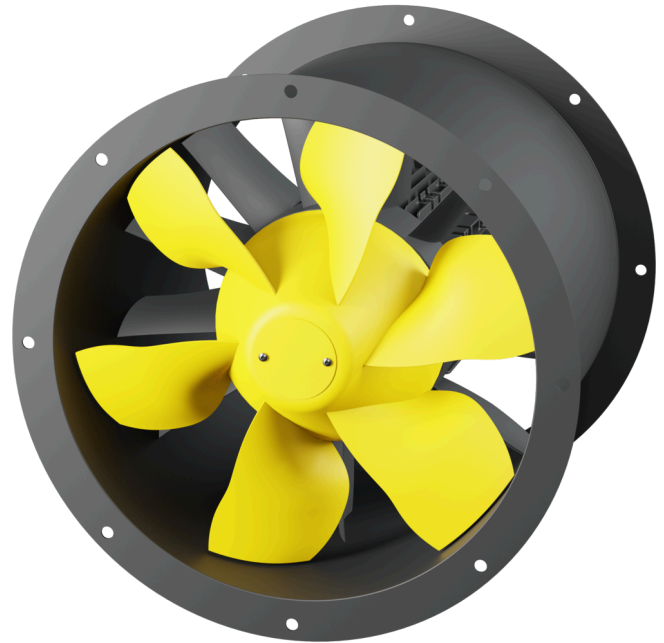


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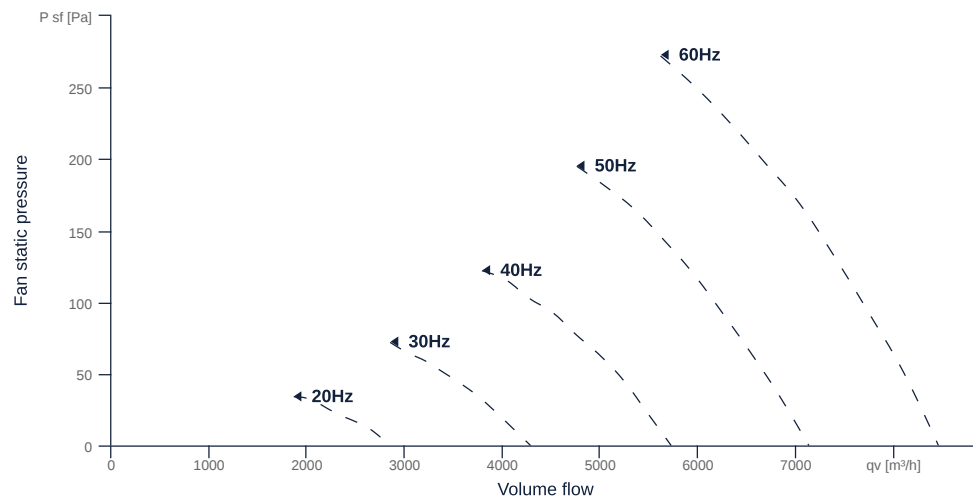
154100

- Innovative, high-efficiency axial fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing weight optimized, powder coated
- Efficient IE3 motor, frequency controllable
- Conveyed medium temperature up to 60 °C in continuous operation
- Exceeds current ErP regulation by 15 - 20%



FAN CURVES

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 _{duct}
Pipe connection size (DN)	DN450		DN
Rated voltage (entire device)	400	V	U _{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Coated steel		mat _{casing}
Impeller material	Coated steel		mat _{impeller}
IP-protection class (entire device)	IPX4		IP _{compl}
IP-Protection class (terminal box)	IP55		IP _{ebox}
Weight	25.39	kg	m
Fan type	Axial		Fan _{type}
Category / Installation situation	B		cat
Air direction	pressing over motor		direction

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	1129	W	P _{ed, max}
Max. operating current (device)	1.43	A	I _{ed, max}
Max. speed	1750	1/min	n _{max}
Max. stat. efficiency	48.2	%	η _{es}
Max. fan efficiency	61.7	%	η _e
Max. flowrate	8460	m³/h	Q _{v, max}
Max. stat pressure	280	Pa	p _{sf, max}
Max. medium temperature	60	°C	T _{m, max}
Max. environment temperature	60	°C	T _{amb, max}
Min. environment temperature	-20	°C	T _{amb, min}



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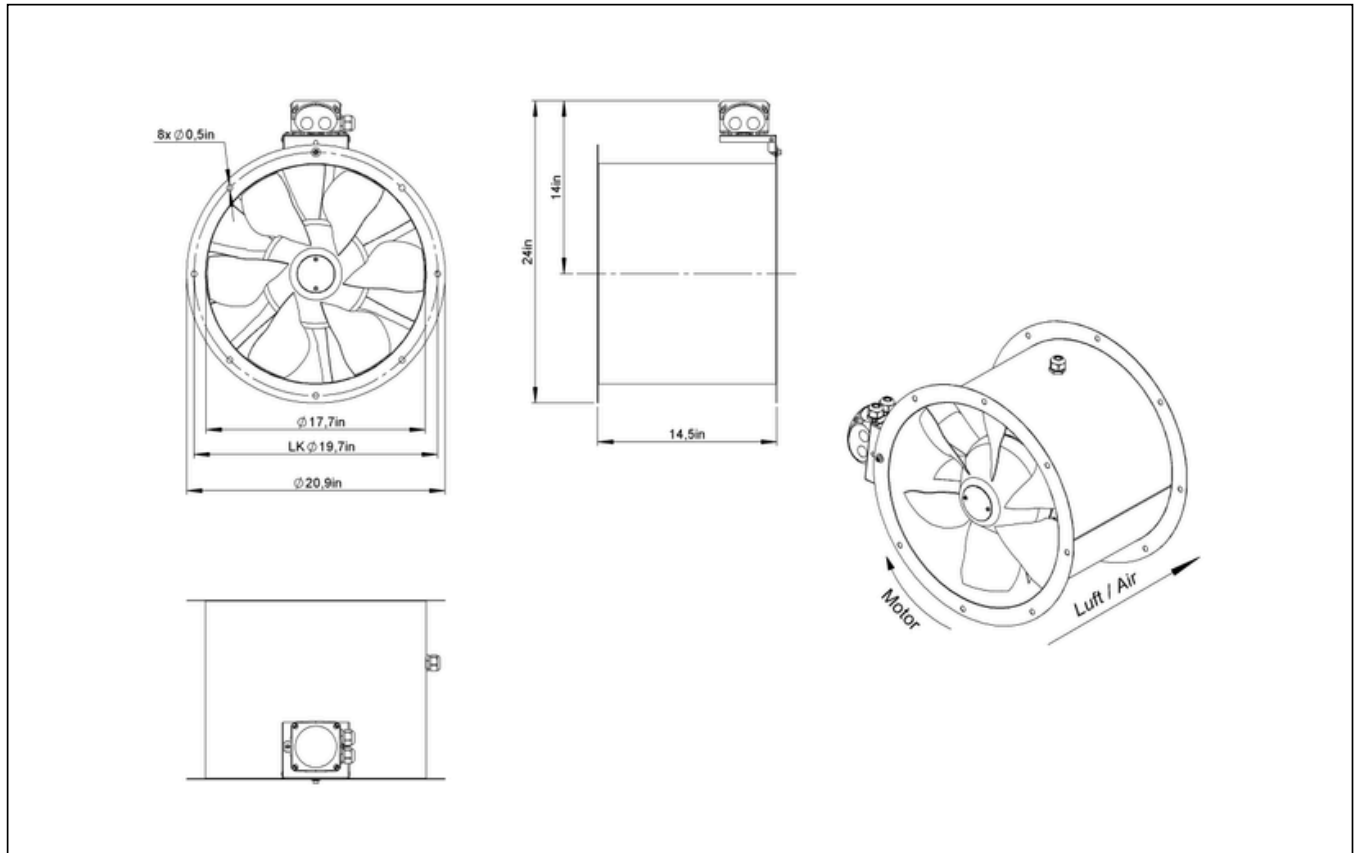
MOTOR DATA

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
Is pole-changeable		No		polexch
Type of power supply		AC 3~		pwrsupmotor
Number of poles (1)		4.000000		num polesw1
Connection	Δ	Y		wiringw1
Connection (wiring 2)	Y			wiringw2
Rated voltage	230	460	V	U _{rated, f1}
Rated voltage (wiring 2)	400		V	U _{rated, f2}
Rated current	2.92	1.47	A	I _{rated, f1}
Rated current (wiring 2)	1.68		A	I _{rated, f2}
Shaft power	750	750	W	P _{out, f1}
Shaft power (wiring 2)	750		W	P _{out, f2}
Speed	1430	1740	1/min	n _{f1}
Speed (wiring 2)	1430		1/min	n _{f2}
Starting current	20.5	12.2	A	I _{start, f1}
Starting current (wiring 2)	11.8		A	I _{start, f2}
Efficiency	82.5	84	%	$\eta_m, f1$
Efficiency (wiring 2)	82.5		%	$\eta_m, f2$
Efficiency class	IE3	IE3		IE _{motor}
Min. temperature	-20		°C	T _{motor, min}
Cos Phi	0.780000	0.760000		cos φ
UL-Certification motor		UL recognized		ULcert



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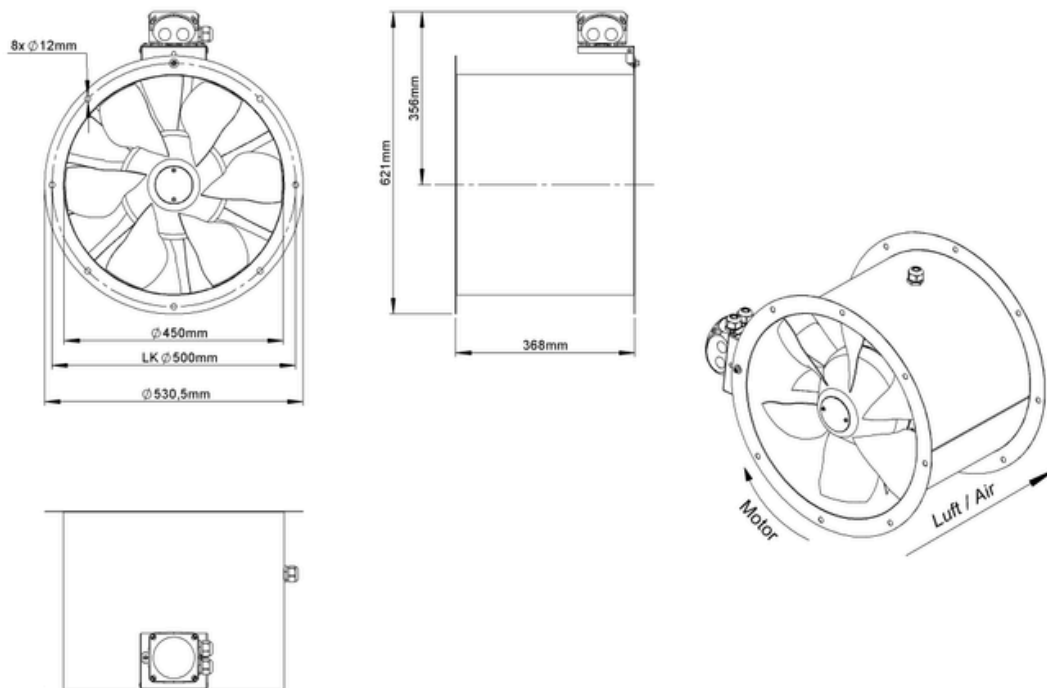
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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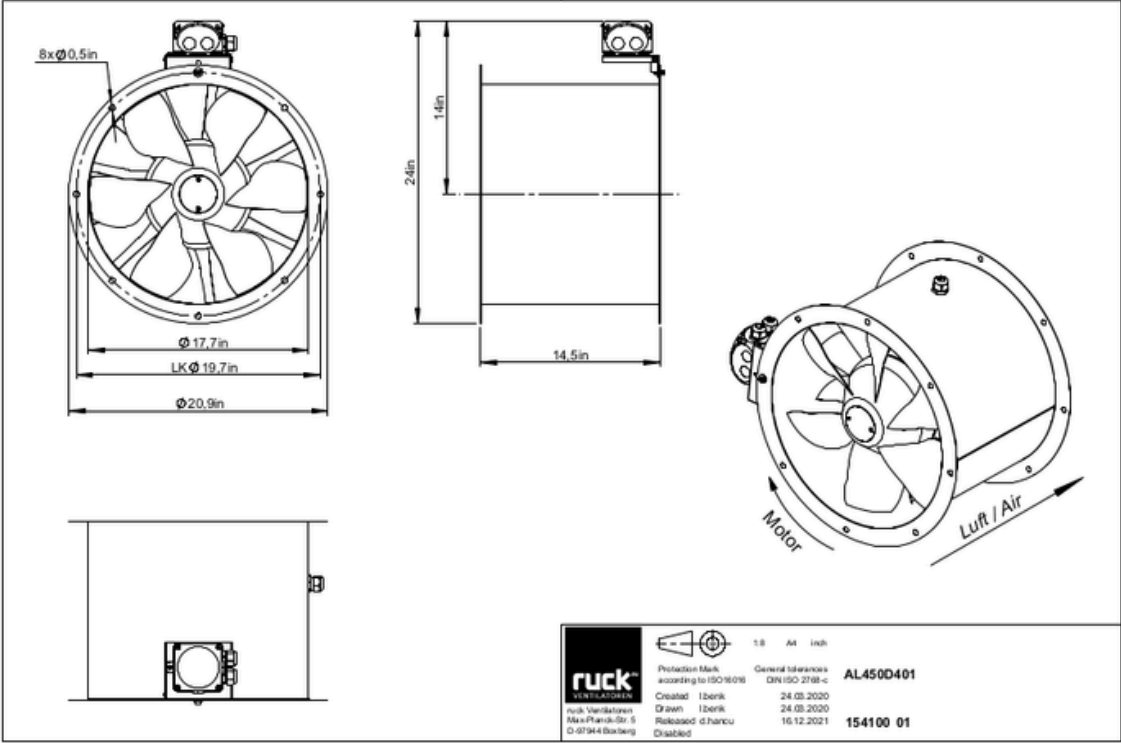
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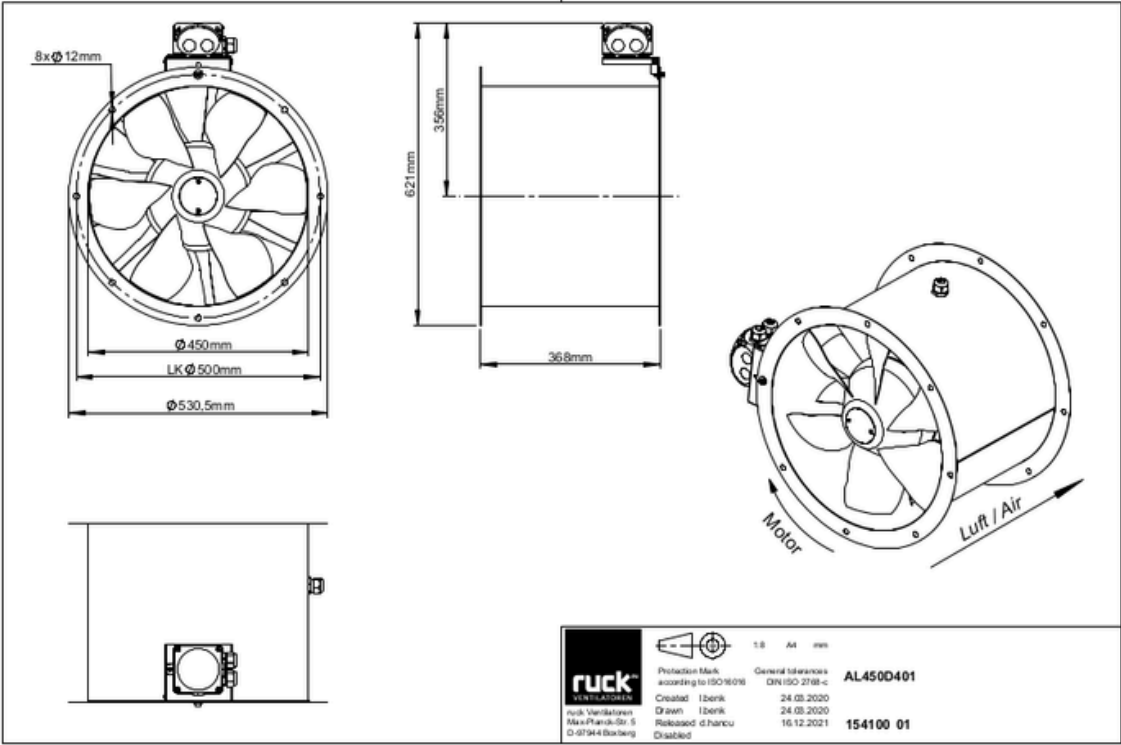
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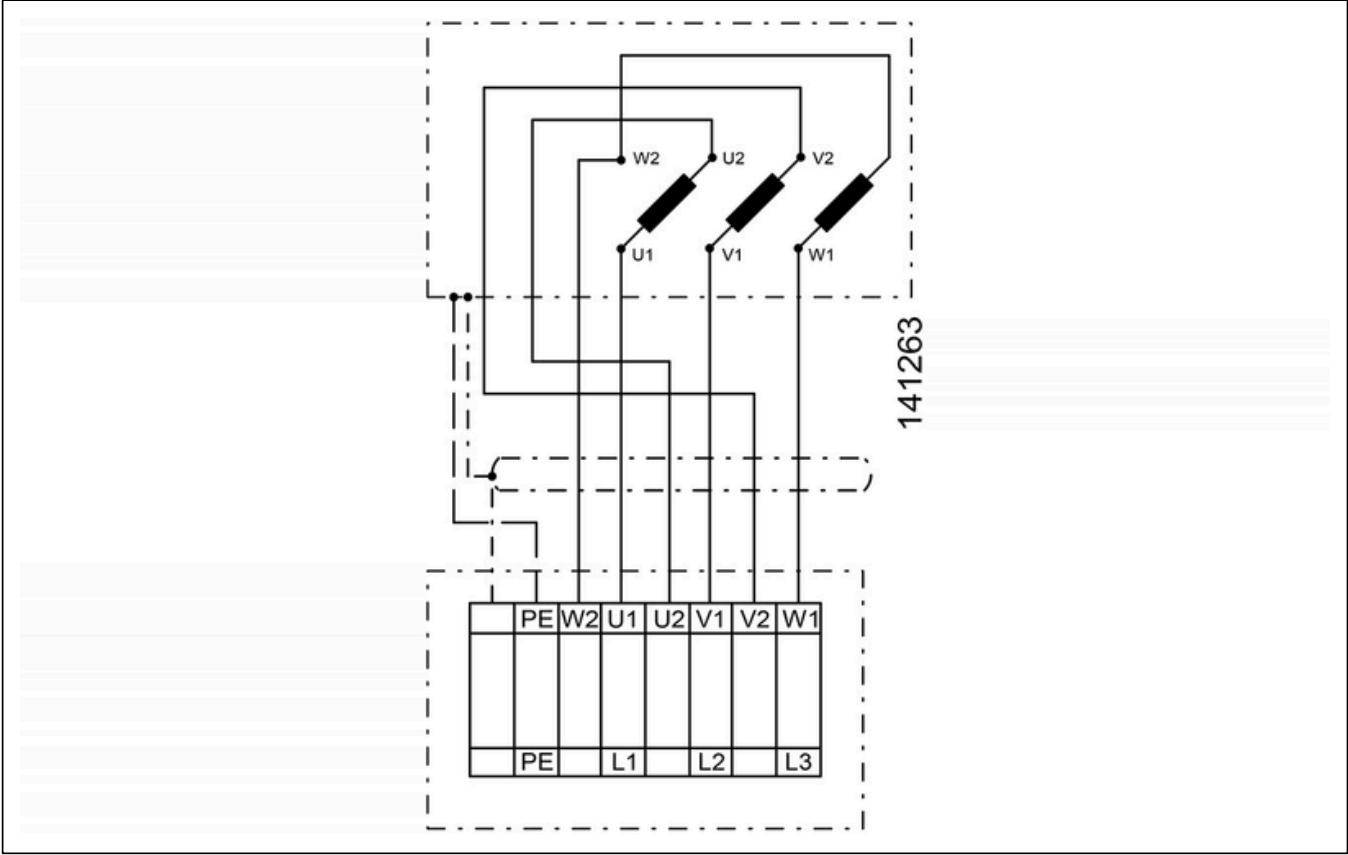
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MECHANICAL ACCESSORIES

RVK 450 | 153895



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

RVK H 450 | 154743



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

RAF 450 | 154020



- Round flange
- Sheet steel, powder coated

RVS 450 01 | 154189



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

ESD 450 | 153957



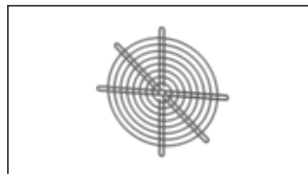
- Inlet cone
- Steel sheet, powder coated
- Flange mounting

FAL 450 | 154808



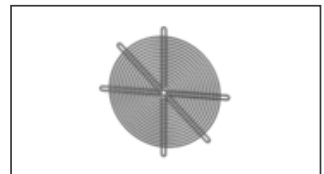
- Mounting foot
- Sheet steel, powder coated

SGW 450 | 154051



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

SGE 450 | 154075



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

FSD 02 | 155499



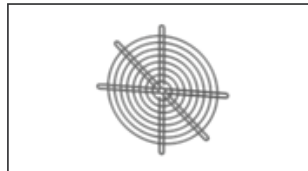
- Set of 4 vibration dampers
- All metal design, galvanized

FSD 05 | 155502



- Set of 4 vibration dampers
- Made of natural rubber, hardness 55 Shore A

SGW 500 | 154052



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

RAS 450 | 154249



- Round spigot, flexible
- Galvanized steel sheet, plastic band (PES)
- Temperature resistant up to 75 °C
- Flange mounting

MR 450 | 164891



- Mounting ring
- For vertical mounting
- Powder-coated sheet steel
- Flange mounting DN 450



ELECTRICAL ACCESSORIES

MS 02 | 140409



- Motor protection switch with Isolator switchfunktion
- I_{max} = 400 V, 50/60 Hz
- Max. 1.5 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 % V_{dc}
- Step 3 100 % V_{dc}
- Supply voltage +10 V_{dc}

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 49 | 155164



- 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 50 | 155165



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

FU 075 48 | 155163



- 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 51 | 155166



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

GS 02 | 169671



- Isolator switch
- U_{max} = 400 V, 50/60 Hz
- Switching capacity 400 V 3~ = 7,5 kW
- I_{max} = 25 A

