

EM 280 E2M 01

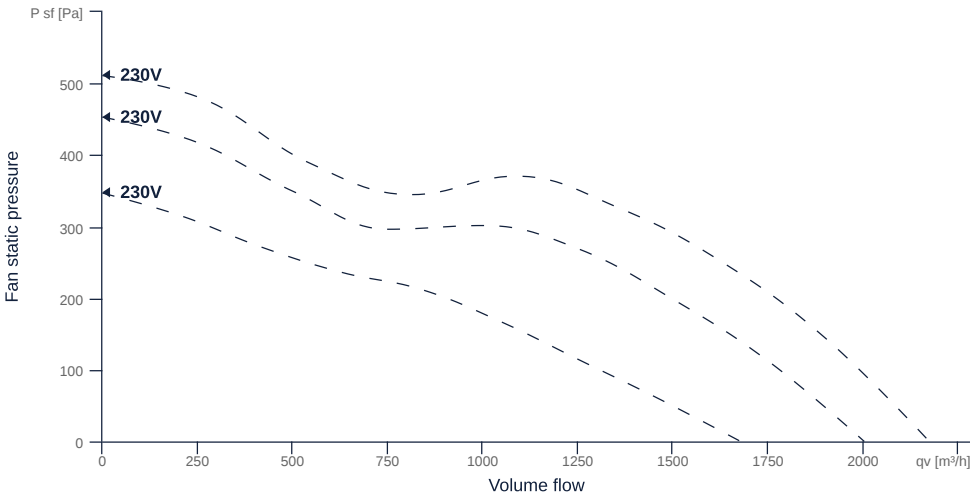
130471

- 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



to the product detail page

EM 280 E2M 01

130471

ruck

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	1/min	n_{max}
Max. stat. efficiency	49.7	%	η_{es}
Max. fan efficiency	52.9	%	η_e
Max. flowrate	2170	m³/h	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}



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		protect _{motor}
Protection class		IP00		IP _{motor}
Is pole-changeable		No		pole _{exch}
Type of power supply		AC 1~		pwr _{sup} _{motor}
Capacity capacitor		10	μF	C _{cond}
Voltage capacitor		450	V	VU _{cond}
Number of poles (1)		2.000000		num poles _{w1}
Rated voltage	230		V	U _{rated, f1}
Rated current	1.2		A	I _{rated, f1}
Shaft power	180		W	P _{out, f1}
UL-Certification motor		None		UL _{cert}

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2777	1/min	n _{opt}
Efficiency level	51.3	%	N
Efficiency category	statisch		cat _{efficiency}
Input power of the motor at the energy efficiency optimum	0.22	kW	P _{e, opt}
Overall efficiency	68.7	%	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	362	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	1213	m³/h	q _{v, opt}

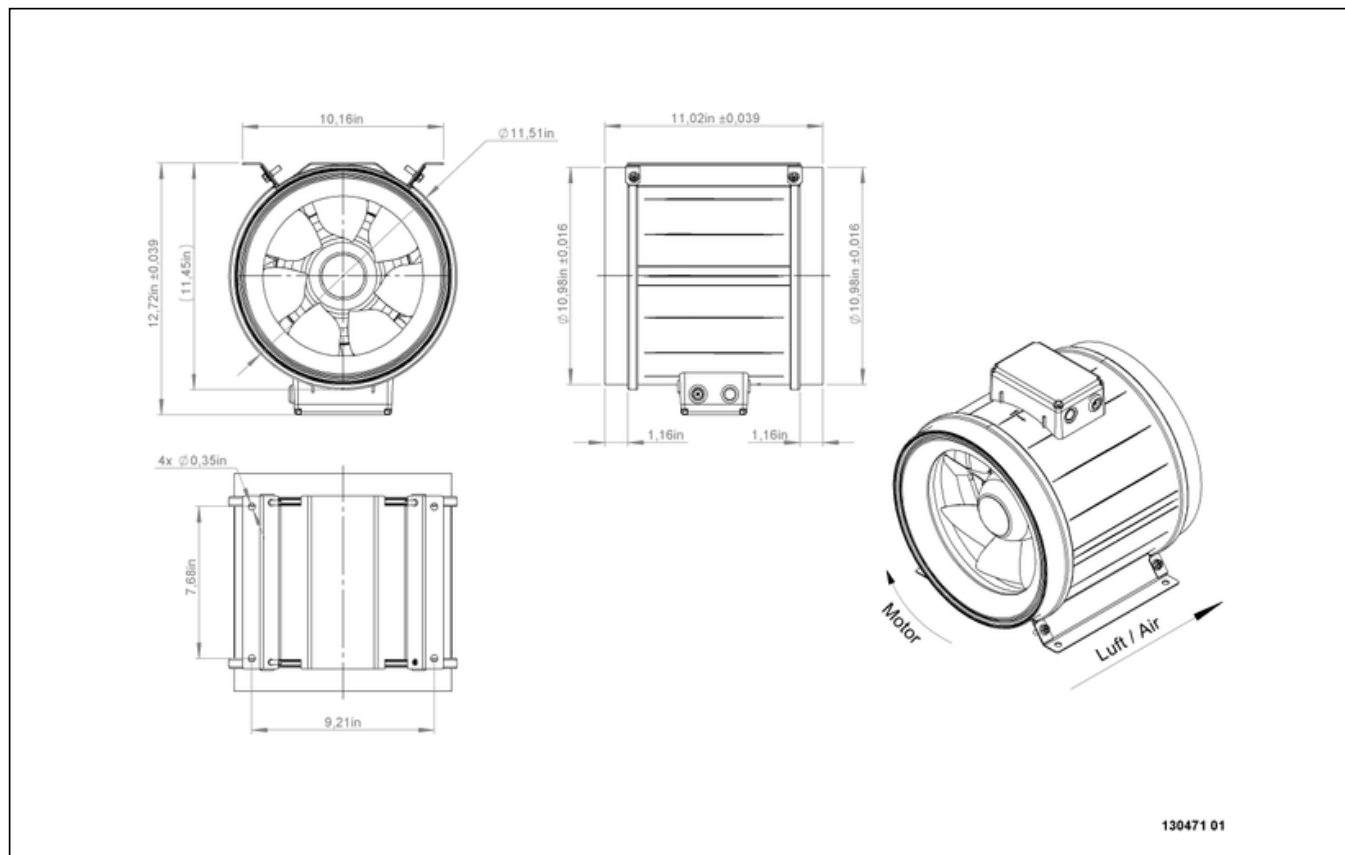
SMOKE EXTRACT DATA

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



to the product detail page

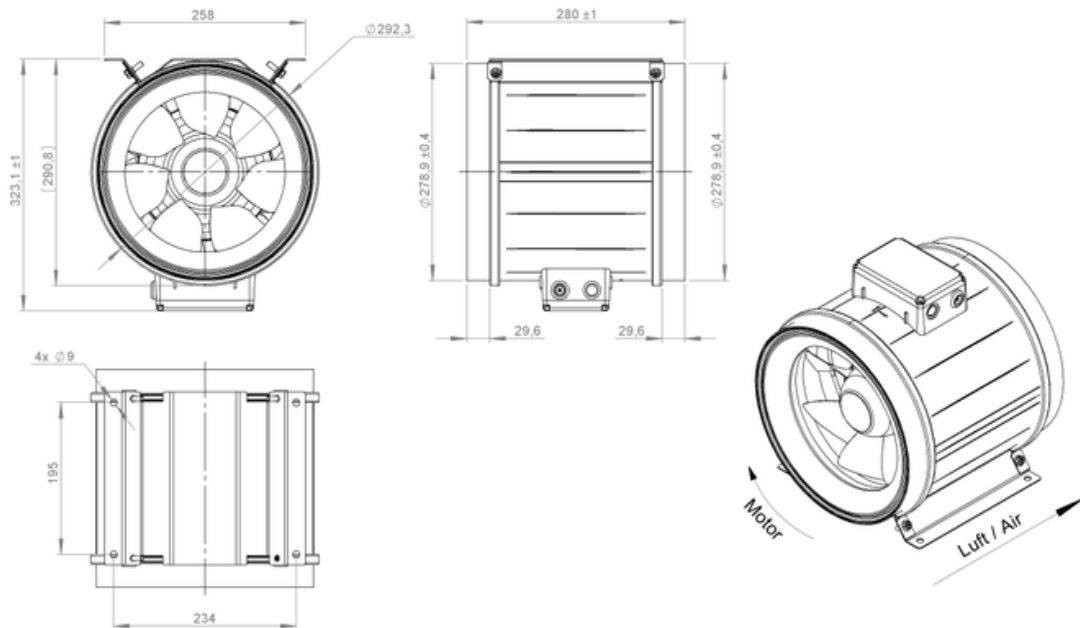
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



EM 280 E2M 01

130471

ruck



130471 01

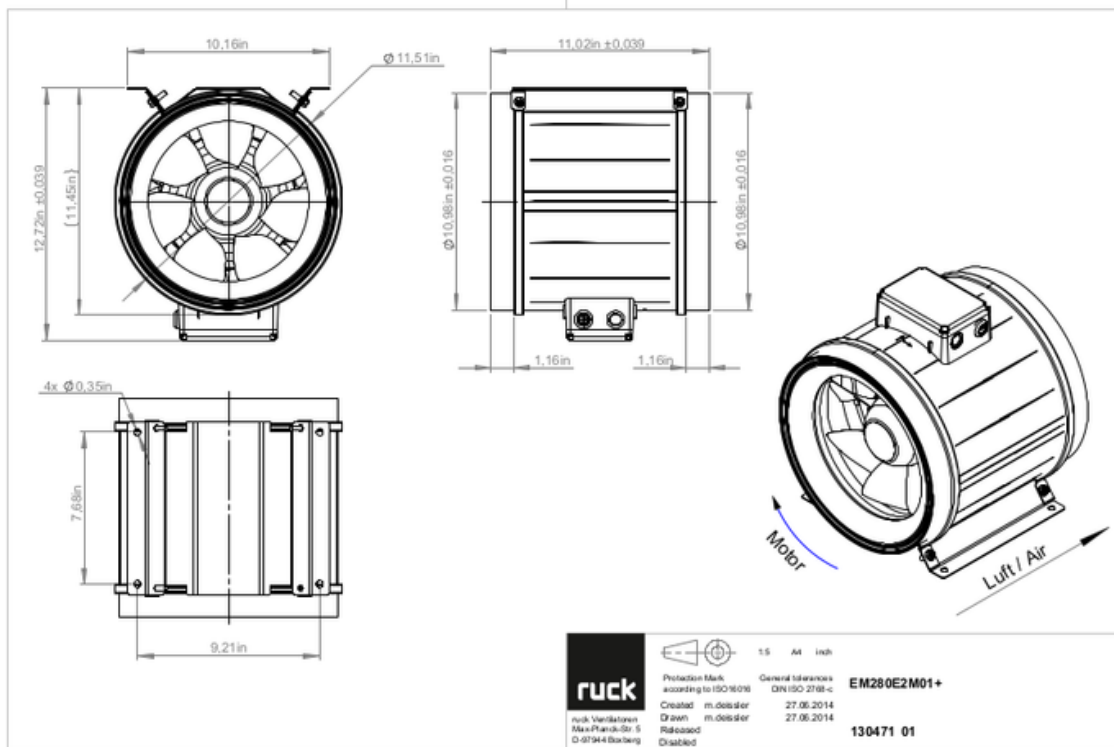


to the product detail page

EM 280 E2M 01

130471

ruck

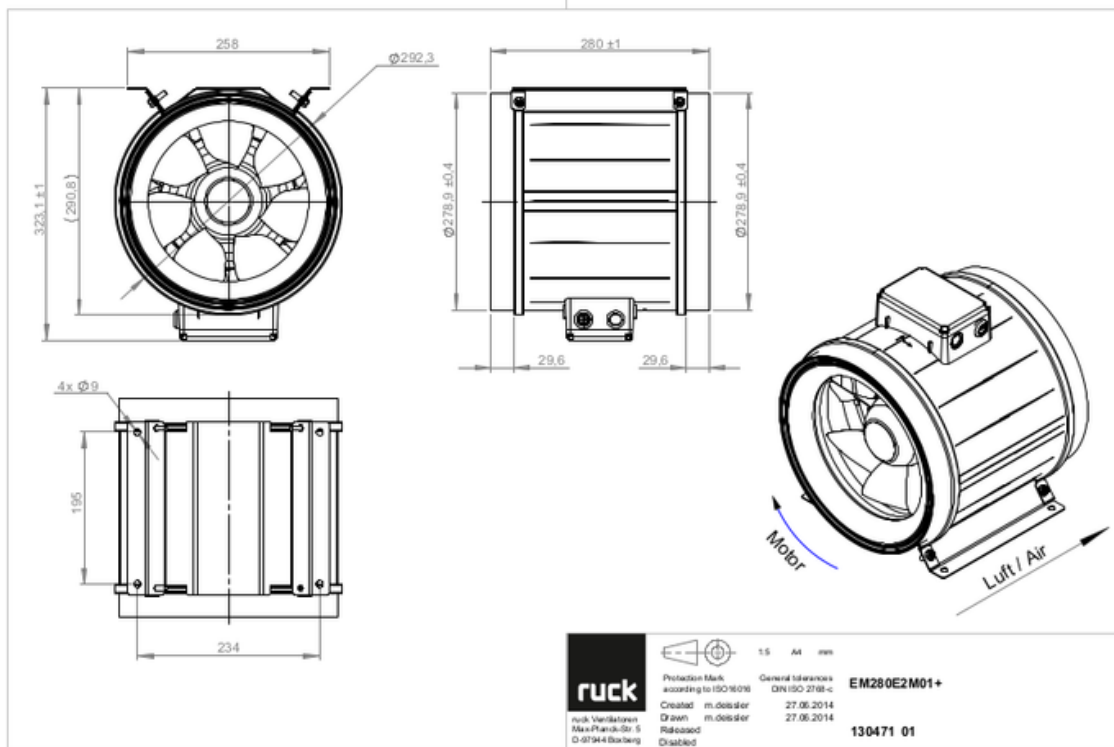


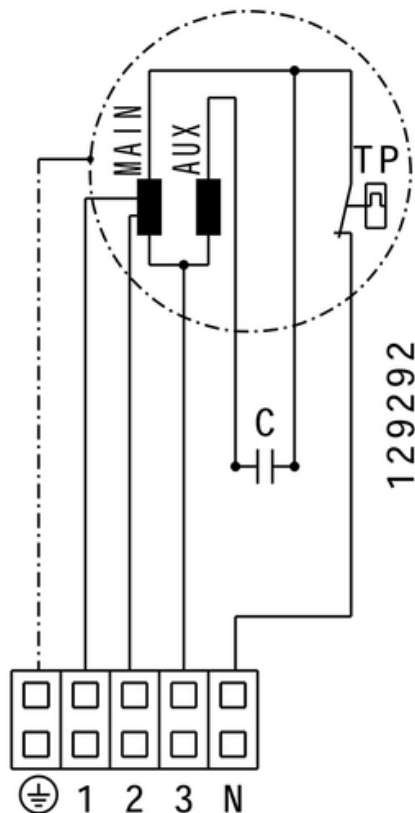
to the product detail page

EM 280 E2M 01

130471

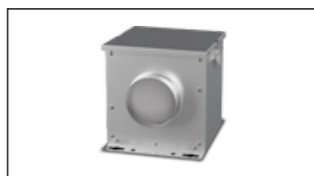
ruck





MECHANICAL ACCESSORIES

FV 280 | 159318



- Air filter box with mat filter ISO Coarse 45 % (G3)
- Toggle-type fastener
- Galvanized steel sheet
- Max. temp. 80 °C

FT 280 | 159361



- Air filter box for pocket filter
- Toggle-type fastener
- Galvanized steel sheet housing
- Without filter

FTW 280 | 159472



- Air filter box with pocket filter M5
- Integrated warm water heating coil
- Galvanized steel sheet housing
- Toggle-type fastener

VM 280 | 115494



- Fast clamps for sound decoupling and sealing
- Galvanized steel sheet, 5 mm Neopren gasket
- 1 Pack = 2 pieces

RSK 280 | 159252



- Back draught shutter for tube fitting
- Sheet steel, powder coated
- Aluminum flaps

RSK 280D | 159257



- Back draught shutter for tube fitting
- Sheet steel, powder coated
- Aluminum flaps
- Integrated gasket

SDF 280 | 172913



- Flexible tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm

SDS 280 | 169608



- Rigid tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm (mineral wool)



to the product detail page

ELECTRICAL ACCESSORIES

GS 03 | 107633



- Device switch
- $U_{max} = 400\text{ V}$, $I_{max} = 25\text{ A}$
- Switching capacity $400\text{ V } 3\sim = 7,5\text{ kW}$
- Protection class IP 55

MTS 10 | 128145



- 3-step switch
- Max. ambient temperature 50 °C
- Surface and flush mounting
- IP 44



to the product detail page