

EM 125 E2 01

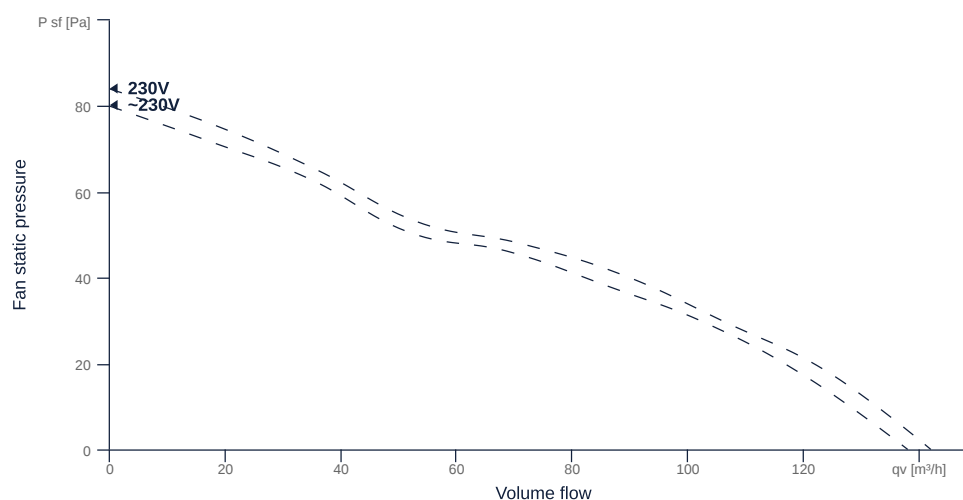
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing made of impact-resistant, reinforced polypropylene
- Robust single phase AC motor
- Conveyed medium temperature up to 60 °C in continuous operation
- The benchmark for efficiency since 2012



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	-		$W \times H_{duct}$
Pipe connection size (DN)	DN125		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)	IPX2		IP_{compl}
Weight	0.83	kg	m
Fan type	Diagonal		Fan_{type}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	14	W	$P_{ed, max}$
Max. operating current (device)	0.22	A	$I_{ed, max}$
Max. speed	2590	1/min	n_{max}
Max. stat. efficiency	7.2	%	η_{es}
Max. fan efficiency	7.8	%	η_e
Max. flowrate	142	m ³ /h	Q_v, max
Max. stat pressure	84	Pa	$p_{sf, max}$
Max. medium temperature	60	°C	T_m, max
Max. environment temperature	60	°C	$T_{amb, max}$
Min. environment temperature	-25	°C	$T_{amb, min}$
Min. voltage	207	V	U_{min}



MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		Split pole		phase
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Protection class		IP00		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwsupmotor
Rated voltage	230		V	U _{rated, f1}
Rated current	0.09		A	I _{rated, f1}
Nominal power	13		W	P _a
Speed	2800		1/min	n _{f1}
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2498	1/min	n _{opt}
Efficiency level	7.4	%	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.01	kW	P _{e, opt}
Overall efficiency	37.7	%	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	43	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	87	m³/h	q _{v, opt}

SMOKE EXTRACT DATA

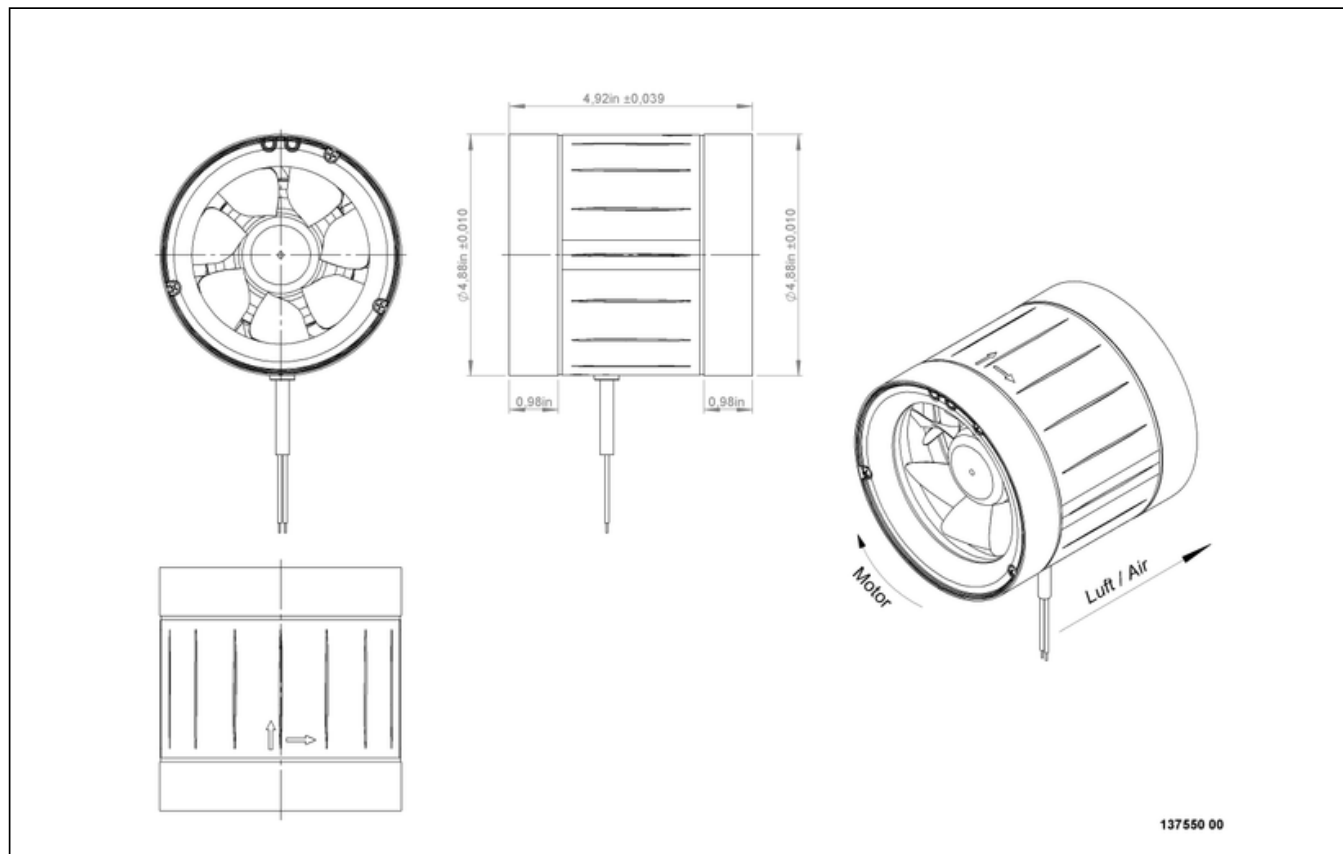
Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

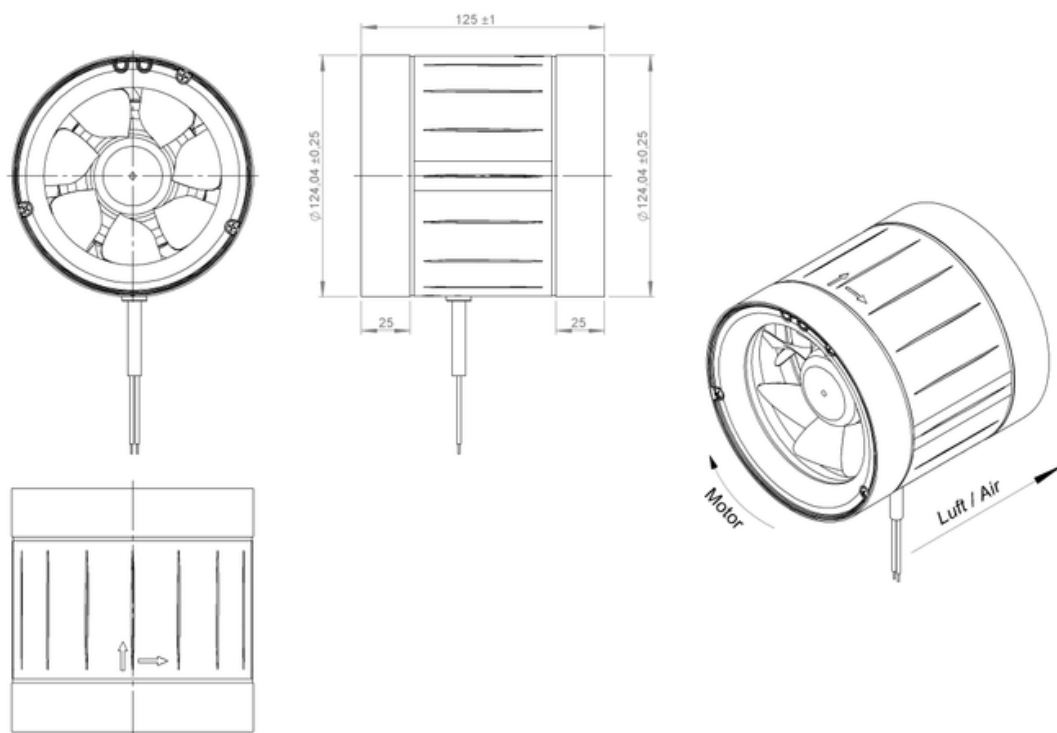


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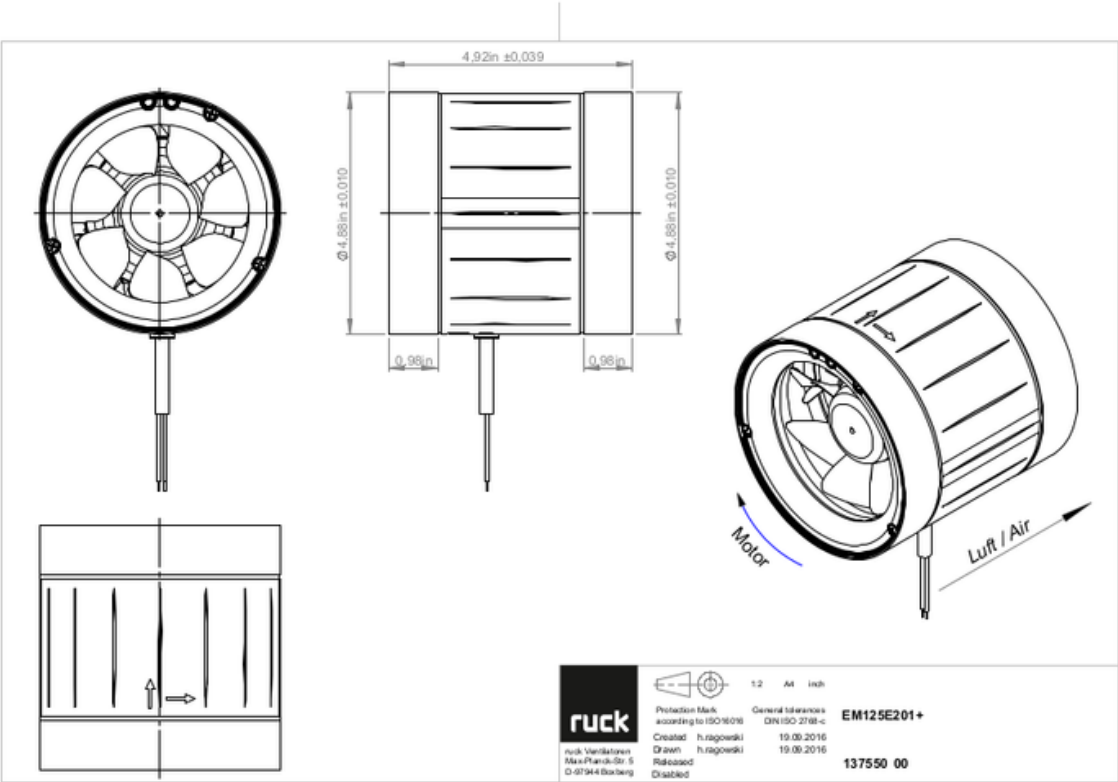
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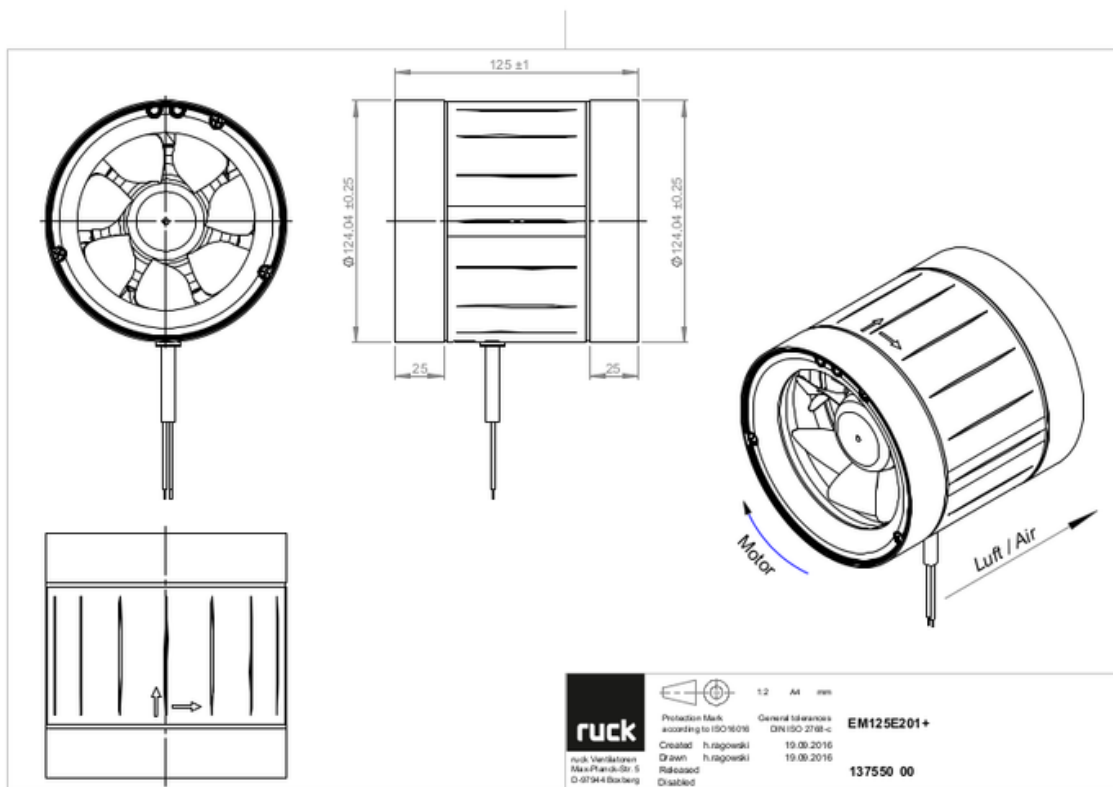


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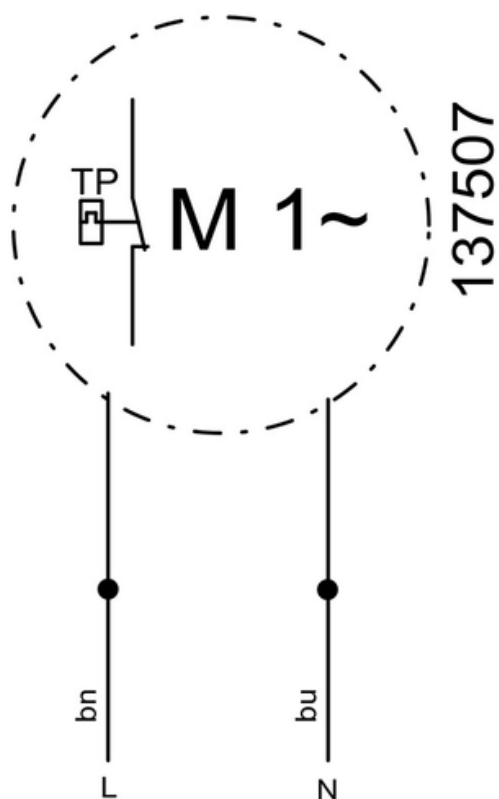
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