

AL 800 D6 F4 01

162465

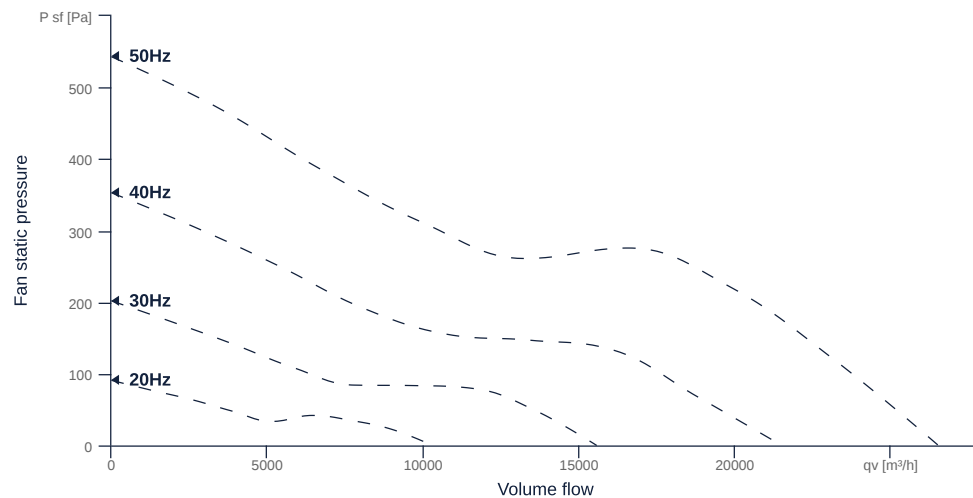
ruck

- 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



to the product detail page

AL 800 D6 F4 01

162465

ruck

GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		$W \times H_{duct}$
Pipe connection size (DN)	DN800		DN
Rated voltage (entire device)	400	V	U_{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Steel		matcasing
Impeller material	Steel		matimpeller
IP-protection class (entire device)	IPX4		IPcompl
IP-Protection class (terminal box)	IP55		IPebox
Weight	117.1	kg	m
Fan type	Axial		Fan _{type}
Category / Installation situation	B		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	3298	W	$P_{ed, max}$
Max. operating current (device)	5.21	A	$I_{ed, max}$
Max. speed	980	1/min	n_{max}
Max. stat. efficiency	54.2	%	η_{es}
Max. fan efficiency	69.4	%	η_e
Max. flowrate	26520	m ³ /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	$T_{amb, min}$



to the product detail page

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)		6.000000		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	9.08	4.44	A	Irated, f1
Rated current (wiring 2)	5.22		A	Irated, f2
Shaft power	2200	2200	W	Pout, f1
Shaft power (wiring 2)	2200		W	Pout, f2
Speed	955	1165	1/min	n _{f1}
Speed (wiring 2)	955		1/min	n _{f2}
Starting current	54.5	31.5	A	Istart, f1
Starting current (wiring 2)	31.3		A	Istart, f2
Efficiency	84.5	87.5	%	η _m , f1
Efficiency (wiring 2)	84.5		%	η _m , f2
Efficiency class	IE3	IE3		IE _{motor}
Min. temperature	-20	-20	°C	T _{motor, min}
Cos Phi	0.720000	0.710000		cos φ
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	970	1/min	n _{opt}
Efficiency level	69.4	%	N
Efficiency category	total		cat _{efficiency}
Input power of the motor at the energy efficiency optimum	2.3	kW	P _{e, opt}
Overall efficiency	73.4	%	η _{ges}
Measurement category	B		meas cat
Fan pressure at energy efficiency optimum	278	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	20631	m³/h	Q _{v, opt}



to the product detail page

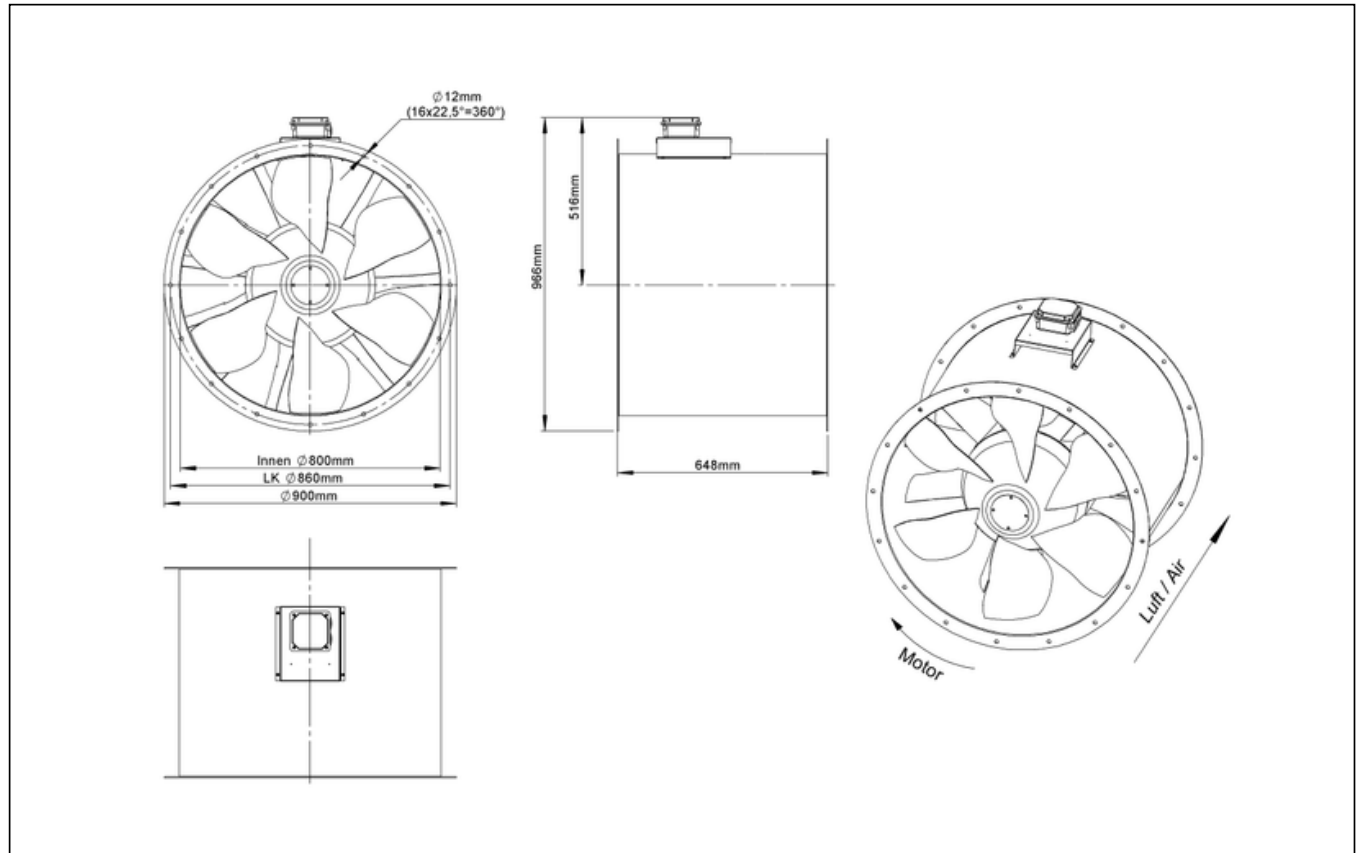
SMOKE EXTRACT DATA

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}



to the product detail page

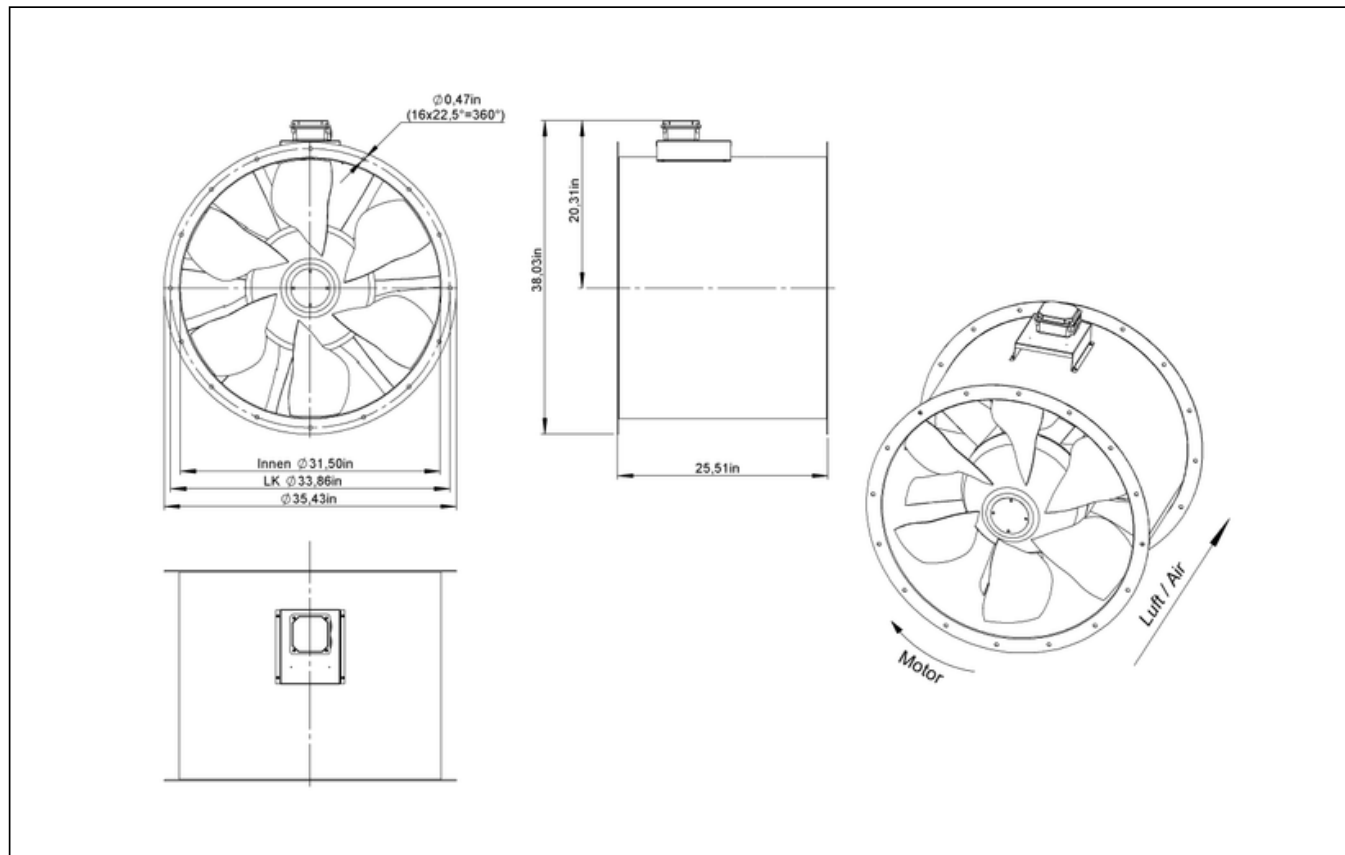
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



AL 800 D6 F4 01

162465

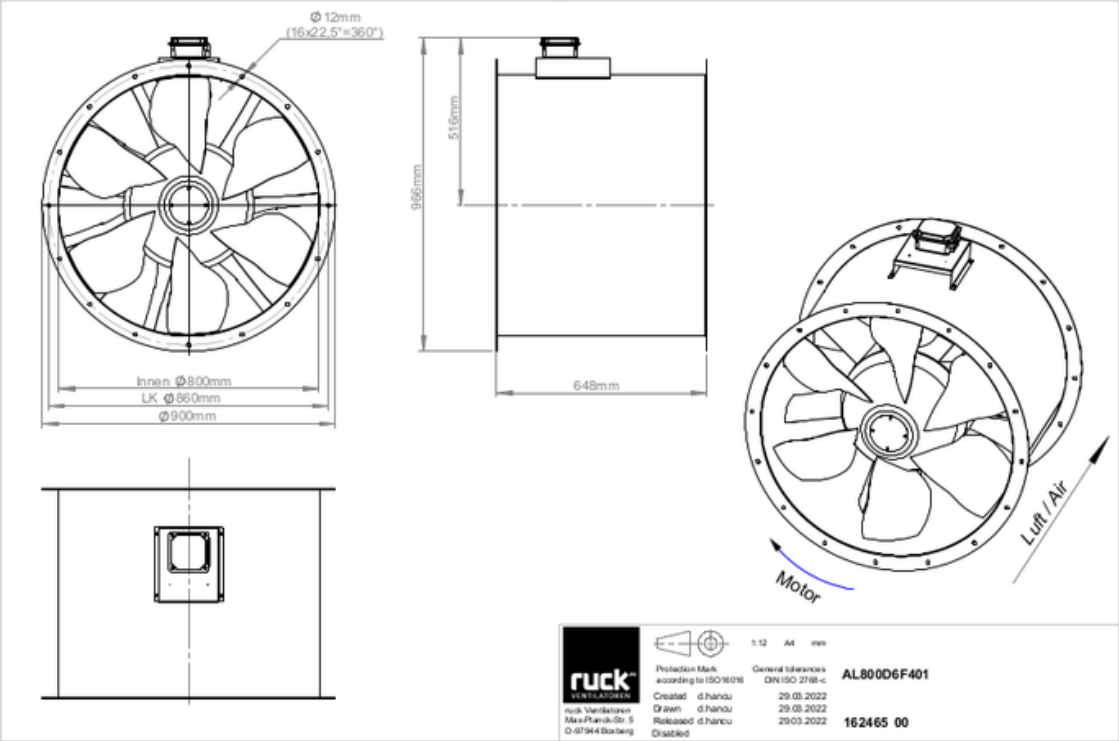
ruck



to the product detail page

AL 800 D6 F4 01

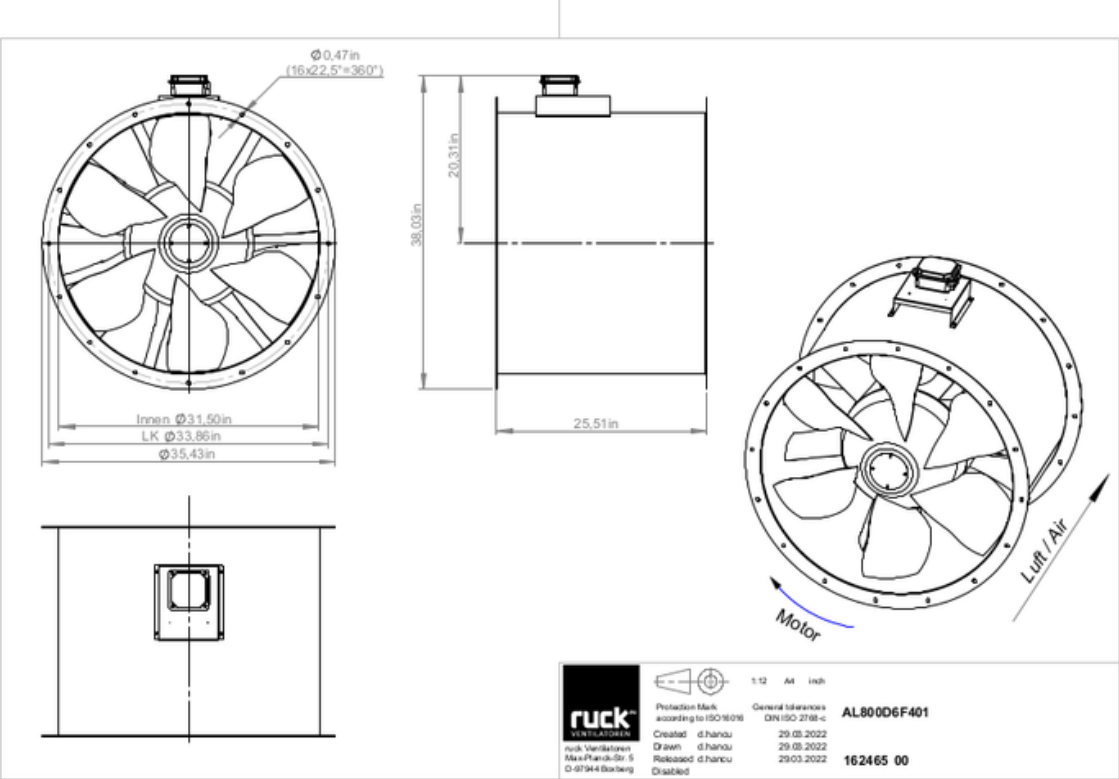
162465



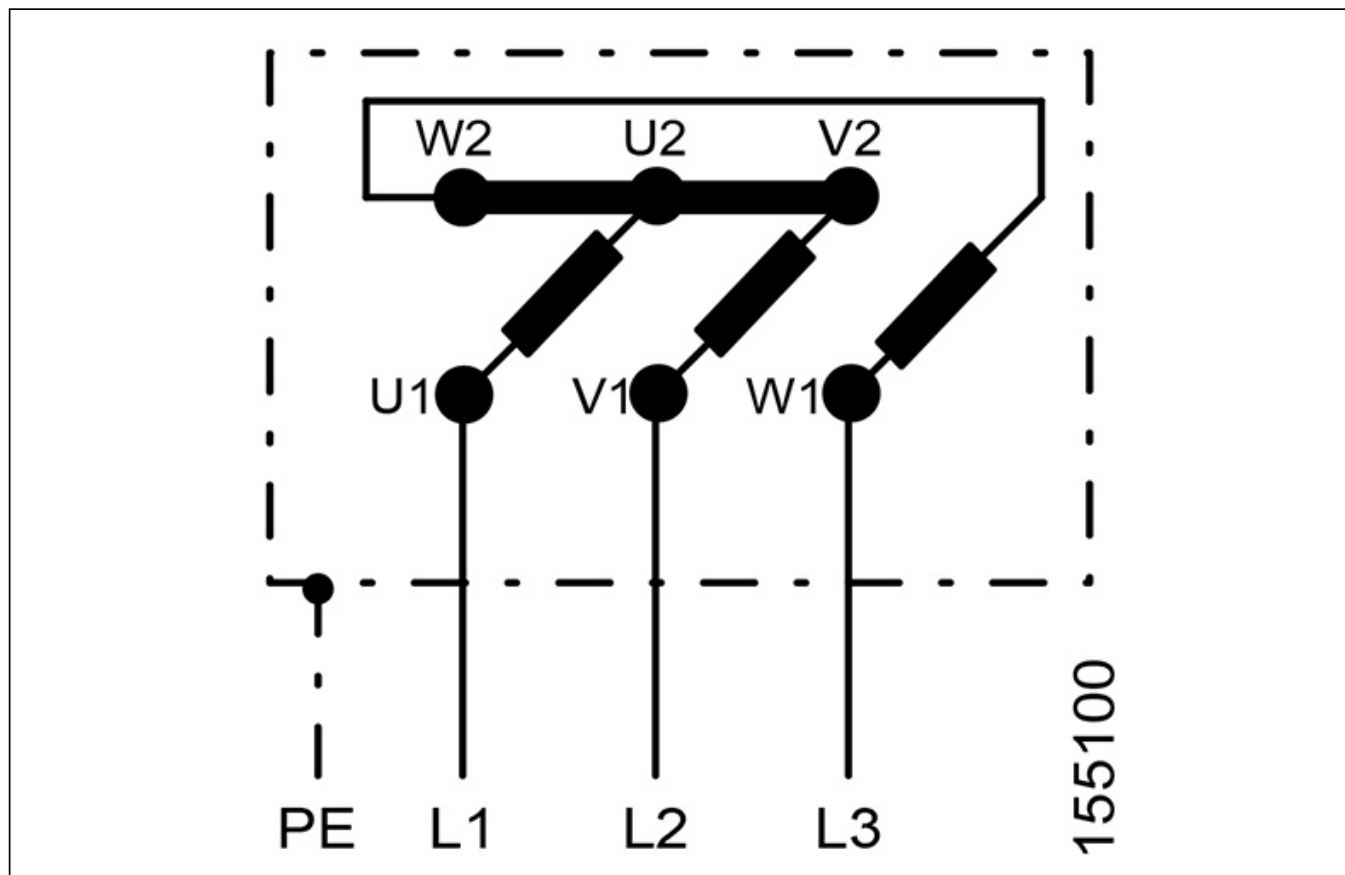
to the product detail page

AL 800 D6 F4 01

162465

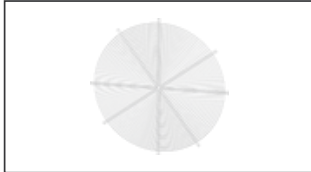


to the product detail page



MECHANICAL ACCESSORIES

SGW 800 | 154057



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

RAF 800 | 157395



- Round flange
- Sheet steel, powder coated

RVS 800-01 | 157478



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

ESD 800 | 157527



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

RAS 800 F4 | 157690



- 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 800 F4 | 157738



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

FAL 800 | 157897



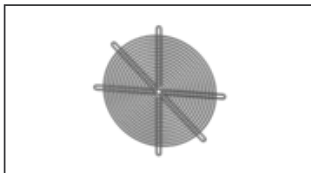
- Mounting foot
- Sheet steel, powder coated
- Flange mounting

RVK H 800 F4 | 159425



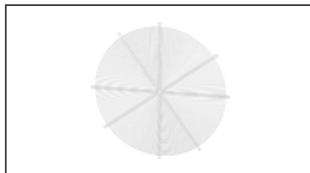
- Automatic tube shutter
- Sheet steel, powder coated
- For horizontal installation
- Flange mounting

SGE 800 | 159516



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

SGW 900 | 159541



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

FSD10 | 162484



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



to the product detail page

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 k Ω
- Switching contact 1A/250V AC - 2,5A/12V DC
- Max. ambient temperature 50 °C
- VDE

MTP 30 | 143289



- Stepped potentiometer 10 k Ω
- 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

FU 22 36 | 161378



- Frequency converter IP66
- Supply voltage 230 V 1~ 50/60 Hz
- Output voltage 0 - 230 V 3~
- Fire mode function (smoke extract fans)



to the product detail page