

EM 160L E2M 01

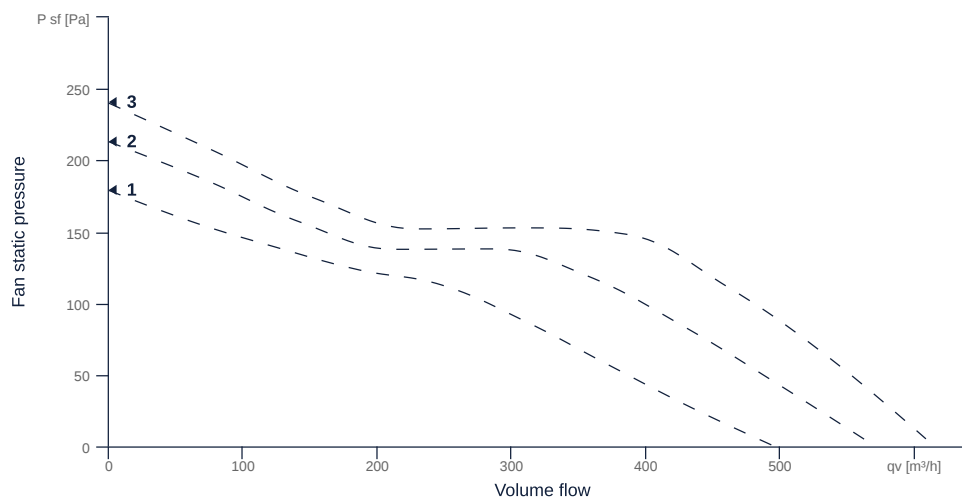
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing made of impact-resistant, reinforced polypropylene
- Robust AC motor, 3-steps controllable
- Conveyed medium temperature up to 60 °C in continuous operation
- 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	-		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}
IP-Protection class (terminal box)	IP44		IP _{ebox}
Weight	2.55	kg	m
Fan type	Diagonal		Fan _{type}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	45	w	P _{ed, max}
Max. operating current (device)	0.29	A	I _{ed, max}
Max. speed	2820	rpm	n _{max}
Max. stat. efficiency	33.9	p	η _{es}
Max. fan efficiency	37.5	p	η _e
Max. flowrate	615	CmH	Q _{v, max}
Max. stat pressure	240	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	230	v	U _{min}
Stall current	0.44	A	I _{LRA}



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MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 1~		phase
Control type		step-controlled		ctrltype
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		1.5	µF	Ccond
Voltage capacitor		450	v	VUcond
Number of poles (1)		2.000000		num polesw1
Rated voltage	230		v	Urated, f1
Rated current	0.22		A	Irated, f1
Nominal power	25		w	Pa
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2739	rpm	n _{opt}
Efficiency level	34.3	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	59	p	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	146	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	397	CmH	q _{v, opt}

SMOKE EXTRACT DATA

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

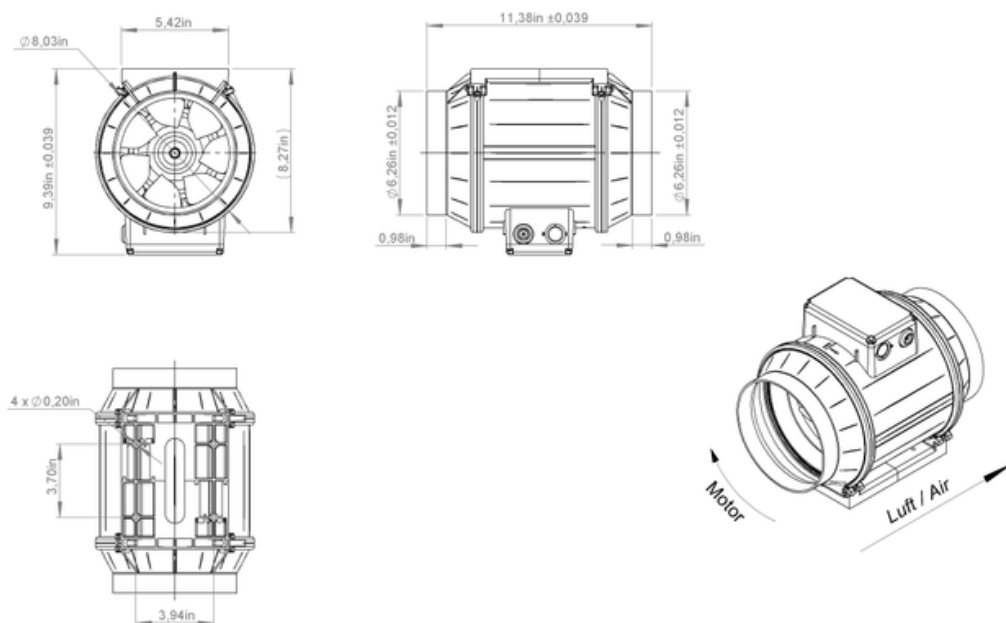


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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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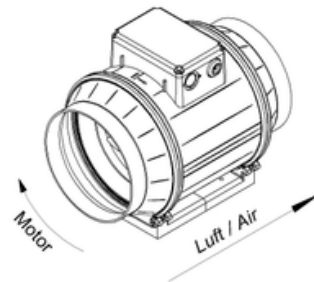
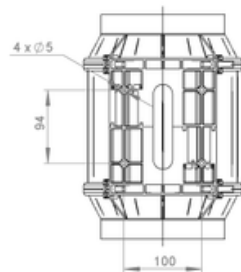
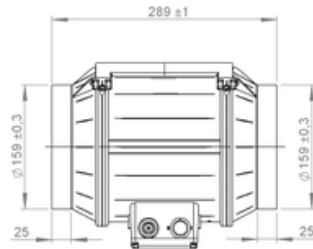
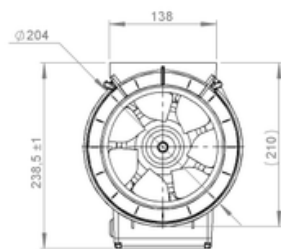


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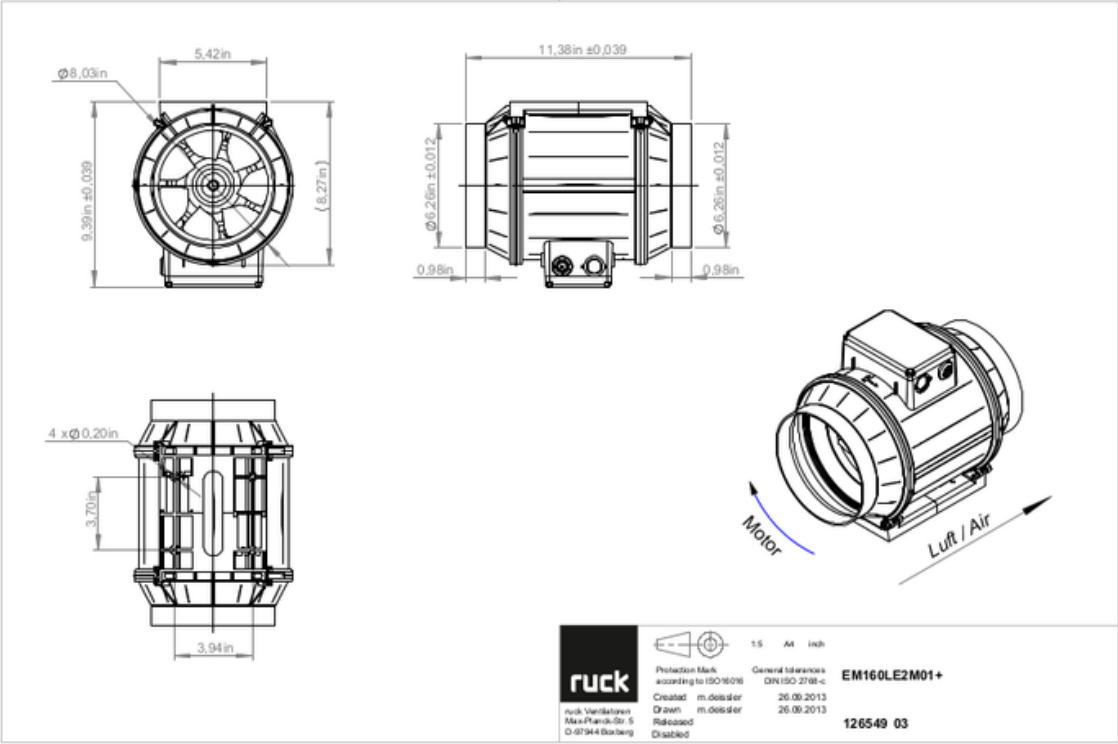
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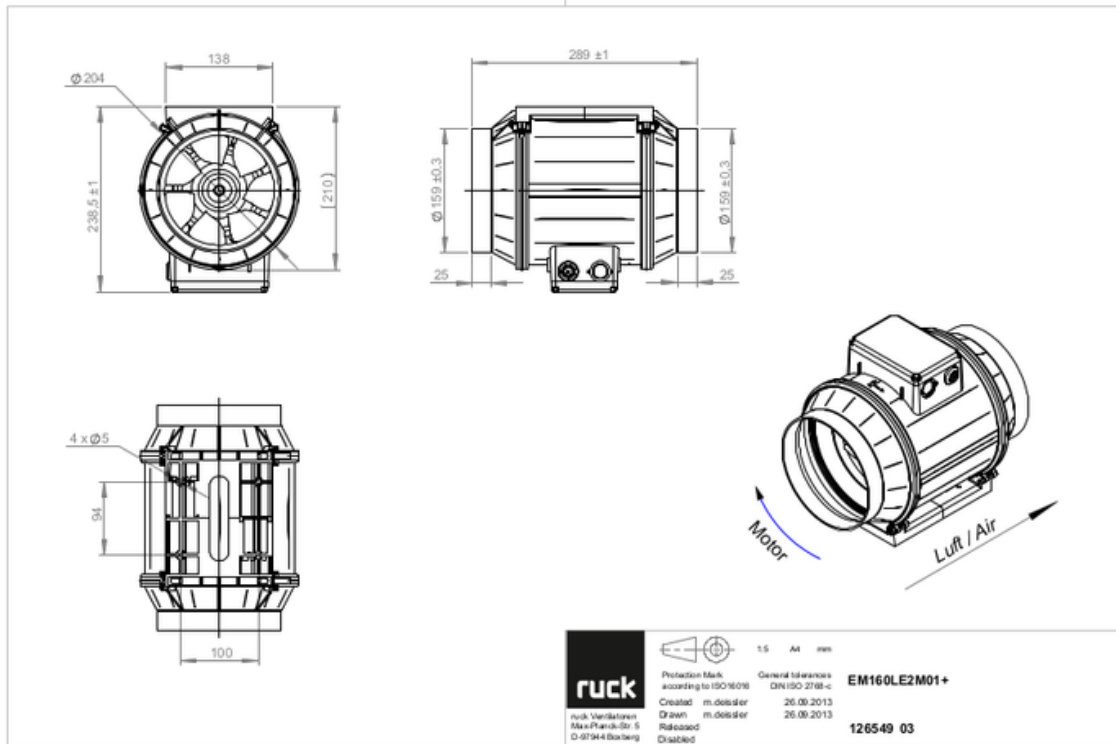


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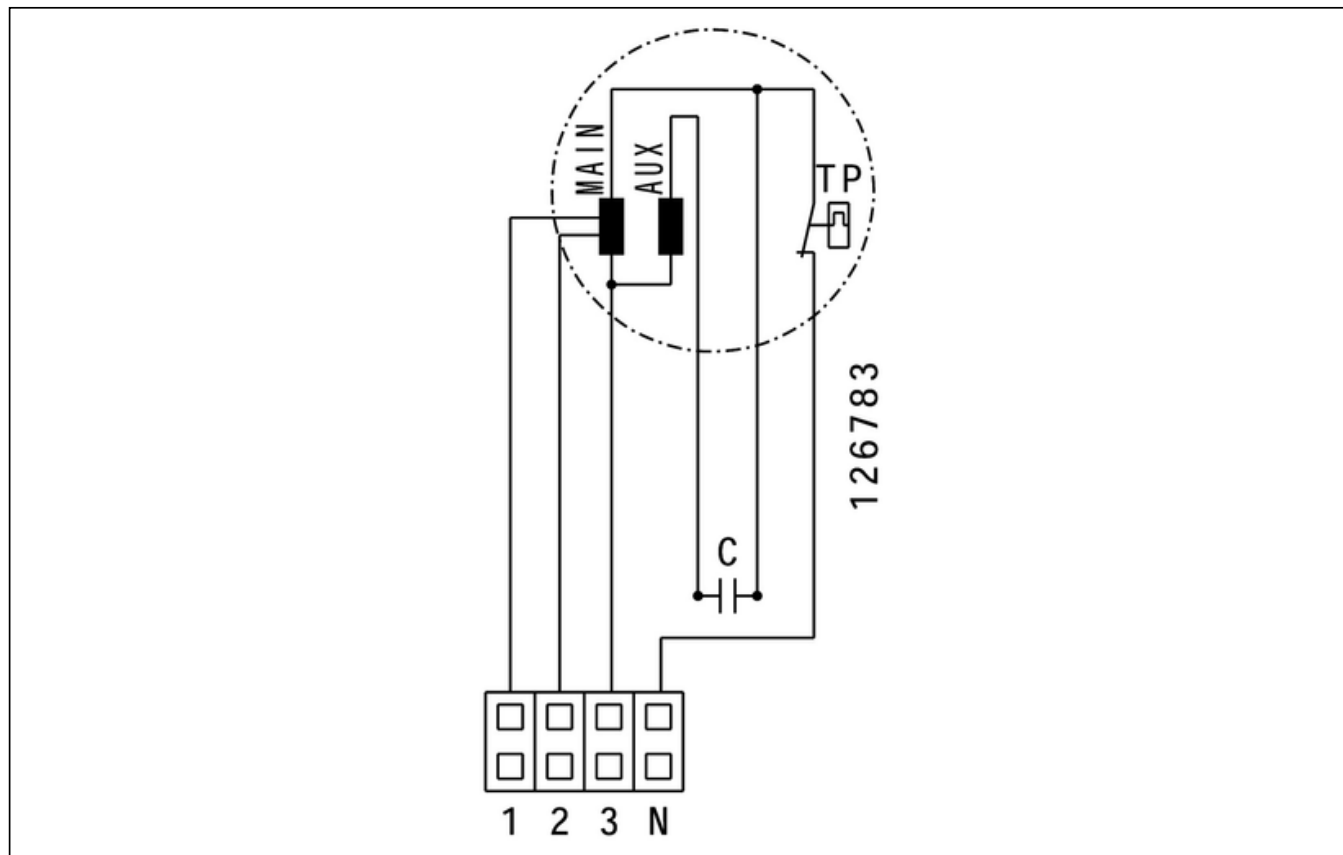
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