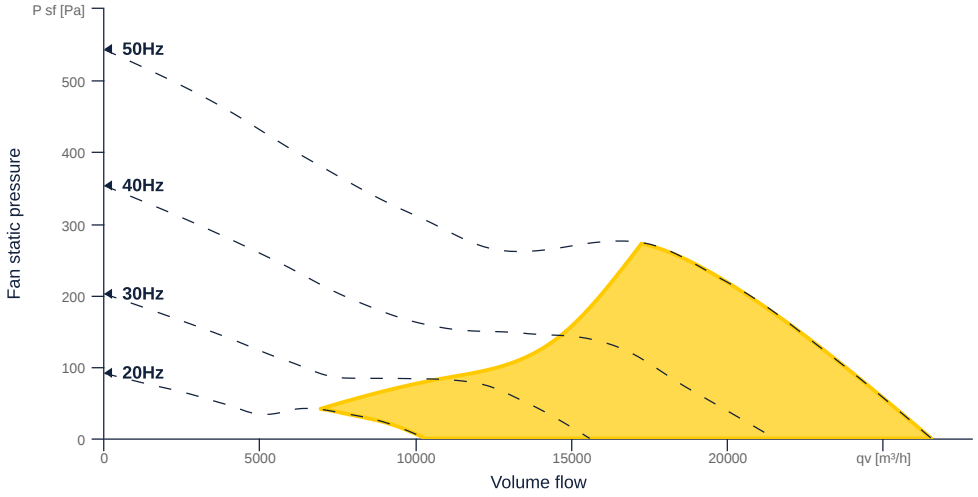
AL 800 D6 01

162501

- 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)	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		mat_{casing}
Impeller material	Steel		$mat_{impeller}$
IP-protection class (entire device)	IPX4		IP_{compl}
IP-Protection class (terminal box)	IP66		IP_{ebox}
Weight	114.1	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	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		$ctrl_{type}$
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISO_{class}
Protection class		IP55		IP_{motor}
Is pole-changeable		No		polexch
Type of power supply		AC 3~		$pwrsup_{motor}$
Number of poles (1)		6.000000		$num\ poles_{w1}$
Connection	Δ	Y		$wiring_{w1}$
Connection (wiring 2)	Y			$wiring_{w2}$
Rated voltage	230	460	V	$U_{rated,\ f1}$
Rated voltage (wiring 2)	400		V	$U_{rated,\ f2}$
Rated current	9.2	4.64	A	$I_{rated,\ f1}$
Rated current (wiring 2)	5.29		A	$I_{rated,\ f2}$
Shaft power	2200	2200	W	$P_{out,\ f1}$
Shaft power (wiring 2)	2200		W	$P_{out,\ f2}$
Speed	960	1165	1/min	n_{f1}
Speed (wiring 2)	960		1/min	n_{f2}
Starting current	59.8	35.3	A	$I_{start,\ f1}$
Starting current (wiring 2)	34.4		A	$I_{start,\ f2}$
Efficiency	84.5	87.5	%	$\eta_{m,\ f1}$
Efficiency (wiring 2)	84.5		%	$\eta_{m,\ f2}$
Efficiency class	IE3	IE3		IE_{motor}
Min. temperature	-20	-20	°C	$T_{motor,\ min}$
Cos Phi	0.710000	0.680000		cos φ
UL-Certification motor		UL recognized		UL_{cert}

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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	20632	m³/h	$q_{v,\ opt}$

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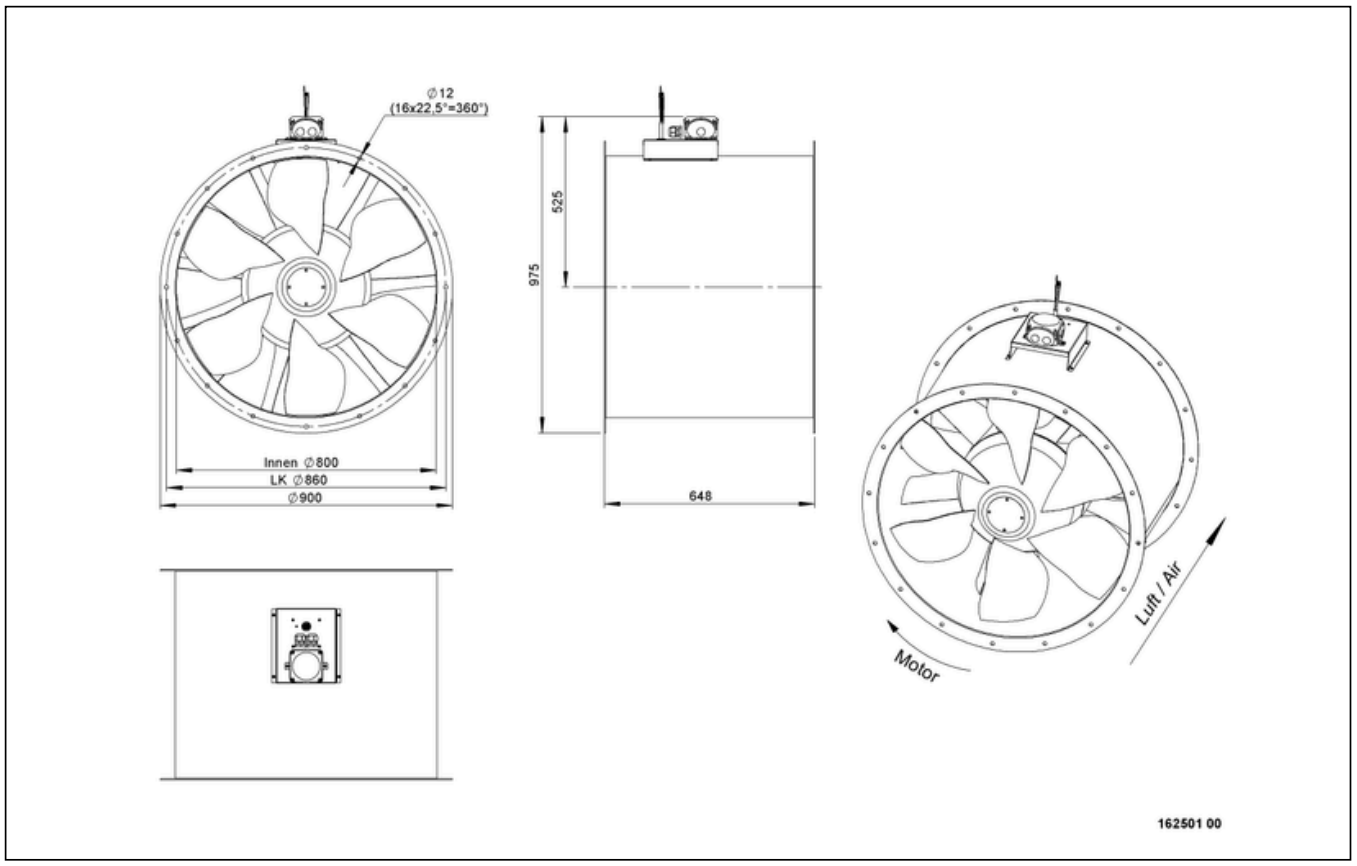
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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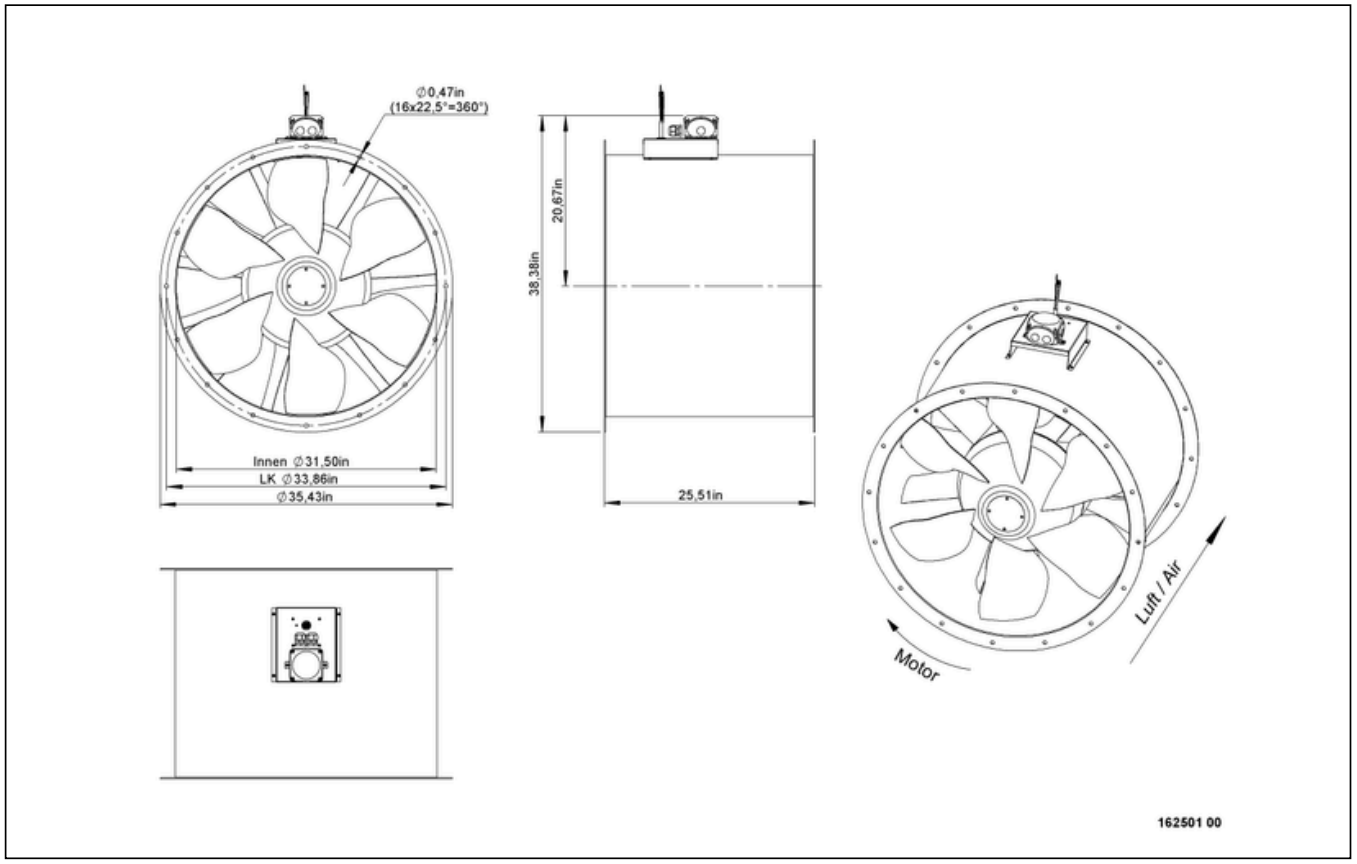

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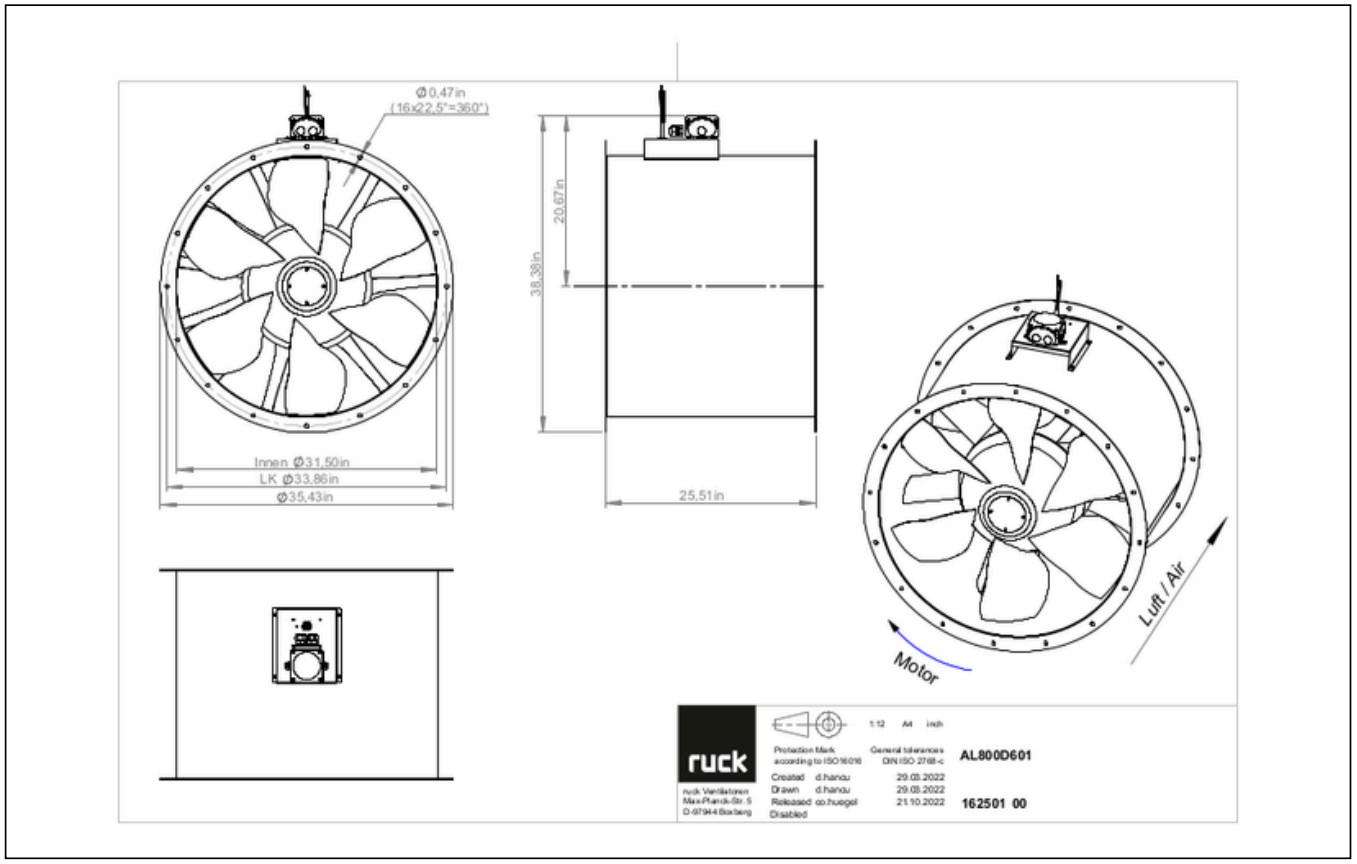

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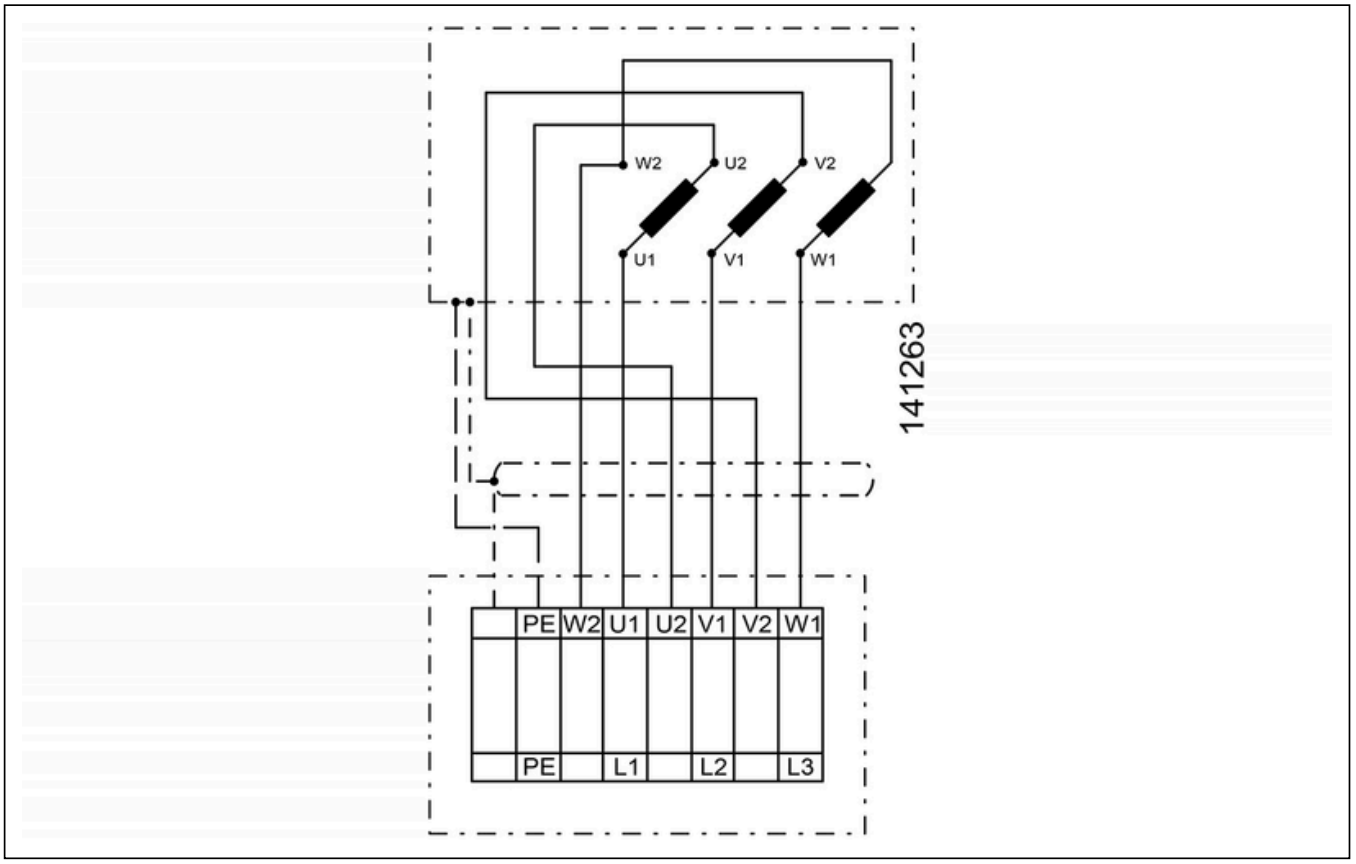

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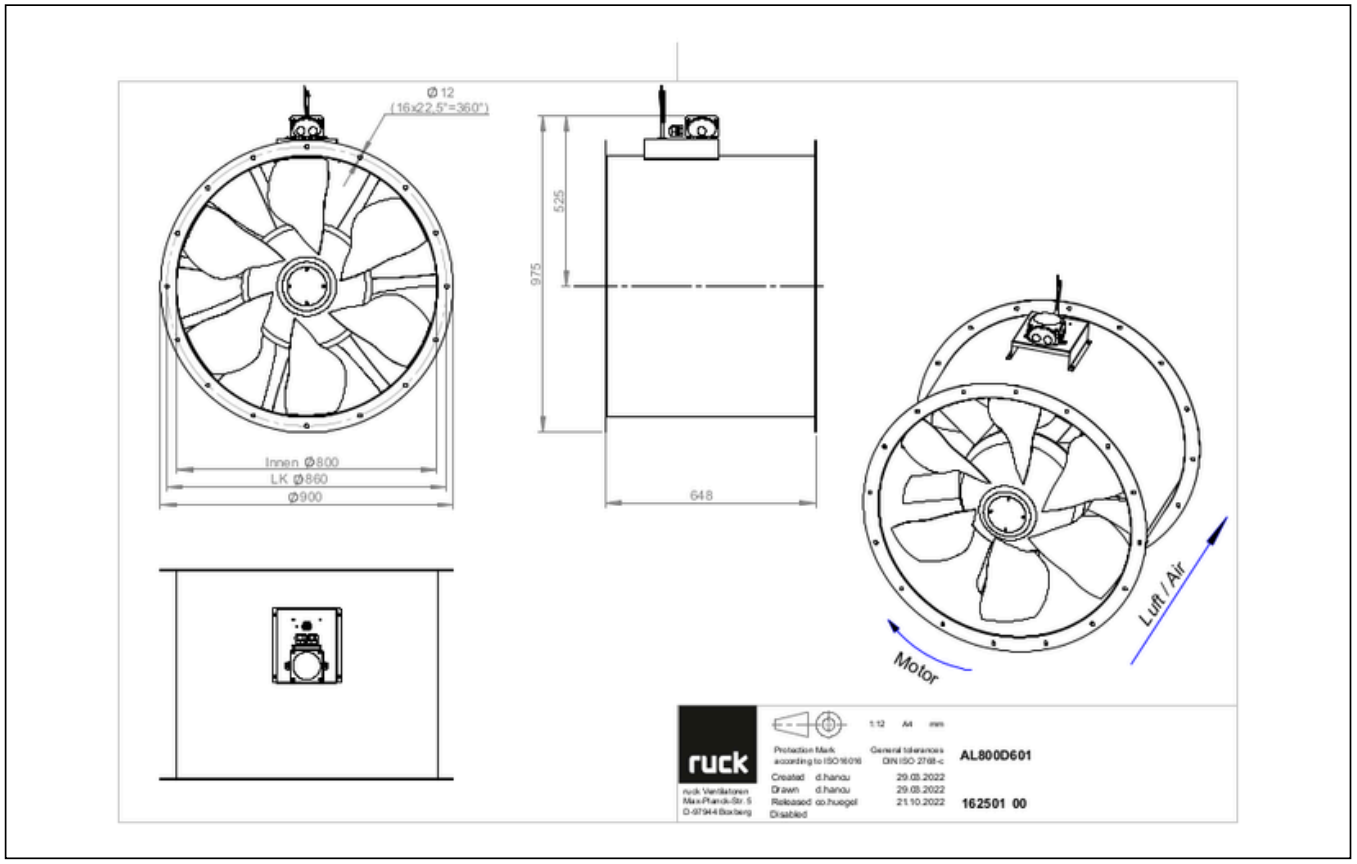

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MECHANICAL ACCESSORIES

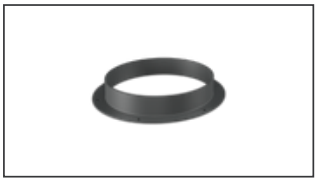
RVK 800 | 157736

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

RVK H 800 | 159412

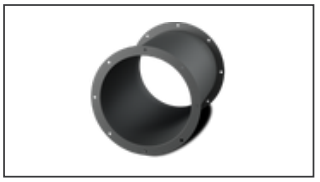
- Automatic tube shutter
- Sheet steel, powder coated
- For horizontal installation
- Flange mounting

RAF 800 | 157395



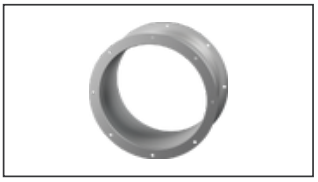
- Round flange
- Sheet steel, powder coated

RVS 800-01 | 157478



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

RAS 800 | 157600



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

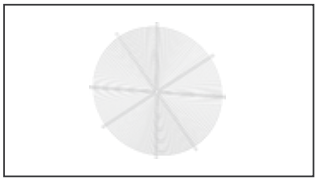
ESD 800 | 157527

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

FAL 800 | 157897

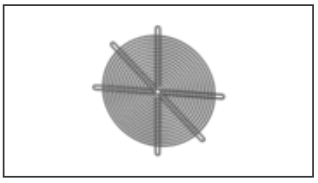
- Mounting foot
- Sheet steel, powder coated
- Flange mounting

SGW 900 | 159541



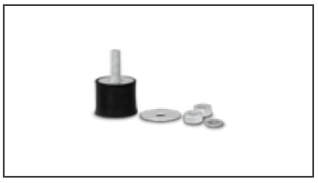
- Protection grille, wide meshed
- Steel sheet, galvanized
- Flange mounting

SGE 800 | 159516



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

FSD 08 | 162473

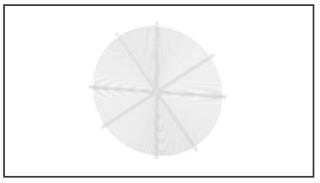


- Set of 4 vibration dampers
- Made of natural rubber, hardness 55 Shore A

FSD10 | 162484

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

SGW 800 | 154057



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

MR 800 | 165994

- Mounting ring
- For vertical mounting
- Powder-coated sheet steel
- Flange mounting DN 800

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ELECTRICAL ACCESSORIES

MS 03 | 140411

- Motor protection switch with Isolator switchfunktion
- Imax = 400 V, 50/60 Hz
- Max. 2.2 kW
- Protection class IP 55

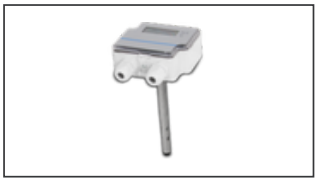
MTP 20 | 128146

- Potentiometer 10 kΩ
- Switching contact 1A/250V AC - 2,5A/12V DC
- Max. ambient temperature 50 °C
- VDE

MTP 30 | 143289

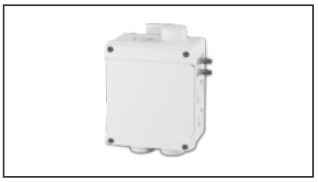
- Stepped potentiometer 10 kΩ
- Step 1 + 2 settable 10 % - 100 % Vdc
- Step 3 100 % Vdc
- Supply voltage+10 Vdc

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

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 22 35 | 161377

- Frequency converter
- Supply voltage 230 V 1~ 50/60 Hz
- Output voltage 0 - 230 V 3~
- Protection class IP 20, for switch cabinet

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)

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