

EM 160 E2 01

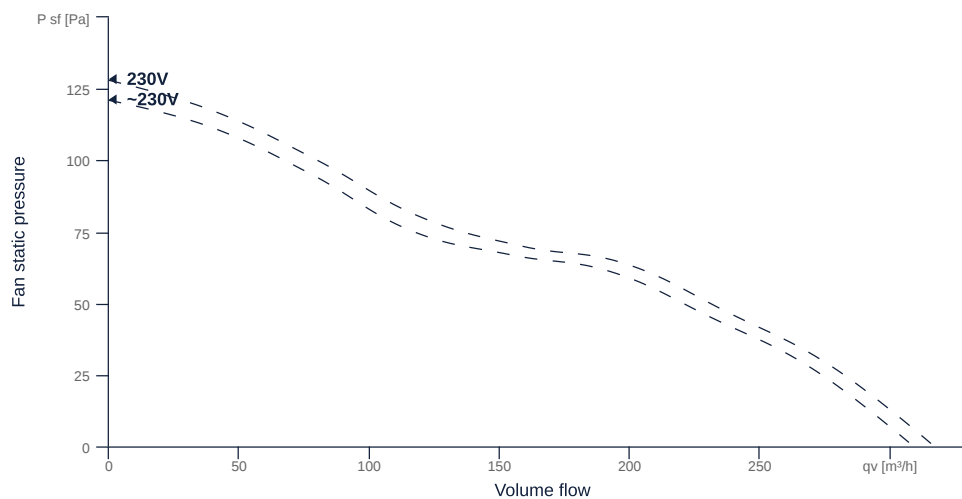
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing made of impact-resistant, reinforced polypropylene
- Robust single phase AC motor
- Conveyed medium temperature up to 40 °C in continuous operation
- 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)	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		matcasing
Impeller material	Plastic		matimpeller
IP-protection class (entire device)	IPX2		IPcompl
Weight	1.17	kg	m
Fan type	Diagonal		Fan _{type}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	31	W	$P_{ed, max}$
Max. operating current (device)	0.29	A	$I_{ed, max}$
Max. speed	2470	1/min	n_{max}
Max. stat. efficiency	11	%	η_{es}
Max. fan efficiency	11.7	%	η_e
Max. flowrate	315	m ³ /h	$Q_{v, max}$
Max. stat pressure	125	Pa	$p_{sf, max}$
Max. medium temperature	40	°C	T_m, max
Max. environment temperature	40	°C	$T_{amb, max}$
Min. environment temperature	-25	°C	$T_{amb, min}$



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	0.18		A	I _{rated, f1}
Nominal power	24		W	P _a
Speed	2800		1/min	n _{f1}
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

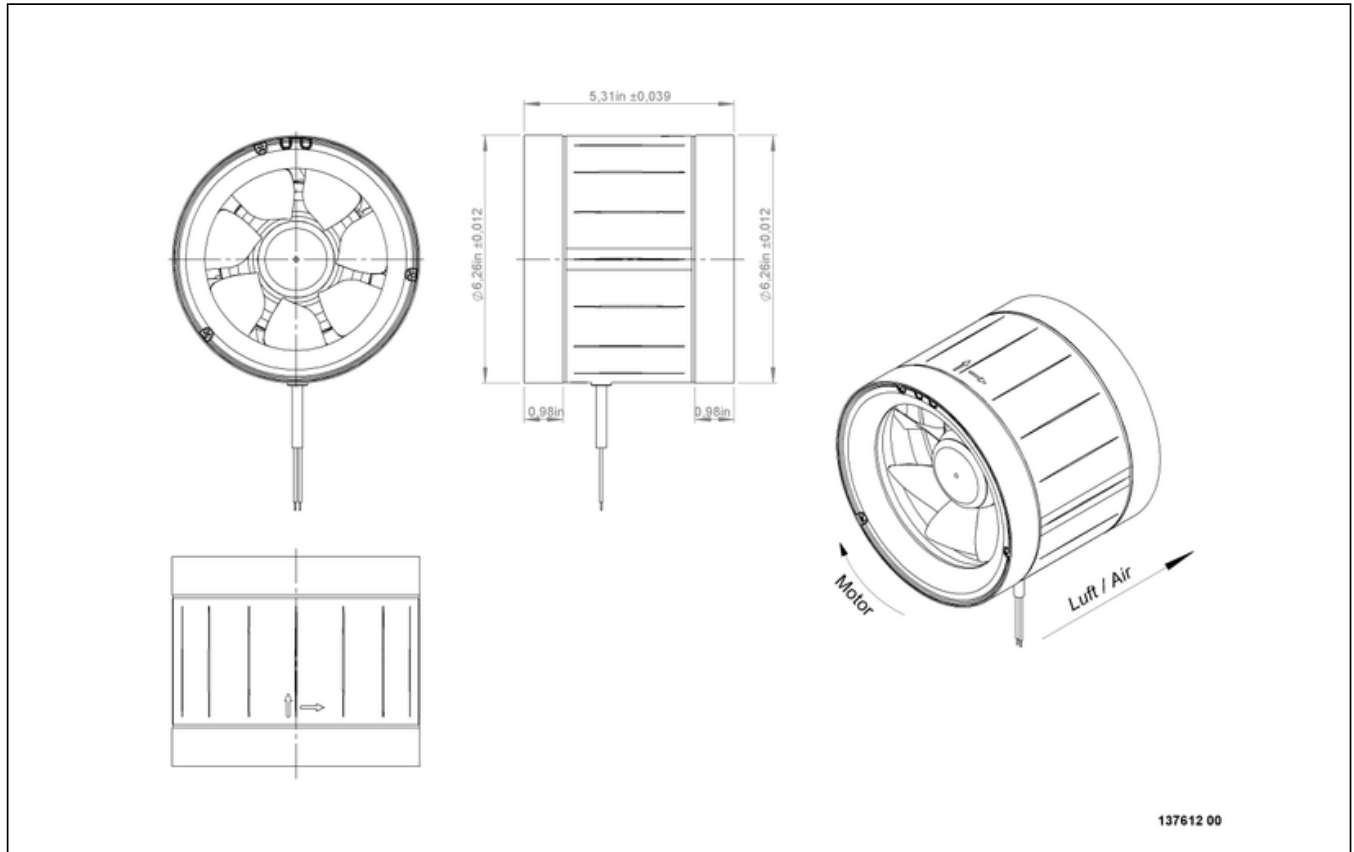
Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2364	1/min	n _{opt}
Efficiency level	10.9	%	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.03	kW	P _{e, opt}
Overall efficiency	37.4	%	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	63	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	197	m³/h	q _{v, opt}

SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



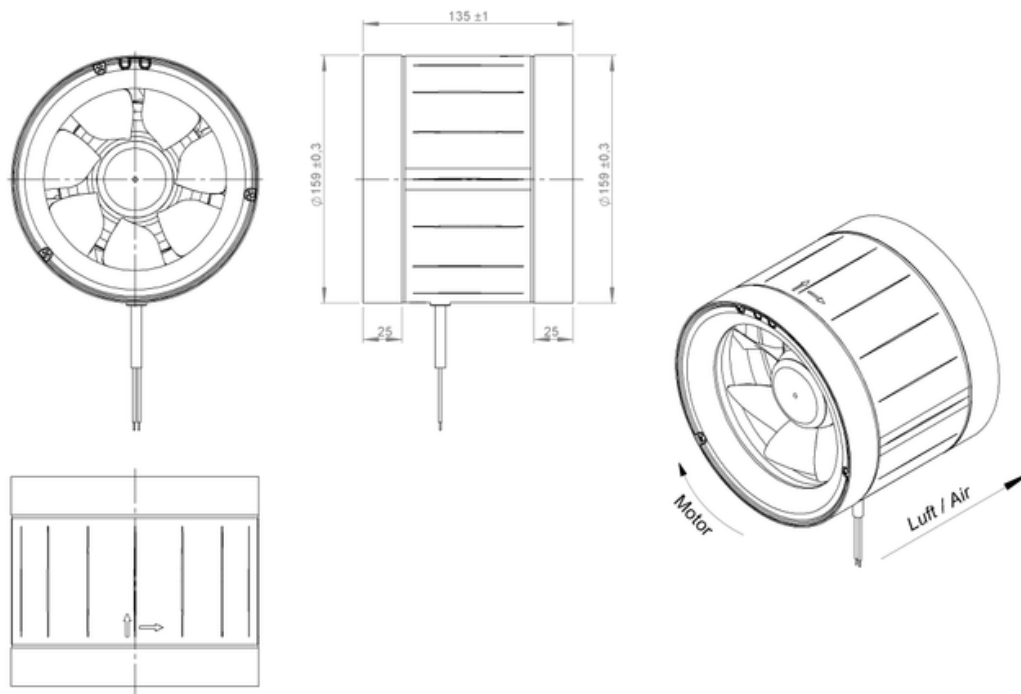
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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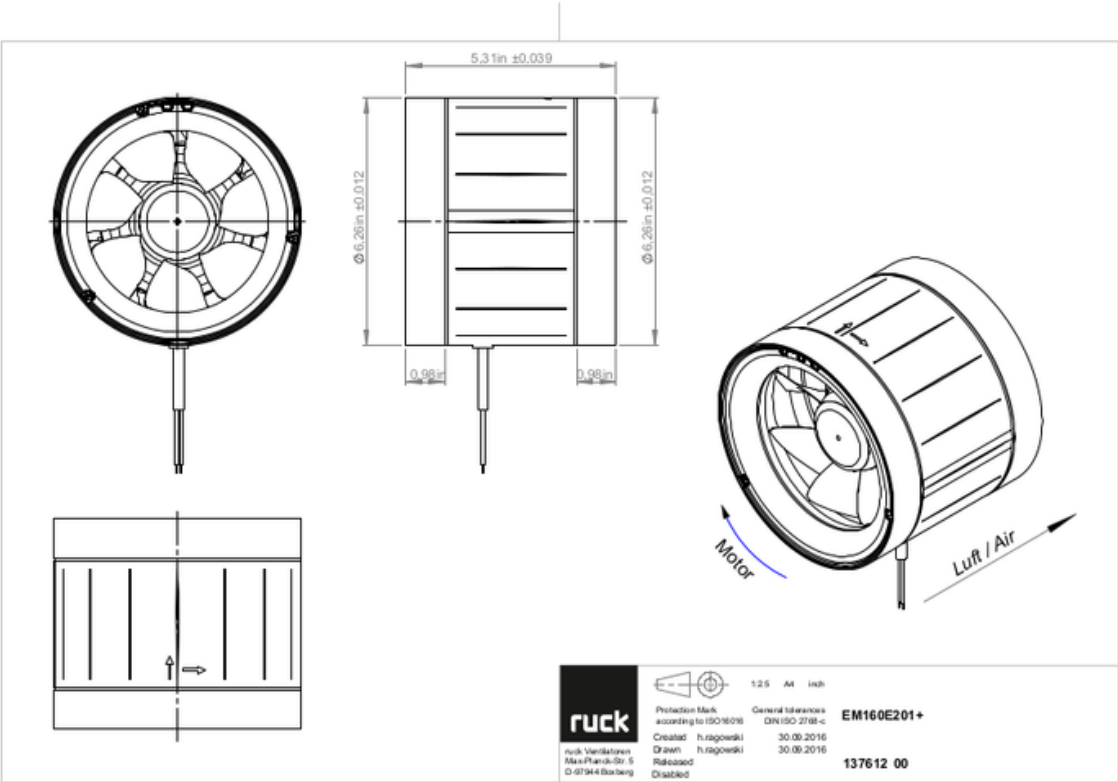
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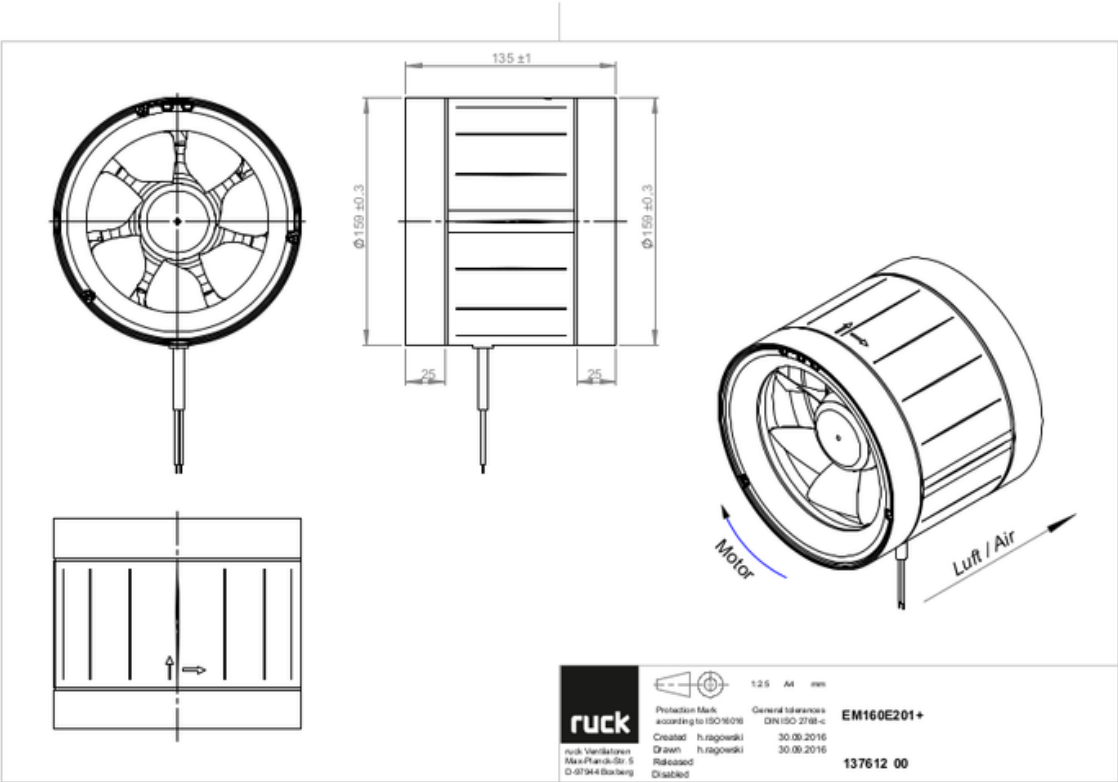
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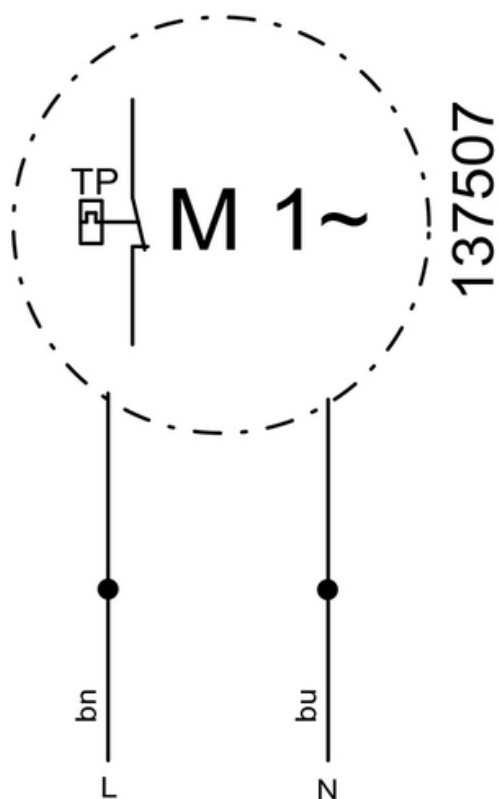
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