

# MPS 355 D4 F4 30

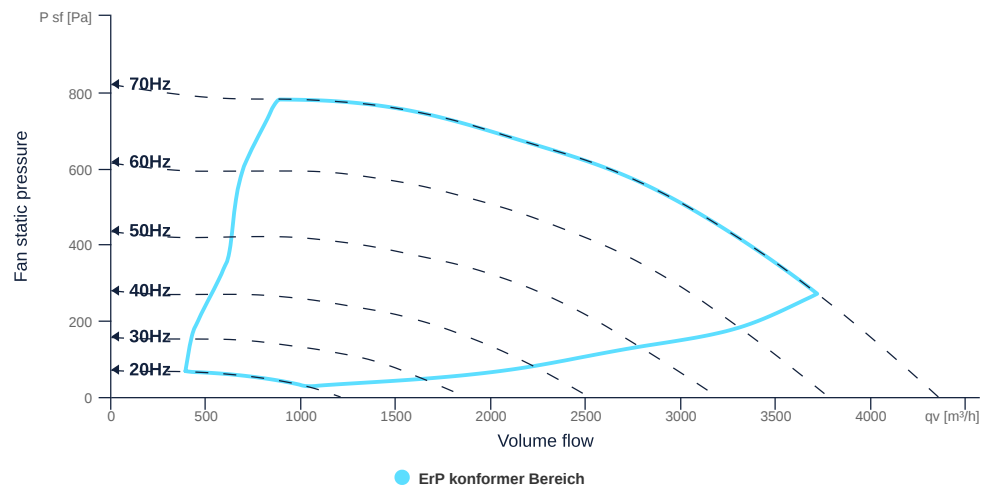
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- Backward curved radial impeller
- Swing out fan unit
- Sheet steel housing double-walled, 40 mm mineral wool
- Efficient IE3 motor, outside the airflow
- Smoke extract fan F400, 200 °C continuous operation
- With condensate and grease drain



## 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)                 | 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                          | Galvanized steel |      | mat <sub>casing</sub>   |
| Impeller material                         | Steel            |      | mat <sub>impeller</sub> |
| Weight                                    | 54.7             | kg   | m                       |
| Nominal air flow rate, nominal point m³/h | 3632.4           | m³/h | q <sub>v,nom</sub>      |
| Nominal external pressure, static         | 297              | 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       | 1.01                      | m³/s  | q <sub>v,nom</sub>  |
| Actual electrical input power, nominal point    | 0.71                      | kW    | P <sub>e,nom</sub>  |
| Face velocity, nominal point                    | 10.2                      | m/s   | v <sub>nom</sub>    |
| Nominal external pressure, static               | 297                       | Pa    | p <sub>s,nom</sub>  |
| supply air fan static efficiency, nominal point | 50.8                      | %     | η <sub>es,SUP</sub> |
| Highest external air leakage rate               | 0.04                      | %     |                     |
| Enclosure sound level, nominal point            | 73                        | dB(A) | L <sub>WA2</sub>    |
| Rating                                          | Product is compliant 2018 |       |                     |

## MAXIMAL DATA

| Name                            | Value | Unit  | Formula symbol        |
|---------------------------------|-------|-------|-----------------------|
| Max. power consumption (device) | 775   | W     | P <sub>ed, max</sub>  |
| Max. operating current (device) | 1.36  | A     | I <sub>ed, max</sub>  |
| Max. speed                      | 2060  | 1/min | n <sub>max</sub>      |
| Max. stat. efficiency           | 53.9  | %     | η <sub>es</sub>       |
| Max. fan efficiency             | 57.6  | %     | η <sub>e</sub>        |
| Max. flowrate                   | 4350  | m³/h  | q <sub>v, max</sub>   |
| Max. stat pressure              | 820   | Pa    | p <sub>sf, max</sub>  |
| Max. medium temperature         | 200   | °C    | T <sub>m, max</sub>   |
| Max. environment temperature    | 50    | °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)         |          | 4.000000             |       | 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               | 2.14     | 1.09                 | A     | I <sub>rated, f1</sub>  |
| Rated current (wiring 2)    | 1.23     |                      | 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                       | 1420     | 1720                 | 1/min | n <sub>f1</sub>         |
| Speed (wiring 2)            | 1420     |                      | 1/min | n <sub>f2</sub>         |
| Starting current            | 14.1     | 7.96                 | A     | I <sub>start, f1</sub>  |
| Starting current (wiring 2) | 8.12     |                      | A     | I <sub>start, f2</sub>  |
| Efficiency                  | 80.8     | 81.1                 | %     | $\eta$ <sub>m, f1</sub> |
| Efficiency (wiring 2)       | 80.8     |                      | %     | $\eta$ <sub>m, f2</sub> |
| Efficiency class            | IE3      | IE3                  |       | IE <sub>motor</sub>     |
| Min. temperature            | -20      | -20                  | °C    | T <sub>motor, min</sub> |
| Cos Phi                     | 0.800000 | 0.780000             |       | cos $\varphi$           |
| UL-Certification motor      |          | UL recognized        |       | ULcert                  |

## 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> |



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## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS











## MECHANICAL ACCESSORIES

### WSH MPS | 103661



- Weather protection hood for motor
- Galvanized steel sheet

### WK MPS 07 | 127953



- Wall mounting bracket for box fan
- Galvanized steel sheet
- 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

**CON P1000 | 115259**



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

**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

**MS 01 | 140407**



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

**FU 075 18 | 141852**



- 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 30 | 141874**



- 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)

**MTP 30 | 143289**



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

**MTP 40 | 147359**



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