

EMKI 5025 EC 20

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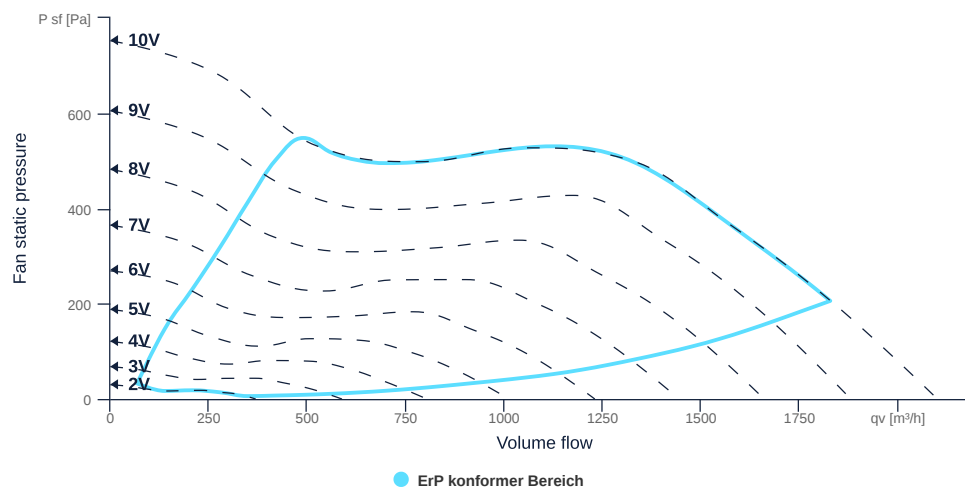
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- Efficiency optimized diagonal fan
- Optimally tuned and CFD-optimized aerodynamics
- Soundproof housing made of galvanized sheet steel
- High efficiency EC motor, steplessly controllable
- Conveyed medium temperature up to 45 °C in continuous operation
- Fan unit removable via inspection cover



MAP

Name	Value	Unit
Volume flow	0	m³/h
Pressure	0	Pa



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GENERAL DATA

Name	Value	Unit	Formula symbol
Certifications	CE, UKCA		
Duct size	500x250		WxH _{duct}
Pipe connection size (DN)	-		DN
Rated voltage (entire device)	230	V	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Galvanized steel		mat _{casing}
Impeller material	Plastic		mat _{impeller}
Weight	10	kg	m
Nominal air flow rate, nominal point m³/h	1260	m³/h	q _{v,nom}
Nominal external pressure, static	403	Pa	p _{s,nom}
Fan type	Diagonal		F _{antype}
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m³/s	0.35	m³/s	q _{v,nom}
Actual electrical input power, nominal point	0.22	kW	P _{e,nom}
Face velocity, nominal point	2.8	m/s	v _{nom}
Nominal external pressure, static	403	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	65.3	%	η _{es,SUP}
Enclosure sound level, nominal point	68	dB(A)	L _{WA2}
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	306	306	W	P _{ed, max}
Max. operating current (device)	2.11	2.11	A	I _{ed, max}
Max. speed	3850	3850	1/min	n _{max}
Max. stat. efficiency	57	57	%	η _{es}
Max. fan efficiency	57.4	57.4	%	η _e
Max. flowrate	2100	2100	m³/h	q _{v, max}
Max. stat pressure	750	750	Pa	p _{sf, max}
Max. medium temperature	45	45	°C	T _{m, max}
Max. environment temperature	45	45	°C	T _{amb, max}
Min. environment temperature	-30	-30	°C	T _{amb, min}
Min. voltage	230	230	V	U _{min}



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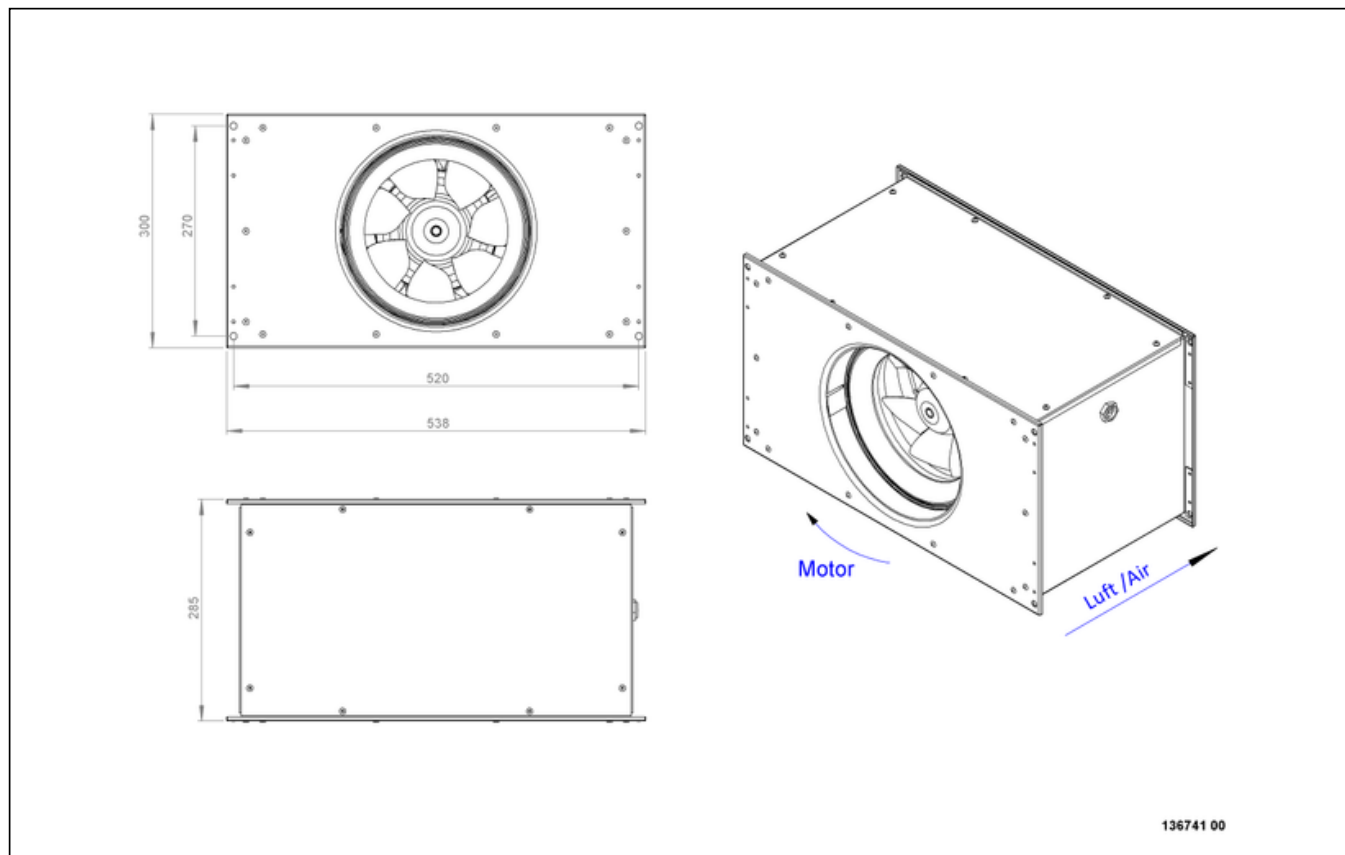
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MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		EC		phase
Control type		stepless-controlled		ctrltype
Installation type		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TEC		protectmotor
Protection class		IP30		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Rated voltage	230	230	V	Urated, f1
Rated current	1.9	1.9	A	Irated, f1
Shaft power	294	294	W	Pout, f1
Speed	3811	3811	1/min	nr1
Min. temperature	-30	-30	°C	Tmotor, min
UL-Certification motor		None		ULcert

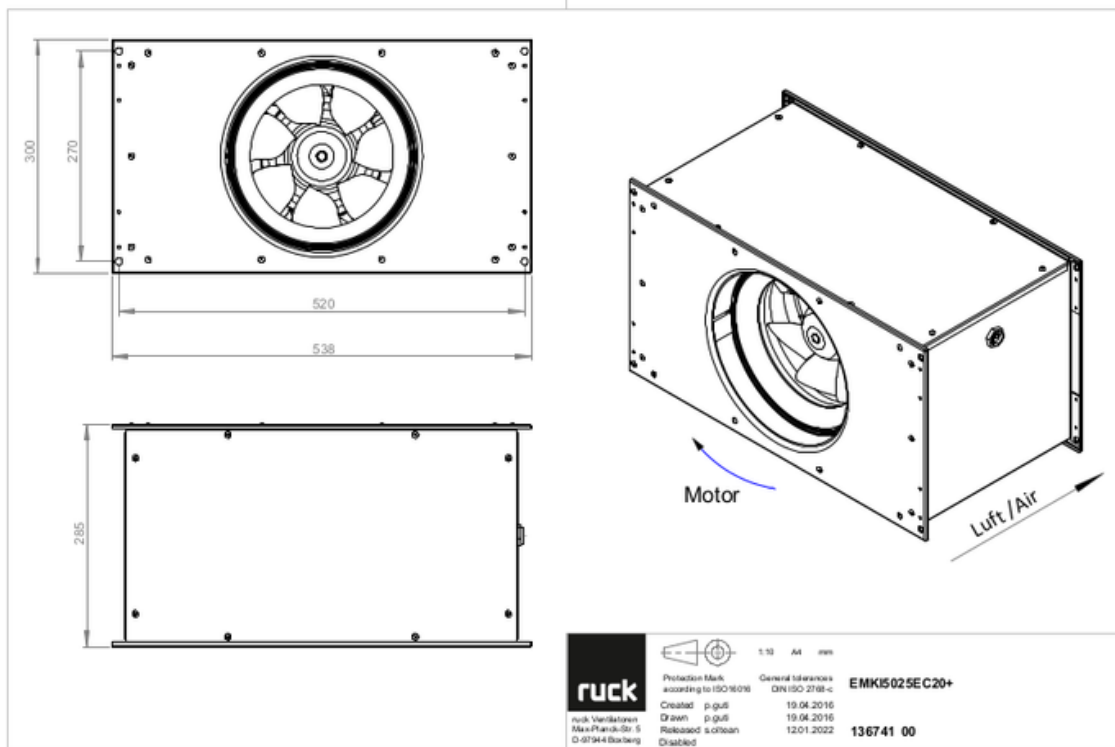
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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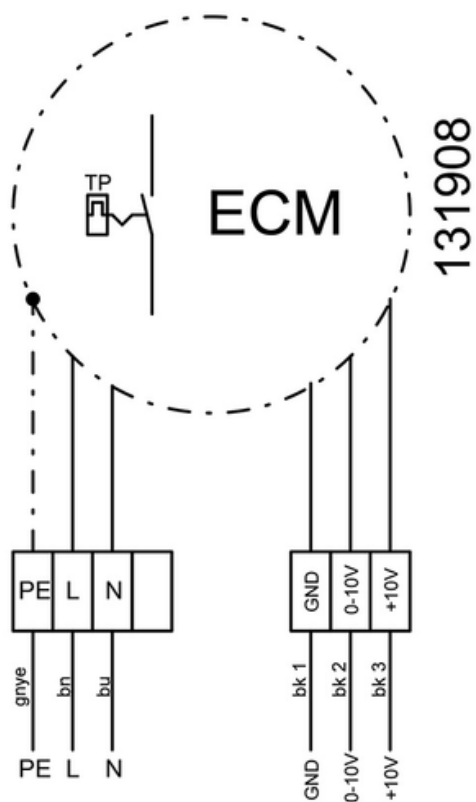
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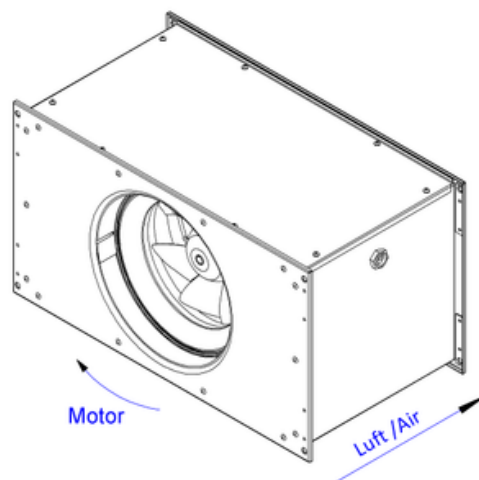
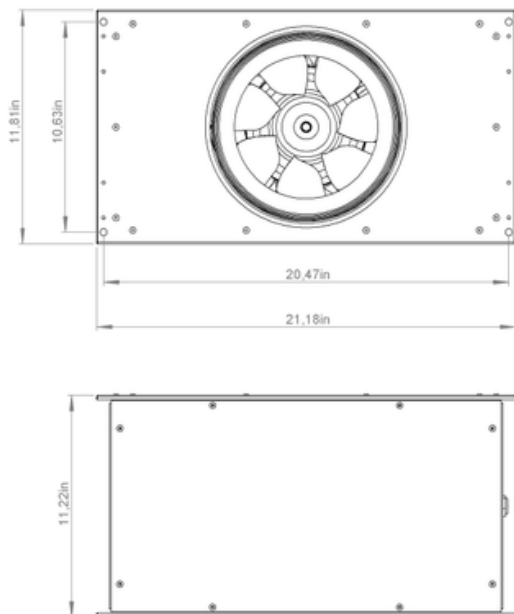


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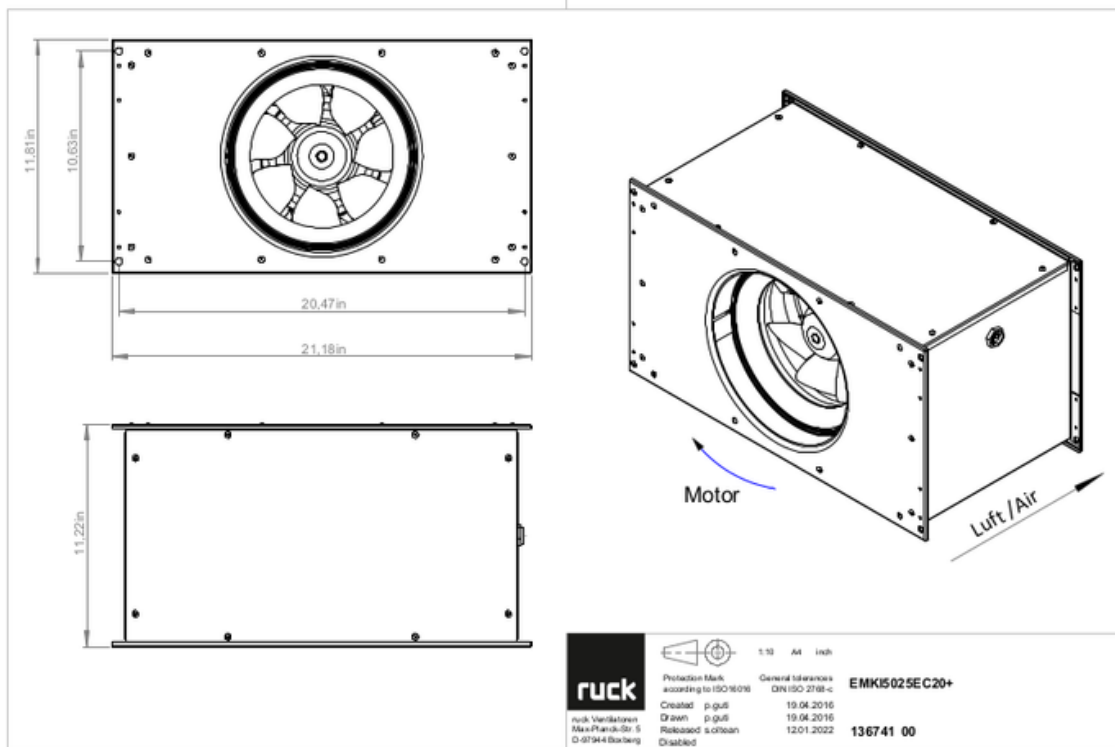
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MECHANICAL ACCESSORIES

VS 5025 | 102804



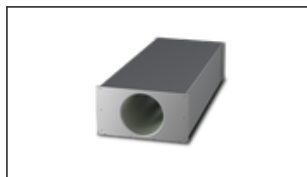
- Duct connector, flexible
- Standard profile flange P20
- Galvanized steel sheet, plastic band (PVC)
- Temperature resistant up to 70 °C

VKK 5025 | 103894



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

SDE 5025 L01 | 127747



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



ELECTRICAL ACCESSORIES

GS 01 | 102787



- Isolator switch
- $U_{max} = 400 \text{ V}$, 50/60 Hz
- Switching capacity $400 \text{ V } 3\sim = 5,5 \text{ kW}$
- $I_{max} = 16 \text{ A}$

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

MTP 50 | 153133



- Potentiometer with multifunction output
- 230 VAC $\pm 10 \%$ / 50-60 Hz
- Selectable output: 1-10 VDC / 2-20 mA / 10-100 % PWM
- Min. and max. output value adjustable



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