

EM 280 E2M 01

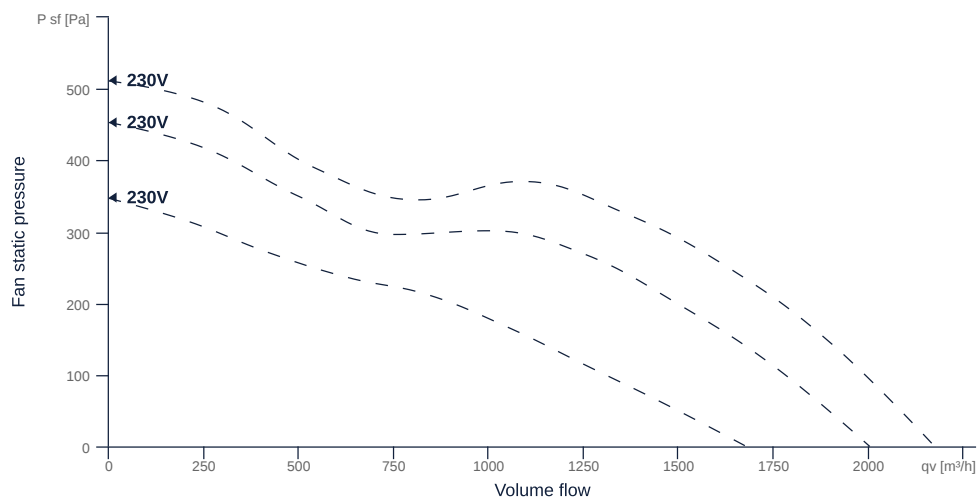
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing made of impact-resistant, reinforced polypropylene
- Robust AC motor, 3-steps controllable
- Conveyed medium temperature up to 60 °C in continuous operation
- 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	-		$W \times H_{duct}$
Pipe connection size (DN)	DN280		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	8.56	kg	m
Fan type	Diagonal		Fan_{type}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	239	W	$P_{ed, max}$
Max. operating current (device)	1.12	A	$I_{ed, max}$
Max. speed	2830	rpm	n_{max}
Max. stat. efficiency	49.7	%	η_{es}
Max. fan efficiency	52.9	%	η_e
Max. flowrate	2170	CmH	$Q_{v, max}$
Max. stat pressure	510	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}



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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
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		10	µF	Ccond
Voltage capacitor		450	v	VUcond
Number of poles (1)		2.000000		num polesw1
Rated voltage	230		v	Urated, f1
Rated current	1.2		A	Irated, f1
Nominal power	180		w	Pa
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2777	rpm	nopt
Efficiency level	51.3	p	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.22	kw	Pe, opt
Overall efficiency	68.7	p	ηges
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	362	Pa	pt, opt
Flowrate at energy efficiency optimum	1213	CmH	Qv, opt

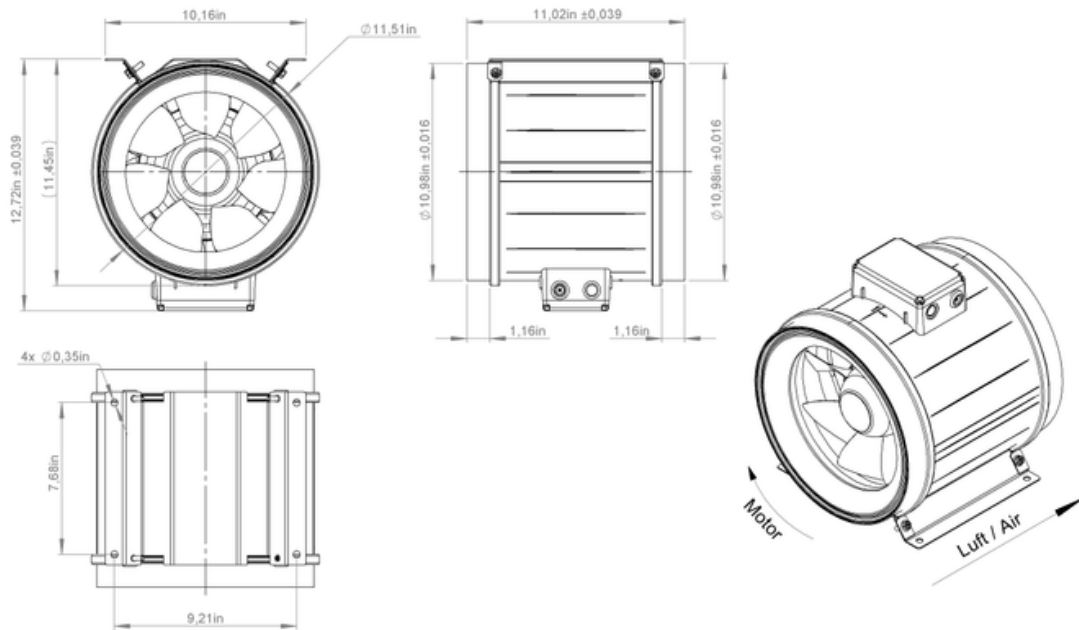
SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



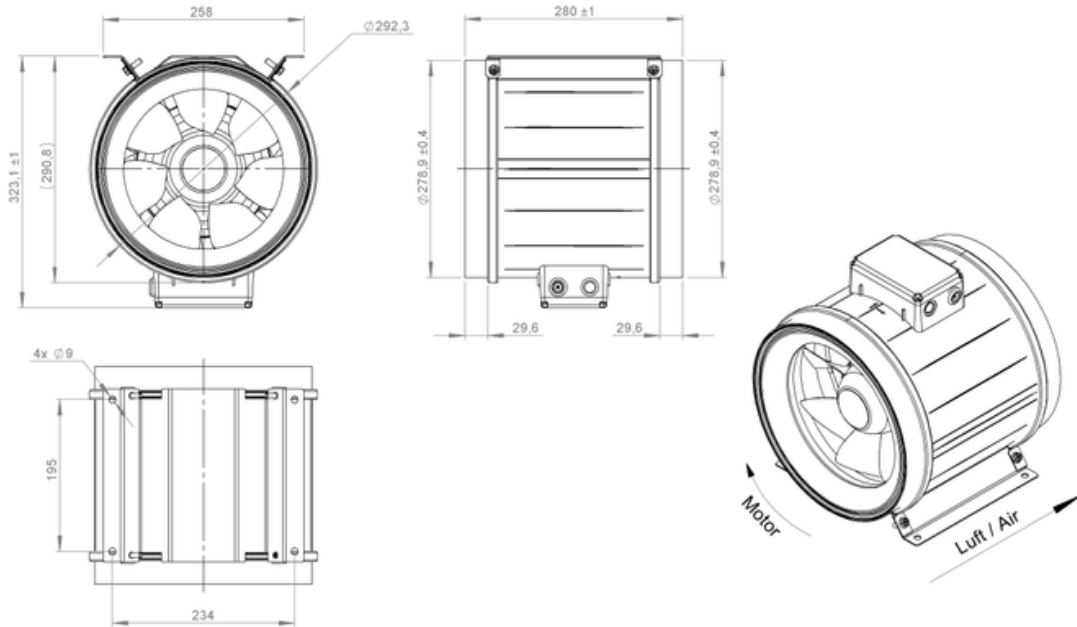
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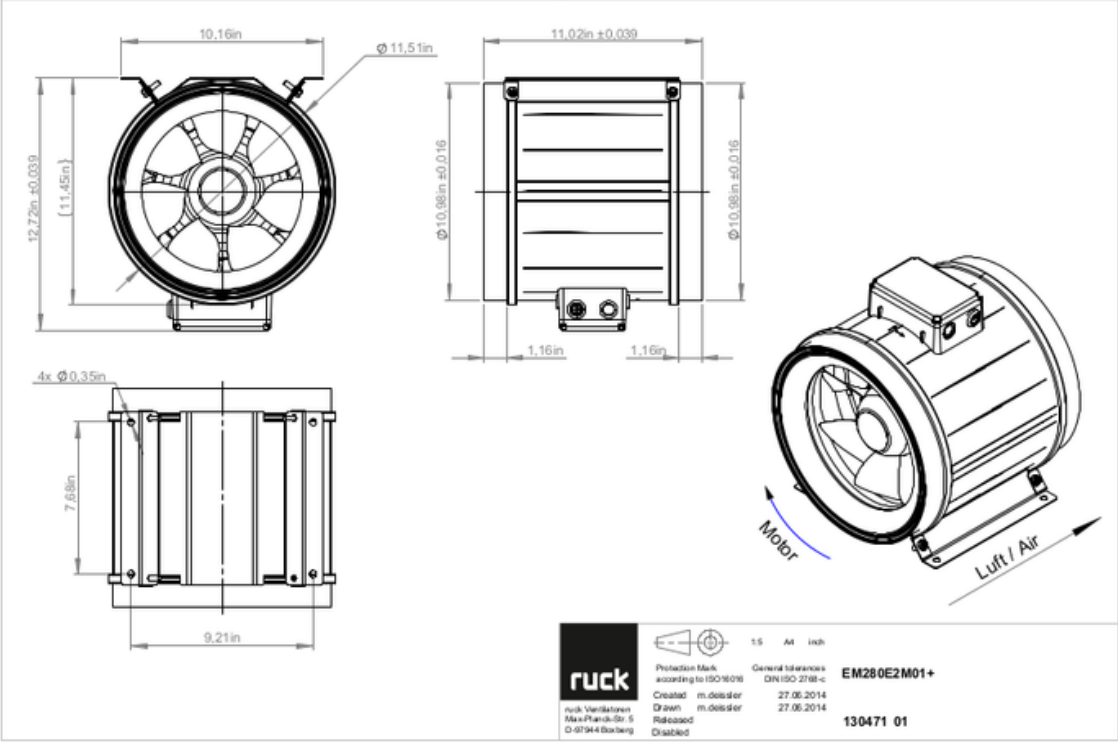
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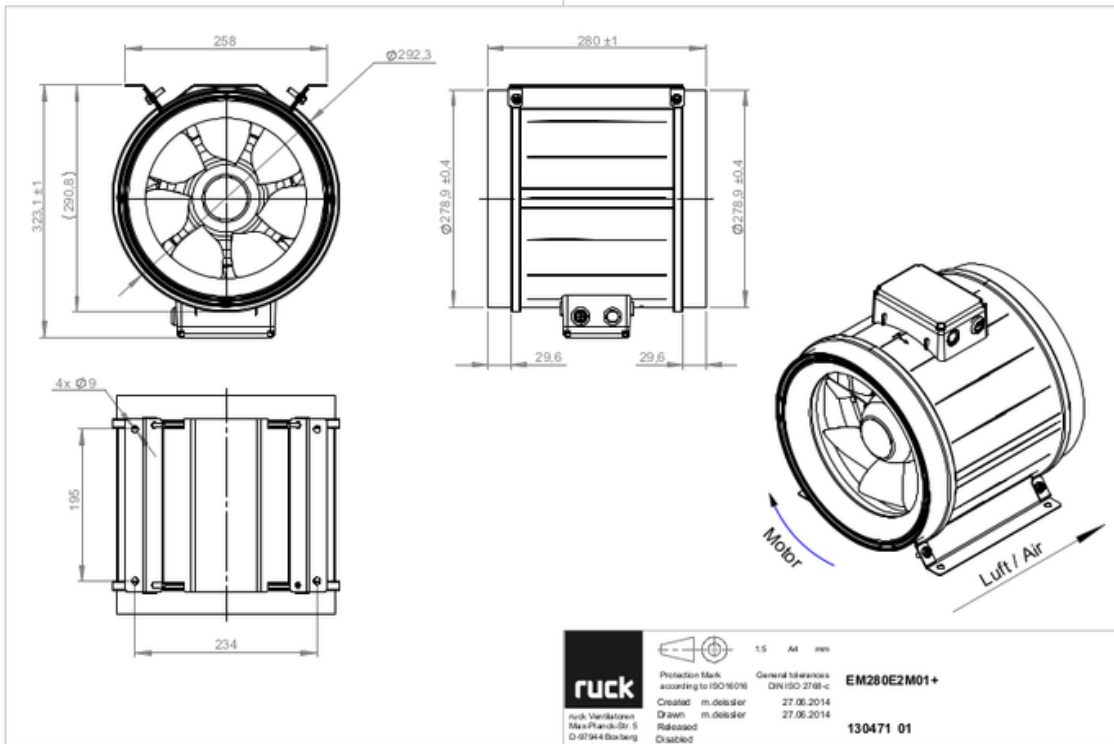


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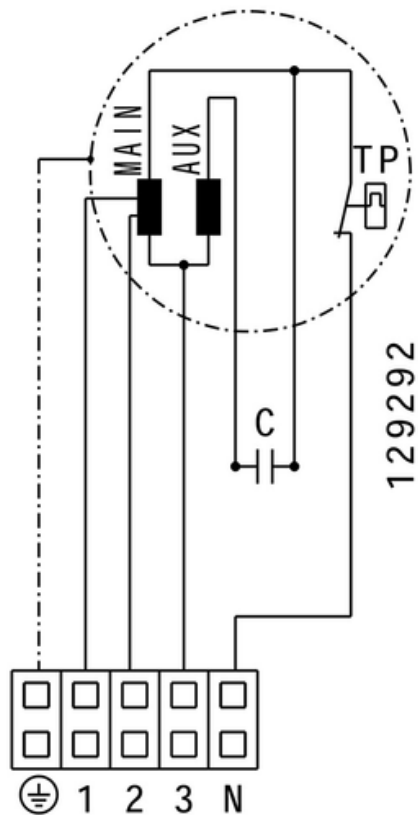
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