

EM 160 EC 02

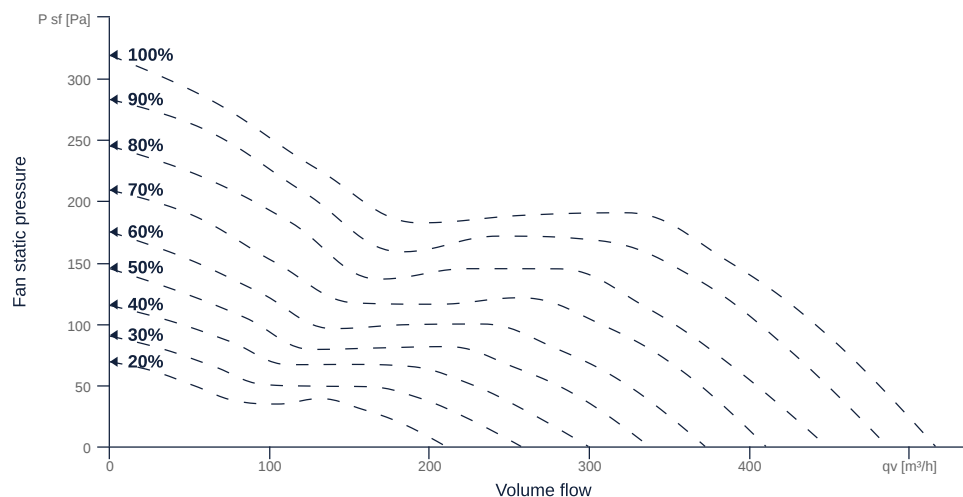
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing made of impact-resistant, reinforced polypropylene
- High efficiency IE5 EC motor, steplessly controllable
- External PWM control required to operate the fan (e.g. MTP50)
- 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	-		WxHduct
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	0.74	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)	44	44	w	P _{ed, max}
Max. operating current (device)	0.41	0.41	A	I _{ed, max}
Max. speed	3820	3820	rpm	n _{max}
Max. stat. efficiency	37.9	37.9	p	η _{es}
Max. fan efficiency	40	40	p	η _e
Max. flowrate	515	515	CmH	q _{v, max}
Max. stat pressure	315	315	Pa	p _{sf, max}
Max. medium temperature	40	40	°C	T _{m, max}
Max. environment temperature	40	40	°C	T _{amb, max}



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MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		EC		phase
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
Number of poles (1)		2.000000		num polesw1
Rated voltage	230		v	U _{rated, f1}
Nominal power	40		w	P _a
Speed	3650		rpm	n _{f1}
Efficiency	58		p	η _{m, f1}
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	3821	rpm	n _{opt}
Efficiency level	44.8	p	N
Efficiency category	statisch		cat _{efficiency}
Input power of the motor at the energy efficiency optimum	0.04	kw	P _{e, opt}
Overall efficiency	69.7	p	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	189	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	328	CmH	q _{v, opt}

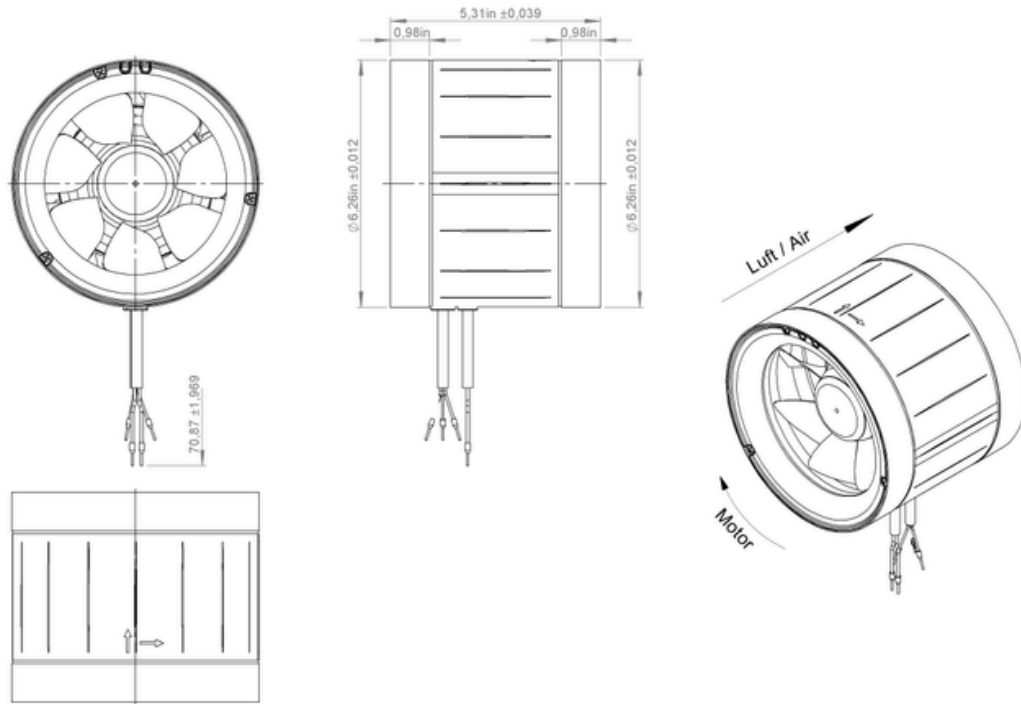
SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		F _{class}



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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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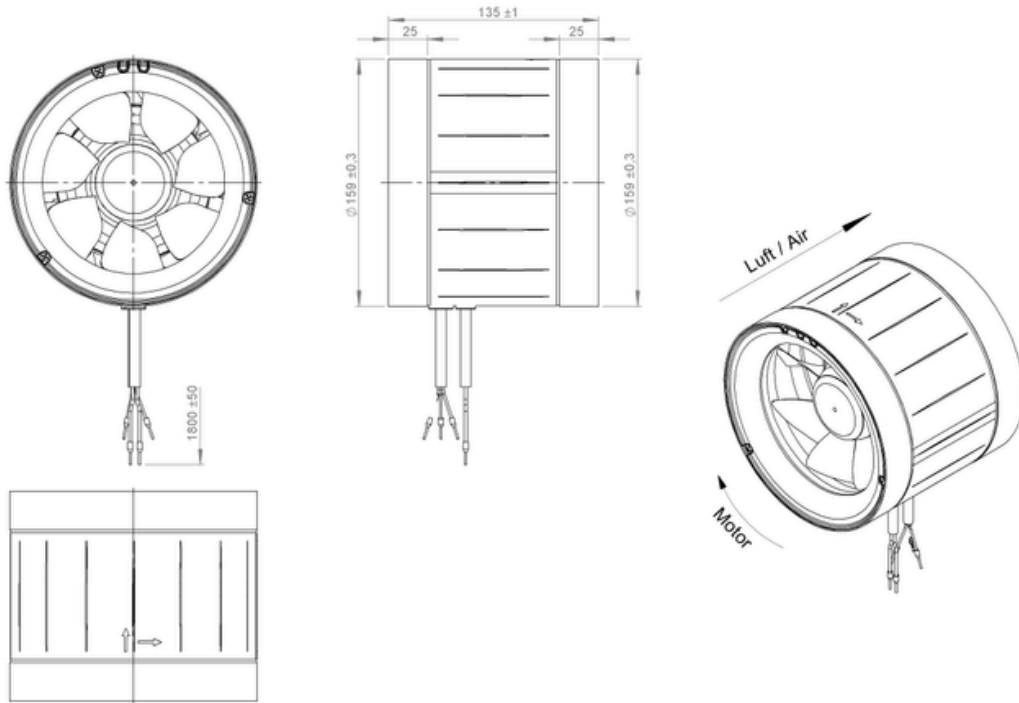


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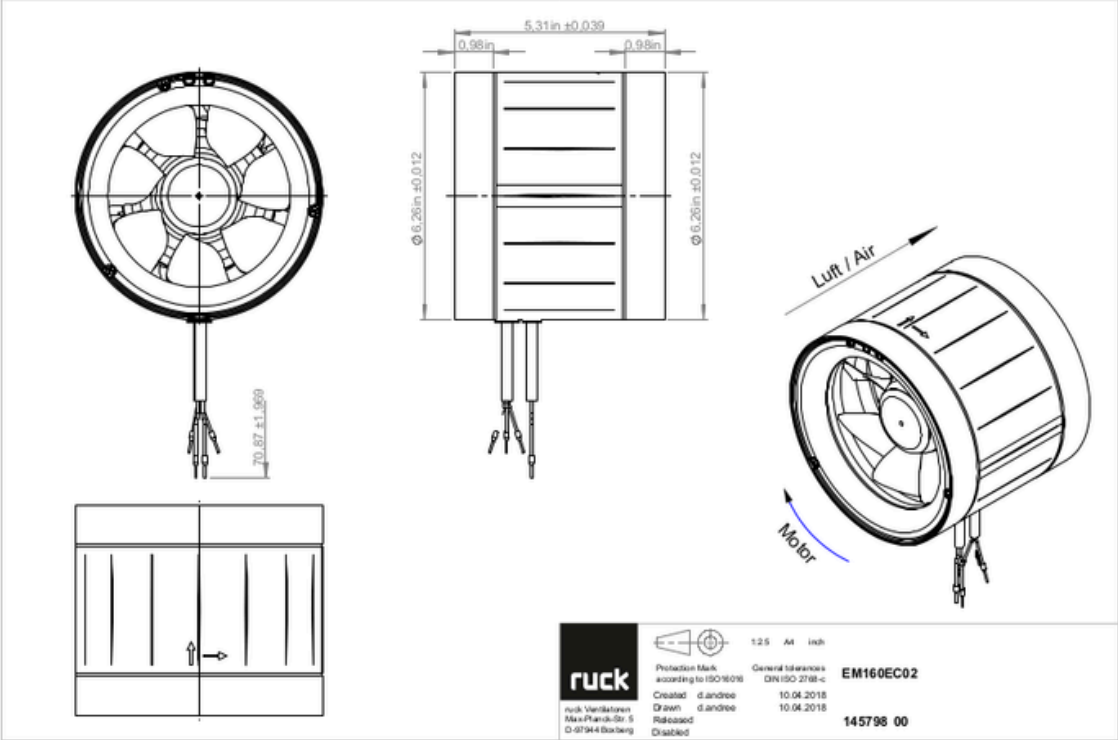
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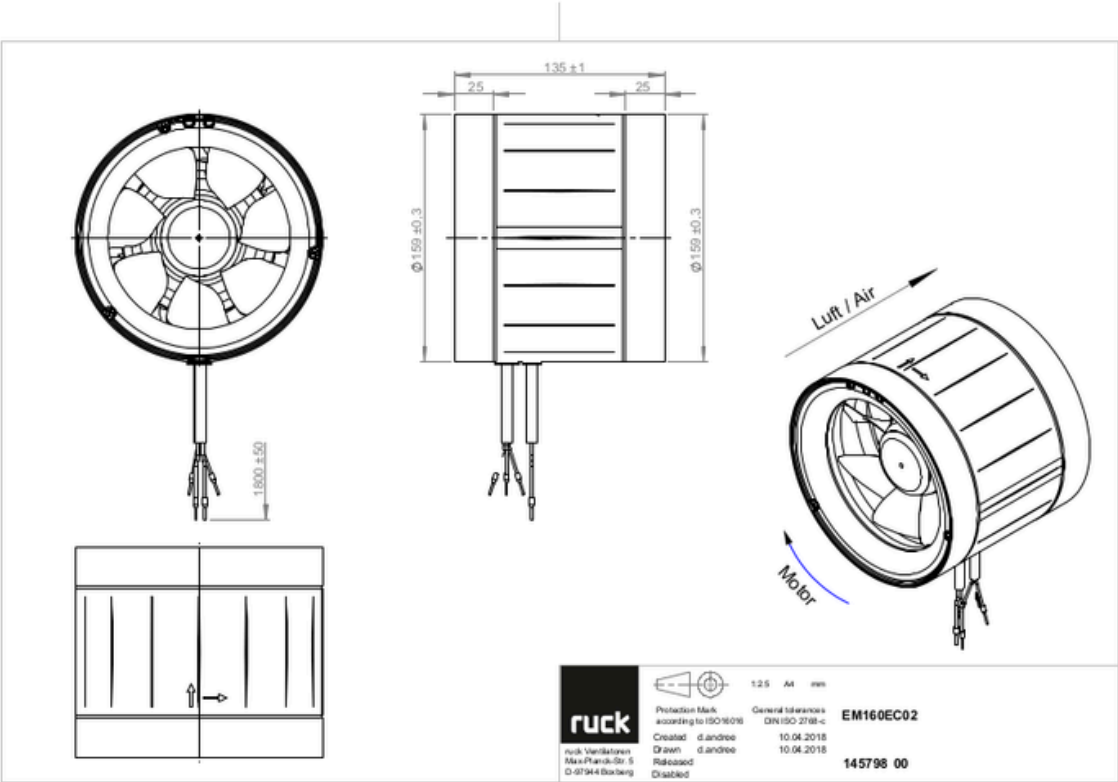
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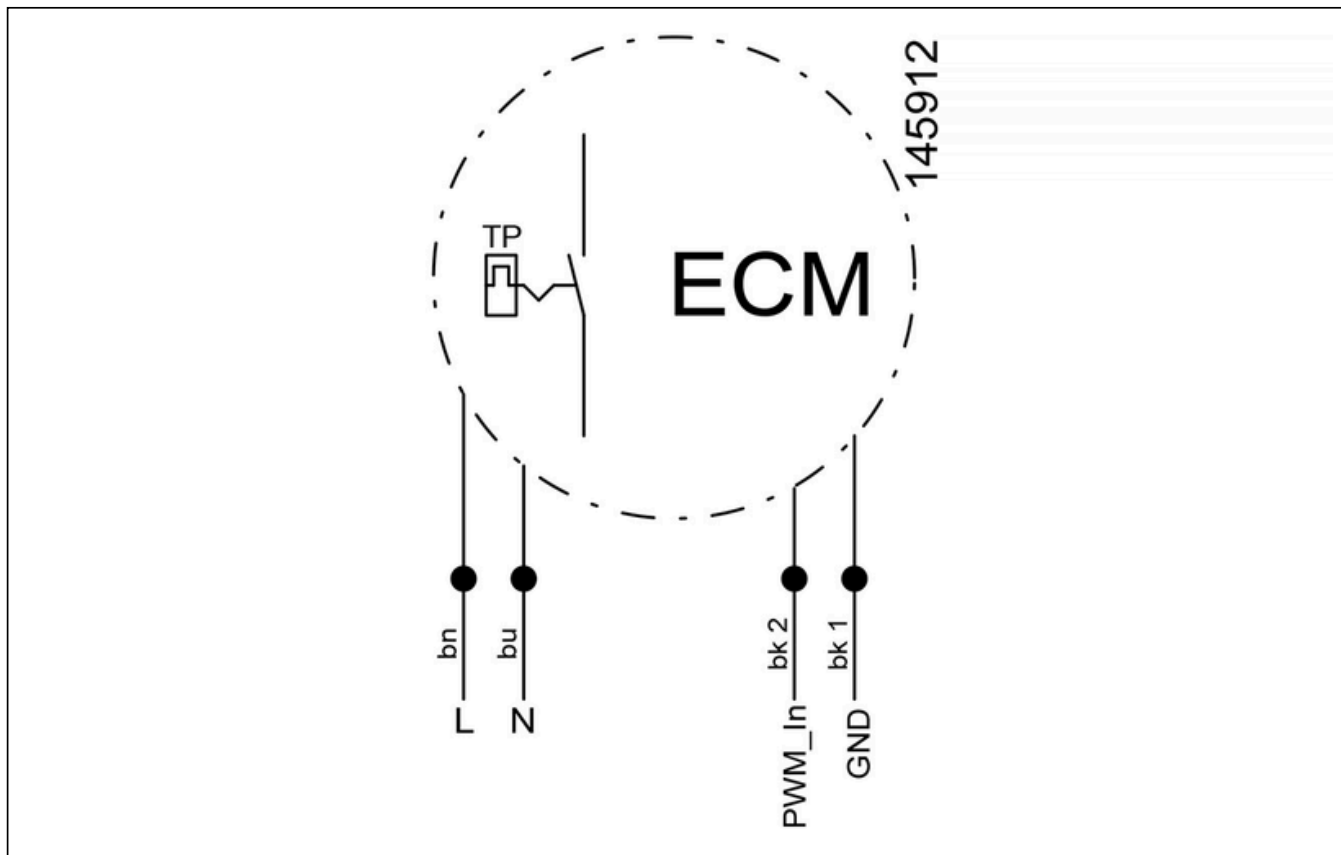
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