

ELKI 10050 D2 10

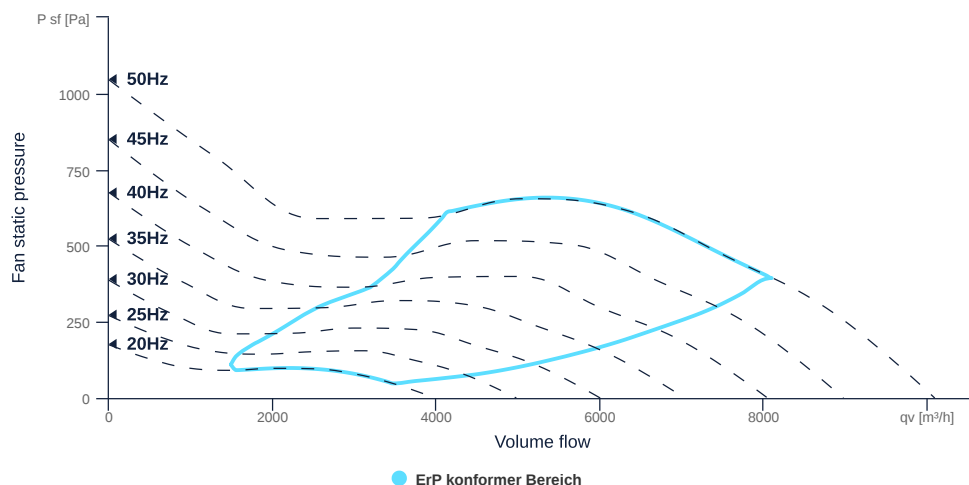
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- Efficiency optimized diagonal fan
- Optimally tuned and CFD-optimized aerodynamics
- Soundproof housing made of galvanized sheet steel
- Removable fan unit
- Efficient IE3 motor, frequency controllable
- Attention! 230 V power supply! 3x400 V forbidden! FU-operation!
See operating instructions!



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	1000x500		WxH _{duct}
Pipe connection size (DN)	-		DN
Rated voltage (entire device)	230	v	U _{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	10 A		fuse
Housing material	Galvanized steel		mat _{casing}
Impeller material	Plastic		mat _{impeller}
IP-protection class (entire device)	IPX4		IP _{compl}
Weight	53.35	kg	m
Nominal air flow rate, nominal point m³/h	5464.8	CmH	q _{v,nom}
Nominal external pressure, static	440.3	Pa	p _{s,nom}
Fan type	Diagonal		Fan _{type}
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m³/s	1.52	CmS	q _{v,nom}
Actual electrical input power, nominal point	1.09	kw	P _{e,nom}
Face velocity, nominal point	7.7	mps	v _{nom}
Nominal external pressure, static	440.3	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	60.2	p	η _{es,SUP}
Highest external air leakage rate	0.16	p	
Enclosure sound level, nominal point	72	db	LWA2
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	1837	w	P _{ed, max}
Max. operating current (device)	6.03	A	I _{ed, max}
Max. speed	2925	rpm	n _{max}
Max. stat. efficiency	57.2	p	η _{es}
Max. fan efficiency	57.8	p	η _e
Max. flowrate	10090	CmH	q _{v, max}
Max. stat pressure	1045	Pa	p _{sf, max}
Max. medium temperature	60	°C	T _{m, max}
Max. environment temperature	60	°C	T _{amb, max}
Min. environment temperature	-30	°C	T _{amb, min}



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MOTOR DATA

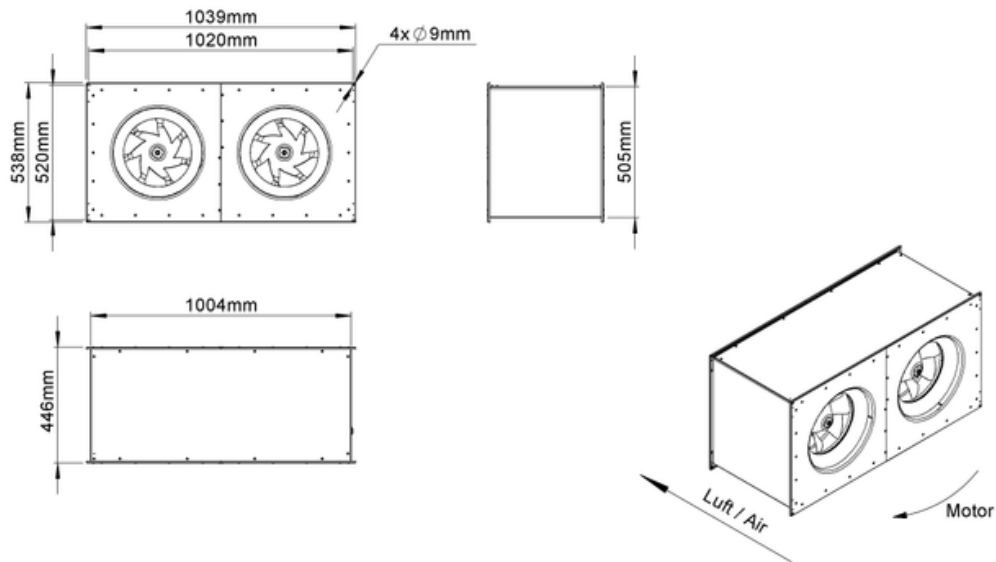
Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 3~		phase
Control type		frequency-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TAO		protectmotor
Protection class		IP44		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 3~		pwrsupmotor
Number of poles (1)		2.000000		num polesw1
Connection	Y			wiringw1
Rated voltage	230		v	Urated, f1
Rated current	3.4		A	Irated, f1
Speed	2820		rpm	nr1
Min. temperature	-30		°C	Tmotor, min
Cos Phi	0.870000	0.000000		cos φ
UL-Certification motor		None		ULcert

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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

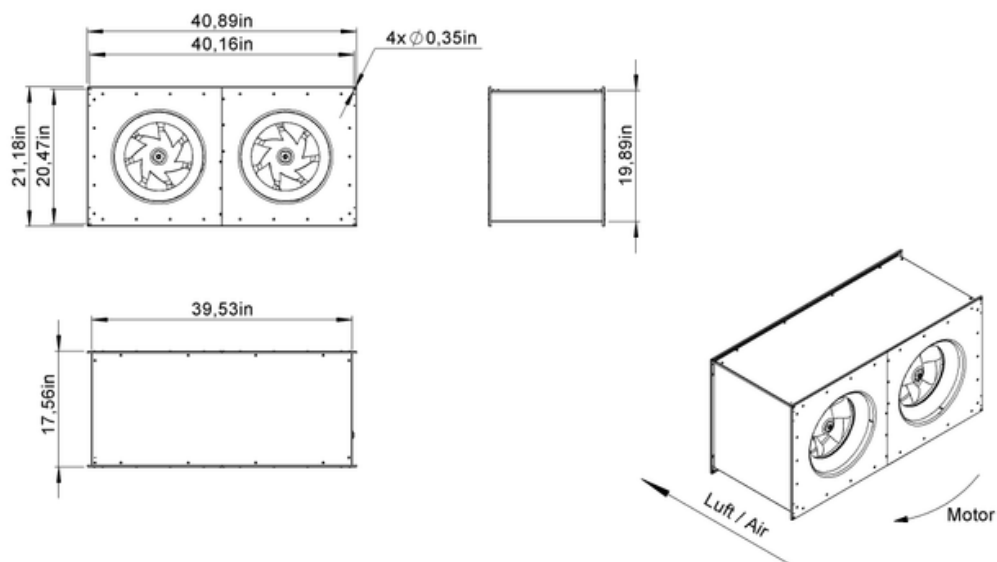


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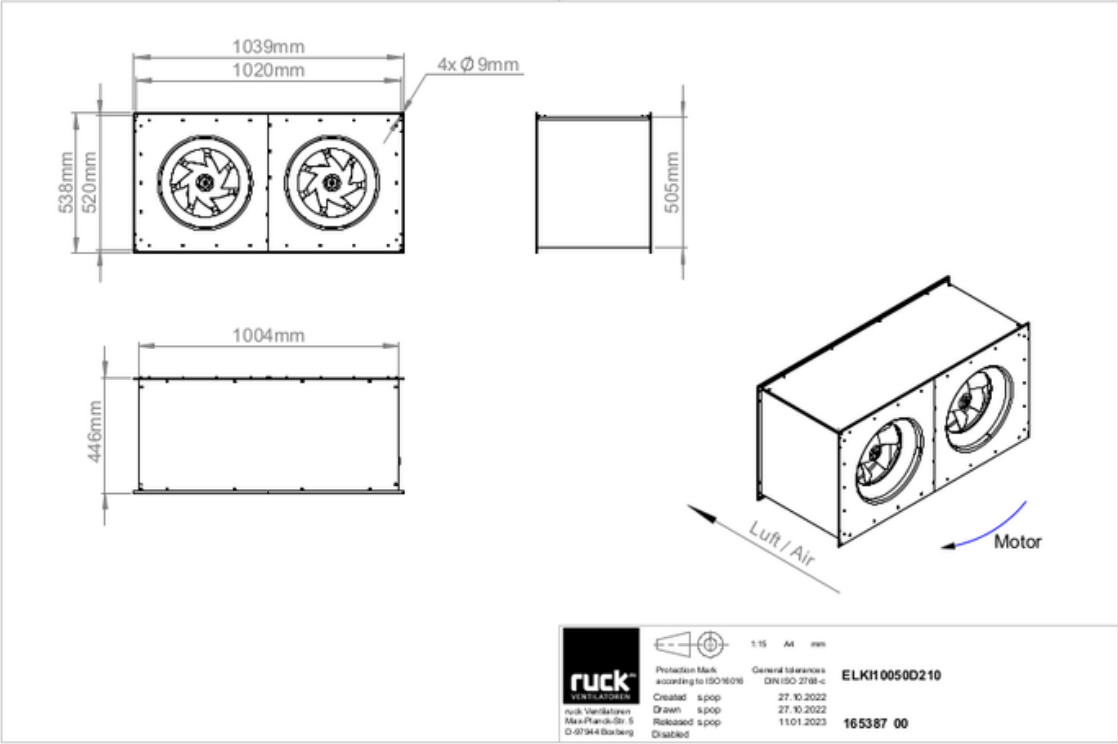
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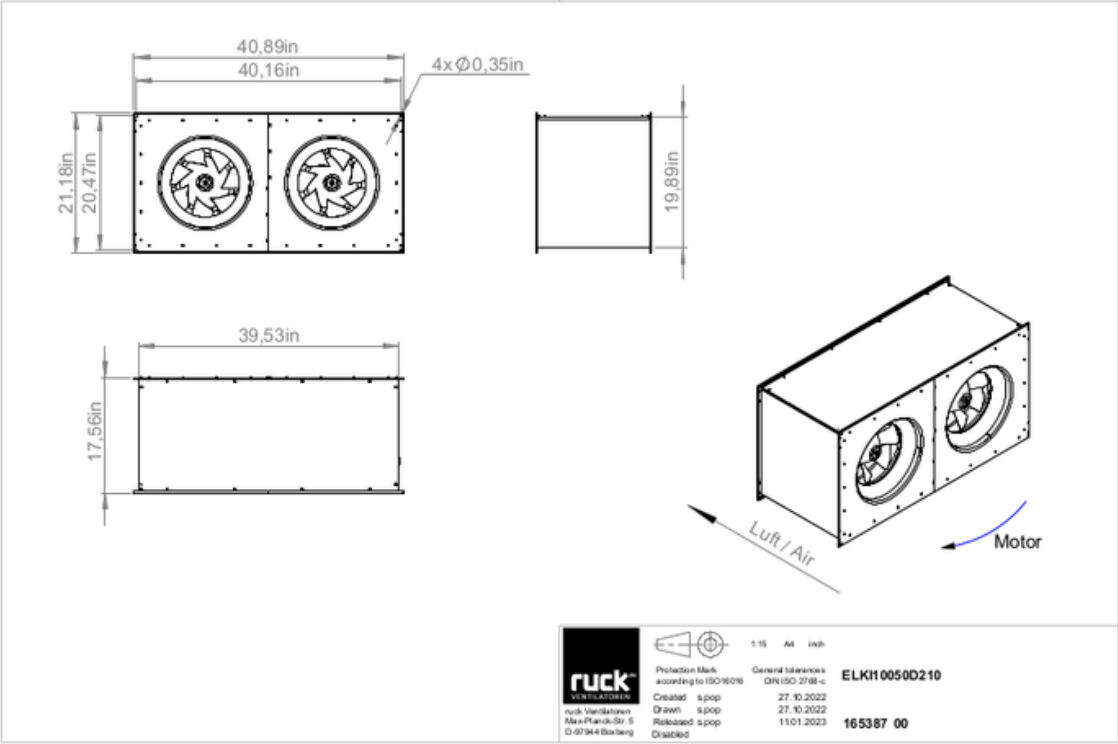
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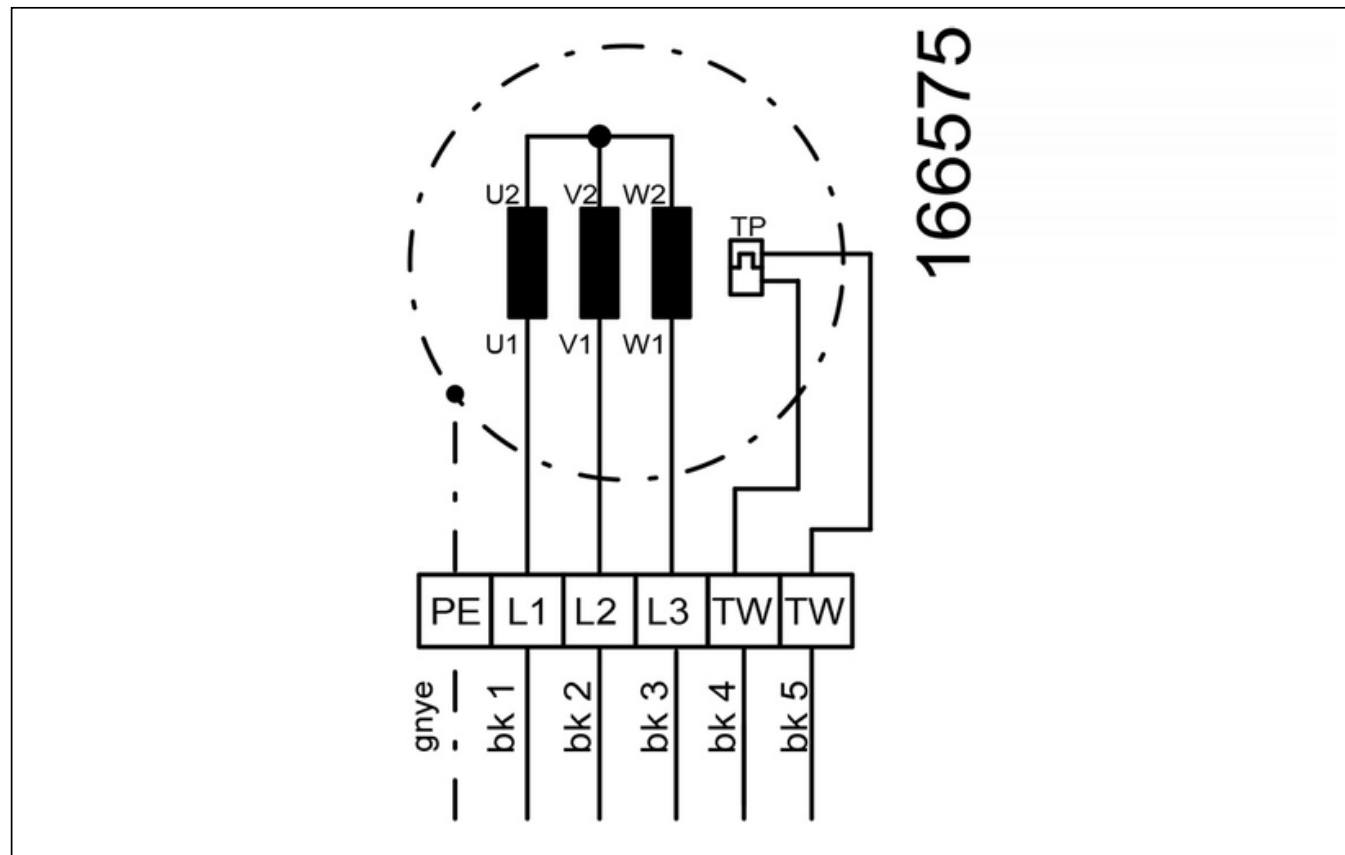
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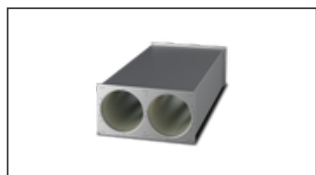
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MECHANICAL ACCESSORIES

SDE 10050 L02 | 130352



- Duct silencer
- Sendzimir galvanized sheet steel housing
- Sound absorption by mineral wool with fleece covering on air side
- 20 mm flange profiles

VKK 10050 | 169687



- Automatic shutter
- Plastic, weather resistant
- Temperature resistant up to 70 °C

VS 10050 | 172499



- Duct connector, flexible
- Standard profile flange P30
- Galvanized steel sheet, plastic band (PVC)
- Temperature resistant up to 70 °C



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ELECTRICAL ACCESSORIES

GS 03 | 107633



- Device switch
- $U_{max} = 400\text{ V}$, $I_{max} = 25\text{ A}$
- Switching capacity $400\text{ V } 3\sim = 7,5\text{ kW}$
- Protection class IP 55

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

MTP 40 | 147359



- Potentiometer 10 k Ω
- Connection in terminal box
- Max. ambient temperature 50 °C
- PU: 20 pieces

FU 15 60 | 165024



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

FU 15 61 | 165025



- 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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