

KVR 4020 E2 30

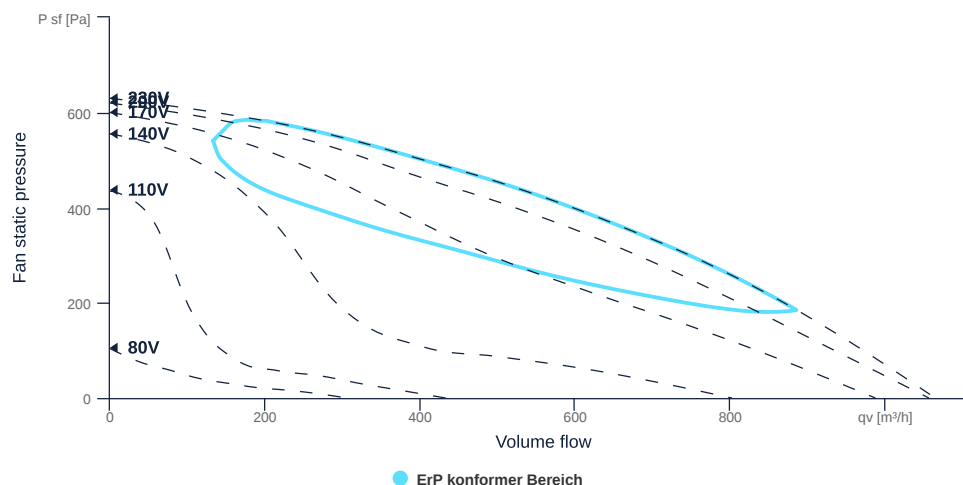
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- Backward curved centrifugal impeller
- Removable fan unit
- Housing made of galvanized sheet steel
- Robust single phase AC motor, steplessly controllable
- Conveyed medium temperature up to 45 °C in continuous operation



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	400x200		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}
IP-protection class (entire device)	IPX4		IP _{compl}
IP-Protection class (terminal box)	IP44		IP _{ebox}
Weight	10	kg	m
Nominal air flow rate, nominal point m³/h	856.8	CmH	q _{v,nom}
Nominal external pressure, static	200	Pa	p _{s,nom}
Fan type	Radial		Fan _{type}
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m³/s	0.24	CmS	q _{v,nom}
Actual electrical input power, nominal point	0.15	kw	P _{e,nom}
Face velocity, nominal point	3	mps	V _{nom}
Nominal external pressure, static	200	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	44.4	p	η _{es,SUP}
Highest external air leakage rate	0.19	p	
Enclosure sound level, nominal point	71	db	LWA2
Rating	Product is compliant 2018		



MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	158	234	W	P _{ed, max}
Max. operating current (device)	0.9	1.1	A	I _{ed, max}
Max. speed	2890	3400	rpm	n _{max}
Max. stat. efficiency	39.9	35	p	η _{es}
Max. fan efficiency	40.1	35.1	p	η _e
Max. flowrate	1060	1205	CmH	Q _{v, max}
Max. stat pressure	620	860	Pa	p _{sf, max}
Max. medium temperature	45	55	°C	T _{m, max}
Max. environment temperature	45	55	°C	T _{amb, max}
Min. environment temperature	-25	-25	°C	T _{amb, min}
Min. voltage	80	80	V	U _{min}

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		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TMI		protectmotor
Protection class		IP33		IP _{motor}
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwr _{sup} motor
Capacity capacitor		5	μF	C _{cond}
Voltage capacitor		400	V	V _{Ucond}
Number of poles (1)		2.000000		num poles _{w1}
Rated voltage	230	230	V	U _{rated, f1}
Rated current	0.7	1.01	A	I _{rated, f1}
Speed	2685	2896	rpm	n _{f1}
Starting current	1.67	1.55	A	I _{start, f1}
Efficiency	43.2	36.3	p	η _{m, f1}
Min. temperature	-30	-30	°C	T _{motor, min}
Cos Phi	0.990000	0.990000		cos φ
UL-Certification motor		None		UL _{cert}



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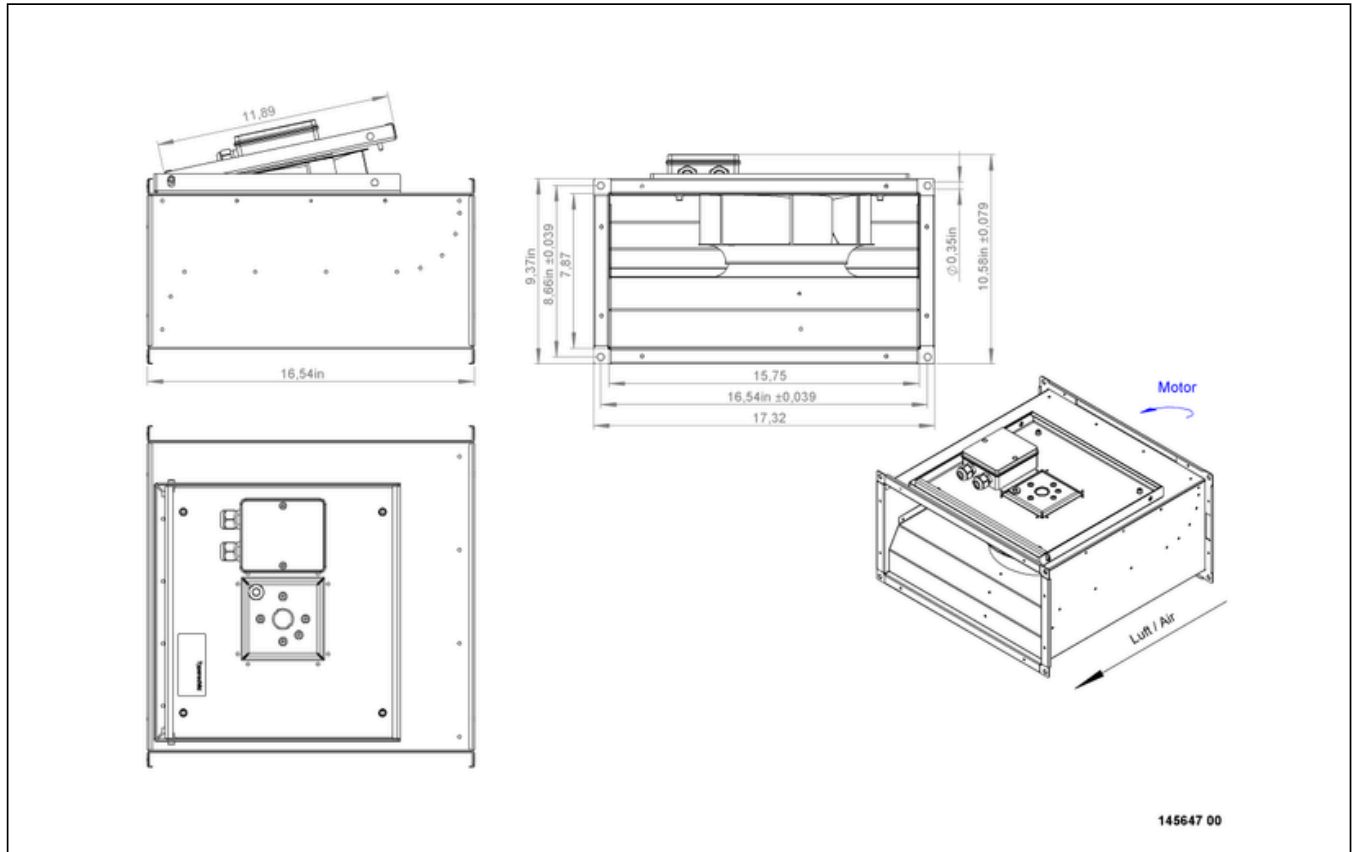
SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



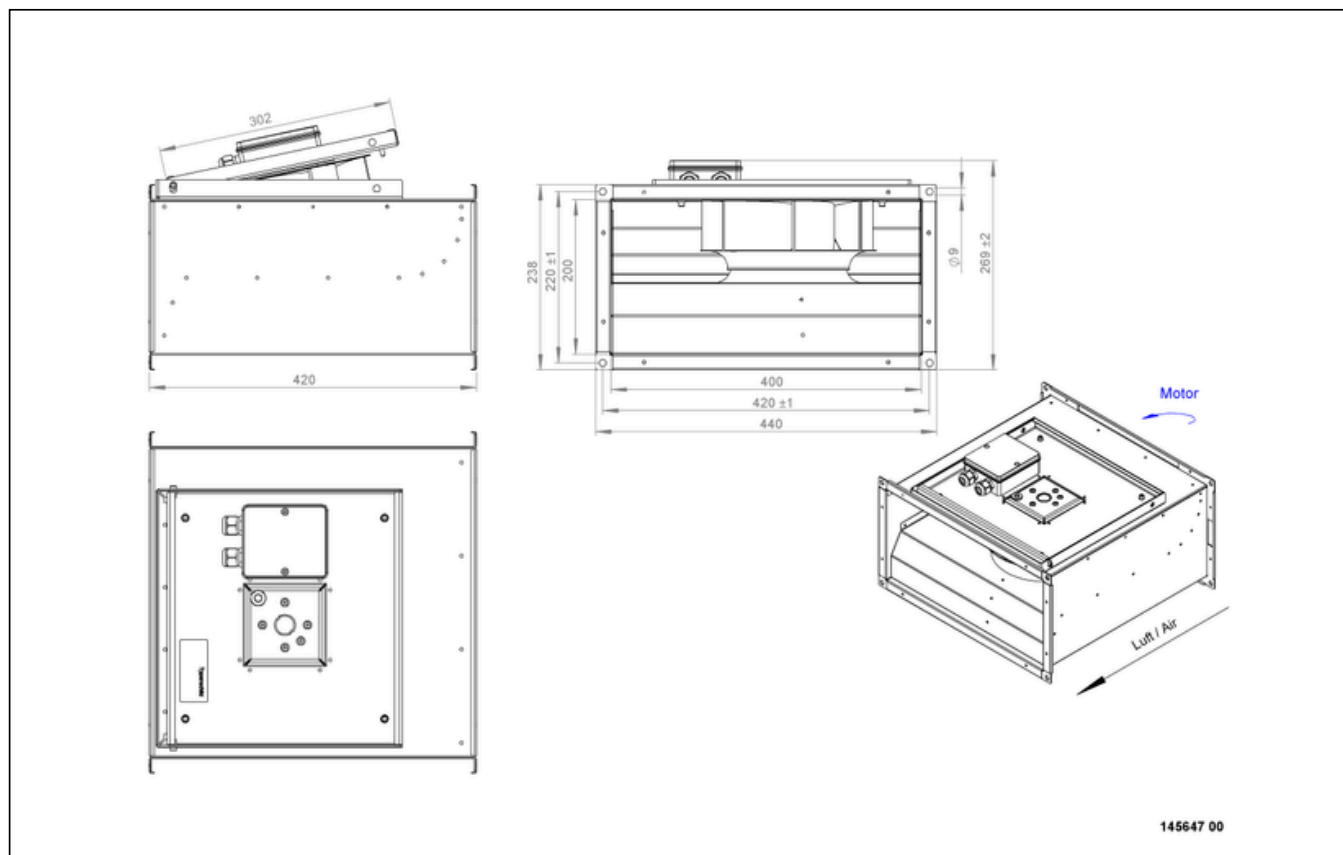
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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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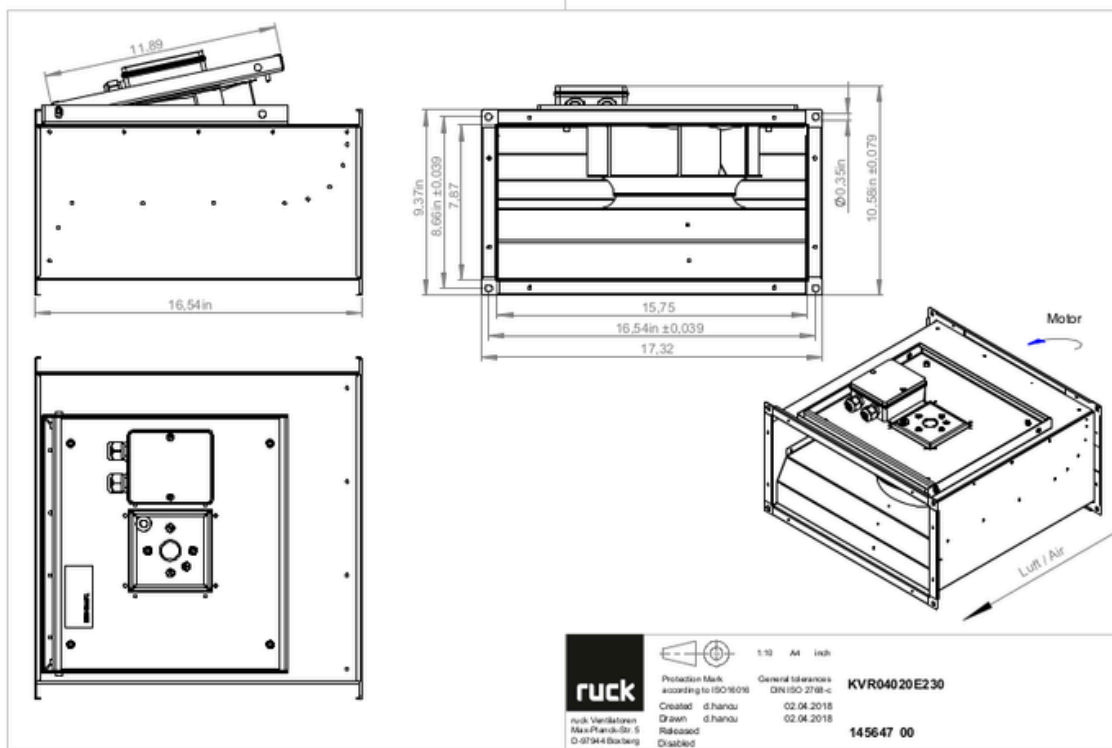


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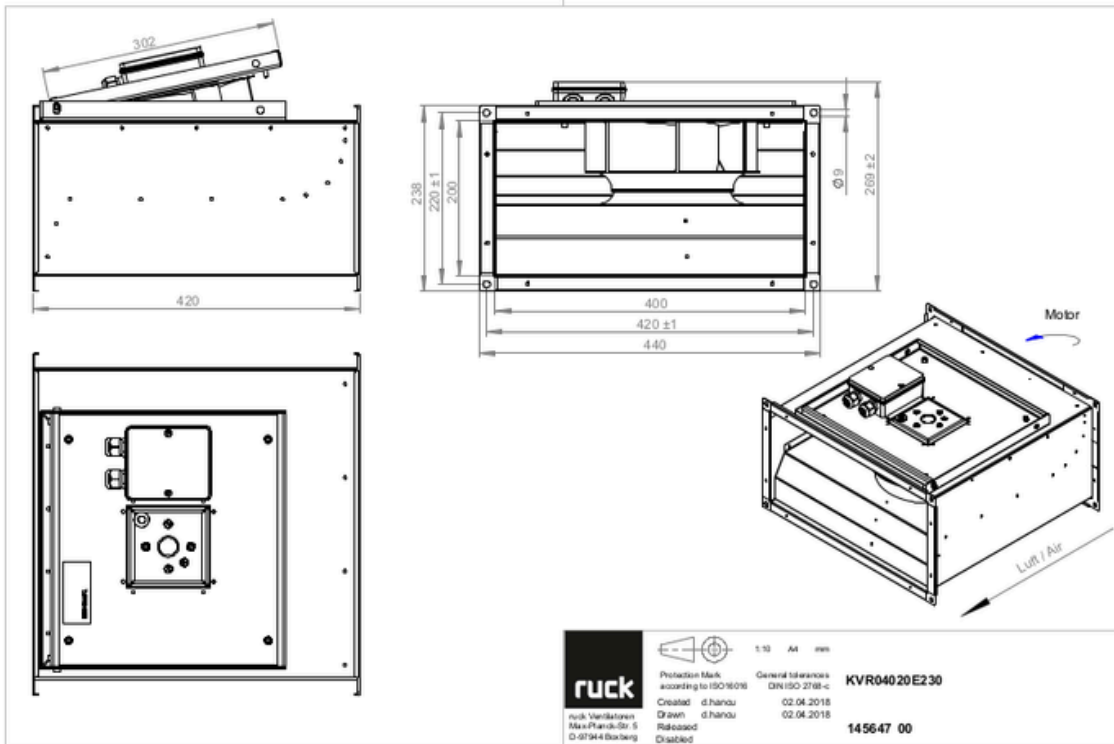


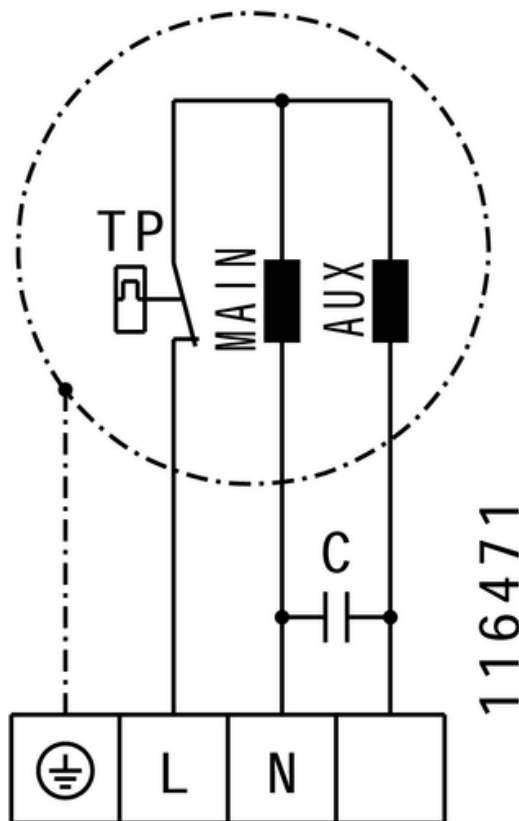
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MECHANICAL ACCESSORIES

VS 4020 | 102802



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

VKK 4020 | 169680



- Automatic shutter
- Plastic, weather resistant
- 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
- I max. = 25 A

MTY 1 | 103428



- Electronic controller
- Stepless
- 230 V ~, 50 Hz
- Max. ambient temperature 35 °C
- I max. = 1 A
- Surface and flush mounting

TEE 015 | 115893



- 5-step transformer
- 230 V ~, 50/60 Hz

TES 0145 | 169581



- Step transformer
- 230 V ~, 50/60 Hz



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