

EL 400 EC K 01

159288

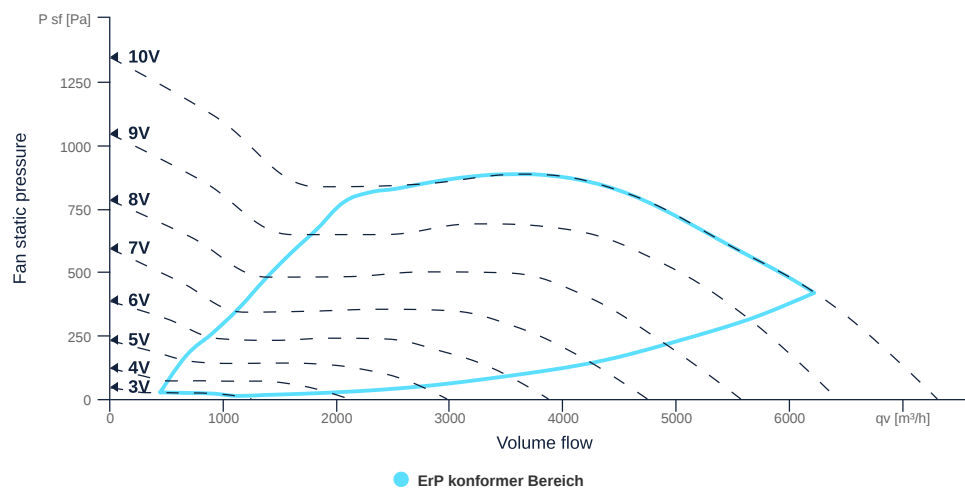
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- The benchmark for efficiency since 2007
- High efficiency EC motor, steplessly controllable
- Conveyed medium temperature up to 40 °C in continuous operation
- Housing made of aluminum



MAP

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



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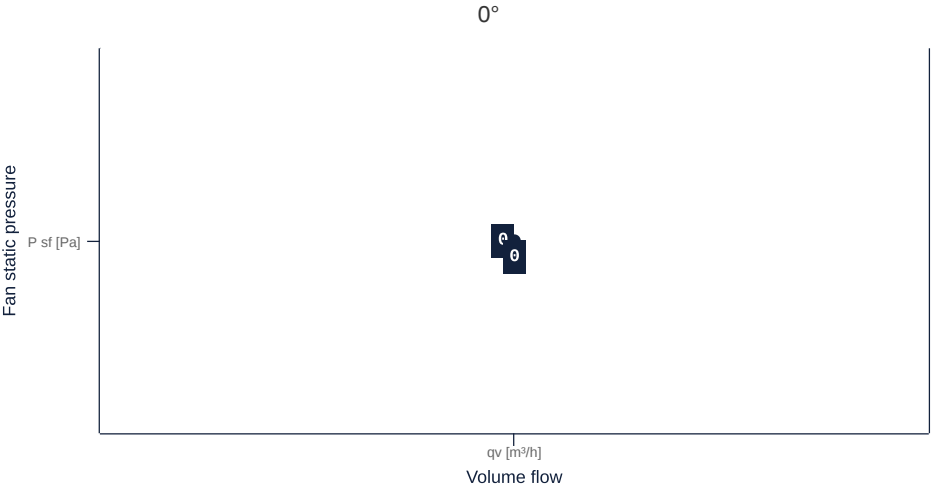
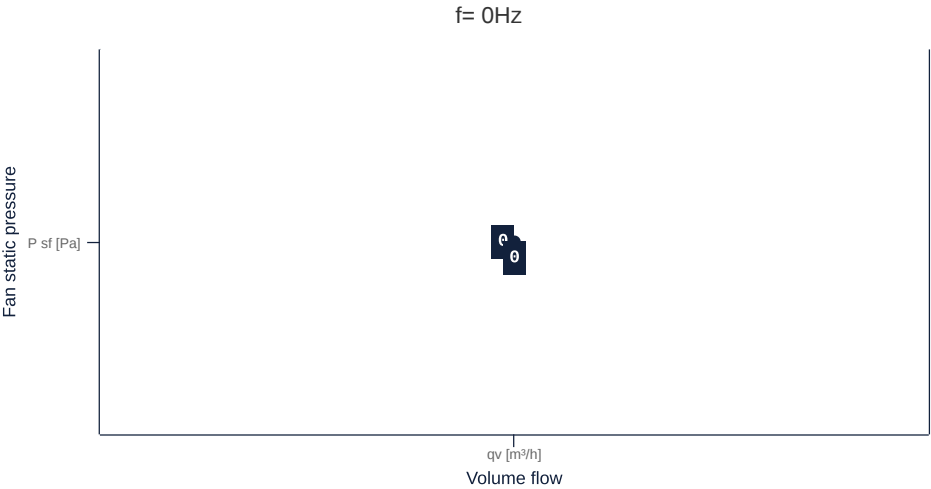
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MAP

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



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GENERAL DATA

Name	Value	Unit	Formula symbol
ERP conformity	Yes		
Certifications	CE, UKCA		
Duct size	-		WxH _{duct}
Pipe connection size (DN)	DN400		DN
Rated voltage (entire device)	230	V	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	16 A		fuse
Housing material	Aluminium		mat _{casing}
Impeller material	Aluminium		mat _{impeller}
IP-protection class (entire device)	IPX4		IP _{compl}
IP-Protection class (terminal box)	IP66		IP _{ebox}
Weight	16.5	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)	1637	1637	W	P _{ed, max}
Max. operating current (device)	11.81	11.81	A	I _{ed, max}
Max. speed	3010	3010	1/min	n _{max}
Max. stat. efficiency	61.5	61.5	%	η _{es}
Max. fan efficiency	63.6	63.6	%	η _e
Max. flowrate	7300	7300	m ³ /h	Q _{v, max}
Max. stat pressure	1340	1340	Pa	p _{sf, max}
Max. medium temperature	40	40	°C	T _{m, max}
Max. environment temperature	40	40	°C	T _{amb, max}
Min. environment temperature	-20	-20	°C	T _{amb, min}



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
Isolation class		ISO F		ISOclass
Motor-protection		TEC		protectmotor
Protection class		IP55		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrSupmotor
Rated voltage	220		V	U _{rated, f1}
Rated voltage (wiring 2)	277		V	U _{rated, f2}
Rated current	8.7		A	I _{rated, f1}
Rated current (wiring 2)	6.9		A	I _{rated, f2}
Shaft power	1100		W	P _{out, f1}
Shaft power (wiring 2)	1100		W	P _{out, f2}
Speed	3000		1/min	n _{f1}
Speed (wiring 2)	3000		1/min	n _{f2}
Efficiency	87.8		%	η _{m, f1}
Efficiency (wiring 2)	87.8		%	η _{m, f2}
Min. temperature	-20		°C	T _{motor, min}
UL-Certification motor		None		ULcert

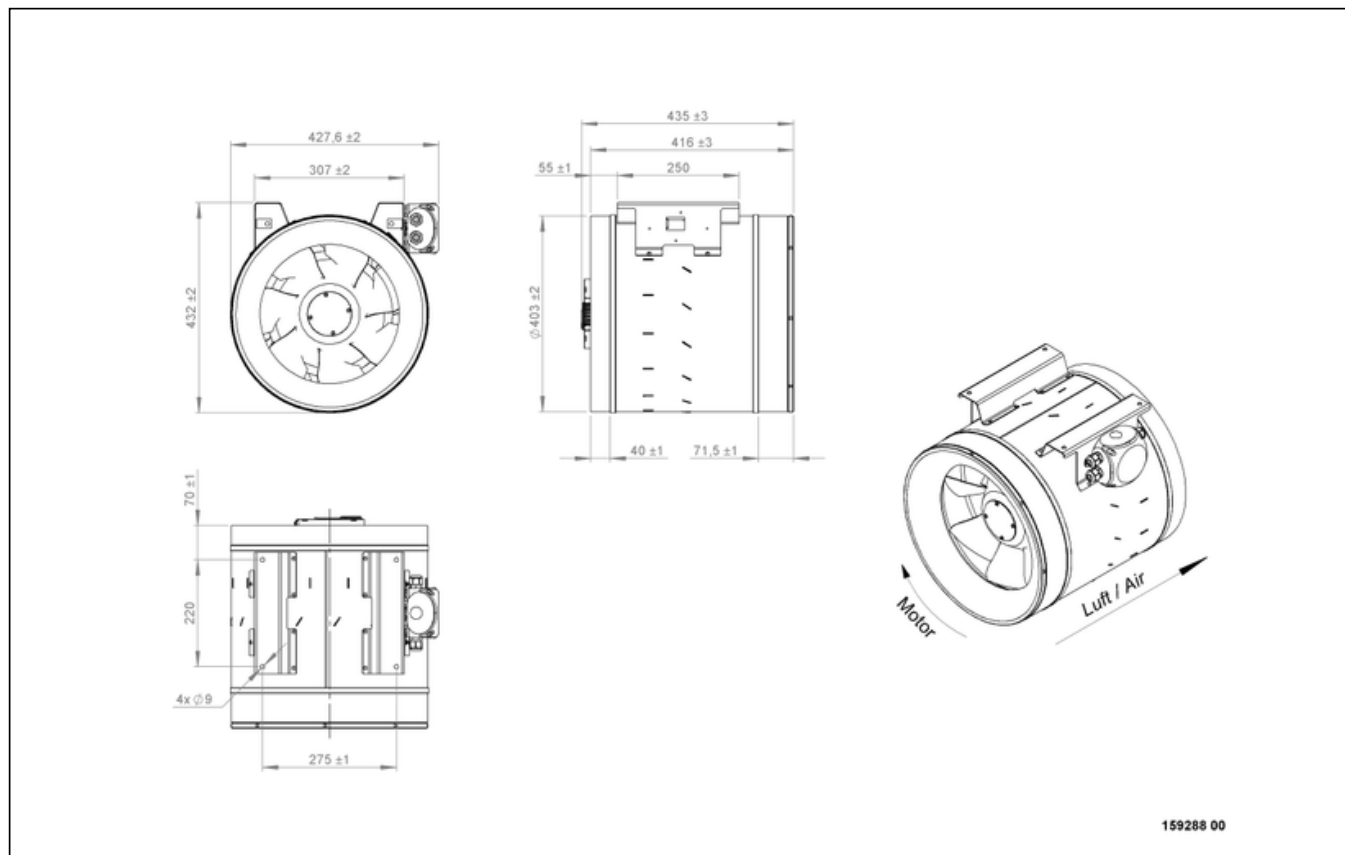
ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2909	1/min	n _{opt}
Efficiency level	68.8	%	N
Efficiency category	total		cat _{efficiency}
Input power of the motor at the energy efficiency optimum	1.59	kW	P _{e, opt}
Overall efficiency	77.2	%	η _{ges}
Measurement category	B		meas cat
Fan pressure at energy efficiency optimum	823	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	4606	m³/h	Q _{v, opt}



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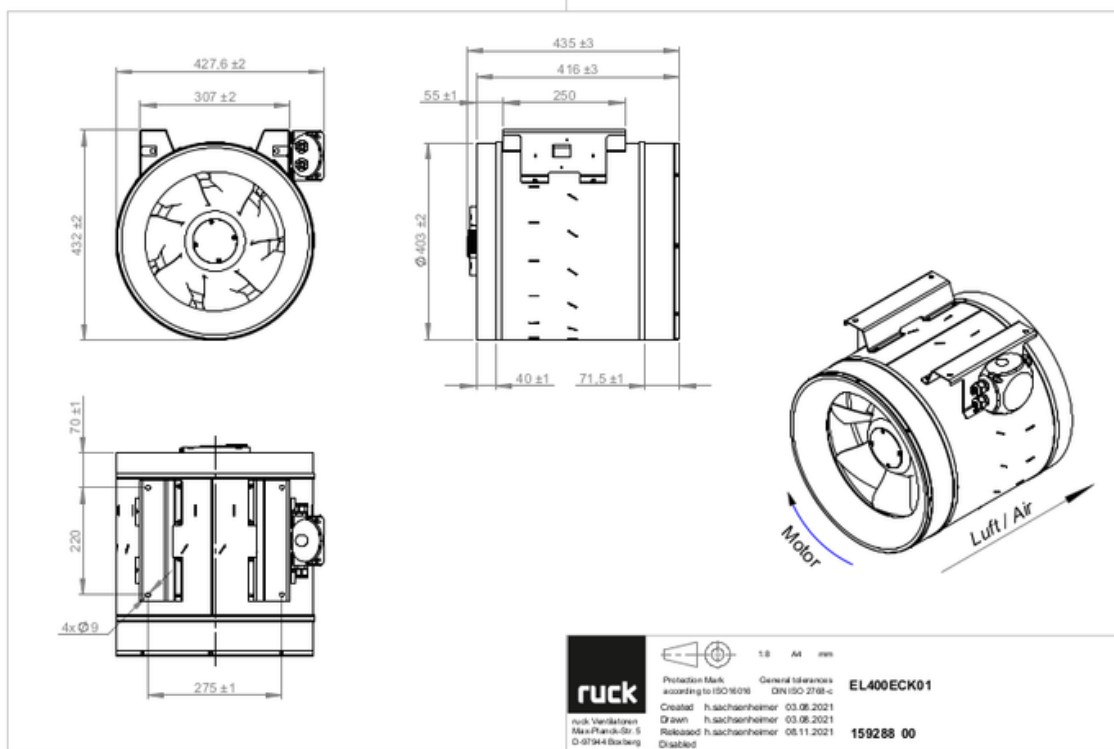
SCHALTPLÄNE / MASSZEICHNUNGEN



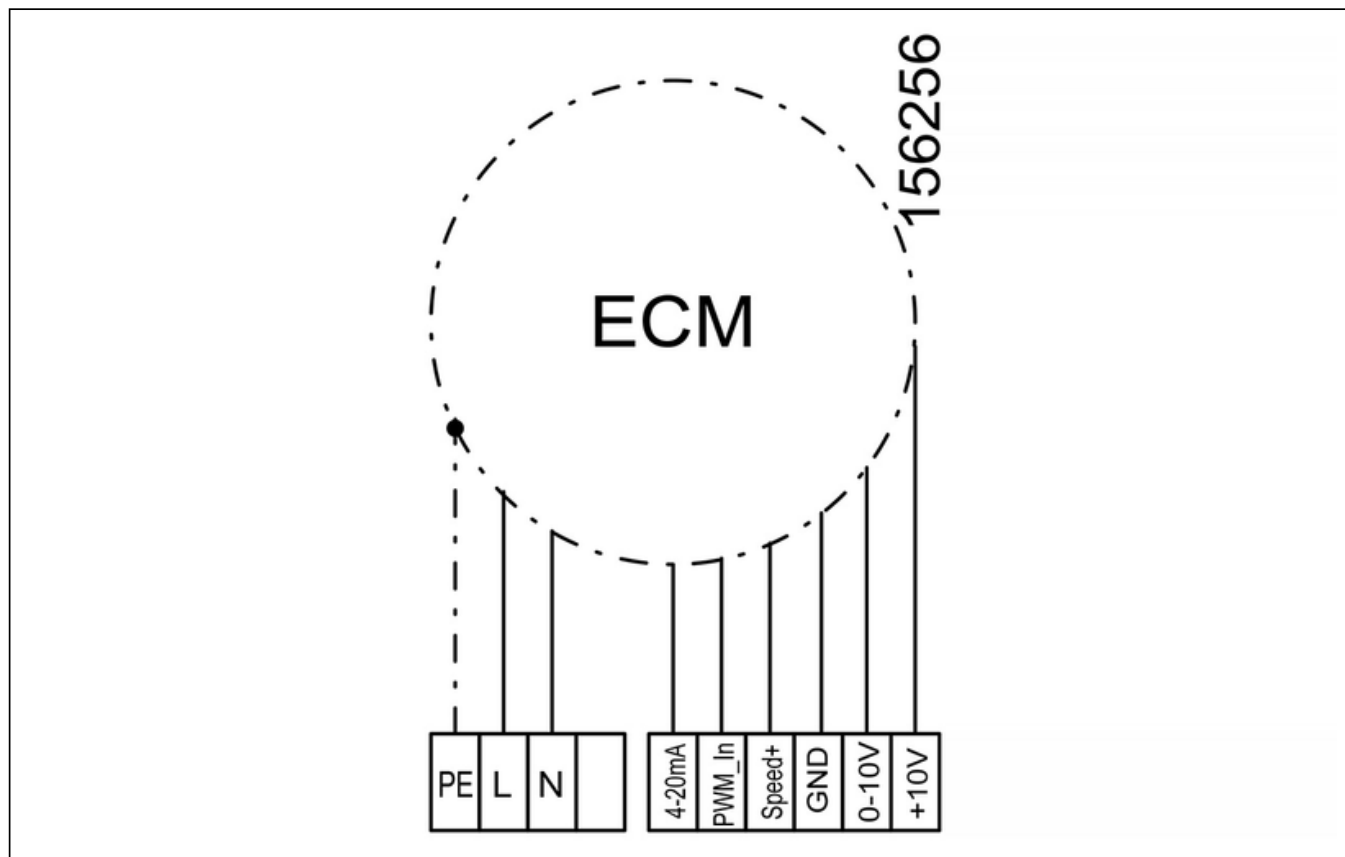
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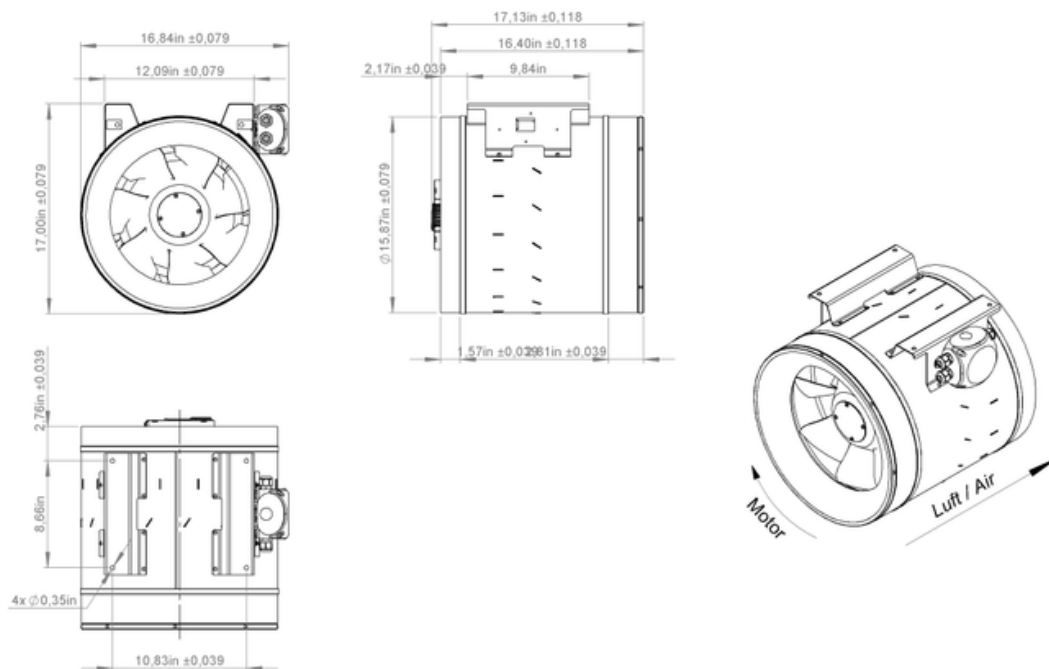
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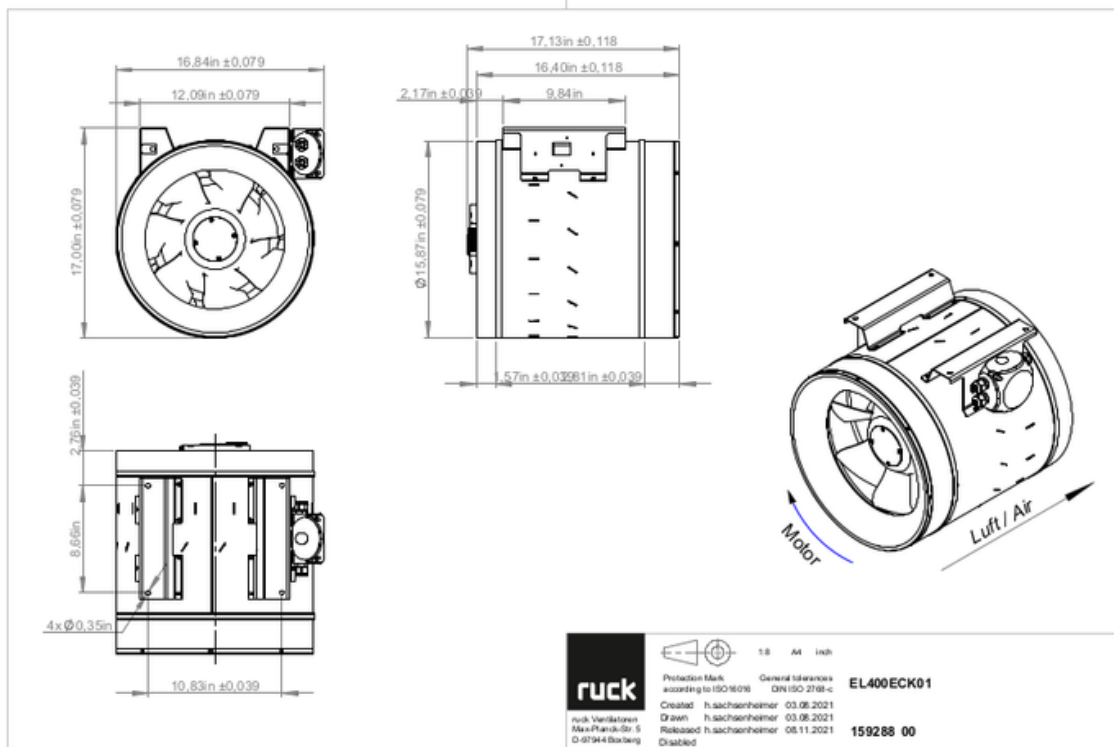


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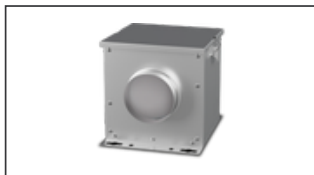
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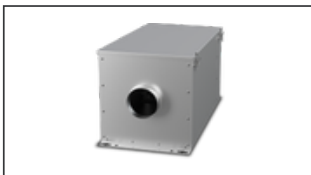
MECHANICAL ACCESSORIES

FV 400 | 112836



- Air filter box with mat filter ISO Coarse 45 % (G3)
- Toggle-type fastener

FT 400 | 112848



- Air filter box for pocket filter
- Toggle-type fastener
- Galvanized steel sheet housing
- Without filter

FTW 400 | 112857



- Air filter box with pocket filter M5
- Integrated warm water heating coil
- Galvanized steel sheet housing
- Toggle-type fastener

RSK 400 | 102691



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

RSK 400D | 113490



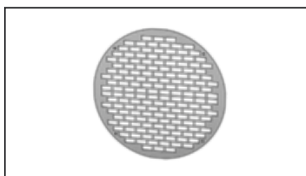
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps
- Integrated gasket

VM 400 | 102654



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

SG 400 02 | 123949



- Inlet protection grille for Etaline
- Galvanized steel sheet

SDF 400 | 102708



- Flexible tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm

SDS 400 | 102727



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



ELECTRICAL ACCESSORIES

GS 02 | 105386



- Isolator switch
- $U_{max} = 400 \text{ V}$, 50/60 Hz
- Switching capacity $400 \text{ V } 3\sim = 5,5 \text{ kW}$
- $I_{max} = 16 \text{ A}$

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 $10\% - 100\% \text{ Vdc}$
- 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 $50 \text{ }^{\circ}\text{C}$
- PU: 20 pieces

SEN AIR | 148641



- Airflow and temperature transducer
- Measuring range temperature $0...+50 \text{ }^{\circ}\text{C}$
- 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 $0-10 \text{ V DC}$ + FC enable + setpoint reached
- Pressure setting by means of decade switch



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