

EL 280 E2 02

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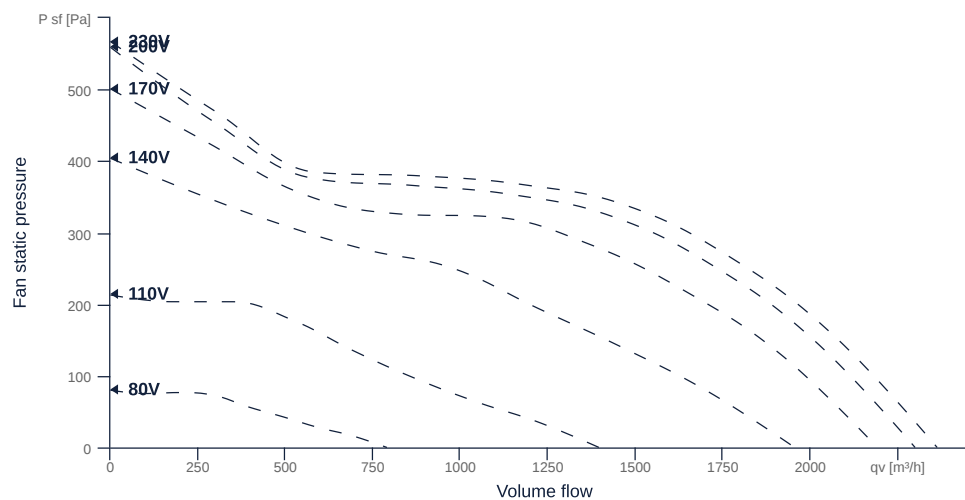
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- The benchmark for efficiency since 2007
- Robust single phase AC motor
- Conveyed medium temperature up to 55 °C in continuous operation
- Housing made of galvanized steel sheet



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)	DN280		DN
Rated voltage (entire device)	230	V	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Galvanized steel		mat _{casing}
Impeller material	Plastic		mat _{impeller}
IP-protection class (entire device)	IPX4		IP _{compl}
IP-Protection class (terminal box)	IP44		IP _{ebox}
Weight	8.65	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)	270	437	W	P _{ed, max}
Max. operating current (device)	1.64	2	A	I _{ed, max}
Max. speed	2905	3370	1/min	n _{max}
Max. stat. efficiency	50.8	46.3	%	η _{es}
Max. fan efficiency	55	50	%	η _e
Max. flowrate	2360	2710	m³/h	Q _{v, max}
Max. stat pressure	580	770	Pa	p _{st, max}
Max. medium temperature	55	60	°C	T _{m, max}
Max. environment temperature	55	60	°C	T _{amb, max}
Min. environment temperature	-25	-25	°C	T _{amb, min}
Min. voltage	80	230	V	U _{min}
Stall current	4.5	4.5	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		stepless-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TMI		protectmotor
Protection class		IP00		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Capacity capacitor		8	μF	Ccond
Voltage capacitor		450	V	VUcond
Number of poles (1)		2.000000		num polesw1
Rated voltage	230		V	Urated, f1
Shaft power	220		W	Pout, f1
Efficiency	71.7		%	ηm, f1
Efficiency class	IE3			IEmotor
Min. temperature	-25		°C	Tmotor, min
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2819	1/min	n _{opt}
Efficiency level	50.8	%	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.26	kW	P _{e, opt}
Overall efficiency	67.4	%	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	341	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	1457	m³/h	q _{v, opt}

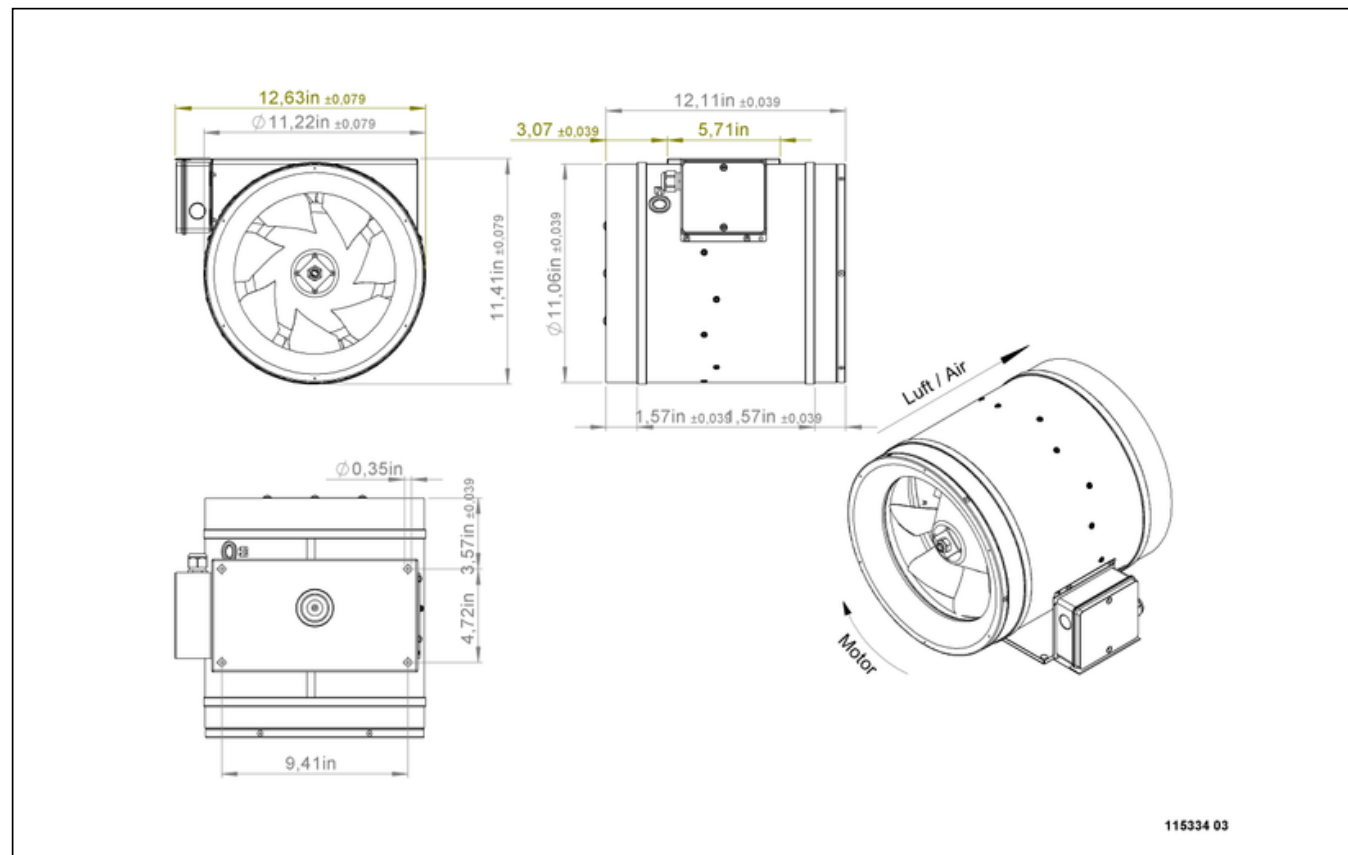
SMOKE EXTRACT DATA

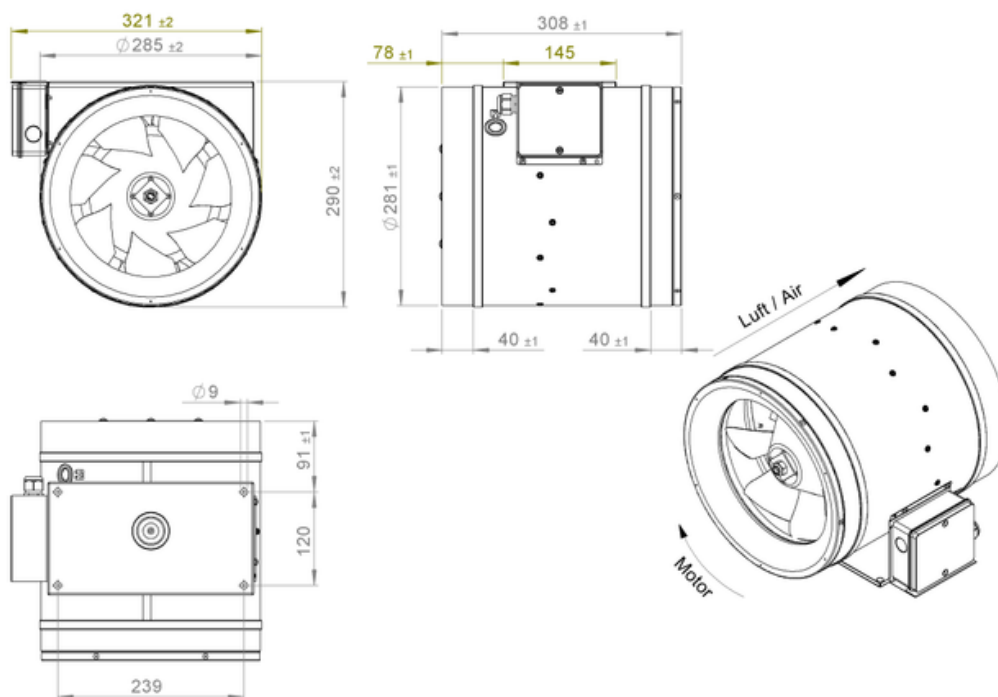
Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS





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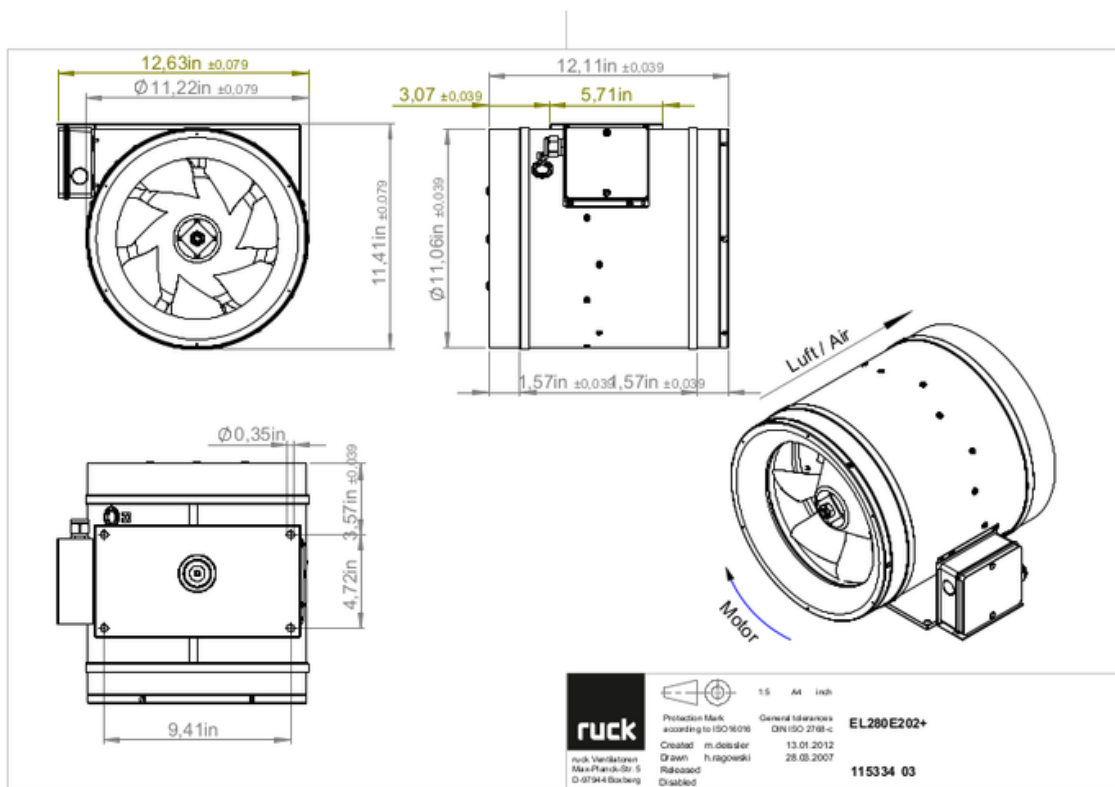


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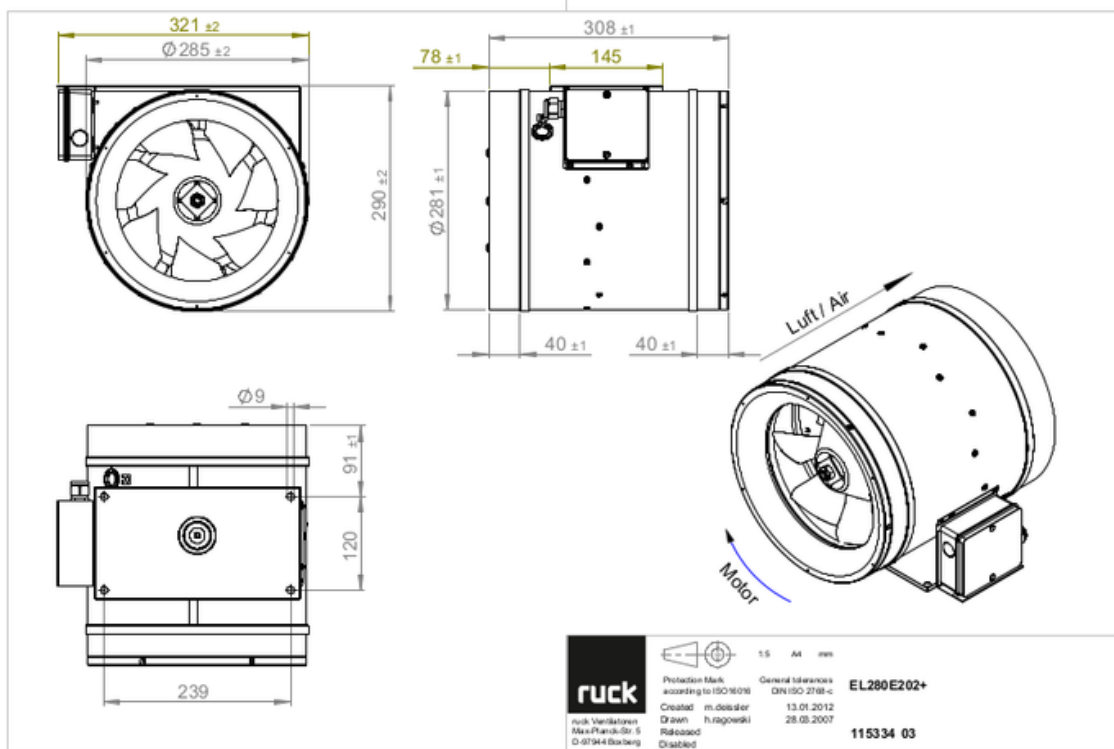


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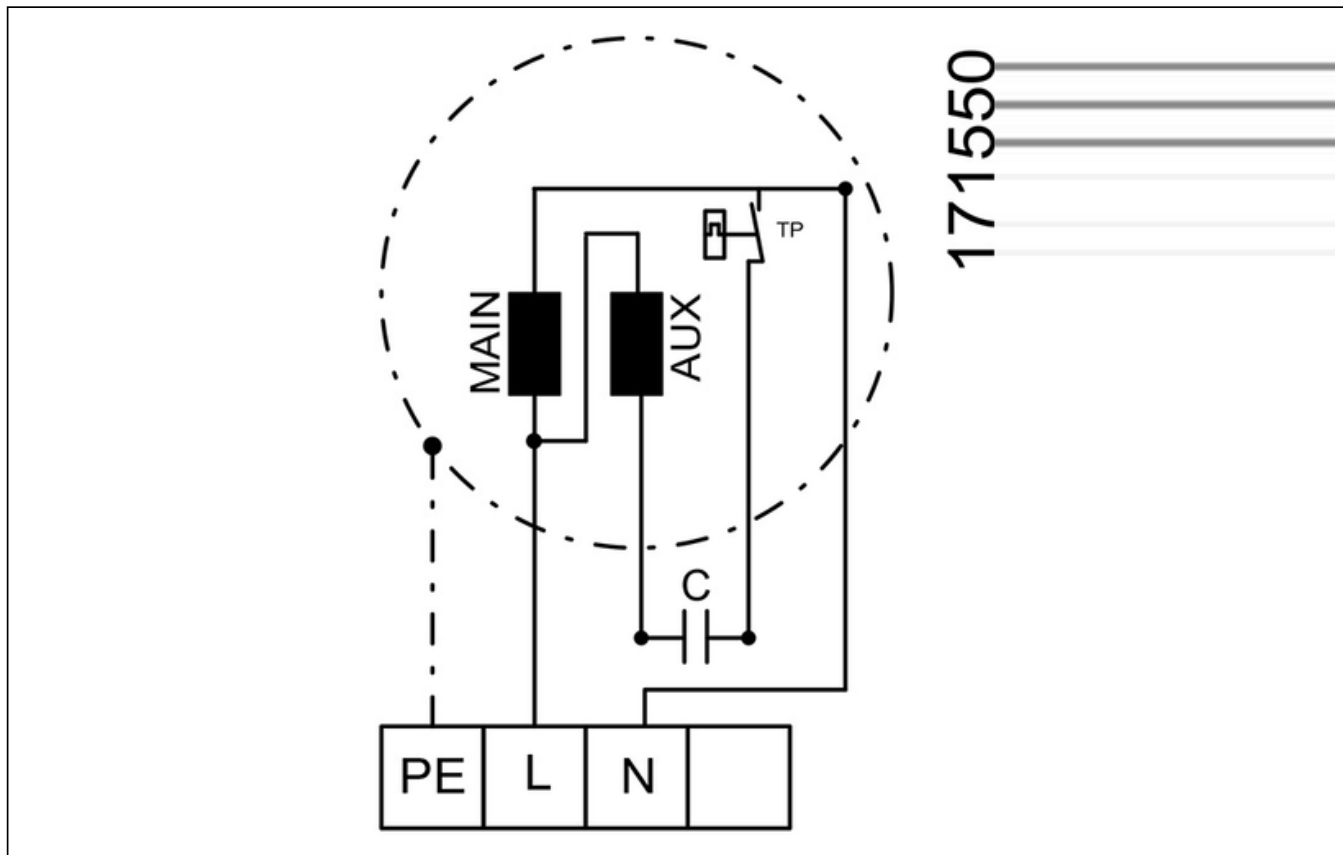
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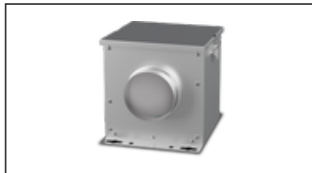


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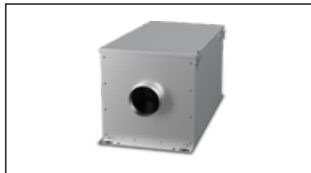
MECHANICAL ACCESSORIES

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



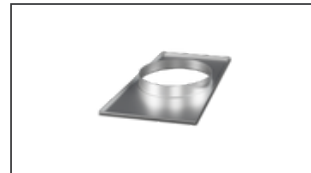
- Air filter box for pocket filter
- Toggle-type fastener
- Galvanized steel sheet housing
- Without filter

FTW 280 | 159472



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

UKR 5030 02 | 115193



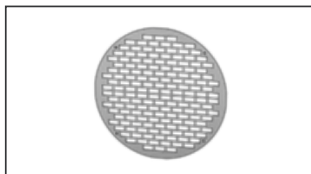
- Transition duct / tube
- Steel sheet, galvanized
- 500 x 300 mm / NW 280

VM 280 | 115494



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

SG 280 02 | 115066



- Inlet protection grille for Etaline
- Galvanized steel sheet

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)

ELECTRICAL ACCESSORIES

GS 01 | 102787



- Isolator switch
- Umax = 400 V, 50/60 Hz
- Switching capacity 400 V 3~ = 7,5 kW
- Imax = 25 A

TEM 035 | 103502



- 5-step transformer
- 230 V, 50/60 Hz, 3,5 A
- Output voltage: 230-190-170-140-110-80-0 V
- Protection class IP 54

TES 035 02 | 146195



- 5-step transformer
- 230 V, 50/60 Hz, 3,5 A
- Without housing, control cabinet installation
- Protection class IP 20



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