

EL 560 EC K 01

164051

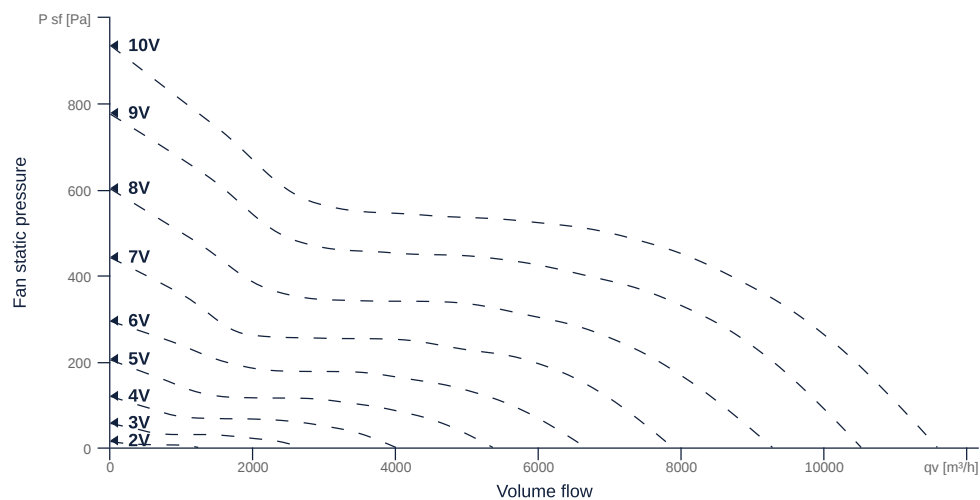
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- The benchmark for efficiency since 2007
- High efficiency EC motor, steplessly controllable
- Conveyed medium temperature up to 60 °C in continuous operation
- Housing made of aluminum



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)	DN560		DN
Rated voltage (entire device)	400	V	U_{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Aluminium		mat_{casing}
Impeller material	Aluminium		$mat_{impeller}$
IP-protection class (entire device)	IPX4		IP_{compl}
Weight	28.6	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)	1642	1642	W	$P_{ed, max}$
Max. operating current (device)	2.43	2.43	A	$I_{ed, max}$
Max. speed	1750	1750	1/min	n_{max}
Max. stat. efficiency	58.8	58.8	%	η_{es}
Max. fan efficiency	64.1	64.1	%	η_e
Max. flowrate	11580	11580	m ³ /h	Q_v, max
Max. stat pressure	940	940	Pa	$p_{sf, max}$
Max. medium temperature	60	60	°C	T_m, max
Max. environment temperature	60	60	°C	$T_{amb, max}$
Min. environment temperature	-20	-20	°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		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TEC		protectmotor
Protection class		IP55		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 3~		pwsupmotor
Rated voltage	400		V	U _{rated, f1}
Rated current	4.28		A	I _{rated, f1}
Shaft power	2200		W	P _{out, f1}
Speed	3000		1/min	n _{f1}
Efficiency	86.4		%	η _{m, f1}
Min. temperature	-20		°C	T _{motor, min}
Cos Phi	0.900000	0.000000		cos φ
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	1749	1/min	n _{opt}
Efficiency level	63.3	%	N
Efficiency category	statisch		cat _{efficiency}
Input power of the motor at the energy efficiency optimum	1.68	kW	P _{e, opt}
Overall efficiency	71.4	%	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	481	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	7436	m³/h	Q _{v, opt}

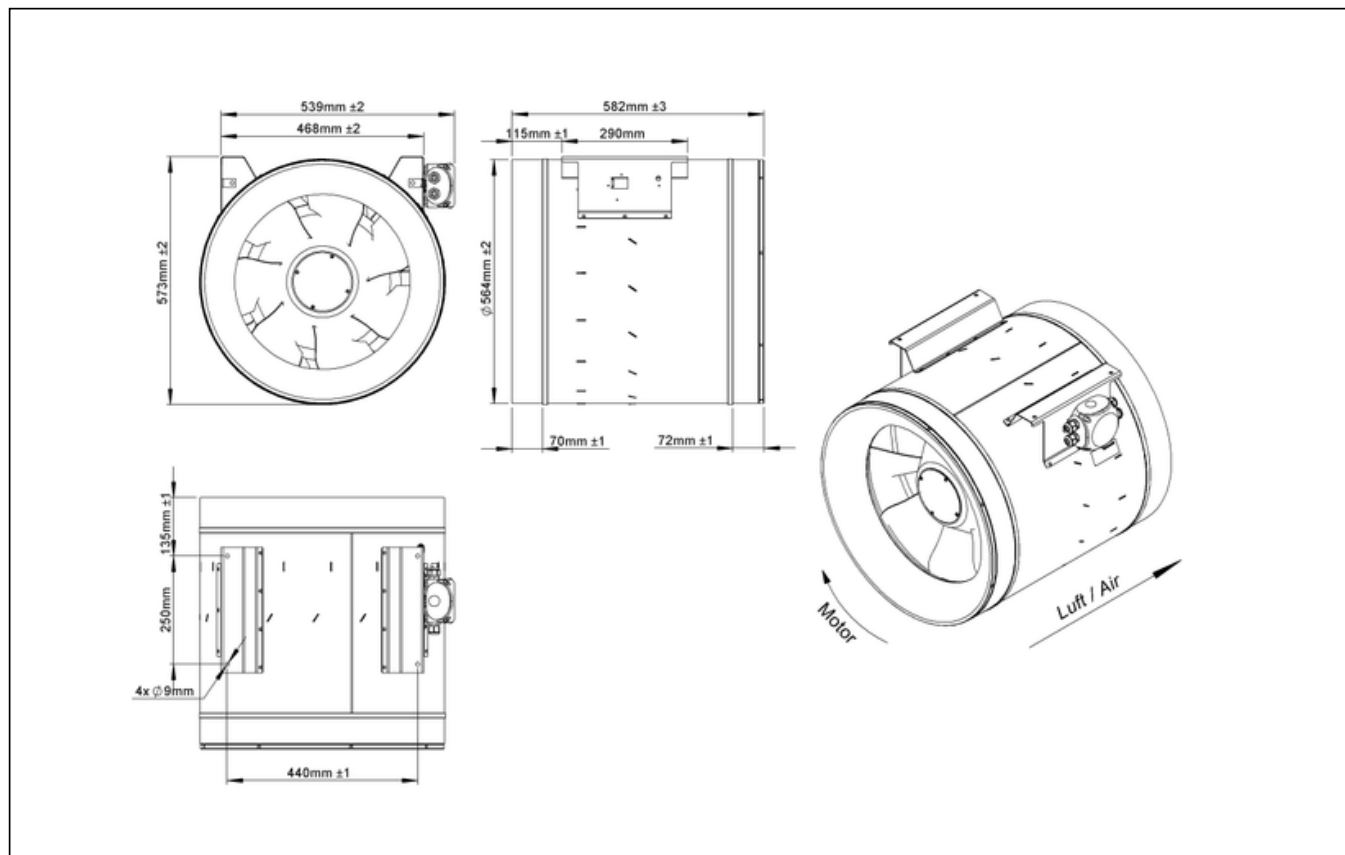
SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



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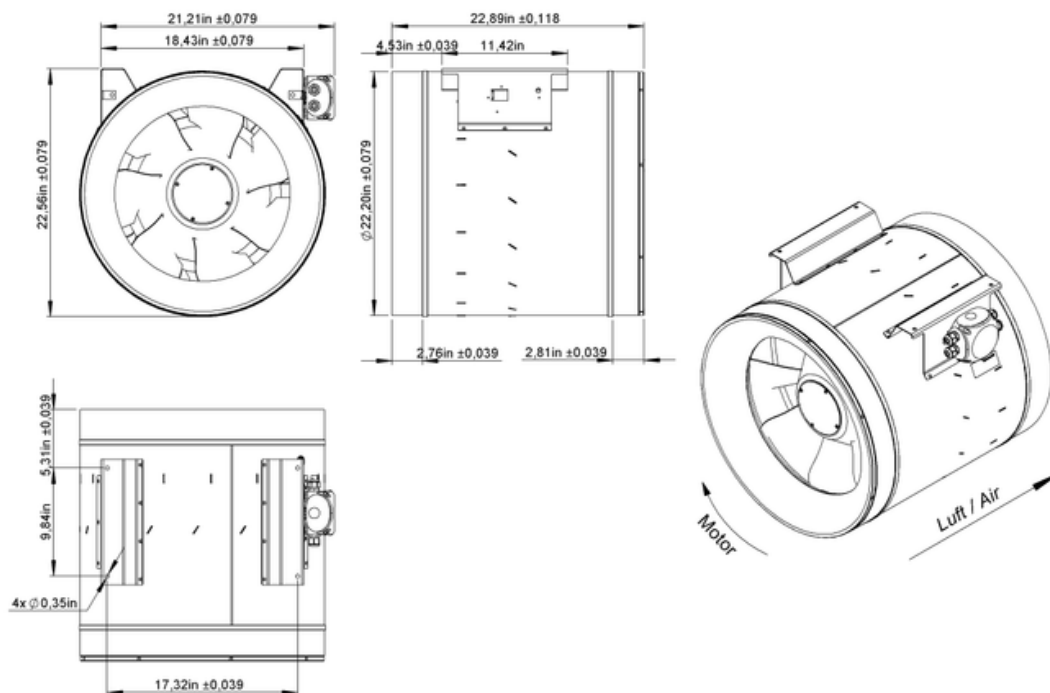
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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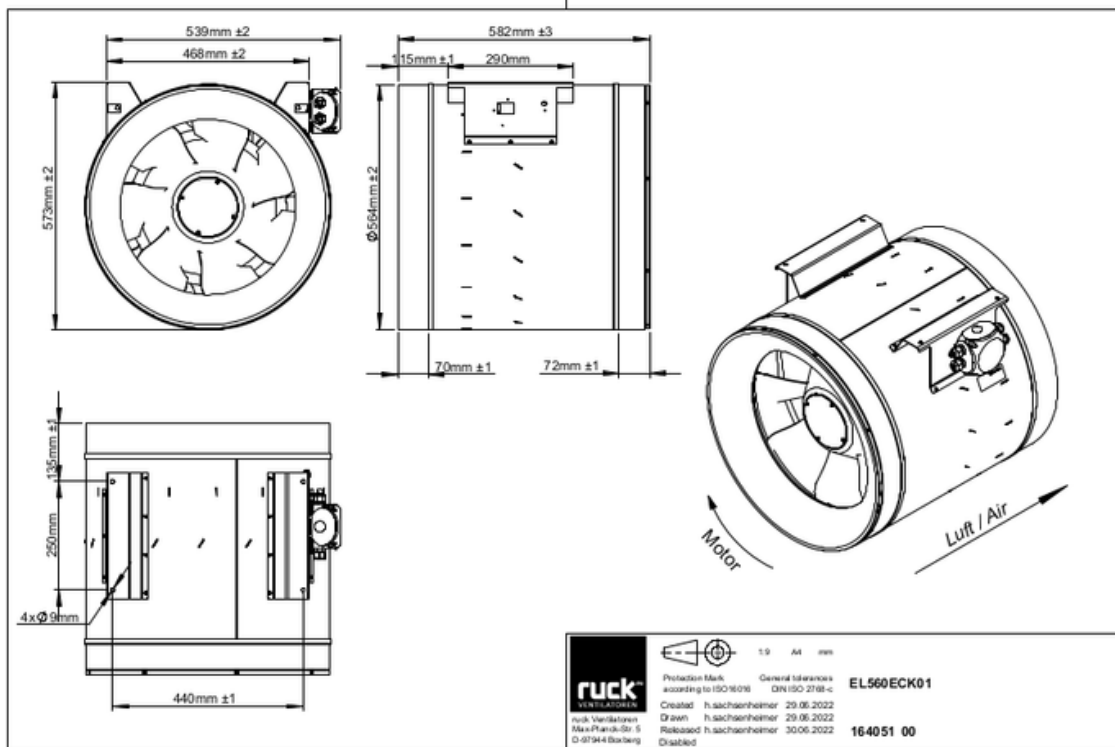


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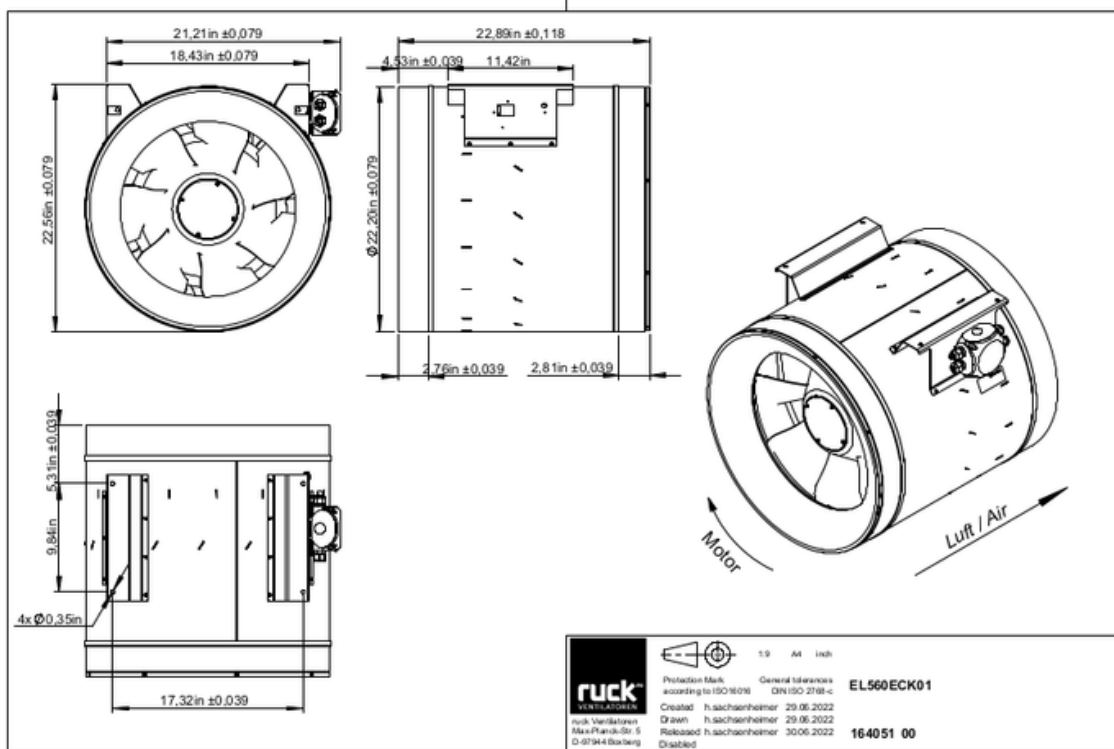
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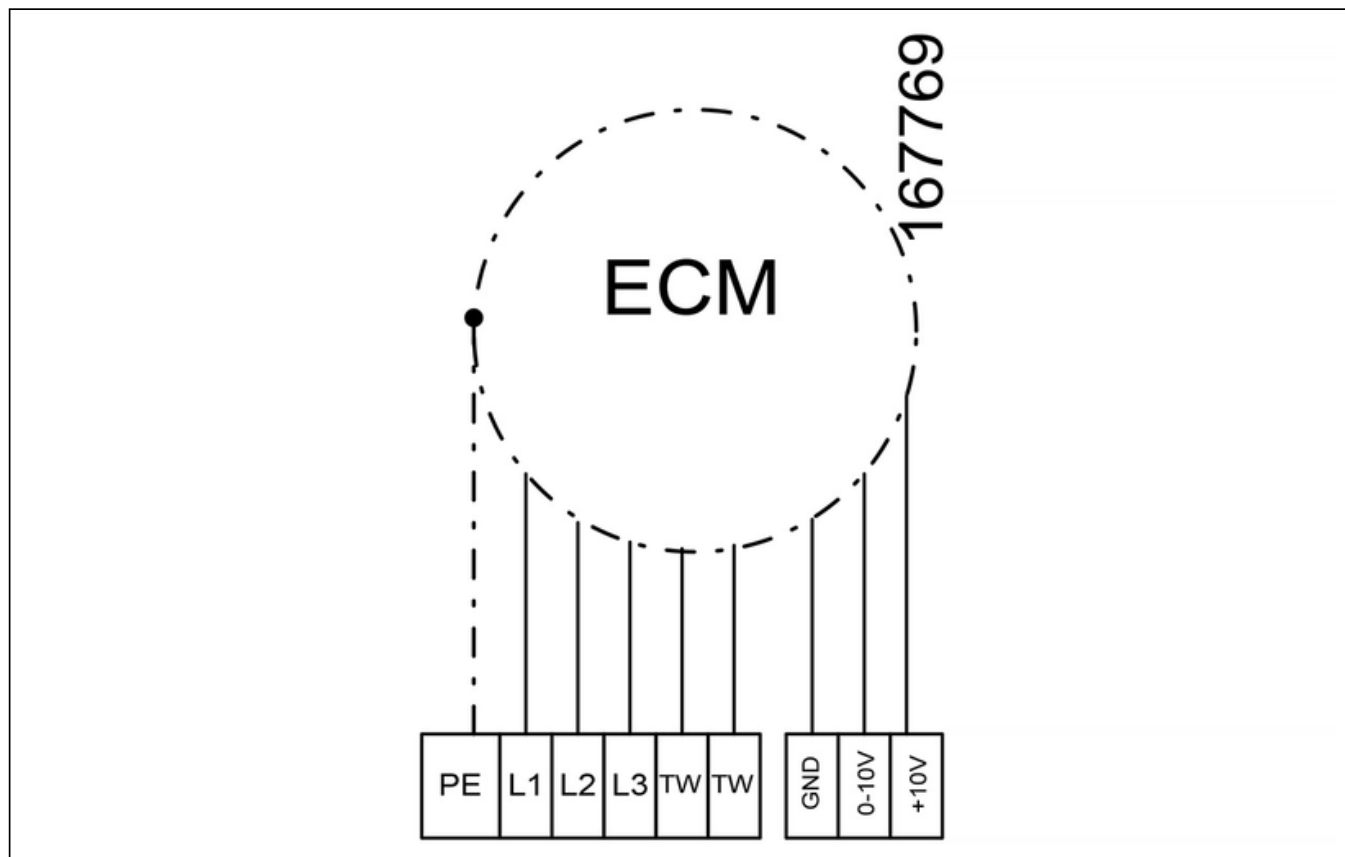


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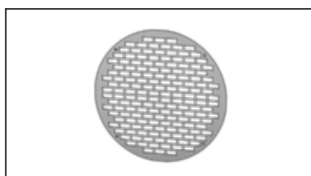
MECHANICAL ACCESSORIES

VM 560 | 119496



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

SG 560 02 | 119412



- Inlet protection grille for Etaline
- Galvanized steel sheet



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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

MTP 20 | 128146



- Potentiometer $10 \text{ k}\Omega$
- Switching contact $1\text{A}/250\text{V AC}$ - $2,5\text{A}/12\text{V DC}$
- Max. ambient temperature $50 \text{ }^{\circ}\text{C}$
- VDE

MTP 30 | 143289



- Stepped potentiometer $10 \text{ k}\Omega$
- Step 1 + 2 settable $10\% - 100\% \text{ Vdc}$
- Step 3 $100\% \text{ Vdc}$
- Supply voltage $+10 \text{ Vdc}$

MTP 40 | 147359



- Potentiometer $10 \text{ k}\Omega$
- Connection in terminal box
- Max. ambient temperature $50 \text{ }^{\circ}\text{C}$
- PU: 20 pieces

SEN AIR | 148641



- Airflow and temperature transducer
- Measuring range temperature $0...+50 \text{ }^{\circ}\text{C}$
- With adjustable switching threshold (air speed)
- Measuring range air velocity up to 20 m/s

CON P1000 | 115259



- Constant pressure control
- Actual value display possible via optional control unit
- Output $0-10 \text{ V DC}$ + FC enable + setpoint reached
- Pressure setting by means of decade switch

MTP 50 | 168752



- Potentiometer with multifunction output
- $230 \text{ VAC} \pm 10\% / 50-60 \text{ Hz}$
- Selectable output: $1-10 \text{ VDC} / 2-20 \text{ mA}$ / $10-100\% \text{ PWM}$
- Min. and max. output value adjustable

