device switch
- Umax = 400 V, I<sub>max</sub> = 25 A
- Switching capacity 400 V 3~ = 5,5 kW
- Protection class IP 55

**MS 01 | 140407**



- Motor protection switch with Isolator switchfunktion
- I<sub>max</sub> = 400 V, 50/60 Hz
- Max. 0.55 kW
- Protection class IP 55

**MTP 20 | 128146**



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

**MTP 30 | 143289**



- Stepped potentiometer 10 kΩ
- Step 1 + 2 settable 10 % - 100 % Vdc
- Step 3 100 % Vdc
- Supply voltage+10 Vdc

**MTP 40 | 147359**



- Potentiometer 10 kΩ
- Connection in terminal box
- Max. ambient temperature 50 °C
- PU: 20 pieces

**SEN AIR | 148641**



- Airflow and temperature transducer
- Measuring range temperature 0...+50 °C
- With adjustable switching threshold (air speed)
- Measuring range air velocity up to 20 m/s

**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

**FU 075 08 | 141836**



- Frequency converter
- Supply voltage 230 V 1~ 50/60 Hz
- Output voltage 0 - 230 V 3~
- Protection class IP 20, for switch cabinet

**FU 075 26 | 141869**



- Frequency converter
- Supply voltage 400 V 3~ 50/60 Hz
- Output voltage 0 - 400 V 3~
- Fire mode function (smoke extract fans)

**FU 075 14 | 141847**



- Frequency converter IP66
- Supply voltage 230 V 1~ 50/60 Hz
- Output voltage 0 - 230 V 3~
- Fire mode function (smoke extract fans)

**FU 075 20 | 141858**



- Frequency converter
- Supply voltage 400 V 3~ 50/60 Hz
- Output voltage 0 - 400 V 3~
- Protection class IP 20, for switch cabinet

**MTP 50 | 153133**



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

