

EL 160L E2 01

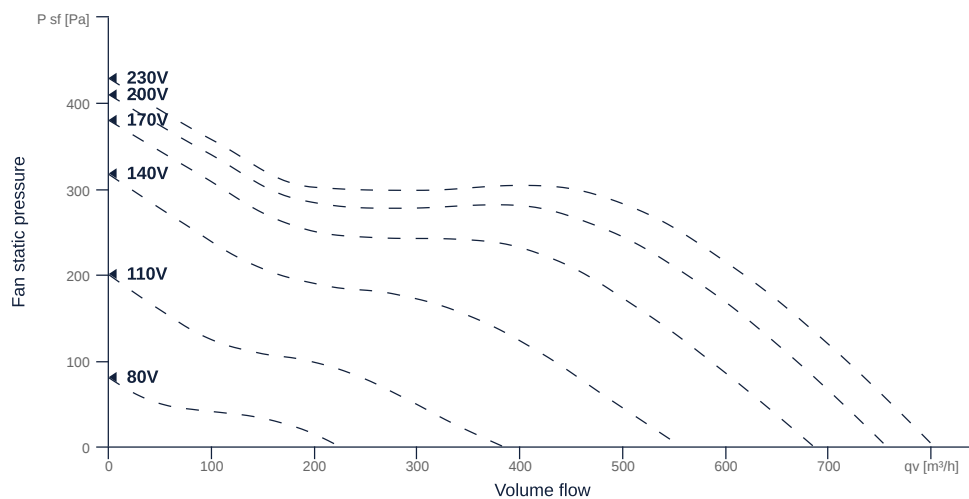
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- The benchmark for efficiency since 2007
- Robust AC motor, 3-steps controllable
- Conveyed medium temperature up to 55 °C in continuous operation
- Housing made of polyamide



FAN CURVES

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



to the product detail page

GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		WxH _{duct}
Pipe connection size (DN)	DN160		DN
Rated voltage (entire device)	230	v	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Plastic		mat _{casing}
Impeller material	Plastic		mat _{impeller}
IP-protection class (entire device)	IPX4		IP _{compl}
Weight	3.4	kg	m
Fan type	Diagonal		Fan _{type}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	124	w	P _{ed, max}
Max. operating current (device)	0.62	A	I _{ed, max}
Max. speed	2780	rpm	n _{max}
Max. stat. efficiency	30.7	p	η _{es}
Max. fan efficiency	34.1	p	η _e
Max. flowrate	800	CmH	Q _{v, max}
Max. stat pressure	430	Pa	p _{sf, max}
Max. medium temperature	55	°C	T _{m, max}
Max. environment temperature	55	°C	T _{amb, max}
Min. environment temperature	-25	°C	T _{amb, min}
Min. voltage	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		ctrlype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TAI		protectmotor
Protection class		IP00		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Capacity capacitor		3.5	µF	Ccond
Voltage capacitor		450	v	VUcond
Number of poles (1)		2.000000		num polesw1
Rated voltage	230		v	Urated, f1
Rated current	0.5		A	Irated, f1
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2635	rpm	nopt
Efficiency level	30.7	p	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.12	kw	Pe, opt
Overall efficiency	50.9	p	ηges
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	276	Pa	pt, opt
Flowrate at energy efficiency optimum	513	CmH	Qv, opt

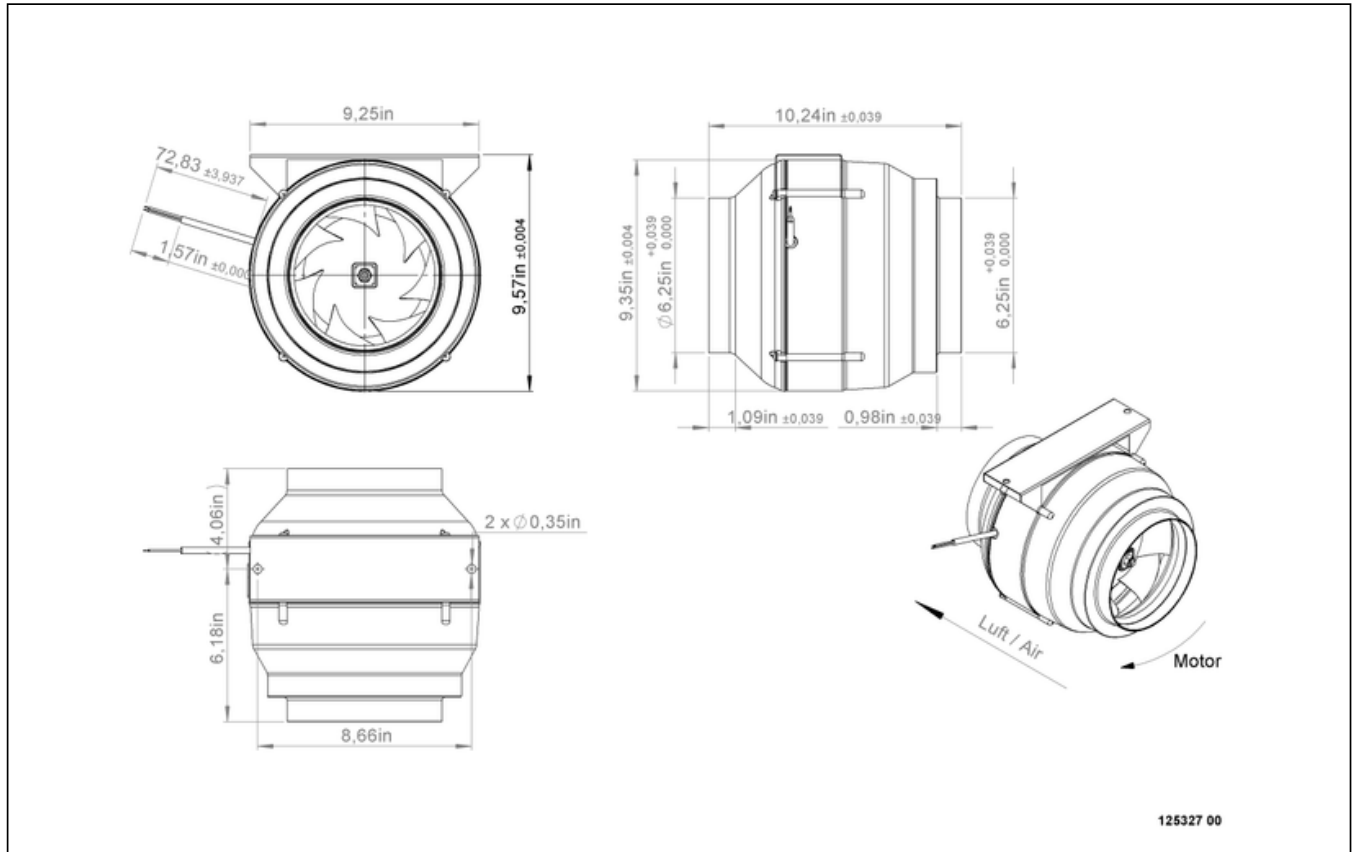
SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



to the product detail page

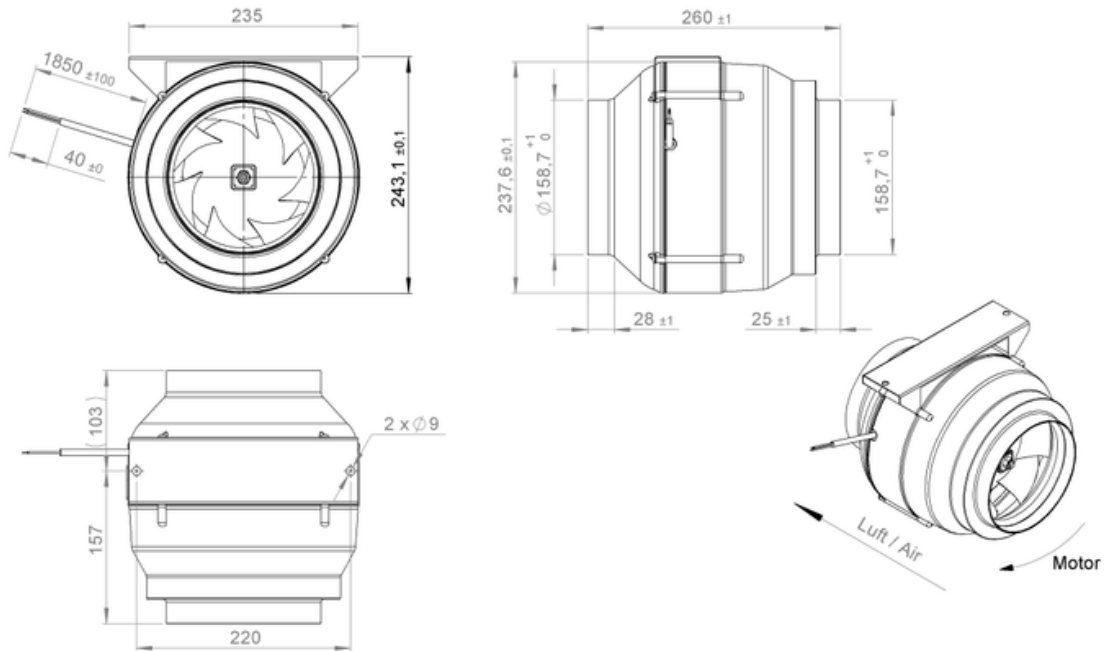
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



EL 160L E2 01

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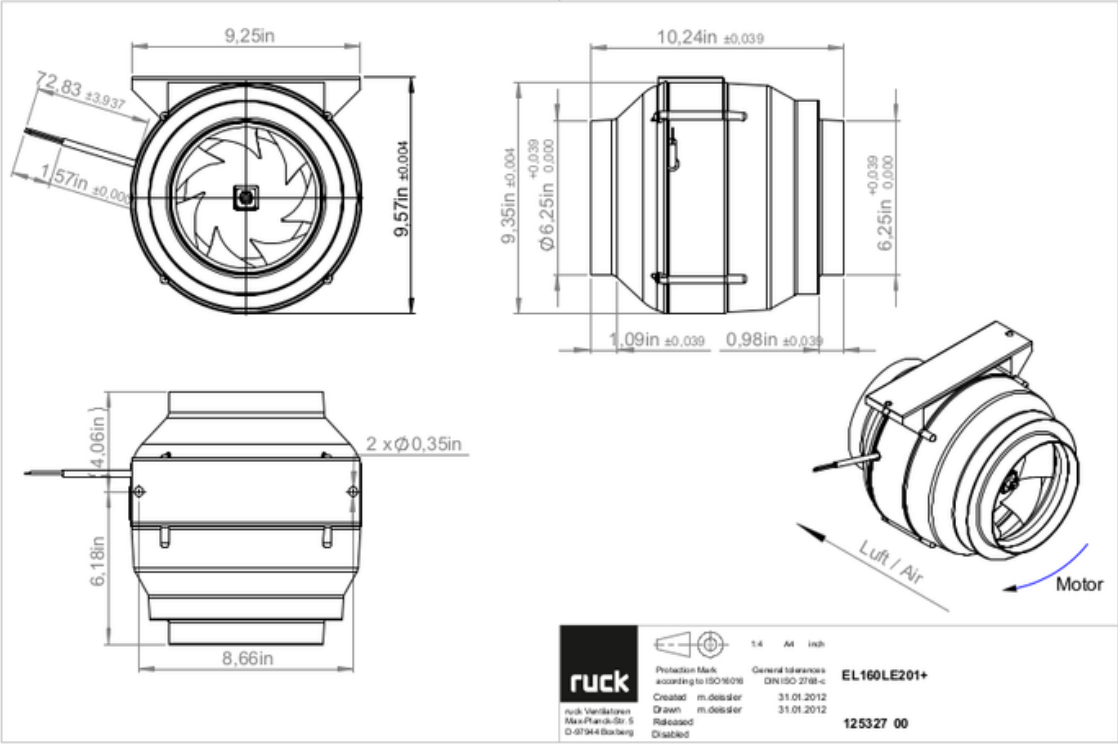
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to the product detail page

EL 160L E2 01

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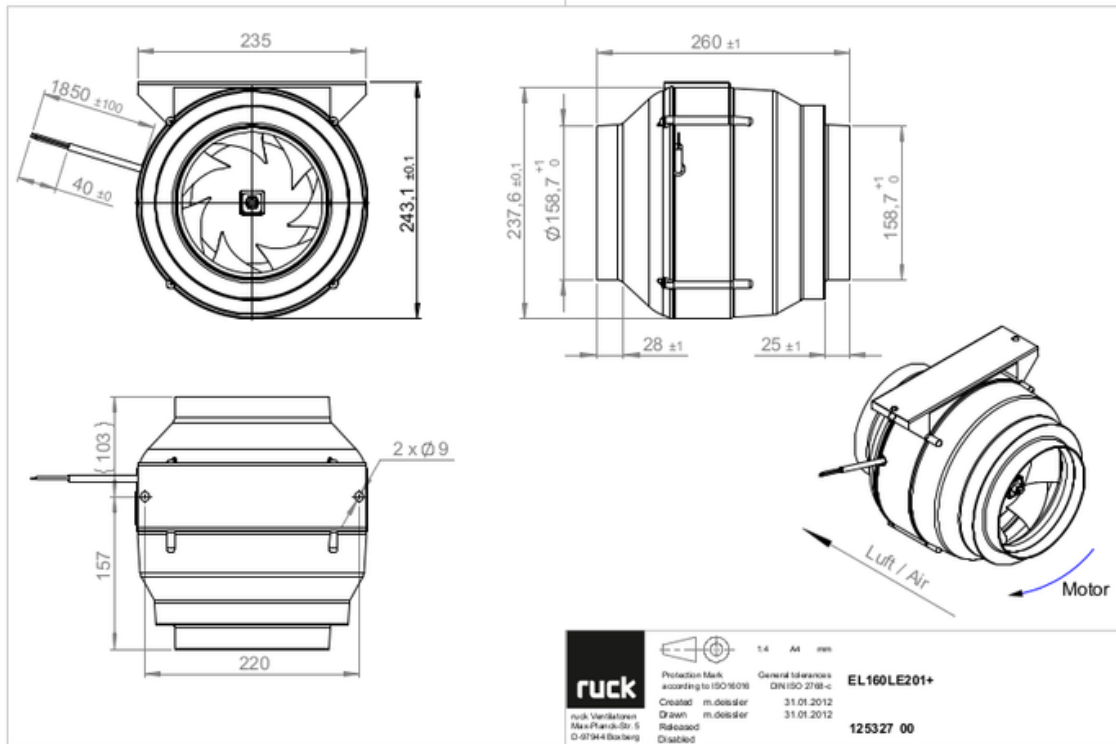


to the product detail page

EL 160L E2 01

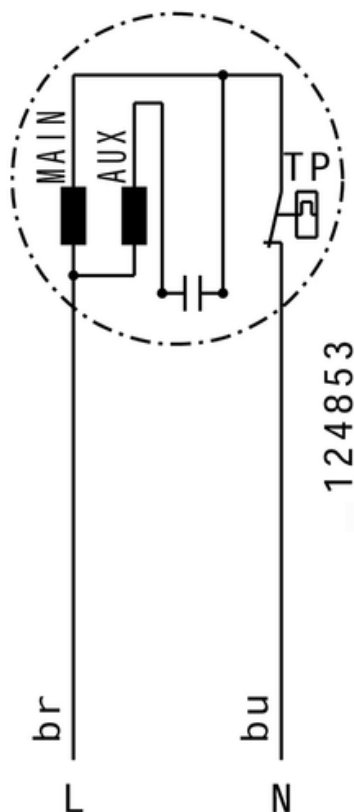
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EL 160L E2 01

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to the product detail page