

EL 315 E2 01

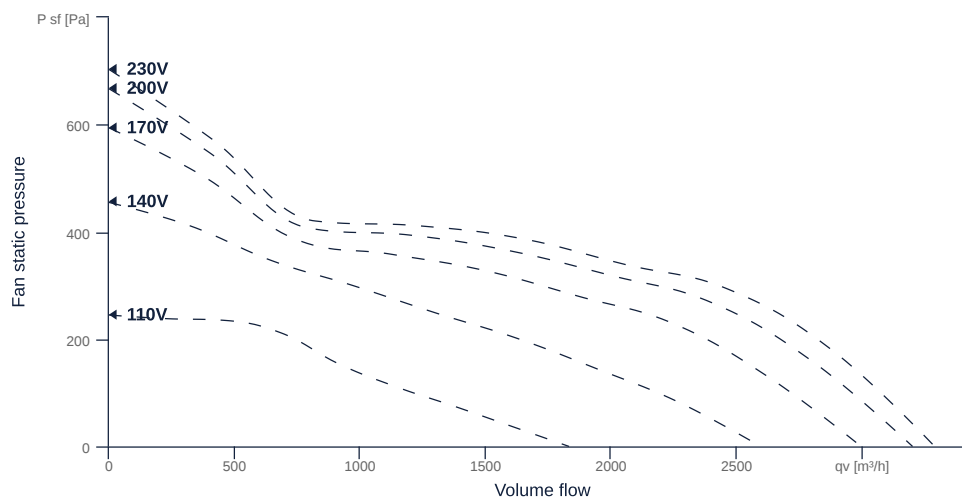
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- The benchmark for efficiency since 2007
- Robust single phase AC motor
- Conveyed medium temperature up to 70 °C in continuous operation
- Housing made of galvanized steel sheet



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)	DN315		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	15	kg	m
Fan type	Diagonal		Fan _{type}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	509	775	w	P _{ed, max}
Max. operating current (device)	3	3.7	A	I _{ed, max}
Max. speed	2840	3275	rpm	n _{max}
Max. stat. efficiency	39	36.8	p	η _{es}
Max. fan efficiency	43.5	39.5	p	η _e
Max. flowrate	3290	3710	CmH	q _{v, max}
Max. stat pressure	700	880	Pa	p _{sf, max}
Max. medium temperature	70	45	°C	T _{m, max}
Max. environment temperature	70	45	°C	T _{amb, max}
Min. environment temperature	-25	-25	°C	T _{amb, min}
Min. voltage	110	110	v	U _{min}
Stall current	8.5		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		ISOclass
Motor-protection		TMI		protectmotor
Protection class		IP54		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Capacity capacitor		10	µF	Ccond
Voltage capacitor		400	v	VUcond
Number of poles (1)		2.000000		num polesw1
Rated voltage	230		v	Urated, f1
Rated current	1.9		A	Irated, f1
Nominal power	300		w	Pa
Speed	2820		rpm	n _{f1}
Cos Phi	0.990000	0.000000		cos φ
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2758	rpm	n _{opt}
Efficiency level	39.3	p	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.47	kw	P _{e, opt}
Overall efficiency	53.2	p	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	350	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	1993	CmH	q _{v, opt}

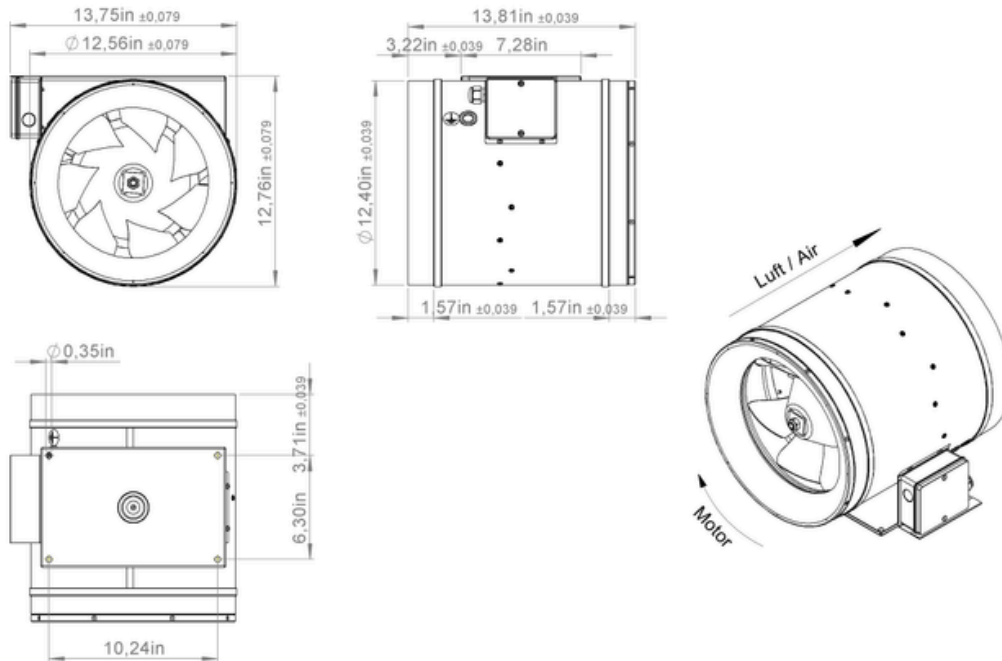
SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



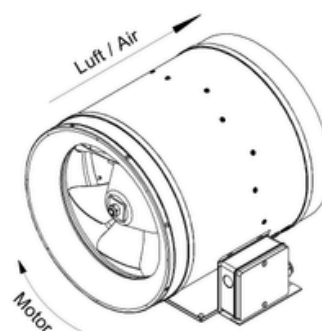
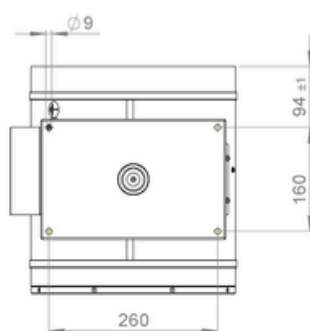
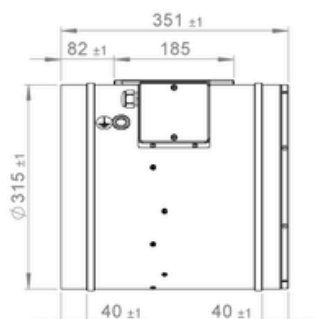
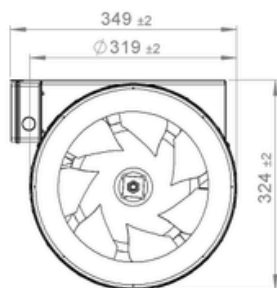
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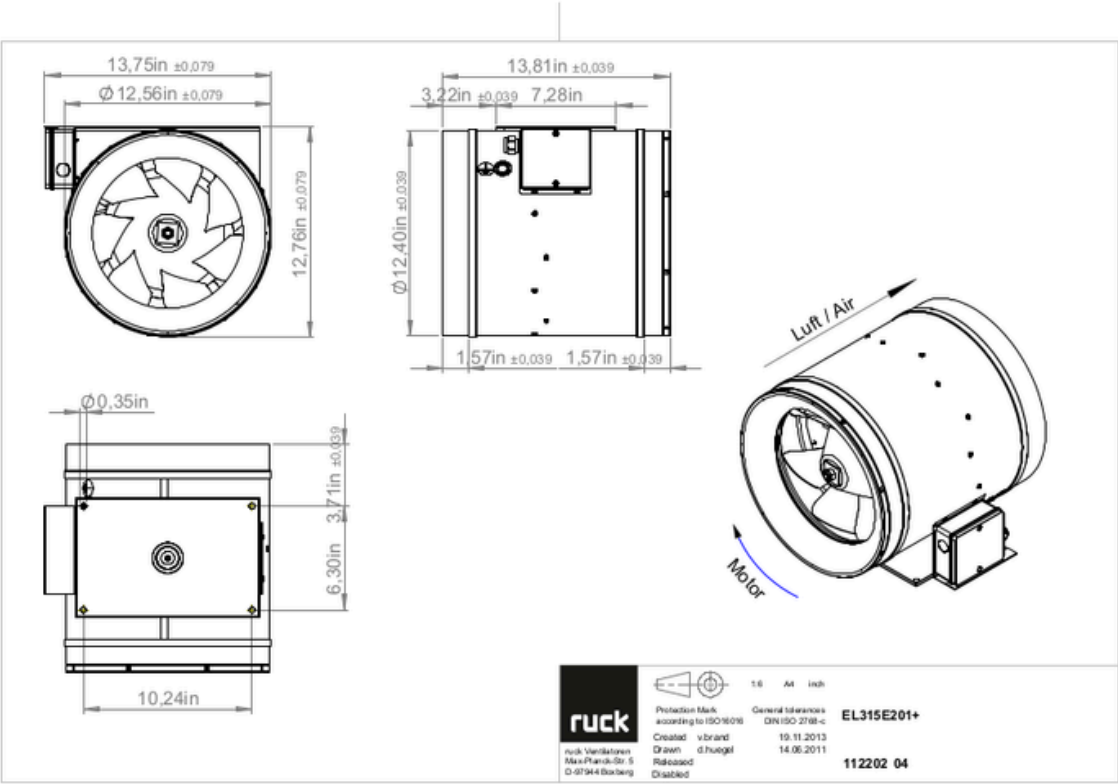
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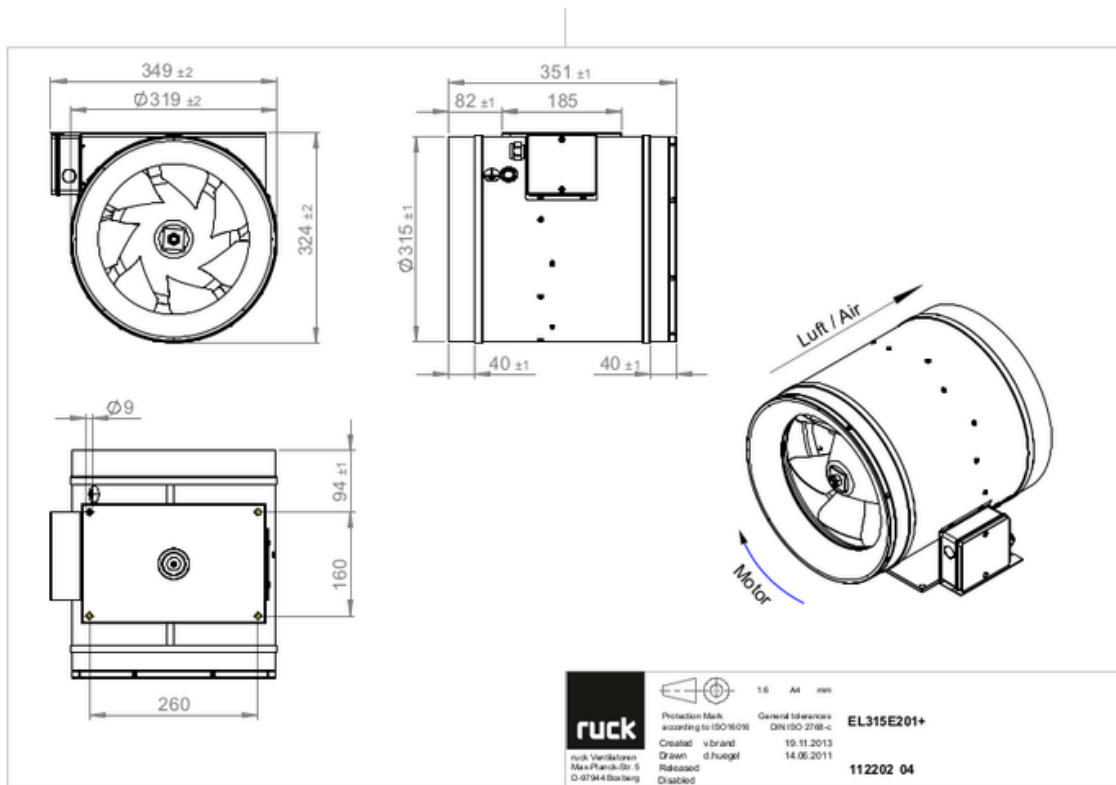


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