

ELKI 10050 E2 10

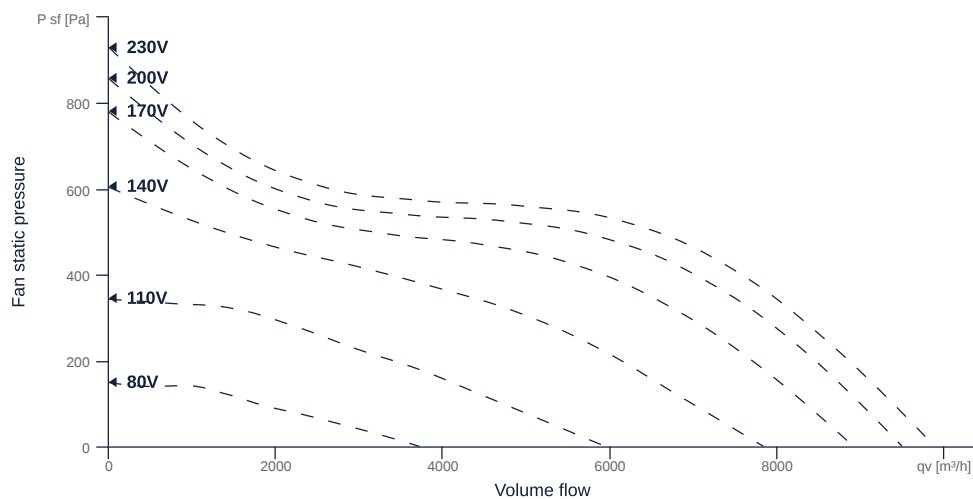
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- Energy efficient diagonal fan
- Optimally tuned and CFD-optimized aerodynamics
- Soundproof housing made of galvanized sheet steel
- Removable fan unit
- Robust single phase AC motor, voltage controllable
- Integrated thermal switch



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)	1~		phase
Electrical protection (entire device)	16 A		fuse
Housing material	Galvanized steel		mat _{casing}
Impeller material	Plastic		mat _{impeller}
IP-protection class (entire device)	IPX4		IP _{compl}
IP-Protection class (terminal box)	IP44		IP _{ebox}
Weight	53	kg	m
Nominal air flow rate, nominal point m³/h	7160.4	CmH	q _{v,nom}
Nominal external pressure, static	444	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	1.99	CmS	q _{v,nom}
Actual electrical input power, nominal point	1.82	kw	P _{e,nom}
Face velocity, nominal point	3.98	mps	V _{nom}
Nominal external pressure, static	444	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	47.6	p	η _{es,SUP}
Enclosure sound level, nominal point	69	db	LWA2
Rating	Product is compliant 2018		



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MAXIMAL DATA

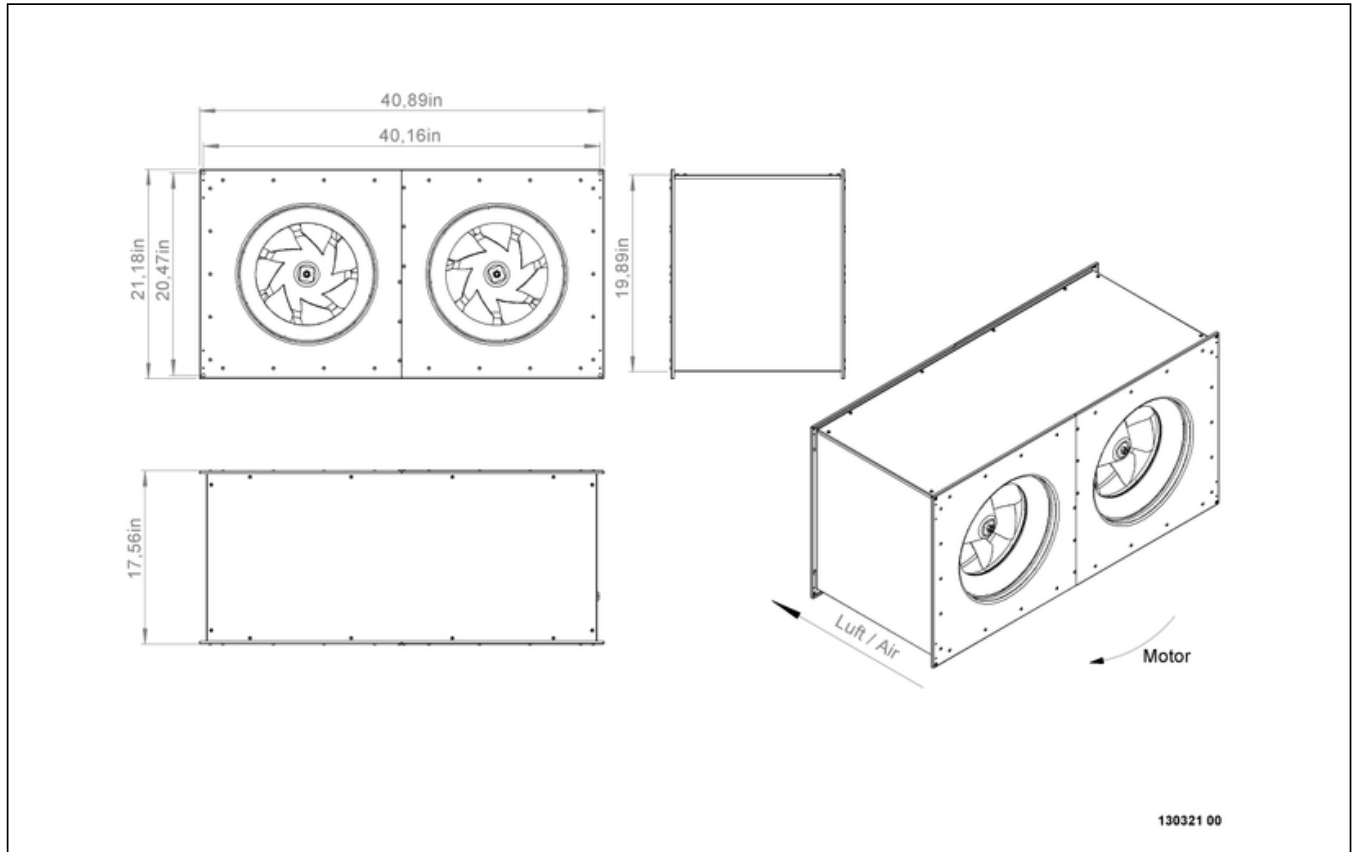
Name	Value	Unit	Formula symbol
Max. power consumption (device)	1840	w	P _{ed, max}
Max. operating current (device)	10.21	A	I _{ed, max}
Max. speed	2850	rpm	n _{max}
Max. stat. efficiency	47.6	p	η _{es}
Max. fan efficiency	48.3	p	η _e
Max. flowrate	9885	CmH	q _{v, max}
Max. stat pressure	930	Pa	p _{sf, max}
Max. medium temperature	45	°C	T _{m, max}
Max. environment temperature	45	°C	T _{amb, max}
Min. environment temperature	-25	°C	T _{amb, min}
Min. voltage	80	v	U _{min}
Stall current	9	A	I _{LRA}

MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 1~		phase
Control type		stepless-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISO _{class}
Motor-protection		TMI		protect _{motor}
Protection class		IP00		IP _{motor}
Is pole-changeable		No		pole _{exch}
Type of power supply		AC 1~		pwr _{sup} _{motor}
Capacity capacitor		22	μF	C _{cond}
Voltage capacitor		400	v	VU _{cond}
Number of poles (1)		2.000000		num poles _{w1}
Rated voltage	230		v	U _{rated, f1}
Rated current	3.5		A	I _{rated, f1}
Nominal power	550		w	P _a
Speed	2800		rpm	n _{f1}
Cos Phi	0.990000	0.000000		cos φ
UL-Certification motor		None		UL _{cert}

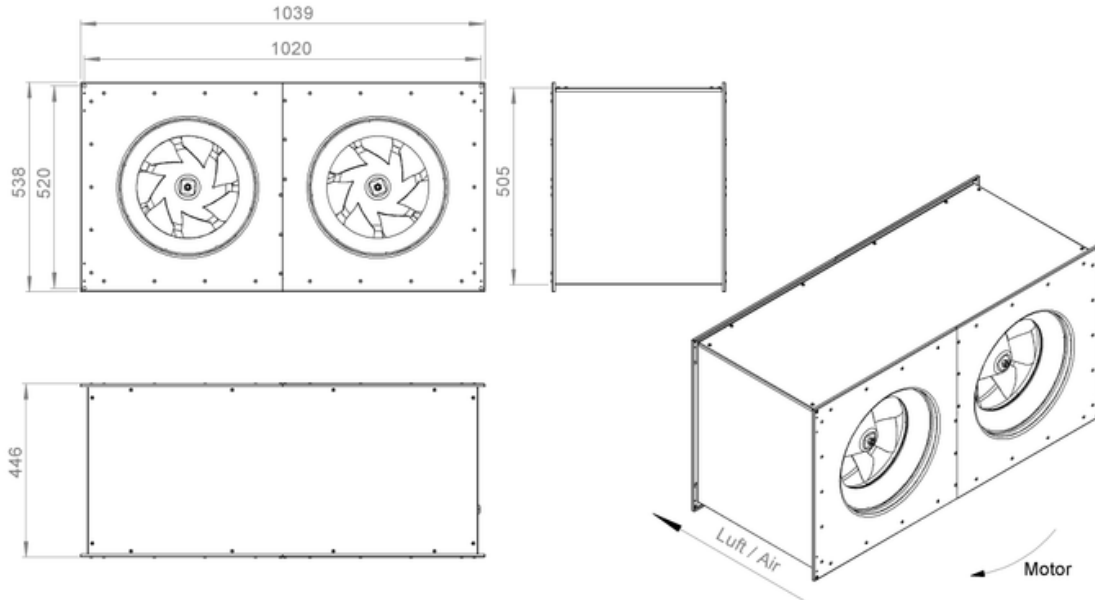


CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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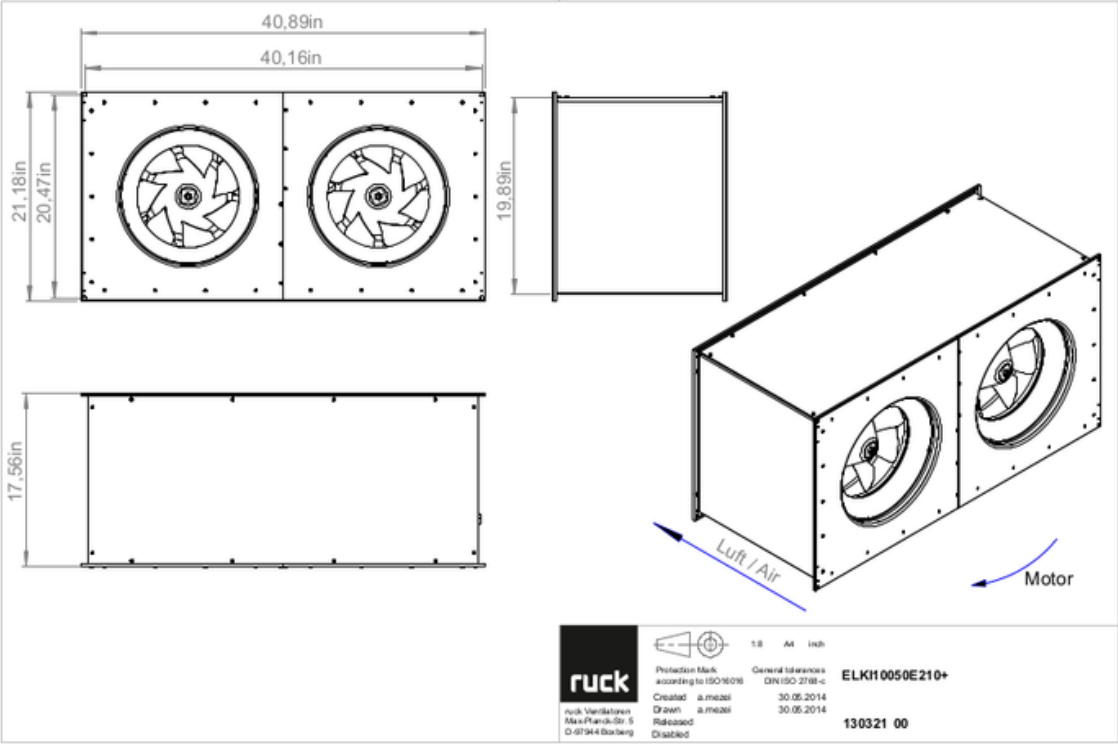
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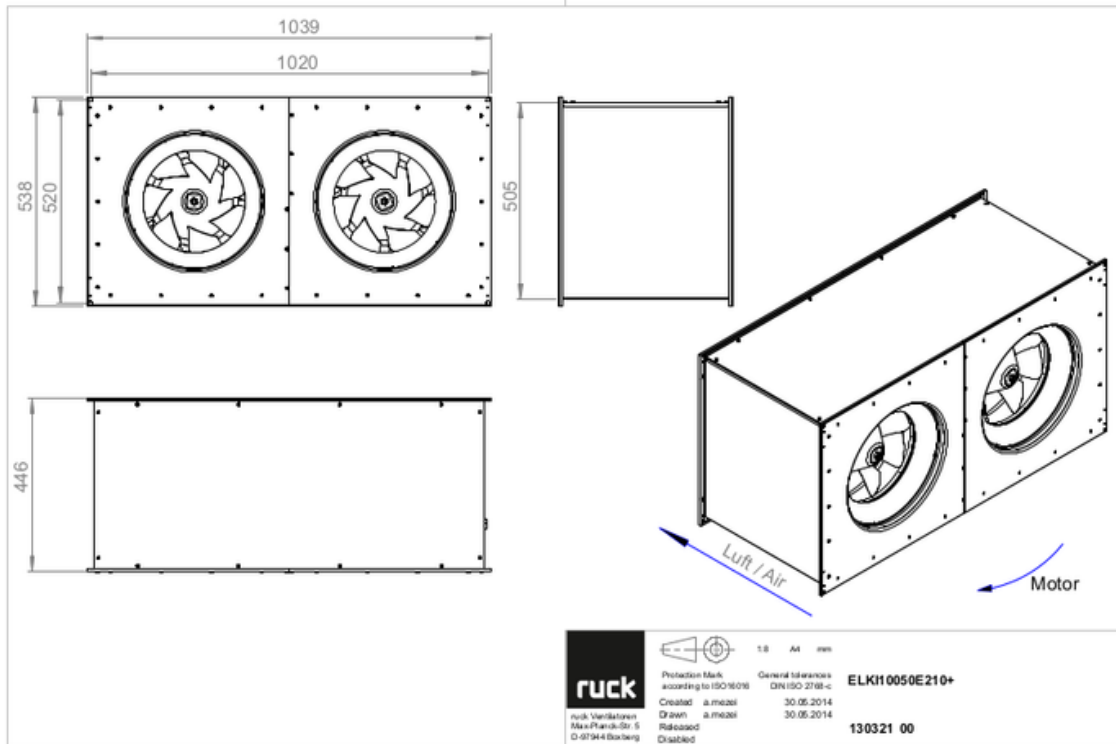


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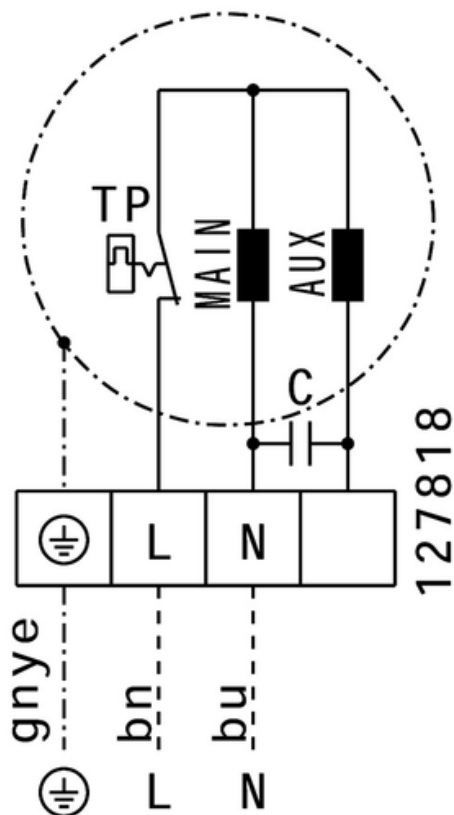
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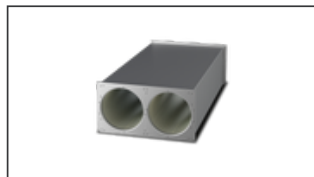
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MECHANICAL ACCESSORIES

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 01 | 102787



- Isolator switch
- Umax = 400 V, 50/60 Hz
- Switching capacity 400 V 3~ = 7,5 kW
- Imax = 25 A

TEM 130 | 103950



- 5-step transformer
- 230 V, 50/60 Hz, 13 A
- Output voltage: 230-190-170-140-110-80-0 V
- Protection class IP 54

TES 130 02 | 146199



- 5-step transformer
- 230 V, 50/60 Hz, 13 A
- Without housing, control cabinet installation
- Protection class IP 20



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