

EM 315 EC 01

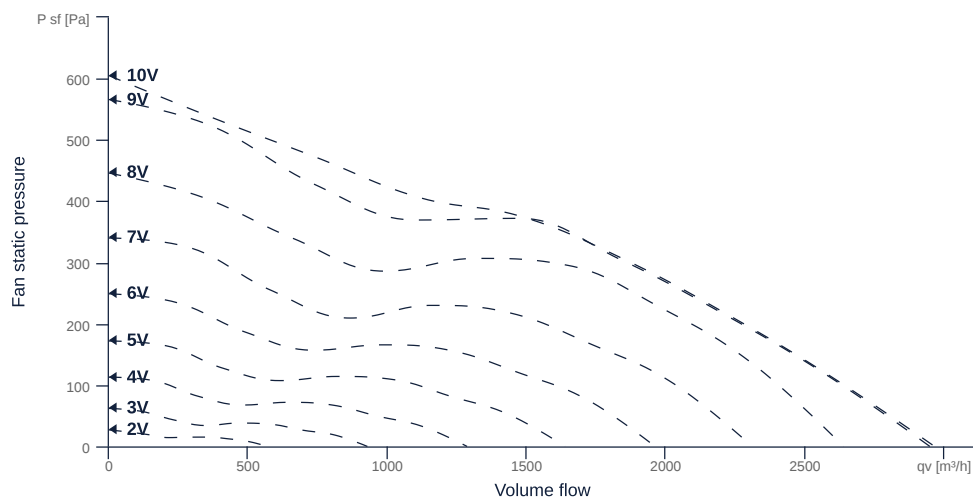
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing made of impact-resistant, reinforced polypropylene
- High efficiency IE5 EC motor, steplessly controllable
- Incl. 1x potentiometer for connection in terminal box
- Conveyed medium temperature up to 45 °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)	DN315		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	6.9	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)	282	282	w	P _{ed, max}
Max. operating current (device)	1.96	1.96	A	I _{ed, max}
Max. speed	2800	2800	rpm	n _{max}
Max. stat. efficiency	53.2	53.2	p	η _{es}
Max. fan efficiency	56.7	56.7	p	η _e
Max. flowrate	2960	2960	CmH	q _{v, max}
Max. stat pressure	600	600	Pa	p _{sf, max}
Max. medium temperature	45	45	°C	T _{m, max}
Max. environment temperature	45	45	°C	T _{amb, max}
Min. environment temperature	-30	-30	°C	T _{amb, min}


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MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		EC		phase
Control type		stepless-controlled		ctrltype
Installation type		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TEC		protectmotor
Protection class		IP33		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Rated voltage	230	230	v	U _{rated, f1}
Rated current	1.83	1.83	A	I _{rated, f1}
Nominal power	280	280	w	P _a
Speed	2500	2500	rpm	n _{f1}
Min. temperature	-30	-30	°C	T _{motor, min}
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2477	rpm	n _{opt}
Efficiency level	59.7	p	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.3	kw	P _{e, opt}
Overall efficiency	75.7	p	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	341	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	1688	CmH	Q _{v, opt}

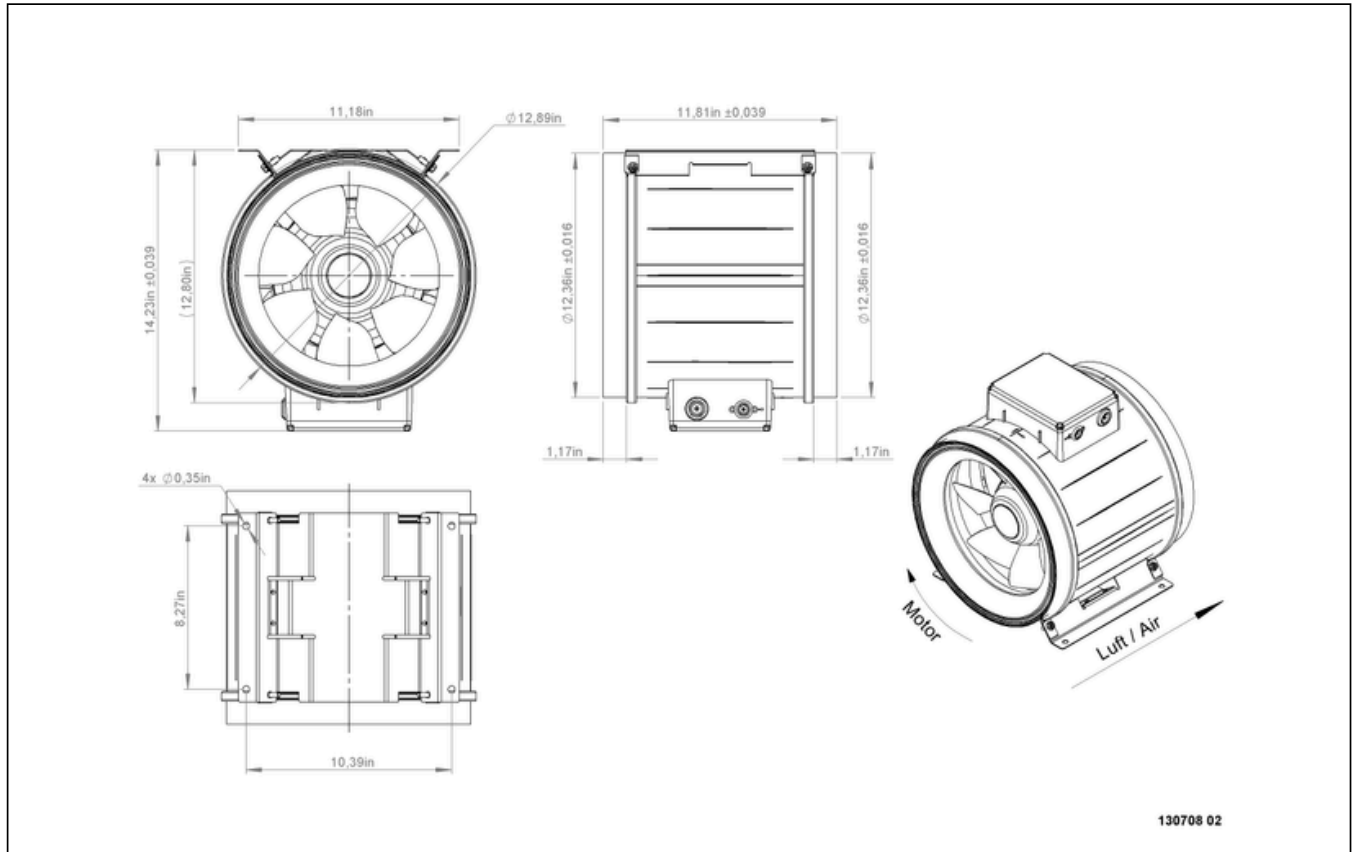
SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



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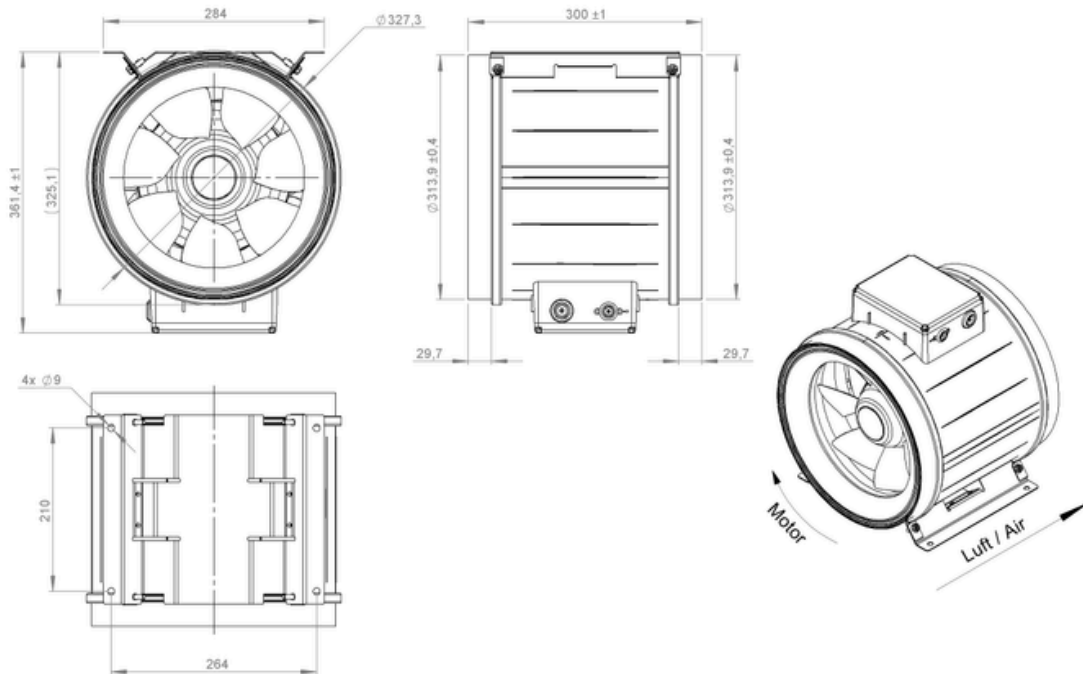
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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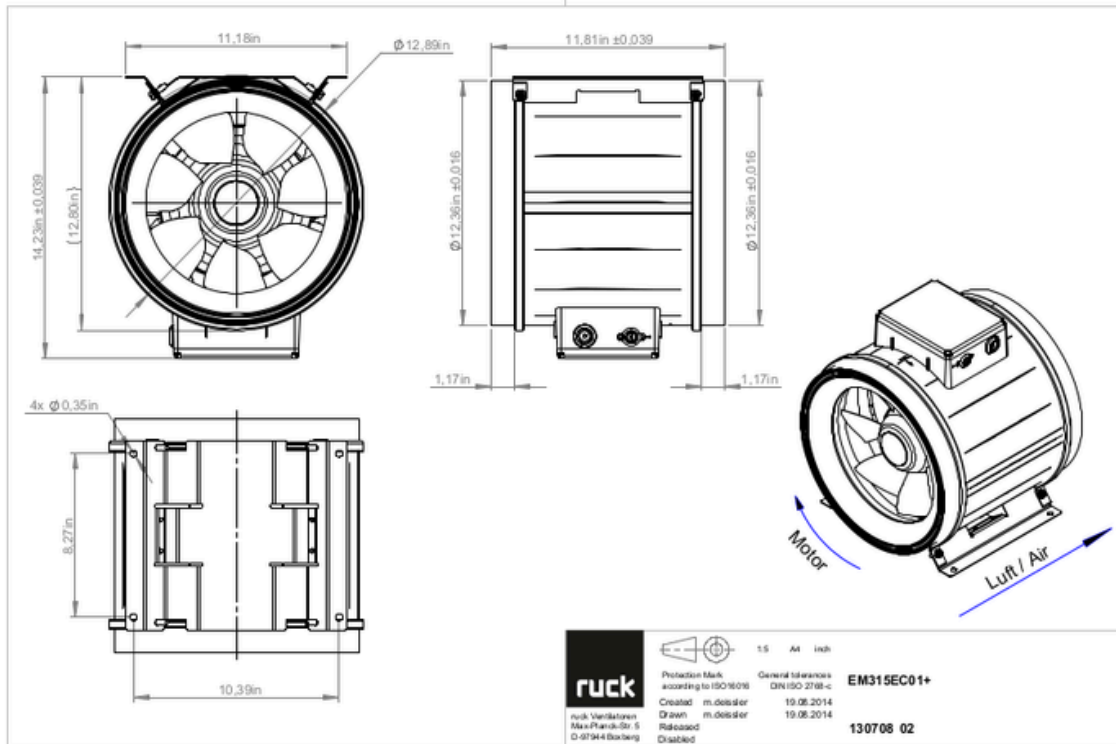
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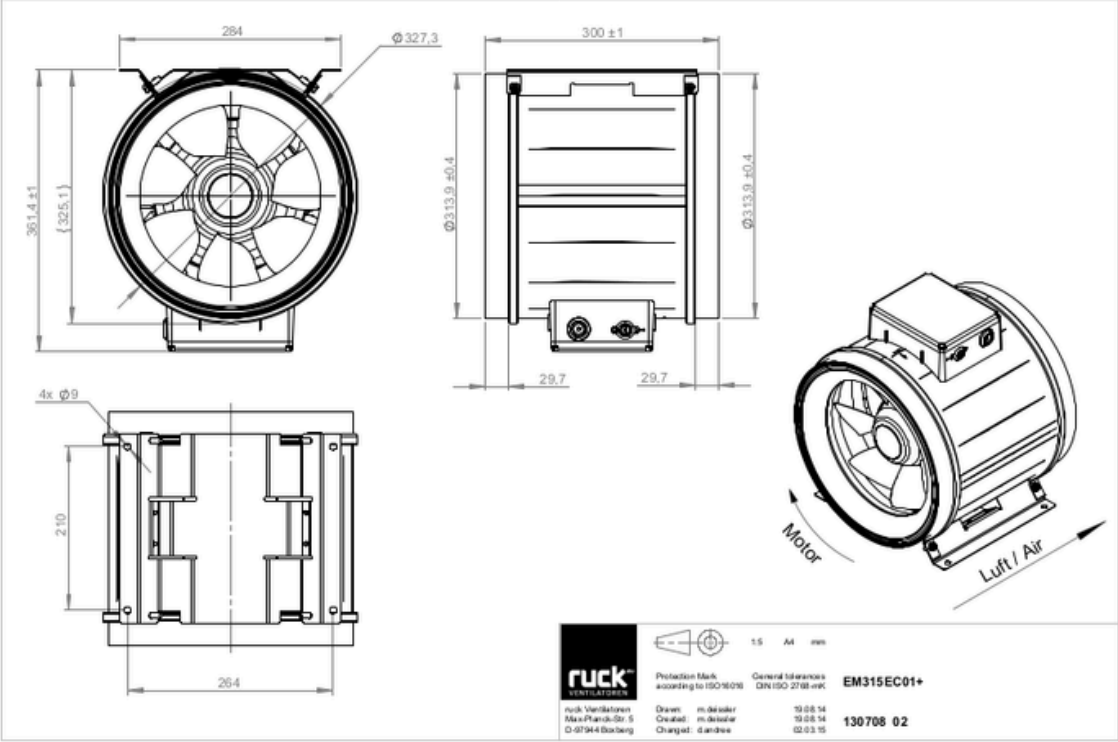
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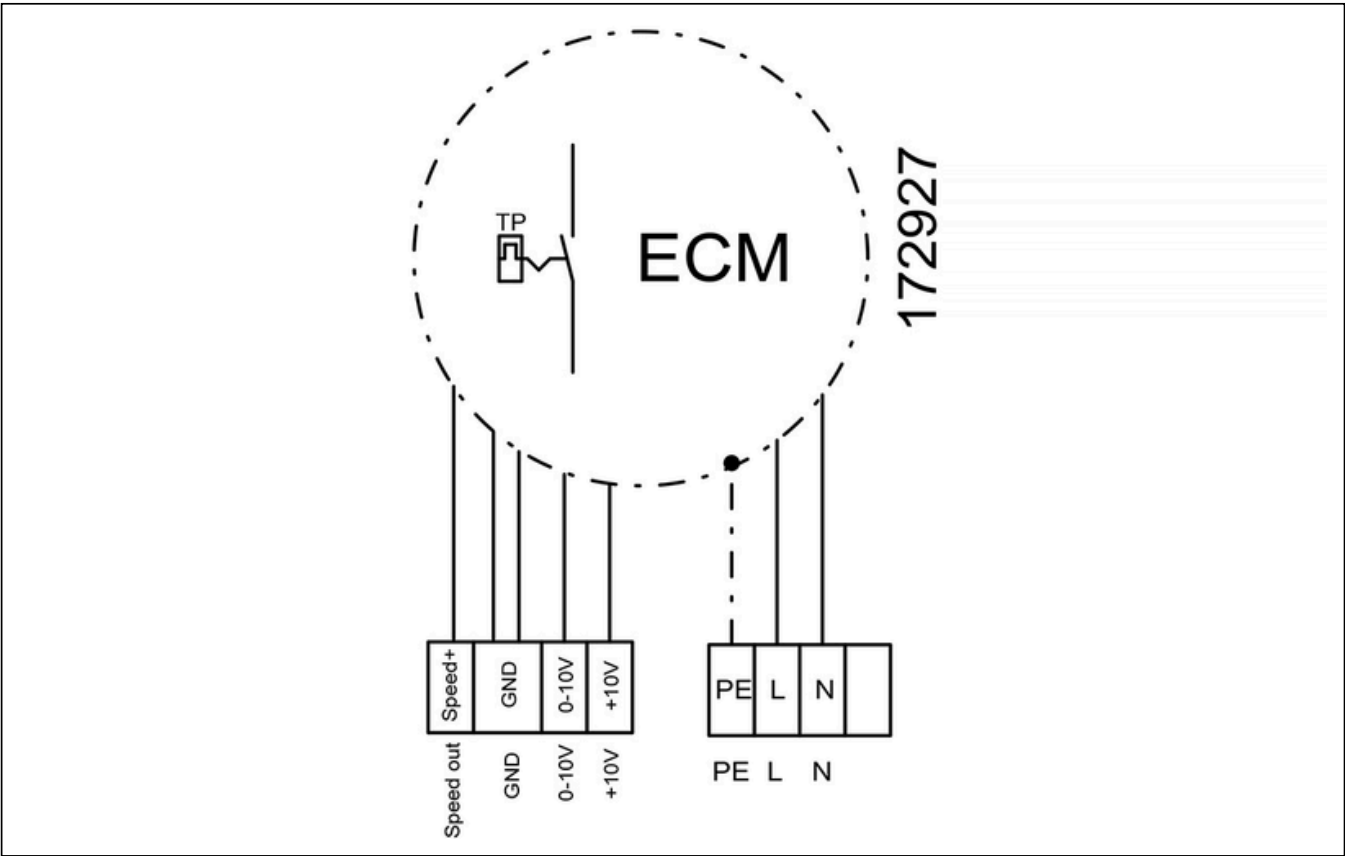
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