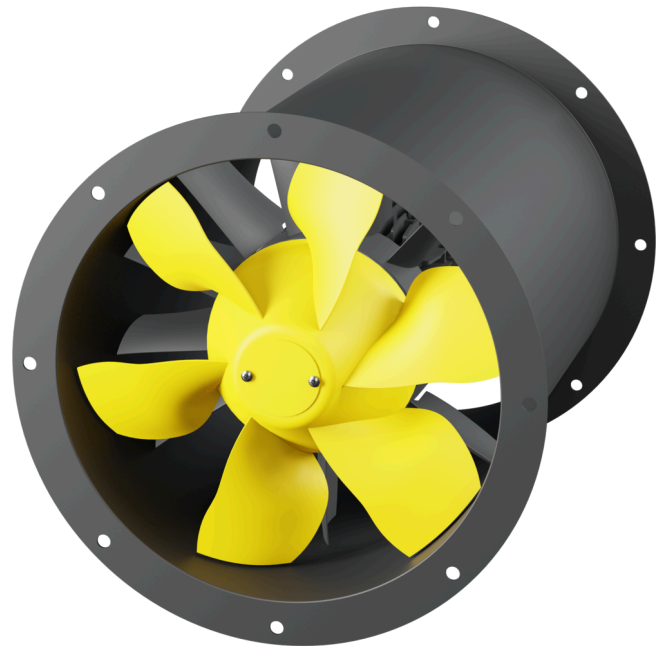


# AL 355 D2 F4 01

154705

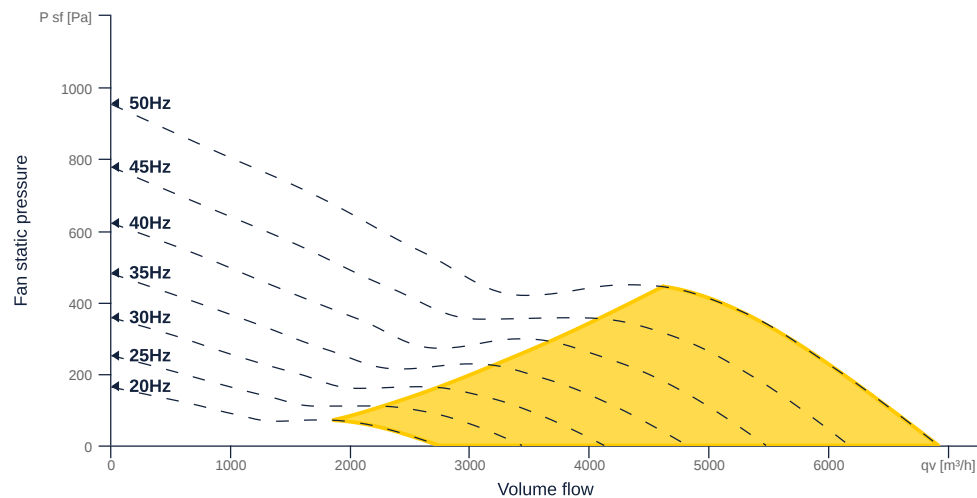
ruck

- Innovative, high-efficiency axial fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing weight optimized, powder coated
- Efficient IE3 motor, frequency controllable
- Smoke extract fan F400, 60 °C continuous operation, dual-use
- Exceeds current ErP regulation



## FAN CURVES

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



to the product detail page

GENERAL DATA

| Name                                  | Value    | Unit | Formula symbol          |
|---------------------------------------|----------|------|-------------------------|
| Labeling                              | CE, UKCA |      |                         |
| Duct size                             | -        |      | WxH <sub>duct</sub>     |
| Pipe connection size (DN)             | DN355    |      | 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                      | Steel    |      | mat <sub>casing</sub>   |
| Impeller material                     | Steel    |      | mat <sub>impeller</sub> |
| IP-protection class (entire device)   | IPX4     |      | IP <sub>compl</sub>     |
| IP-Protection class (terminal box)    | IP66     |      | IP <sub>ebox</sub>      |
| Weight                                | 24.1     | kg   | m                       |
| Fan type                              | Axial    |      | Fan <sub>type</sub>     |
| Category / Installation situation     | B        |      | cat                     |

MAXIMAL DATA

| Name                            | Value | Unit  | Formula symbol        |
|---------------------------------|-------|-------|-----------------------|
| Max. power consumption (device) | 1114  | W     | P <sub>ed, max</sub>  |
| Max. operating current (device) | 2.3   | A     | I <sub>ed, max</sub>  |
| Max. speed                      | 2910  | 1/min | n <sub>max</sub>      |
| Max. stat. efficiency           | 49.2  | %     | η <sub>es</sub>       |
| Max. fan efficiency             | 63    | %     | η <sub>e</sub>        |
| Max. flowrate                   | 6915  | m³/h  | Q <sub>v, max</sub>   |
| Max. stat pressure              | 440   | Pa    | p <sub>sf, max</sub>  |
| Max. medium temperature         | 60    | °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> |



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                 |
| Isolation class             |          | ISO H                |       | ISOclass                |
| Protection class            |          | IP55                 |       | IPmotor                 |
| Is pole-changeable          |          | No                   |       | polexch                 |
| Type of power supply        |          | AC 3~                |       | pwsupmotor              |
| Number of poles (1)         |          | 2.000000             |       | num polesw1             |
| Connection                  | Δ        | Y                    |       | wiringw1                |
| Connection (wiring 2)       | Y        |                      |       | wiringw2                |
| Rated voltage               | 2220     | 460                  | V     | Urated, f1              |
| Rated voltage (wiring 2)    | 380      |                      | V     | Urated, f2              |
| Rated current               | 4.09     | 2.05                 | A     | Irated, f1              |
| Rated current (wiring 2)    | 2.37     |                      | A     | Irated, f2              |
| Shaft power                 | 1100     | 1100                 | W     | Pout, f1                |
| Shaft power (wiring 2)      | 1100     |                      | W     | Pout, f2                |
| Speed                       | 2810     | 3450                 | 1/min | n <sub>f1</sub>         |
| Speed (wiring 2)            | 2810     |                      | 1/min | n <sub>f2</sub>         |
| Starting current            | 29.4     | 17.8                 | A     | Istart, f1              |
| Starting current (wiring 2) | 17.1     |                      | A     | Istart, f2              |
| Efficiency                  | 83.1     | 84                   | %     | η <sub>m</sub> , f1     |
| Efficiency (wiring 2)       | 83.1     |                      | %     | η <sub>m</sub> , f2     |
| Efficiency class            | IE3      | IE3                  |       | IE <sub>motor</sub>     |
| Min. temperature            | -20      | -20                  | °C    | T <sub>motor, min</sub> |
| Cos Phi                     | 0.850000 | 0.800000             |       | cos φ                   |
| UL-Certification motor      |          | None                 |       | ULcert                  |

ERP DATA (LOT11)

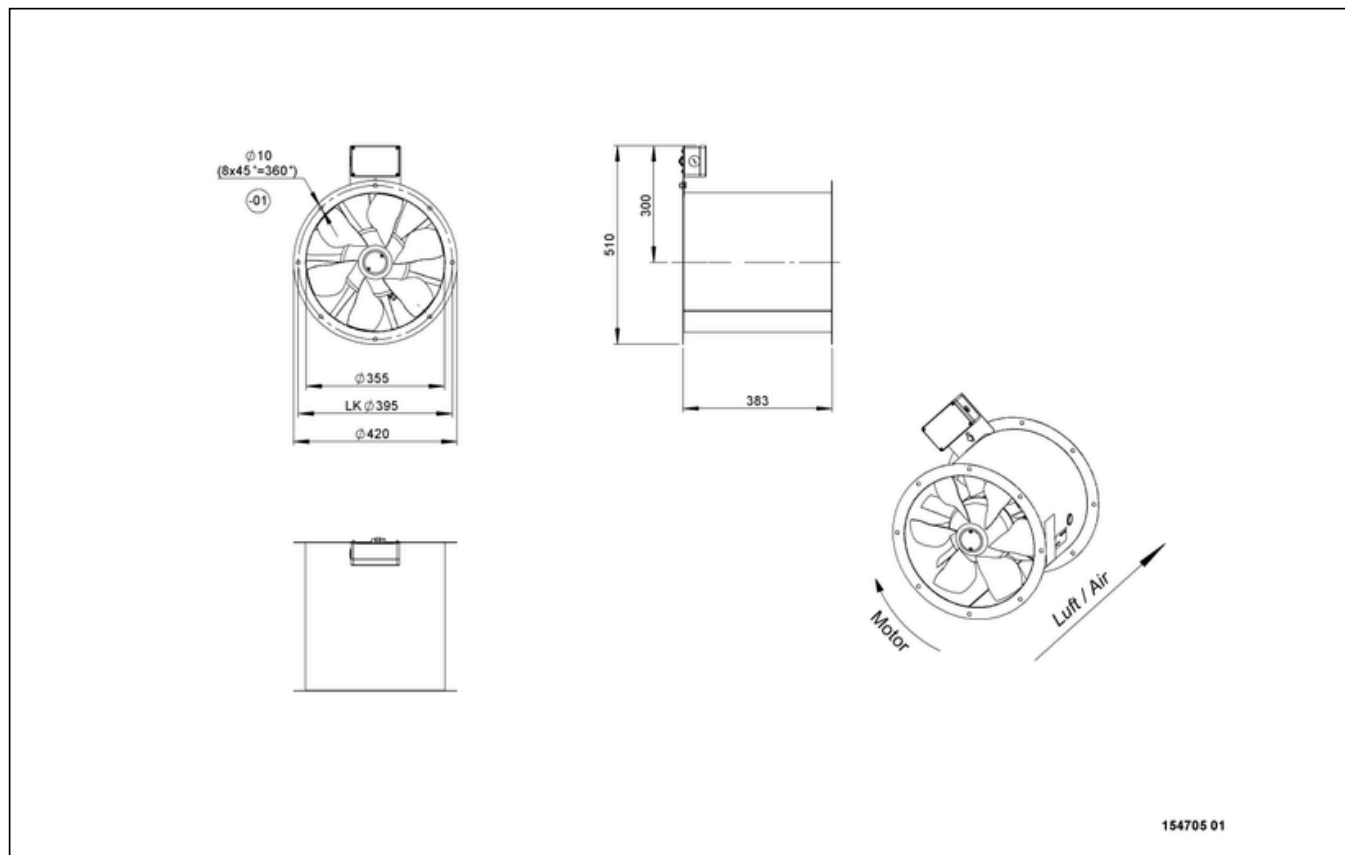
| Name                                                      | Value | Unit  | Formula symbol            |
|-----------------------------------------------------------|-------|-------|---------------------------|
| Speed at the energy efficiency optimum                    | 2883  | 1/min | n <sub>opt</sub>          |
| Efficiency level                                          | 63.2  | %     | N                         |
| Efficiency category                                       | total |       | cat <sub>efficiency</sub> |
| Input power of the motor at the energy efficiency optimum | 1.17  | kW    | P <sub>e, opt</sub>       |
| Overall efficiency                                        | 69    | %     | η <sub>ges</sub>          |
| Measurement category                                      | B     |       | meas cat                  |
| Fan pressure at energy efficiency optimum                 | 498   | Pa    | p <sub>f, opt</sub>       |
| Flowrate at energy efficiency optimum                     | 5324  | m³/h  | Q <sub>v, opt</sub>       |



SMOKE EXTRACT DATA

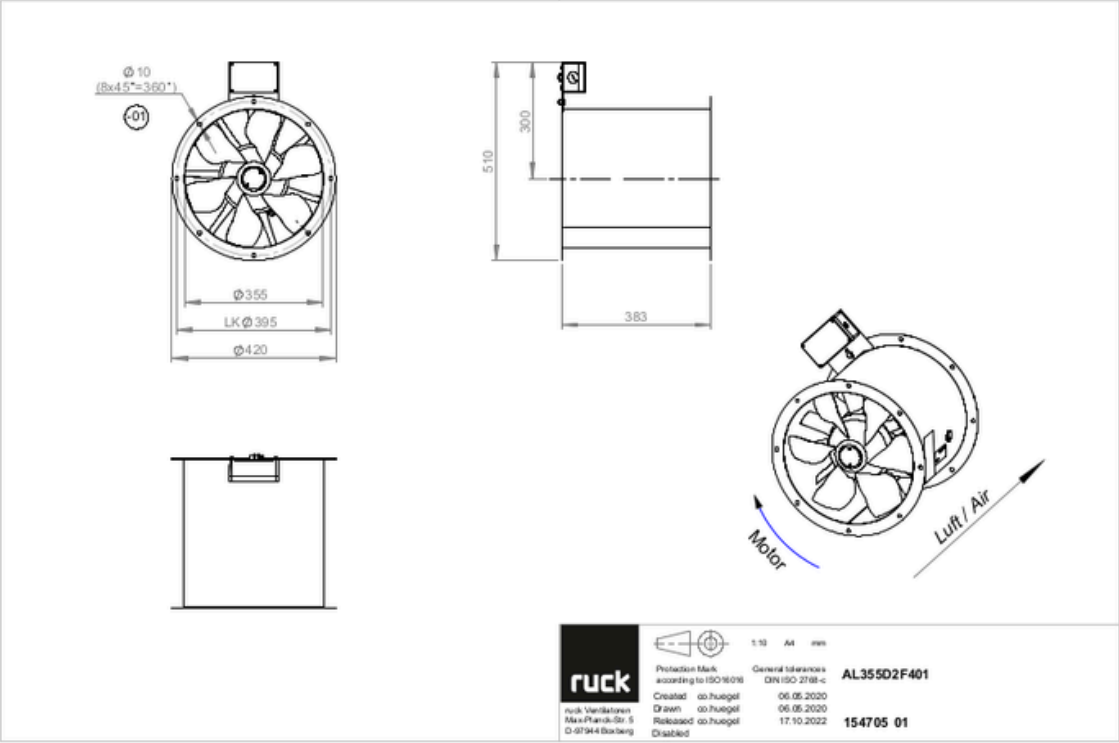
| Name                           | Value       | Unit | Formula symbol      |
|--------------------------------|-------------|------|---------------------|
| Maximum resistance temperature | 400         | °C   | T <sub>fire</sub>   |
| Maximum resistance time        | 120.000000  |      | t <sub>fire</sub>   |
| Fire resistance class          | F 400 (120) |      | F <sub>class</sub>  |
| Snow load class                | -           |      | SL <sub>class</sub> |

## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

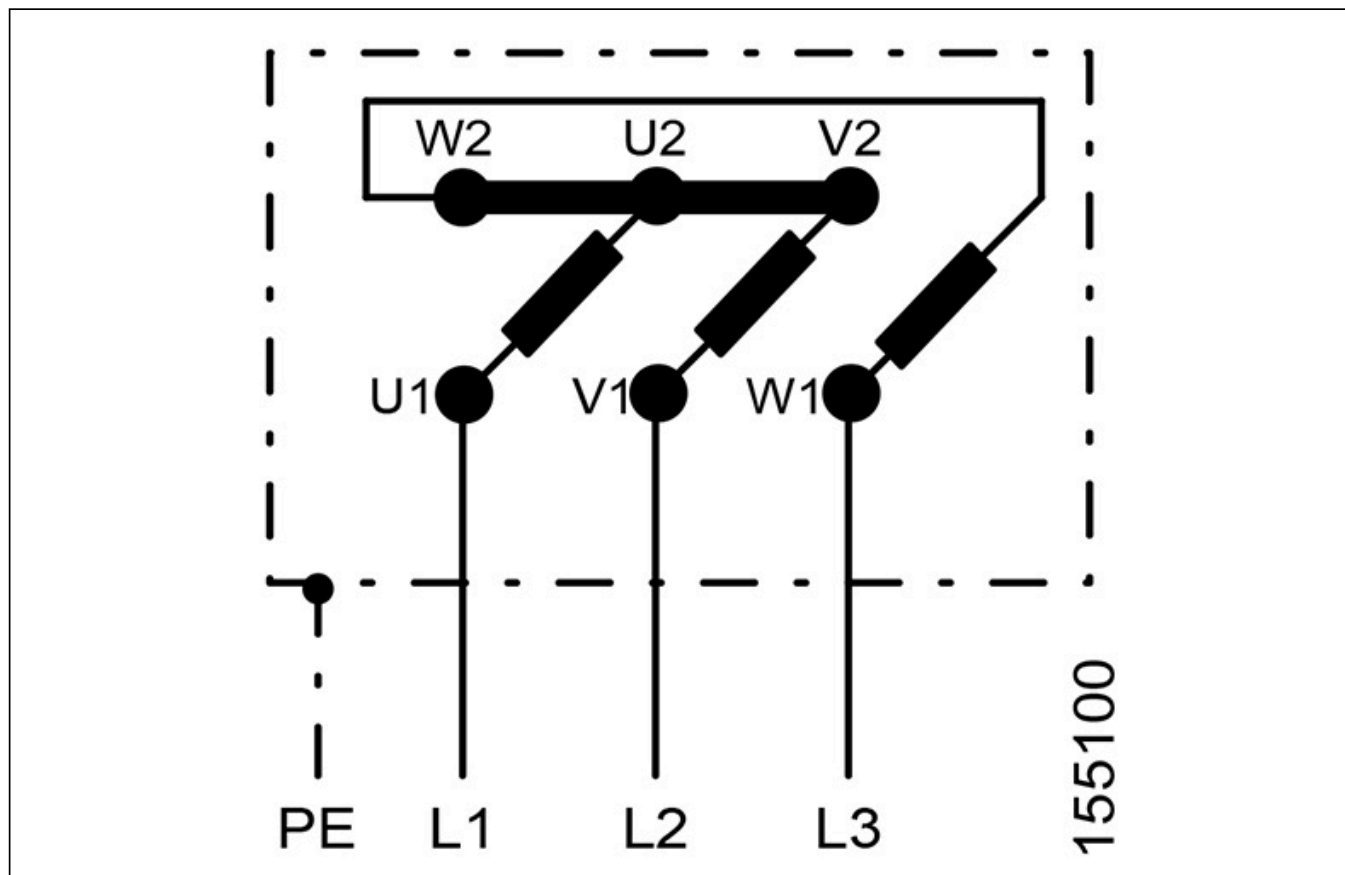


AL 355 D2 F4 01

154705



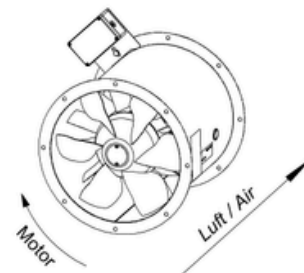
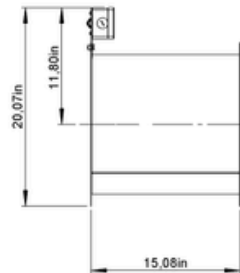
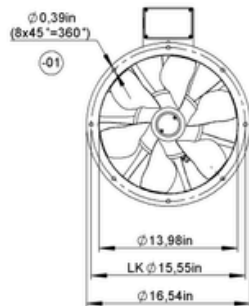
to the product detail page



# AL 355 D2 F4 01

154705

ruck



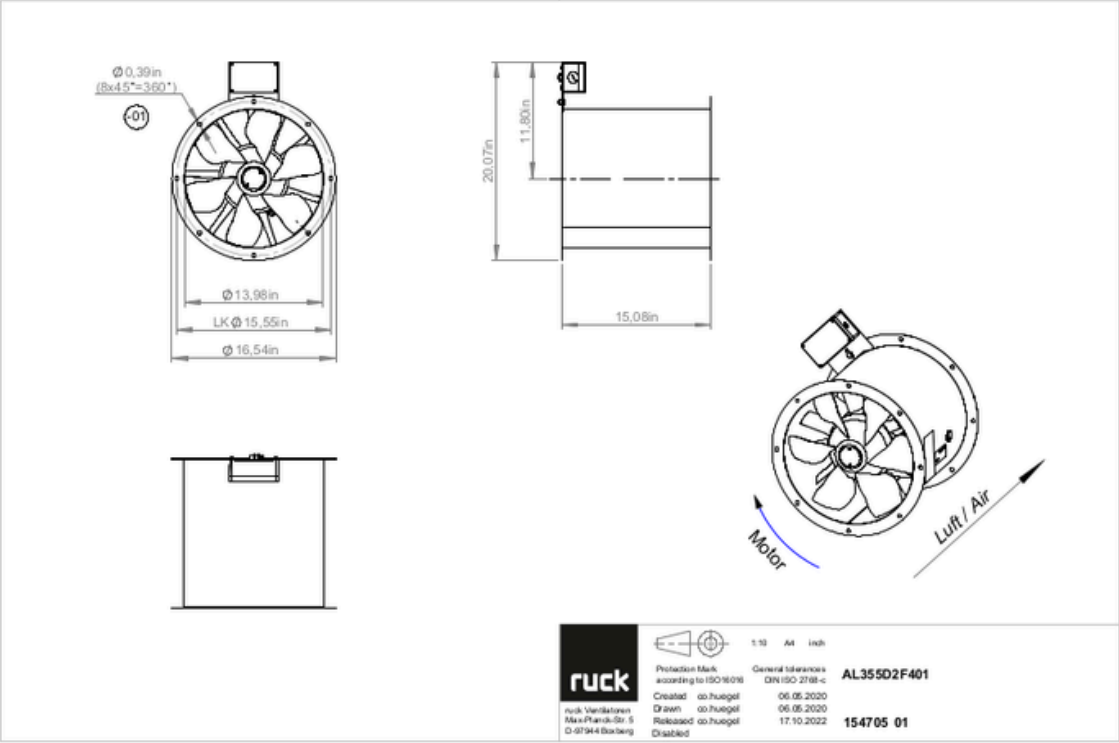
154705 01





AL 355 D2 F4 01

154705



to the product detail page

## MECHANICAL ACCESSORIES

**ESD 355 | 153961**



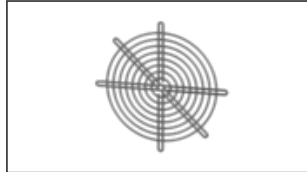
- Inlet cone
- Steel sheet, powder coated
- Flange mounting

**RAF 355 | 154018**



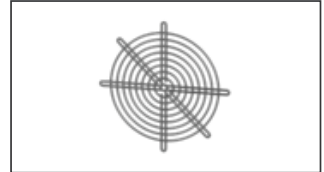
- Round flange
- Sheet steel, powder coated

**SGW 355 | 154049**



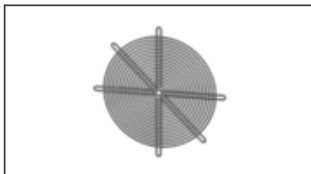
- Protection grille, wide meshed
- Steel sheet, galvanized
- Flange mounting

**SGW 400 | 154050**



- Protection grille, wide meshed
- Steel sheet, galvanized
- Flange mounting

**SGE 355 | 154062**



- Protection grille, narrow meshed
- Steel sheet, galvanized
- Flange mounting

**RVS 355 | 154176**



- Tube connection spigot
- Sheet steel, powder coated
- Suitable for outdoor installation
- Flange mounting

**RAS 355 F4 | 154301**



- Round spigot, flexible
- Galvanized steel sheet, silicone band
- 400 °C/120 min. conf. DIN EN 12101-3
- F400, 75 °C continuous operation
- Flange mounting

**RVK 355 F4 | 154392**



- Automatic tube shutter
- Sheet steel, powder coated
- For vertical installation
- Flange mounting

**FAL 355 | 154806**



- Mounting foot
- Sheet steel, powder coated

**FSD 01 | 155498**



- Set of 4 vibration dampers
- All metal design, galvanized

**RVK H 355 F4 | 155667**



- Automatic tube shutter
- Sheet steel, powder coated
- For horizontal installation
- Flange mounting



to the product detail page

## ELECTRICAL ACCESSORIES

**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 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

**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

**GS 08-F4 | 154397**



- Device switch with holder
- F400, 400 °C/120 min (DIN EN 12101-3)
- Umax = 400 V, 50/60 Hz, Imax = 25 A
- Switching capacity 400 V 3~ = 7,5 kW

**FU 15 25 | 155146**



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

**FU 15 27 | 155148**



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

