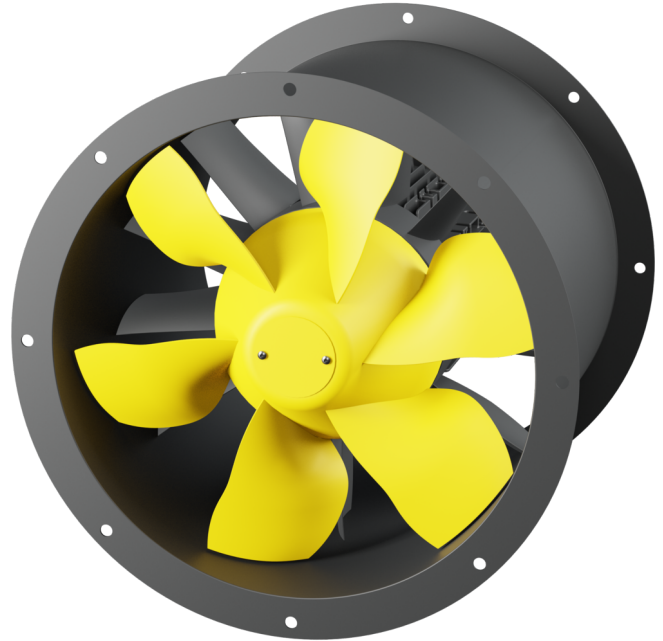


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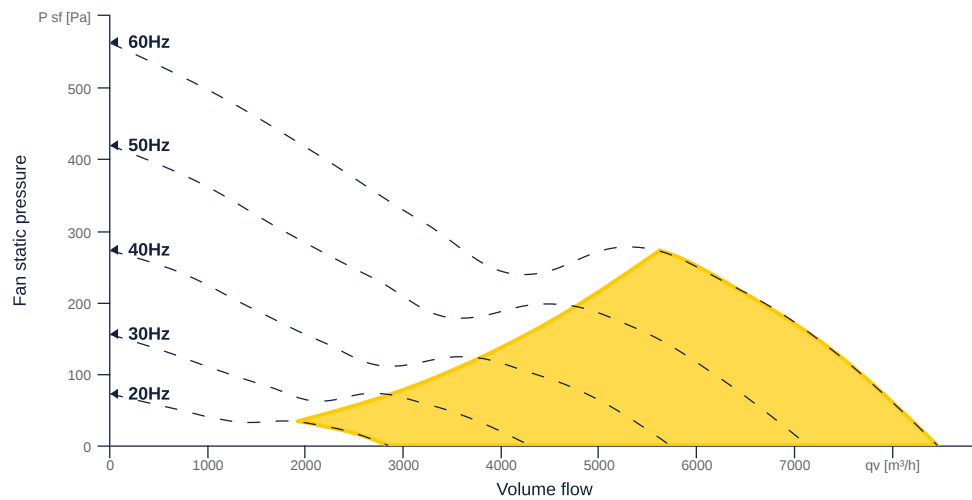
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- Innovative, high-efficiency axial fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing weight optimized, powder coated
- Efficient IE3 motor, frequency controllable
- Smoke extract fan F400, 60 °C continuous operation, dual-use
- Exceeds current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



FAN CURVES

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



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GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		$W \times H_{duct}$
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	Steel		mat_{casing}
Impeller material	Steel		$mat_{impeller}$
IP-protection class (entire device)	IPX4		IP_{compl}
IP-Protection class (terminal box)	IP55		IP_{ebox}
Weight	29.2	kg	m
Fan type	Axial		Fan_{type}
Category / Installation situation	B		cat

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	$T_{amb, min}$



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)		4.000000		num polesw1
Connection	Δ	Y		wiringw1
Connection (wiring 2)	Y			wiringw2
Rated voltage	230	460	V	Urated, f1
Rated voltage (wiring 2)	400		V	Urated, f2
Rated current	2.89	1.49	A	Irated, f1
Rated current (wiring 2)	1.66		A	Irated, f2
Shaft power	750	750	W	Pout, f1
Shaft power (wiring 2)	750		W	Pout, f2
Speed	1440	1750	1/min	n _{f1}
Speed (wiring 2)	1440		1/min	n _{f2}
Starting current	20.2	12.7	A	Istart, f1
Starting current (wiring 2)	11.6		A	Istart, f2
Efficiency	82.5	84	%	η _m , f1
Efficiency (wiring 2)	82.5		%	η _m , f2
Efficiency class	IE3	IE3		IEmotor
Min. temperature	-20	-20	°C	Tmotor, min
Cos Phi	0.790000	0.750000		cos φ
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	1733	1/min	n _{opt}
Efficiency level	64.3	%	N
Efficiency category	total		catefficiency
Input power of the motor at the energy efficiency optimum	0.8	kW	P _e , opt
Overall efficiency	71.2	%	η _{ges}
Measurement category	B		meas cat
Fan pressure at energy efficiency optimum	278	Pa	p _f , opt
Flowrate at energy efficiency optimum	6697	m³/h	Q _v , opt

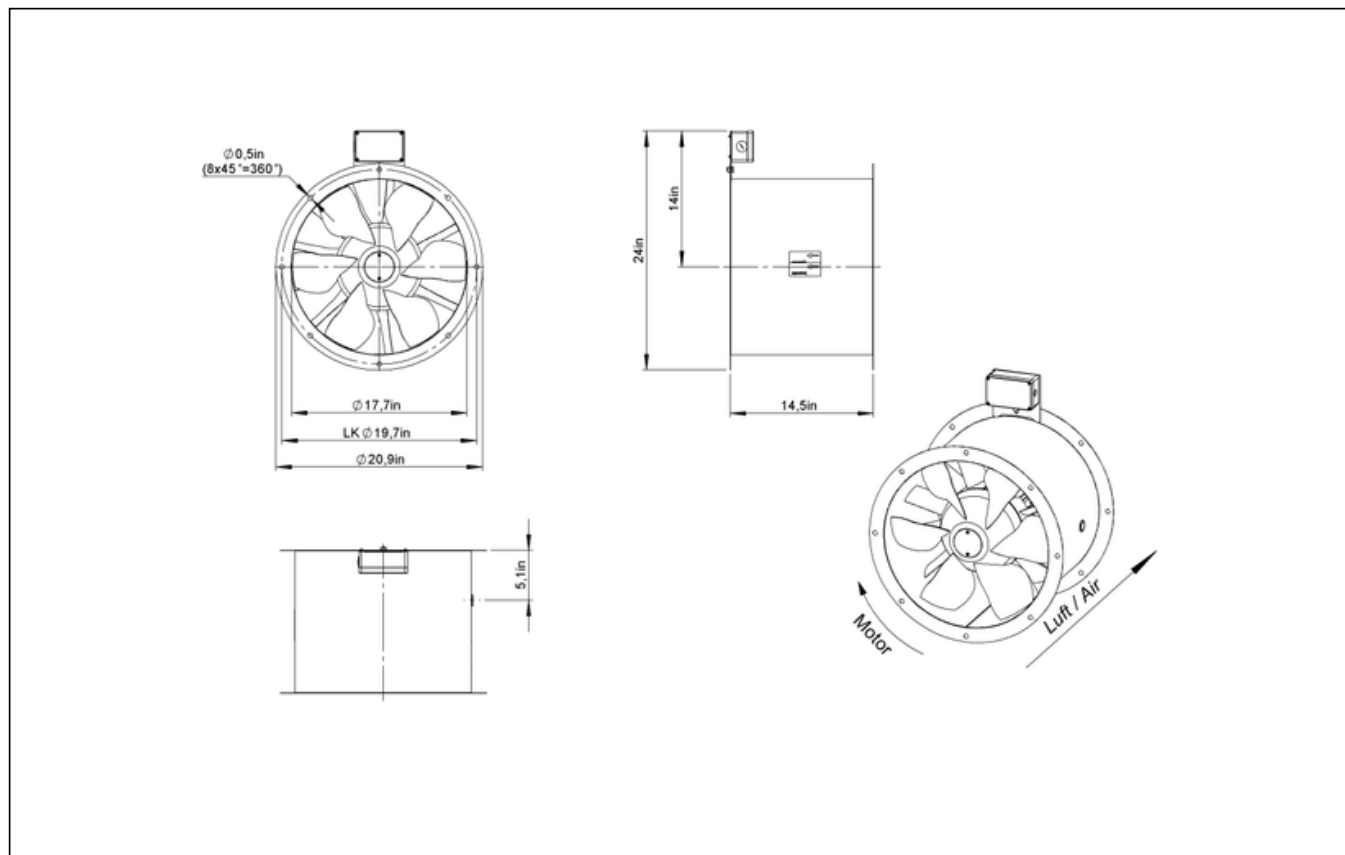


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SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Maximum resistance temperature	400	°C	T _{fire}
Maximum resistance time	120.000000		t _{fire}
Fire resistance class	F 400 (120)		F _{class}
Snow load class	-		SL _{class}

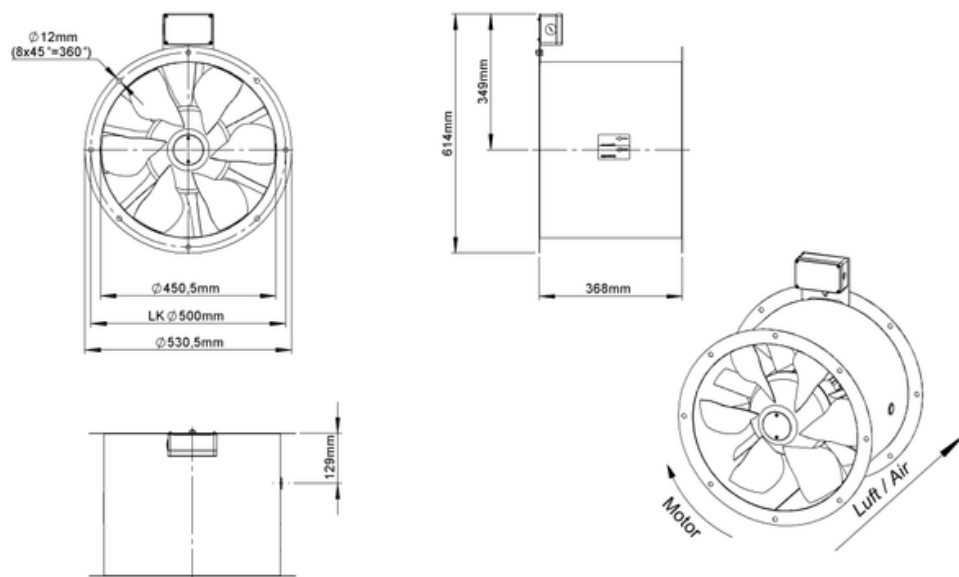
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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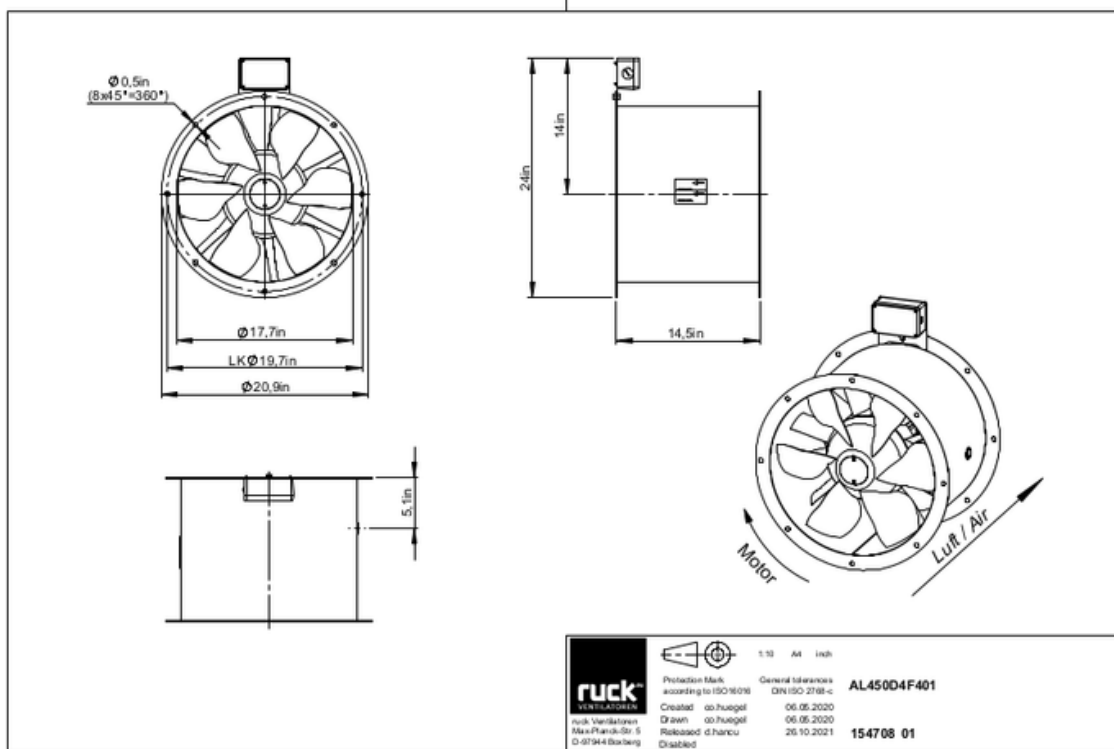


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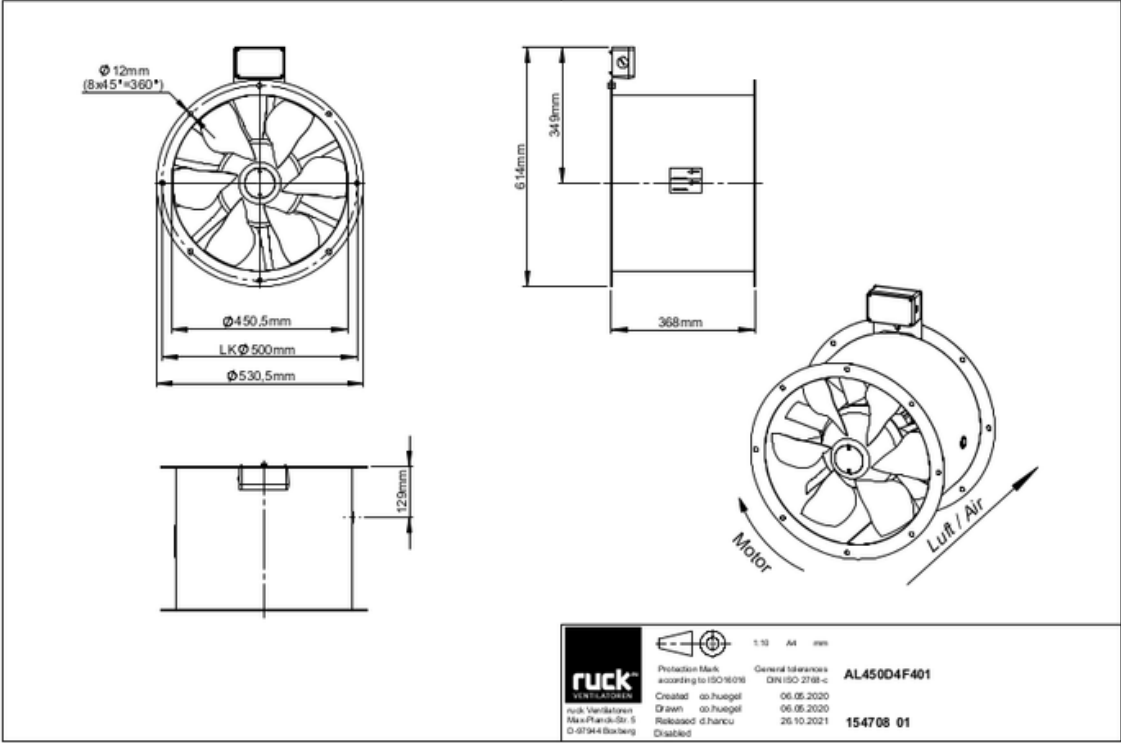
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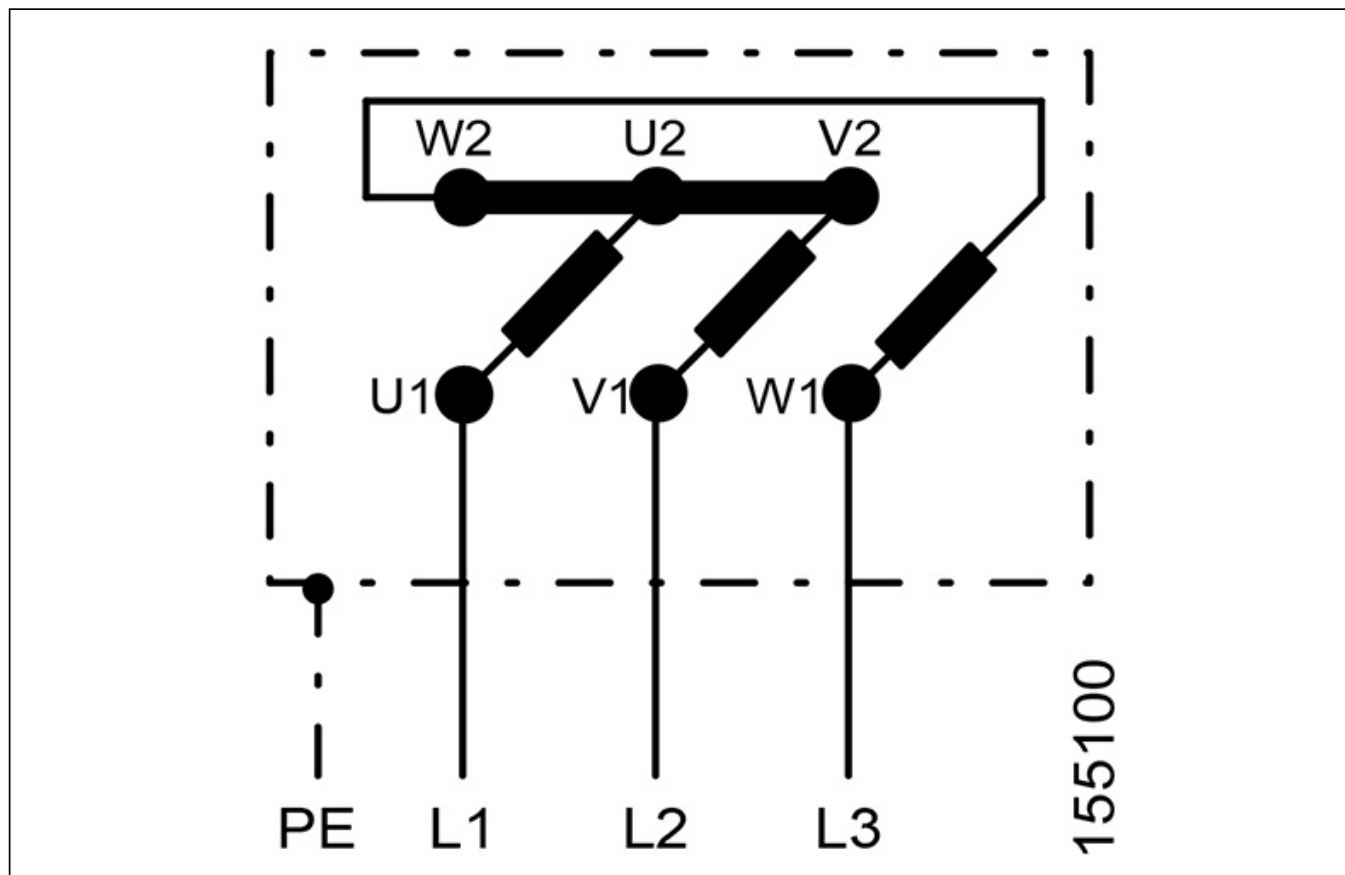
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MECHANICAL ACCESSORIES

ESD 450 | 153957



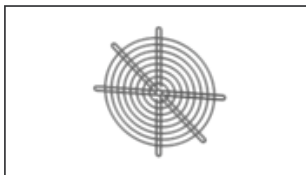
- Inlet cone
- Steel sheet, powder coated
- Flange mounting

RAF 450 | 154020



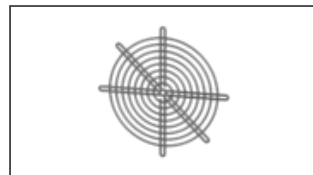
- Round flange
- Sheet steel, powder coated

SGW 450 | 154051



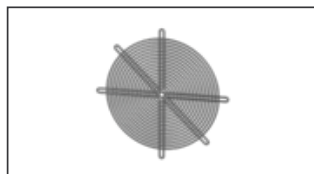
- Protection grille, wide meshed
- Steel sheet, galvanized
- Flange mounting

SGW 500 | 154052



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

SGE 450 | 154075



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

RVS 450 | 154189



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

RAS 450 F4 | 154303



- 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 450 F4 | 154394



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

FAL 450 | 154808



- Mounting foot
- Sheet steel, powder coated

FSD 02 | 155499



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

RVK H 450 F4 | 155669



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



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 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 51 | 155166



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



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