

EL 500 EC O 01

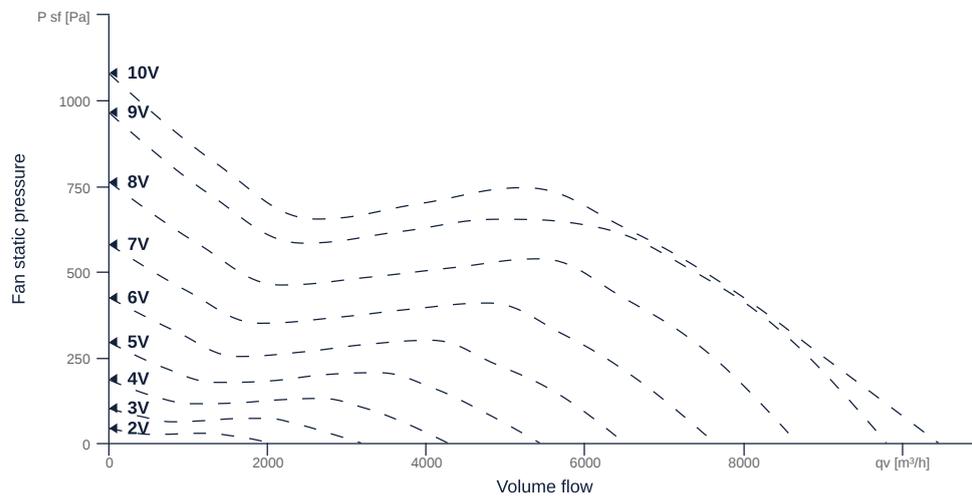
164353

- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- The benchmark for efficiency since 2007
- High efficiency EC motor, steplessly controllable
- Necessary EC-Controller included in delivery
- Conveyed medium temperature up to 60 °C in continuous operation
- Housing made of aluminum



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 | - | | WxHduct |
| Pipe connection size (DN) | DN500 | | DN |
| Rated voltage (entire device) | 400 | v | U _{rated} |
| Phases (entire device) | 3~ | | phase |
| Electrical protection (entire device) | 6 A | | fuse |
| Housing material | Aluminium | | matcasing |
| Impeller material | Aluminium | | matimpeller |
| IP-protection class (entire device) | IPX4 | | IPcompl |
| IP-Protection class (terminal box) | IP54 | | IPebox |
| Weight | 18.6 | kg | m |
| Fan type | Diagonal | | Fan _{type} |
| Category / Installation situation | B | | cat |

MAXIMAL DATA

| Name | Value | | Unit | Formula symbol |
|---------------------------------|-------|-------|------|-----------------------|
| | 50 Hz | 60 Hz | | |
| Max. power consumption (device) | 1844 | 1844 | w | P _{ed, max} |
| Max. operating current (device) | 2.84 | 2.84 | A | I _{ed, max} |
| Max. speed | 2130 | 2130 | rpm | n _{max} |
| Max. stat. efficiency | 63.4 | 63.4 | p | η _{es} |
| Max. fan efficiency | 67.8 | 67.8 | p | η _e |
| Max. flowrate | 10450 | 10450 | CmH | Q _{v, max} |
| Max. stat pressure | 1080 | 1080 | Pa | p _{sf, max} |
| Max. medium temperature | 60 | 60 | °C | T _{m, max} |
| Max. environment temperature | 60 | 60 | °C | T _{amb, max} |
| Min. environment temperature | -20 | -20 | °C | T _{amb, min} |



to the product detail page

MOTOR DATA

| Name | Value | | Unit | Formula symbol |
|--------------------------|-------|---------------------|------|------------------------|
| | 50 Hz | 60 Hz | | |
| Rated frequency (device) | | 50 | | f |
| Motor type | | EC | | phase |
| Control type | | stepless-controlled | | ctrltype |
| Installation type | | IRM (In) | | install |
| Rotation direction | | right | | rotation |
| Isolation class | | ISO F | | ISOclass |
| Motor-protection | | TEC | | protectmotor |
| Protection class | | IP55 | | IPmotor |
| Is pole-changeable | | No | | polexch |
| Type of power supply | | AC 3~ | | pwrsupmotor |
| Rated voltage | 400 | | v | U _{rated, f1} |
| Rated current | 5 | | A | I _{rated, f1} |
| Nominal power | 2200 | | w | P _a |
| Speed | 3000 | | rpm | n _{f1} |
| Efficiency | 88.9 | | p | η _{m, f1} |
| UL-Certification motor | | None | | ULcert |

ERP DATA (LOT11)

| Name | Value | Unit | Formula symbol |
|---|-------|------|---------------------------|
| Speed at the energy efficiency optimum | 1965 | rpm | n _{opt} |
| Efficiency level | 72.5 | p | N |
| Efficiency category | total | | cat _{efficiency} |
| Input power of the motor at the energy efficiency optimum | 1.74 | kw | P _{e, opt} |
| Overall efficiency | 80.5 | p | η _{ges} |
| Measurement category | B | | meas cat |
| Fan pressure at energy efficiency optimum | 657 | Pa | p _{f, opt} |
| Flowrate at energy efficiency optimum | 6437 | CmH | Q _{v, opt} |

SMOKE EXTRACT DATA

| Name | Value | Unit | Formula symbol |
|-----------------------|-------|------|----------------|
| Fire resistance class | None | | Fclass |

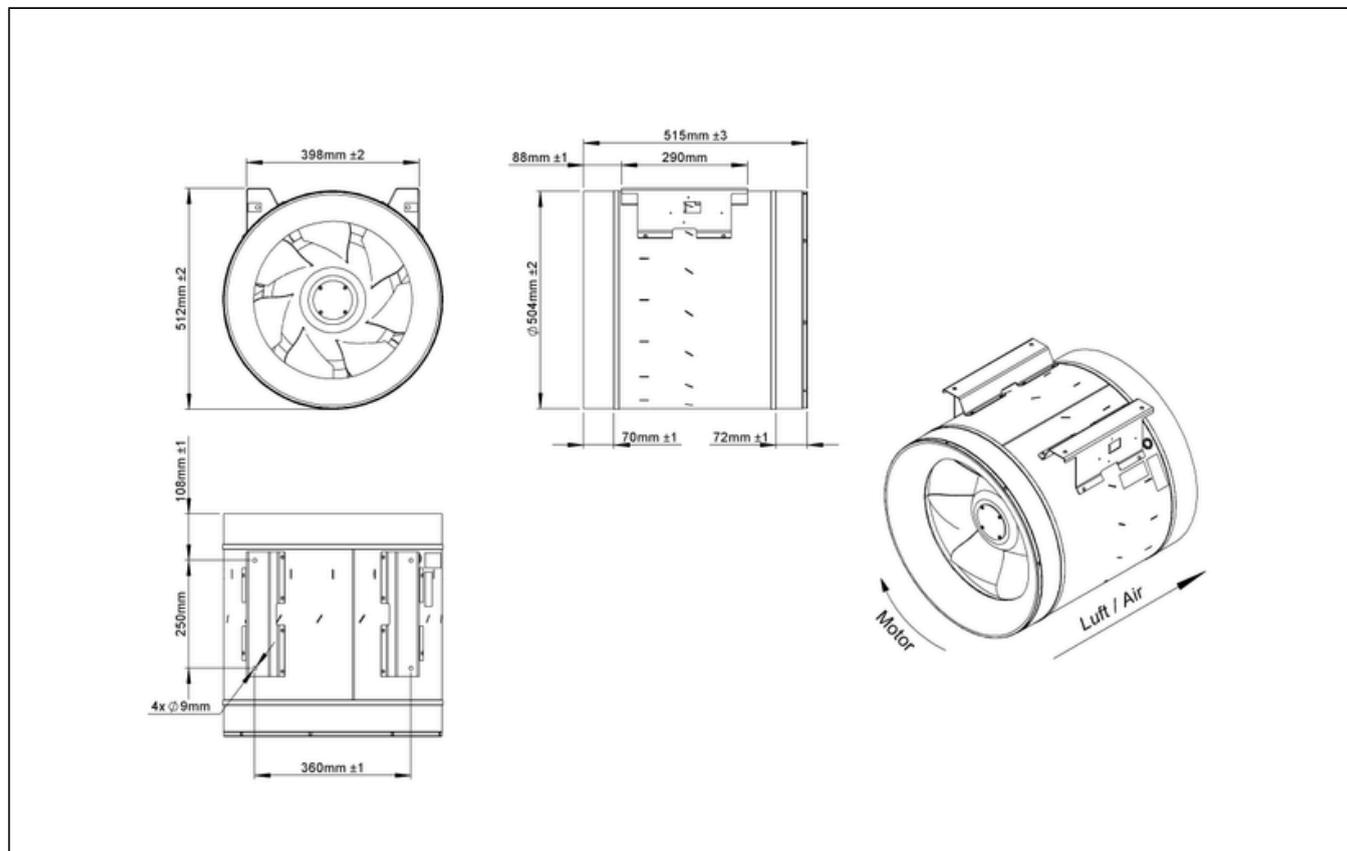


to the product detail page

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164353

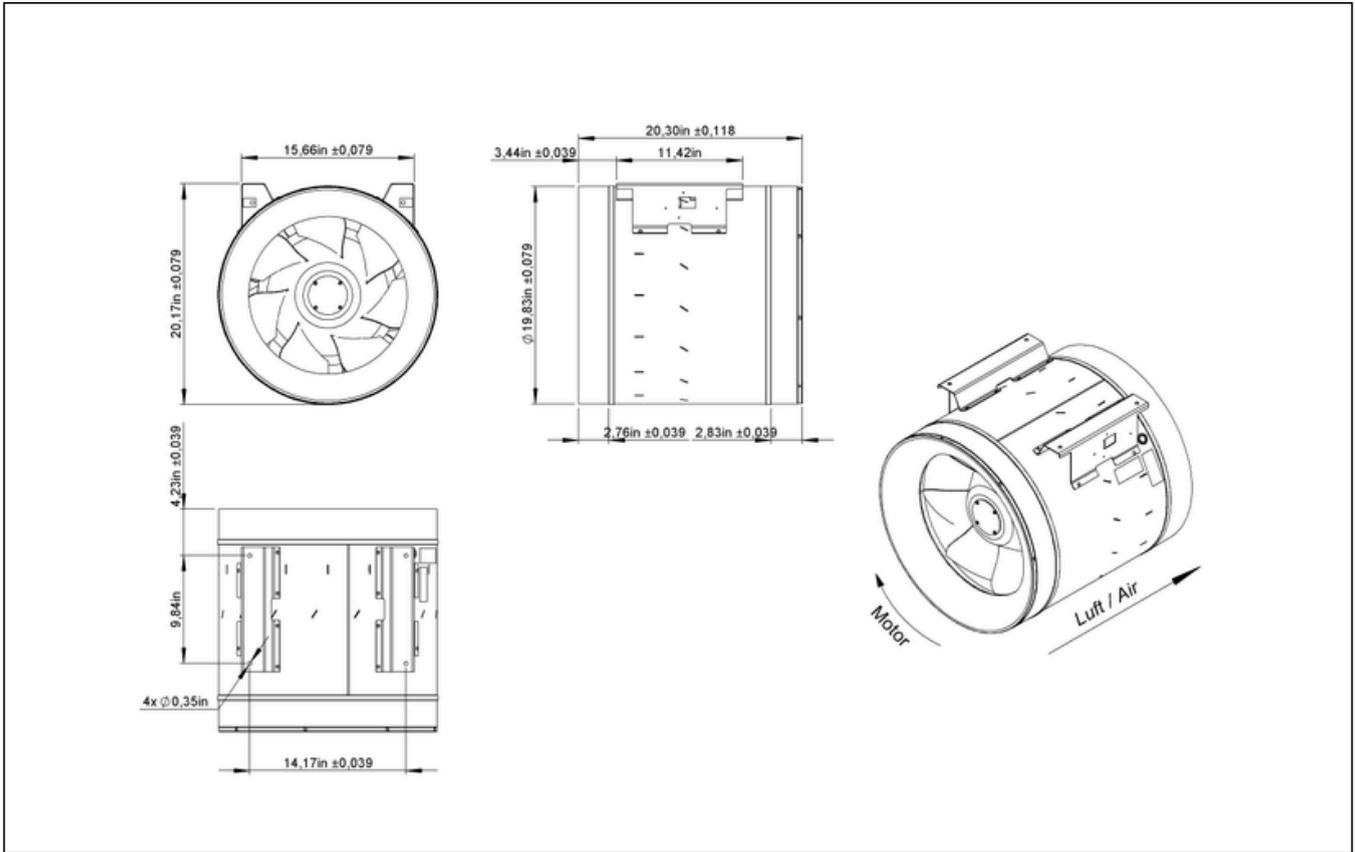
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



to the product detail page

EL 500 EC O 01

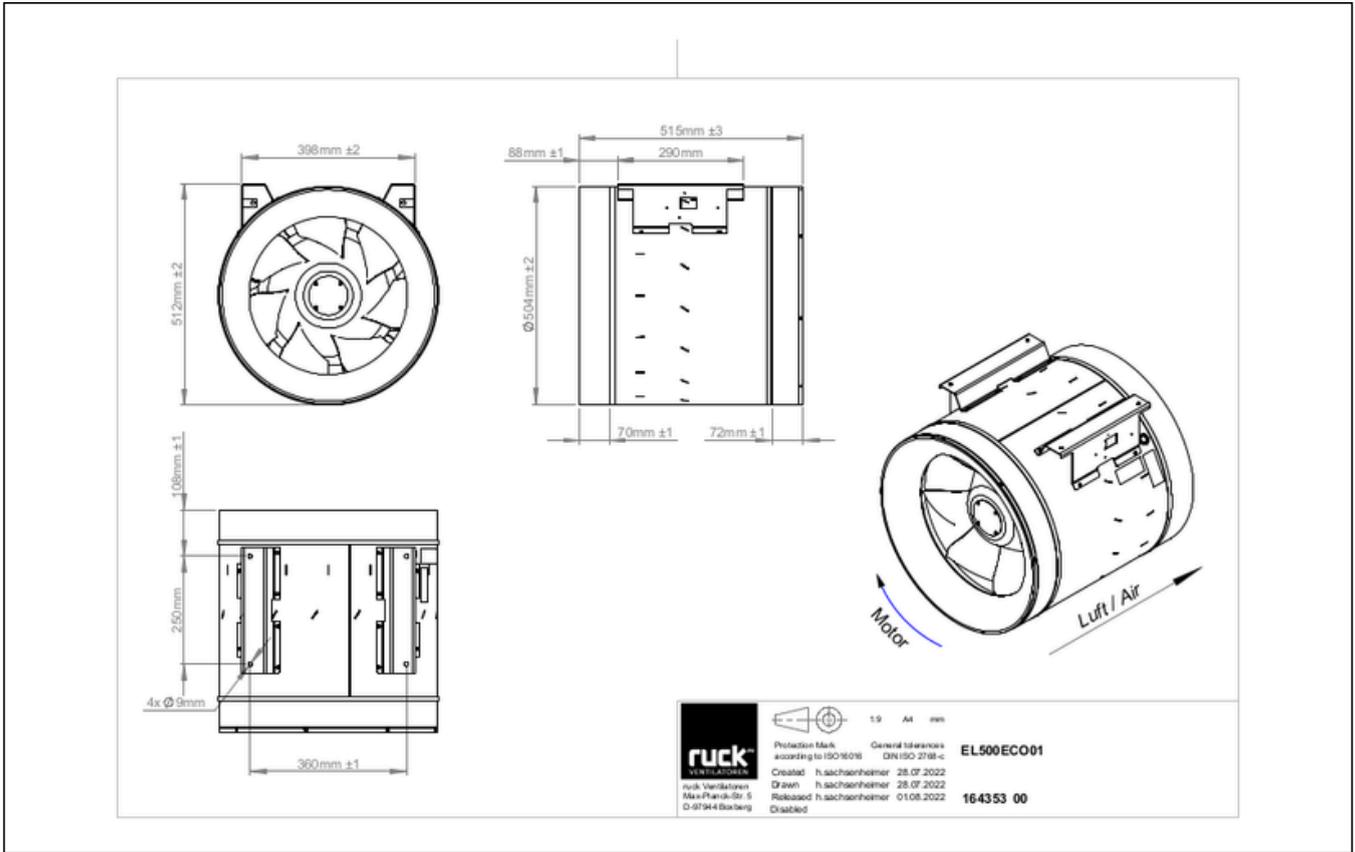
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to the product detail page

EL 500 EC O 01

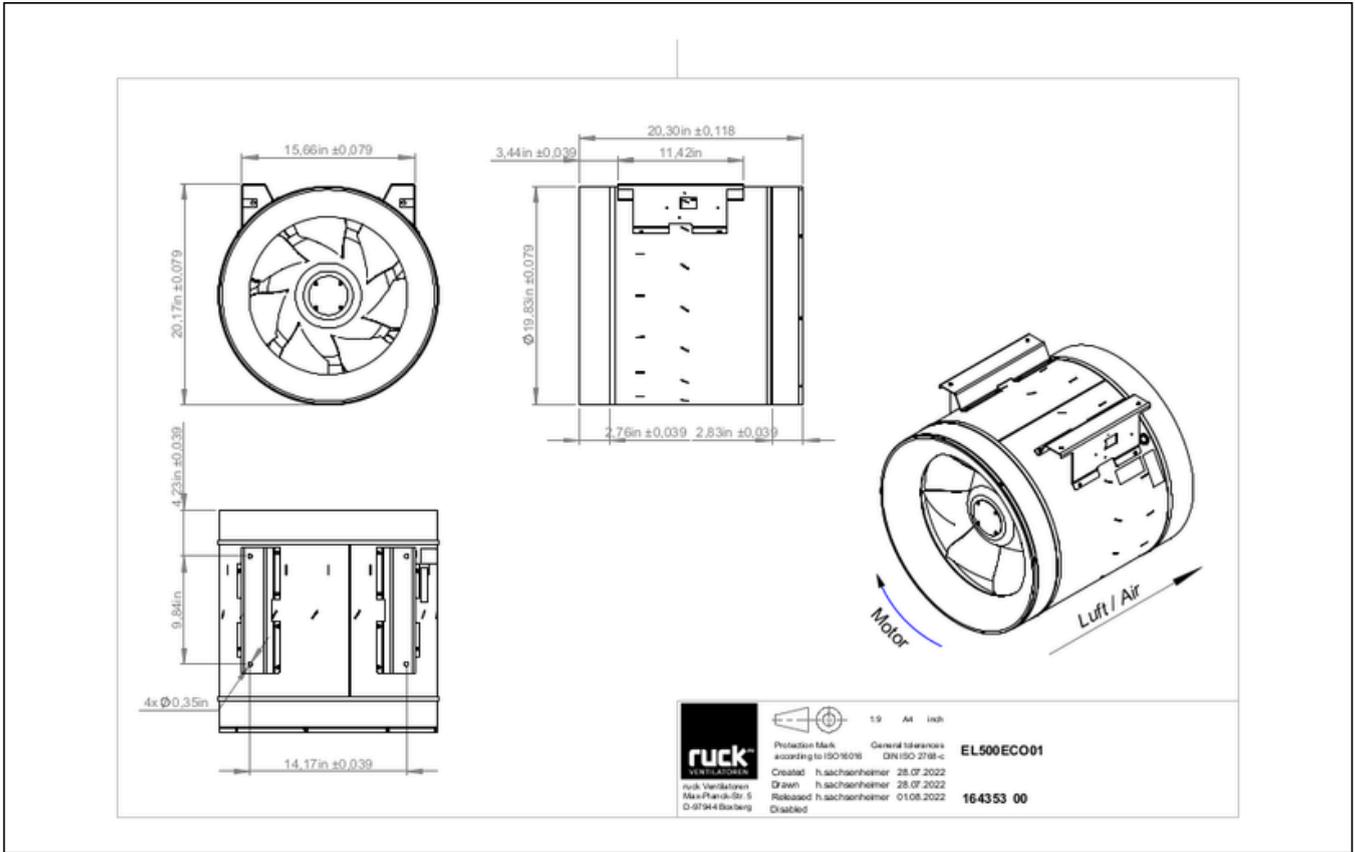
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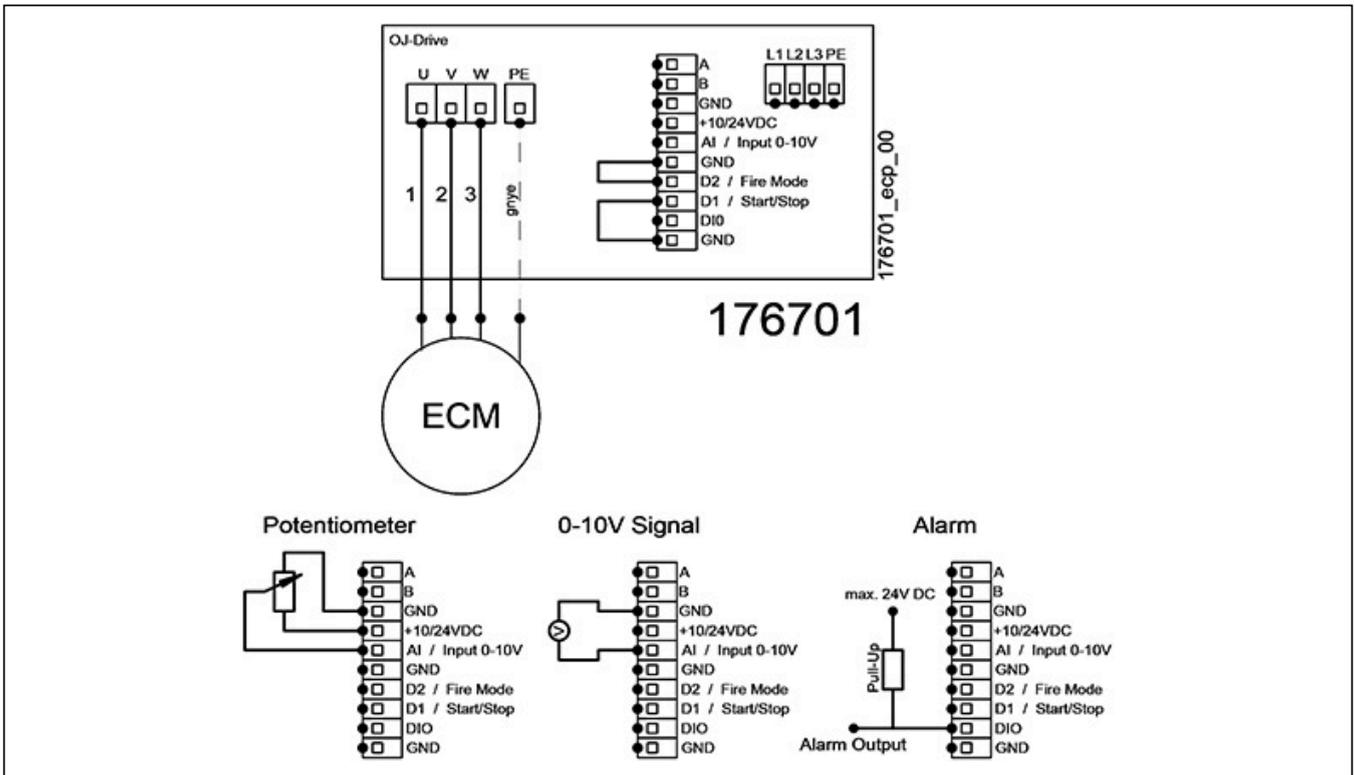
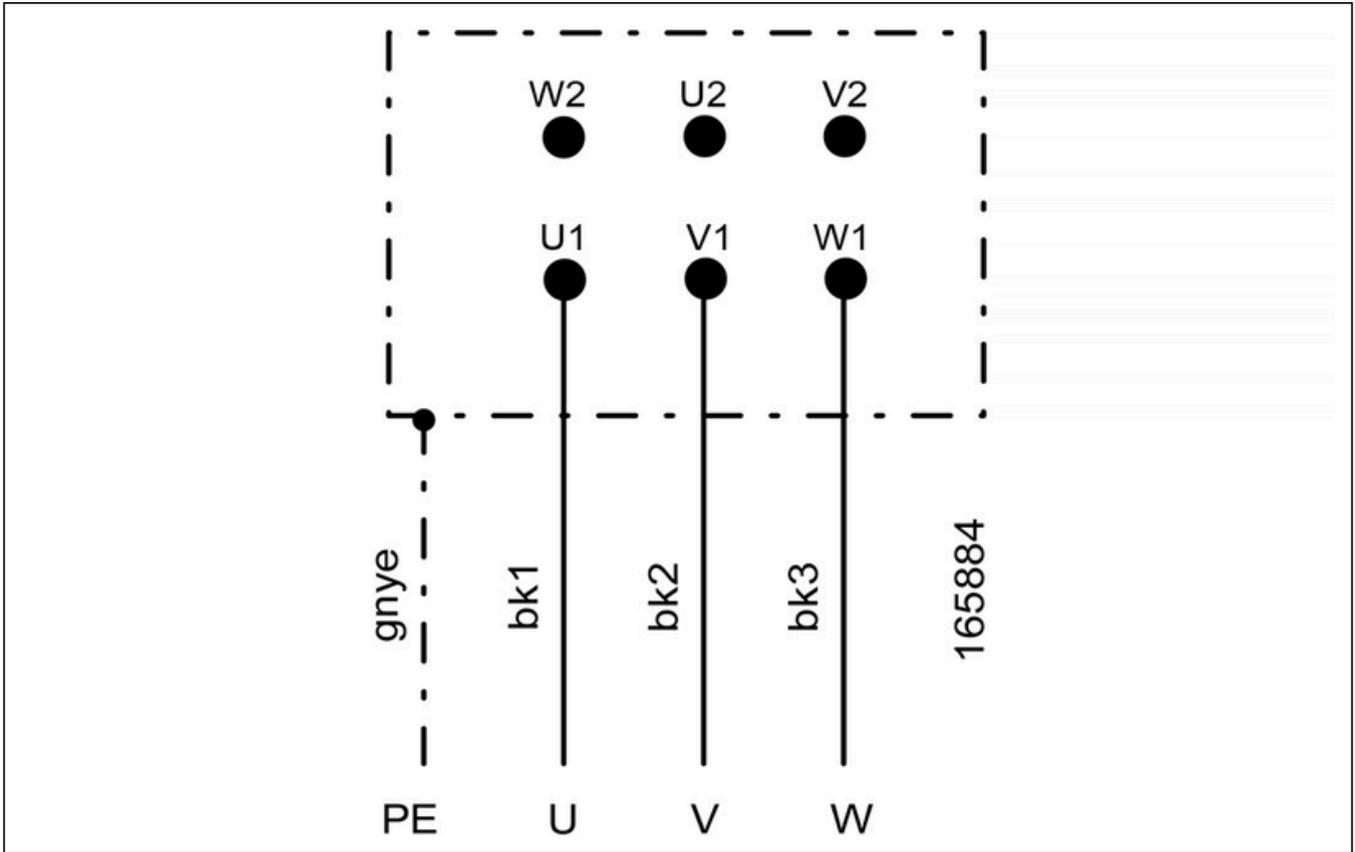


to the product detail page

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164353





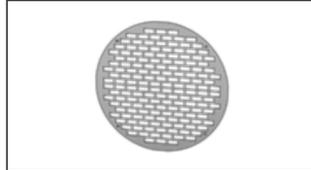
MECHANICAL ACCESSORIES

VM 500 | 118094



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

SG 500 02 | 119191



- Inlet protection grille for Etaline
- Galvanized steel sheet

SDS 500 | 172912



- Rigid tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm (mineral wool)

ELECTRICAL ACCESSORIES

GS 03 | 107633



- Device switch
- $U_{max} = 400\text{ V}$, $I_{max} = 25\text{ A}$
- Switching capacity $400\text{ V } 3\sim = 7,5\text{ kW}$
- 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

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

OJ RM 02 | 141890



- Extension board Relais Modul
- For EC controller for alarm and operating message
- Electrical connection through 6 spring terminals (max. 2.5 mm²)
- Digital relay outputs: 2 potential-free changeover relays, max. 1 A, 30 V DC / 24 V AC

MTP 50 | 168752



- 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

UniControl 01 | 175813



- Universal fan controller
- Output signal 2 x 0-10V
- Main supply 100V - 240V 50/60Hz

