

AL 1000 D4 F4 02

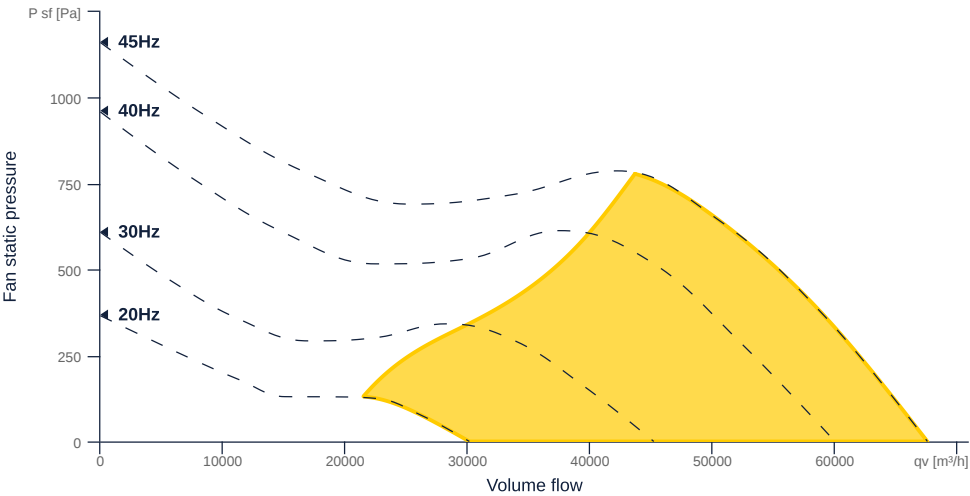
162634

- 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 1000 D4 F4 02

162634

ruck

GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		$W \times H_{duct}$
Pipe connection size (DN)	DN1000		DN
Rated voltage (entire device)	400	V	U_{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	35 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	264	kg	m
Fan type	Axial		Fan _{type}
Category / Installation situation	B		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	16042	W	$P_{ed, max}$
Max. operating current (device)	32.8	A	$I_{ed, max}$
Max. speed	1330	1/min	n_{max}
Max. stat. efficiency	55.9	%	η_{es}
Max. fan efficiency	71.3	%	η_e
Max. flowrate	67550	m ³ /h	$Q_{v, max}$
Max. stat pressure	1160	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)		4.000000		num polesw1
Connection	Δ			wiringw1
Connection (wiring 2)	Y			wiringw2
Rated voltage	400		V	Urated, f1
Rated voltage (wiring 2)	690		V	Urated, f2
Rated current	27.9		A	Irated, f1
Rated current (wiring 2)	16.1		A	Irated, f2
Shaft power	15000		W	Pout, f1
Shaft power (wiring 2)	15000		W	Pout, f2
Speed	1470		1/min	n1
Speed (wiring 2)	1470		1/min	n2
Starting current	201		A	Istart, f1
Starting current (wiring 2)	116		A	Istart, f2
Efficiency	92.3		%	ηm, f1
Efficiency (wiring 2)	92.3		%	ηm, f2
Efficiency class	IE3			IEmotor
Min. temperature	-20		°C	Tmotor, min
Cos Phi	0.840000	0.000000		cos φ
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	1327	1/min	n _{opt}
Efficiency level	71	%	N
Efficiency category	total		cat _{efficiency}
Input power of the motor at the energy efficiency optimum	16.09	kW	P _{e, opt}
Overall efficiency	70.7	%	η _{ges}
Measurement category	B		meas cat
Fan pressure at energy efficiency optimum	759	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	54176	m³/h	Q _{v, opt}



to the product detail page

AL 1000 D4 F4 02

162634



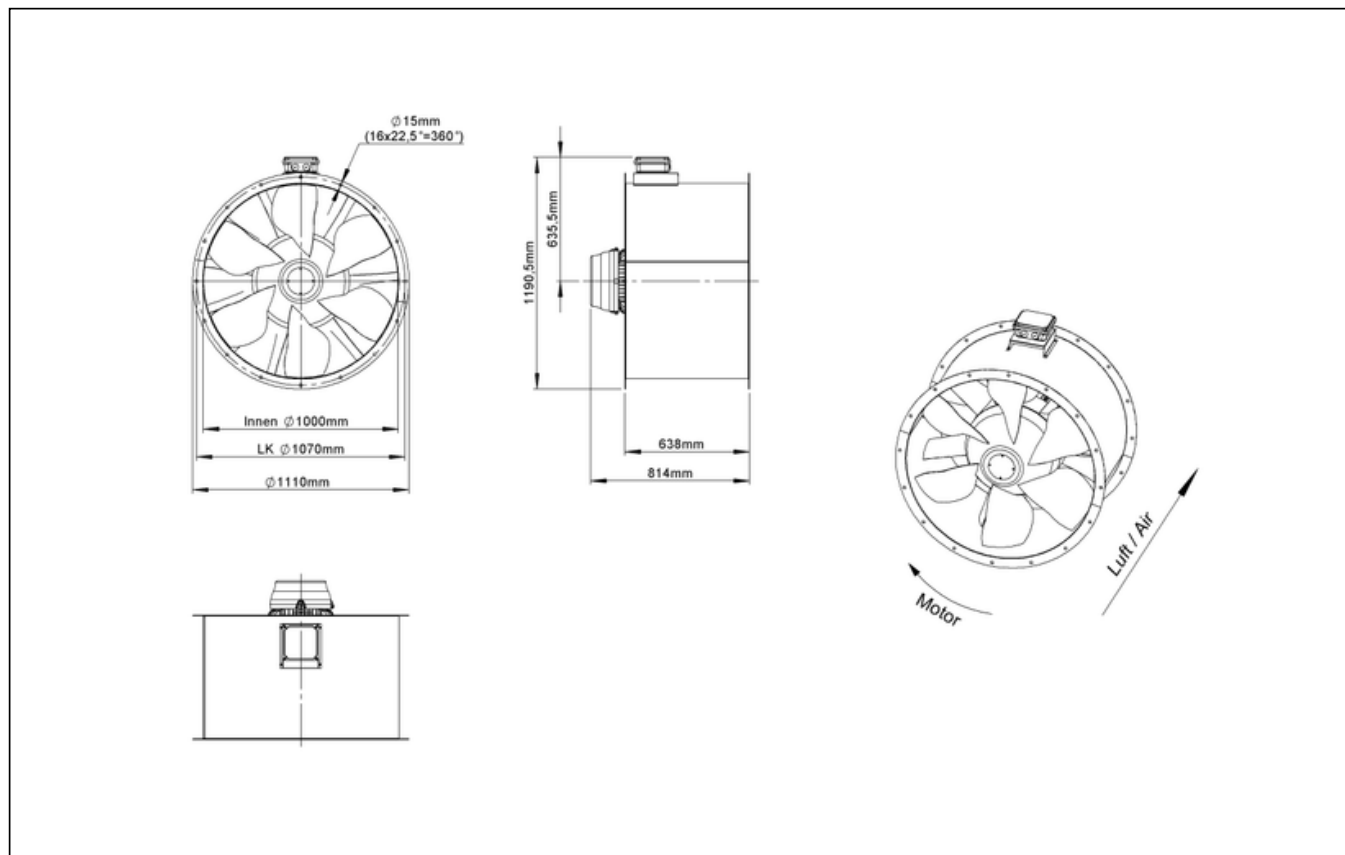
SMOKE EXTRACT DATA

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

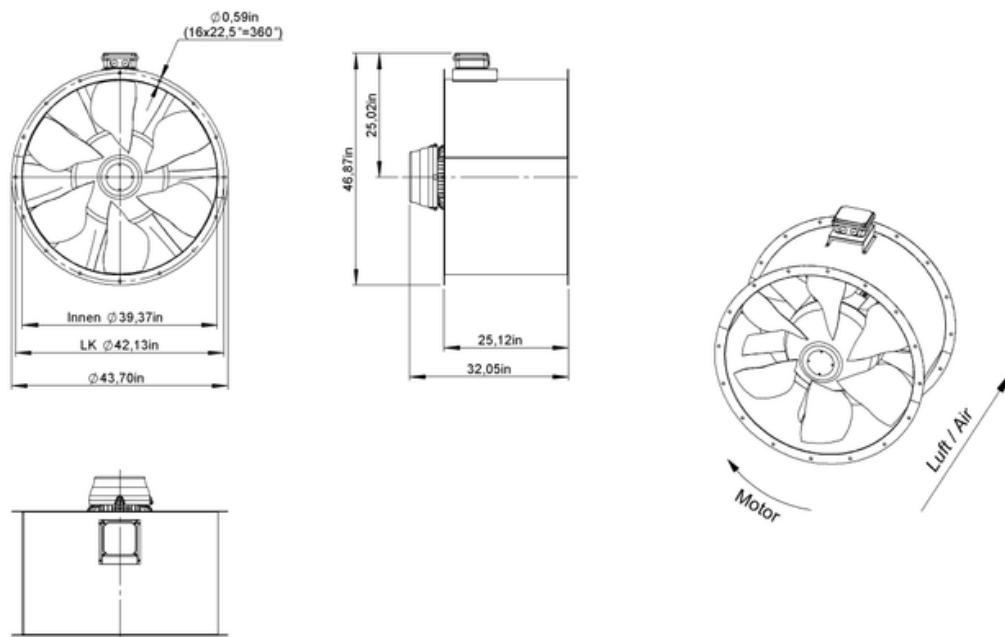
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



AL 1000 D4 F4 02

162634

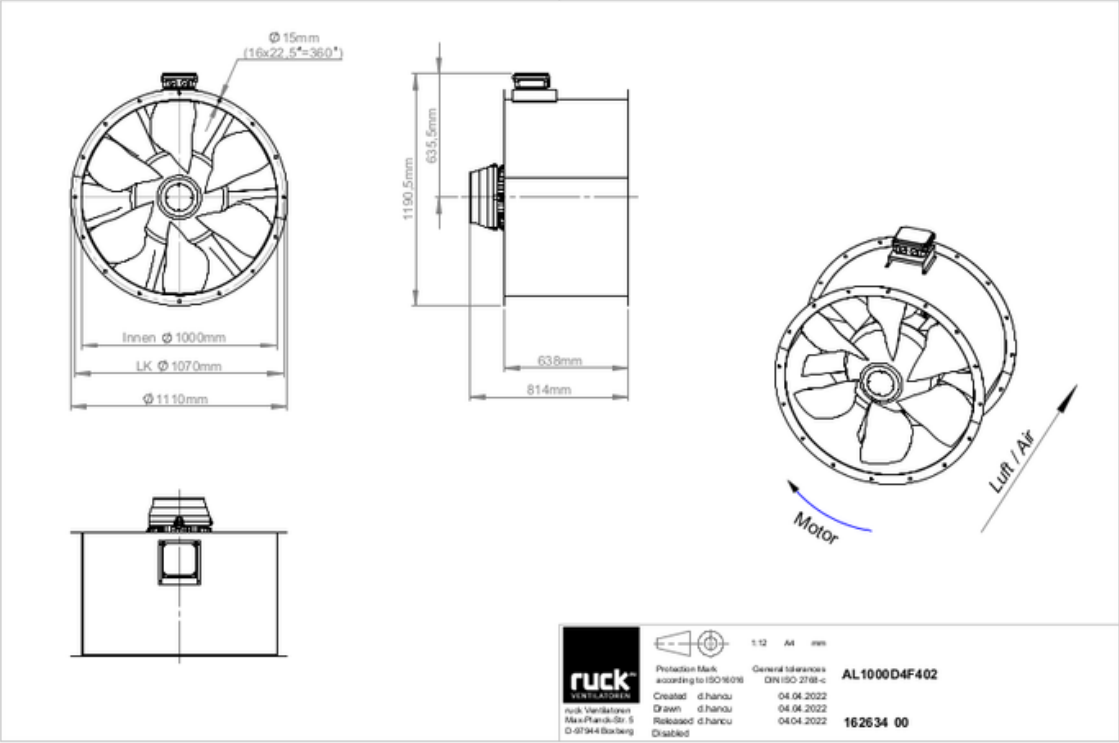
ruck



to the product detail page

AL 1000 D4 F4 02

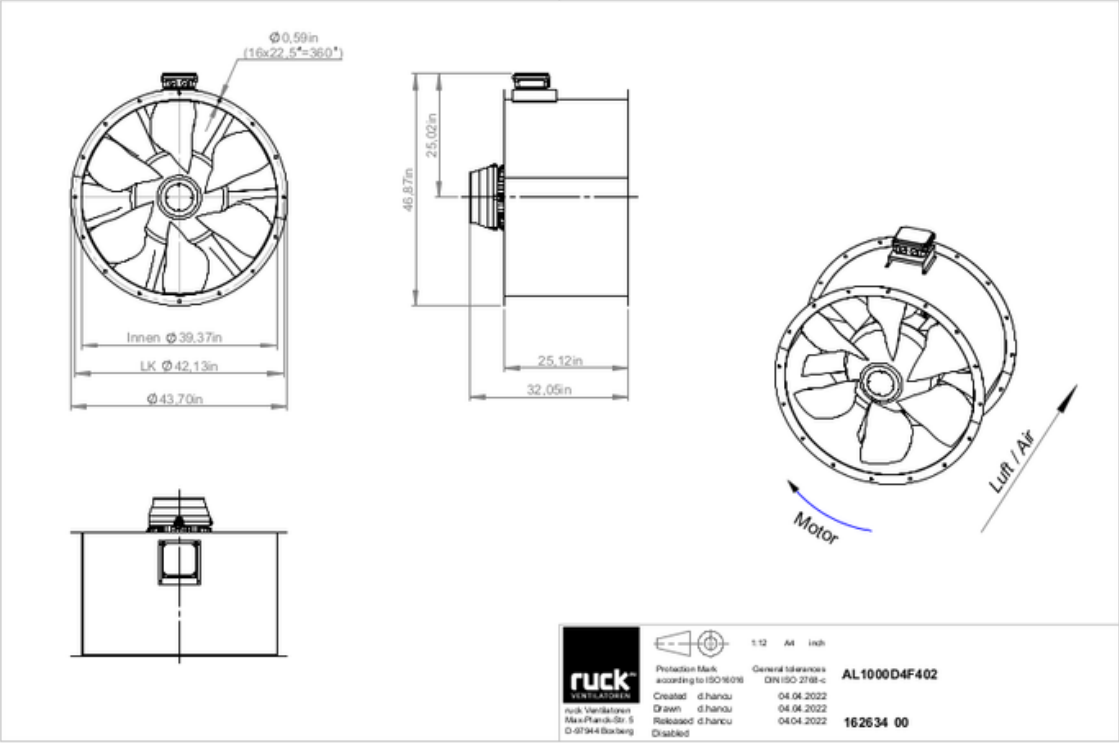
162634



to the product detail page

AL 1000 D4 F4 02

162634

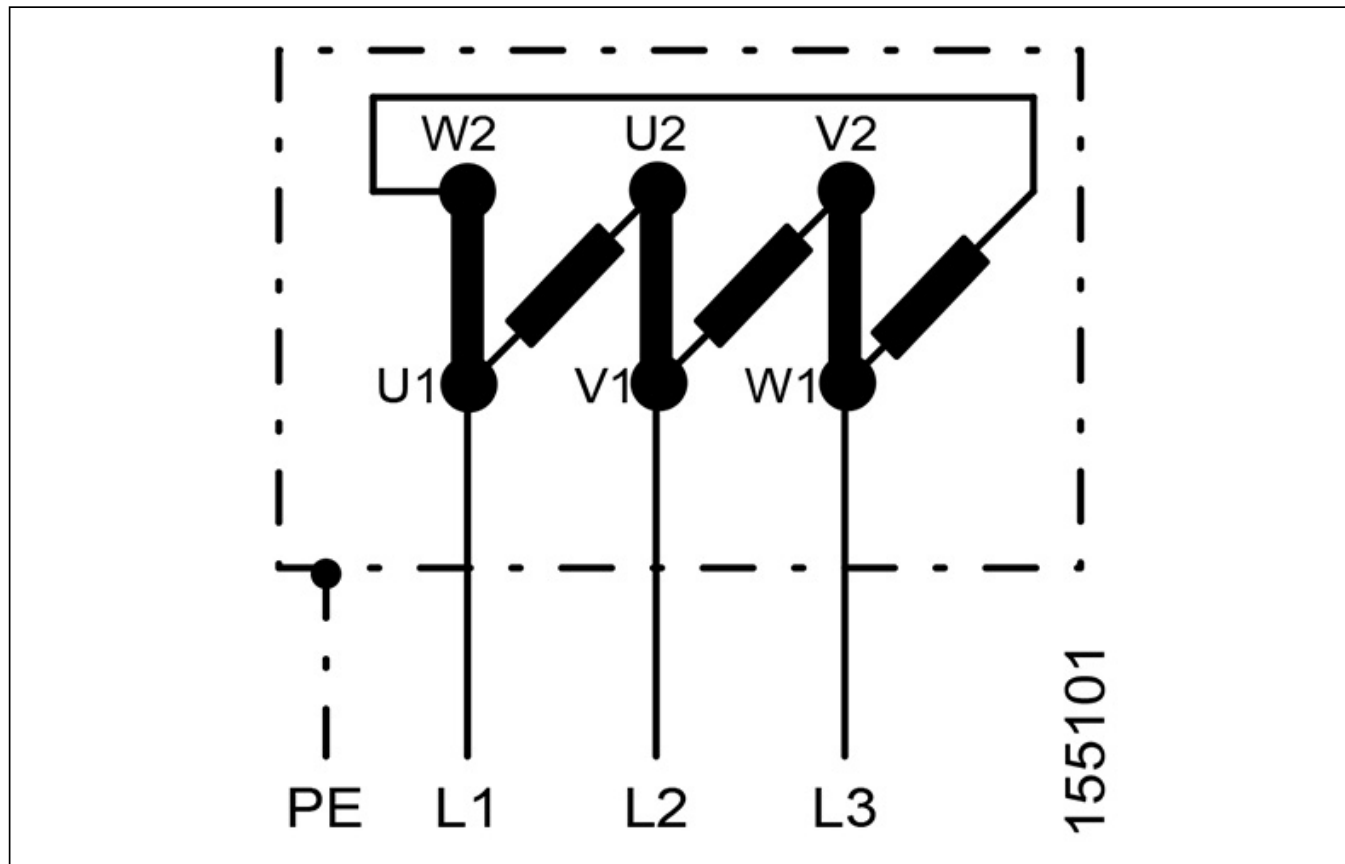


to the product detail page

AL 1000 D4 F4 02

162634

ruck



AL 1000 D4 F4 02

162634

MECHANICAL ACCESSORIES

RAF 1000 | 157414



- Round flange
- Sheet steel, powder coated

RVS 1000-01 | 157480



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

ESD 1000 | 157569



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

RAS 1000 F4 | 157694



- 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 1000 F4 | 157768



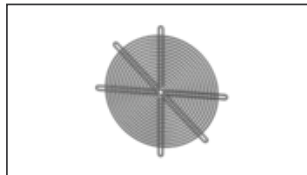
- Automatic tube shutter
- Sheet steel, powder coated
- For vertical installation
- Flange mounting

FAL 1000 | 157899



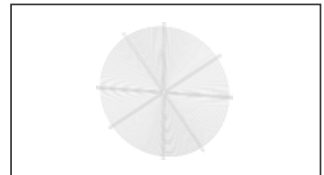
- Mounting foot
- Sheet steel, powder coated
- Flange mounting

SGE 1000 | 159518



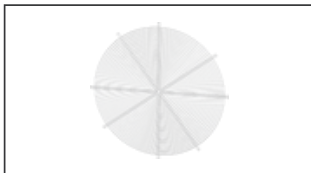
- Protection grille, narrow meshed
- Steel sheet, galvanized
- Flange mounting

SGW 1000 | 159542



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

SGW 1120 | 159543



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

RVK H 1000 F4 | 159574



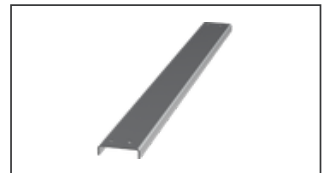
- Automatic tube shutter
- Sheet steel, powder coated
- For horizontal installation
- Flange mounting

FSD 11 | 162489



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

TRA1000 | 162924



- Crossbeam
- Connection between mounting feet
- Galvanized steel sheet



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 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 09 F4 | 157318



- Device switch F4
- F400, 400 °C/120 min. (DIN EN 12101-3)
- Umax = 400 V, 50/60 Hz, Imax = 40 A
- Switching capacity 400 V 3~ = 18 kW

FU 185 05 | 161405



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

FU 185 06 | 161406



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



to the product detail page