

EL 710 EC K 01

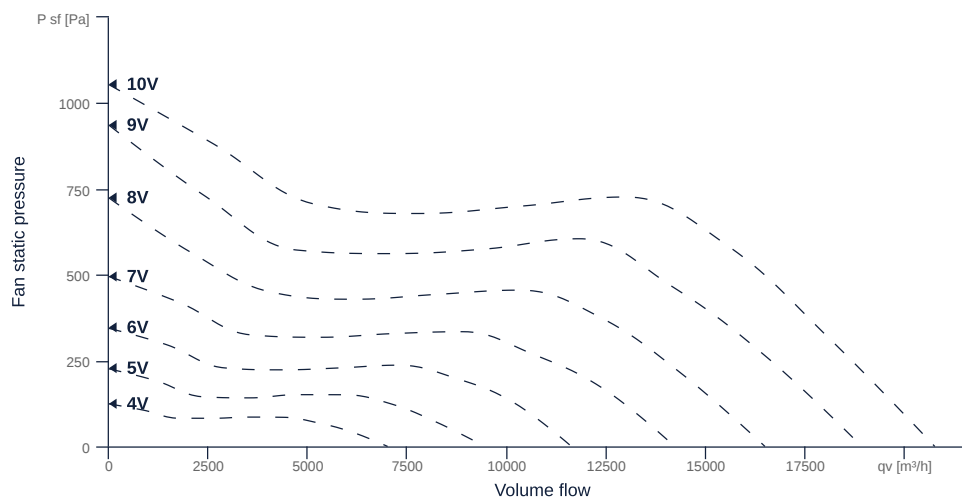
164850

- 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	-		WxHduct
Pipe connection size (DN)	DN710		DN
Rated voltage (entire device)	400	V	U _{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	10 A		fuse
Housing material	Aluminium		matcasing
Impeller material	Aluminium		matimpeller
IP-protection class (entire device)	IPX4		IPcompl
Weight	51.5	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)	3950	3950	W	P _{ed, max}
Max. operating current (device)	6	6	A	I _{ed, max}
Max. speed	1500	1500	1/min	n _{max}
Max. stat. efficiency	64.4	64.4	%	η _{es}
Max. fan efficiency	69.5	69.5	%	η _e
Max. flowrate	20750	20750	m ³ /h	Q _{v, max}
Max. stat pressure	1050	1050	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		protect _{motor}
Protection class		IP55		IP _{motor}
Is pole-changeable		No		polexch
Type of power supply		AC 3~		pwr _{sup} _{motor}
Rated voltage	400		V	U _{rated, f1}
Rated current	7.48		A	I _{rated, f1}
Shaft power	4000		W	P _{out, f1}
Speed	1500		1/min	n _{f1}
Efficiency	89.9		%	η _{m, f1}
Min. temperature	-20		°C	T _{motor, min}
UL-Certification motor		None		ULcert

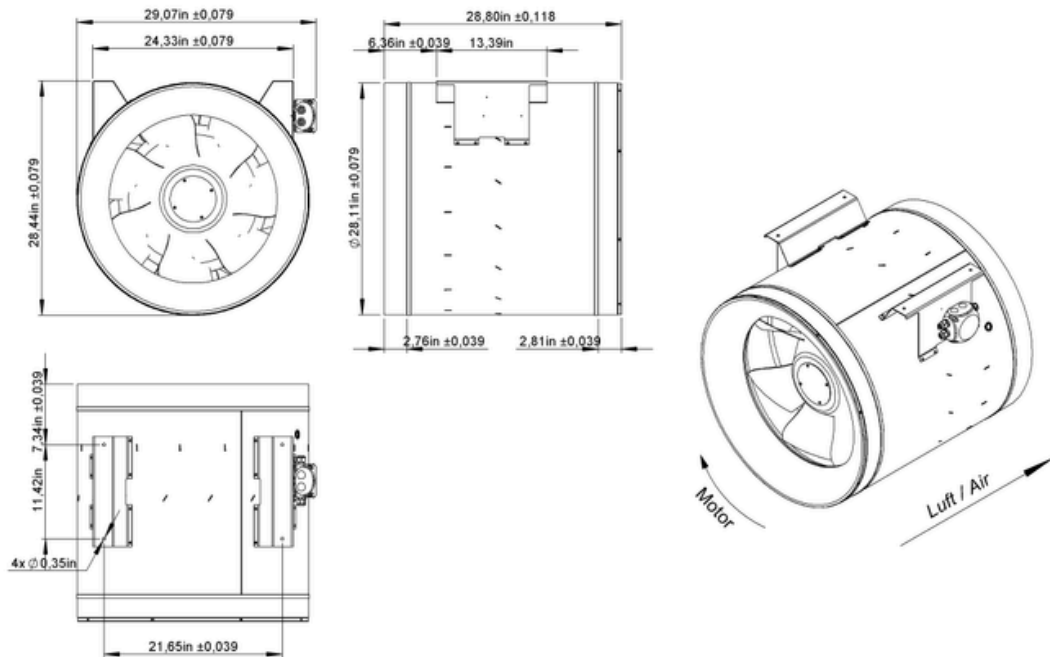
ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	1500	1/min	n _{opt}
Efficiency level	67.7	%	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	4.15	kW	P _{e, opt}
Overall efficiency	71.7	%	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	700	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	13830	m³/h	q _{v, opt}



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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



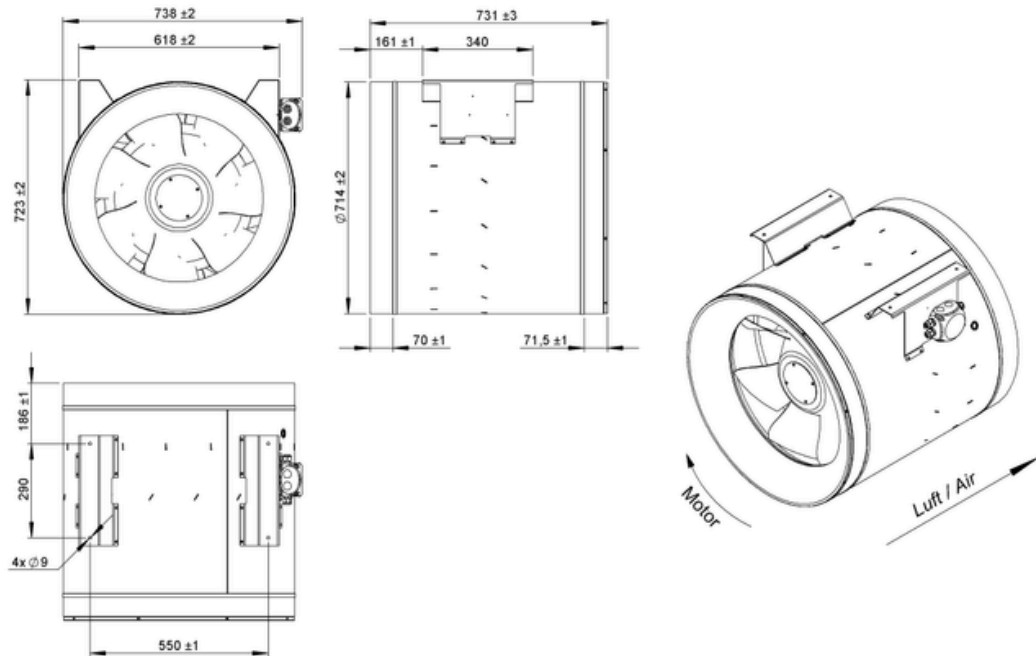
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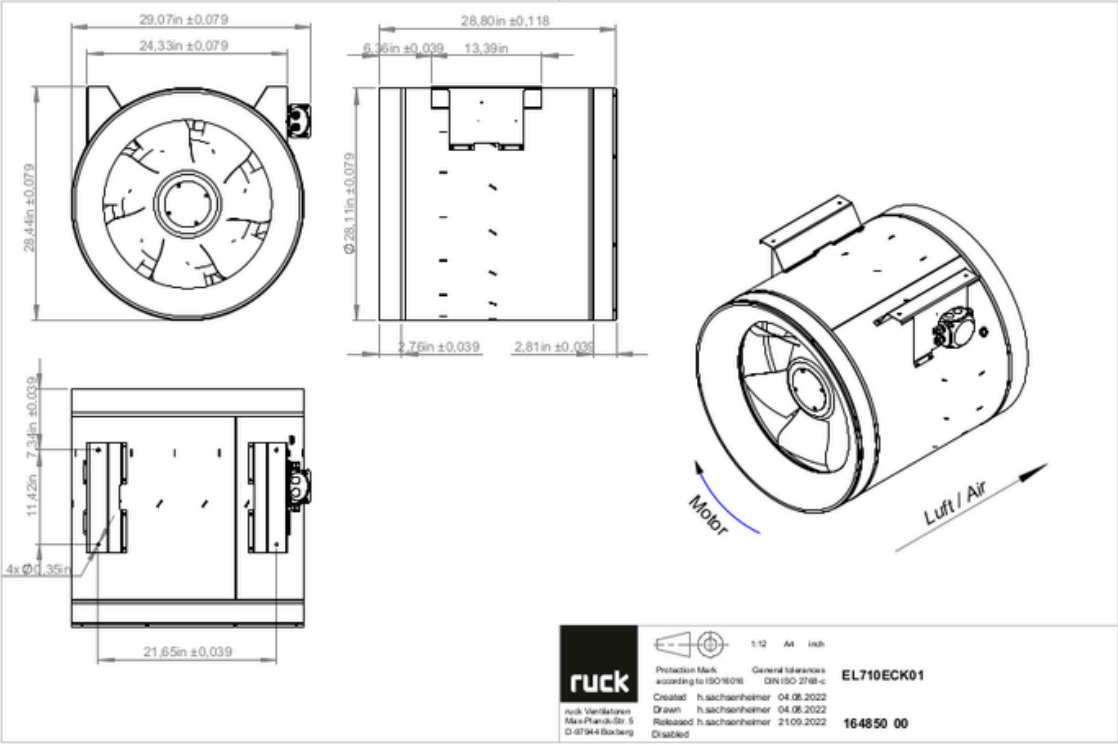


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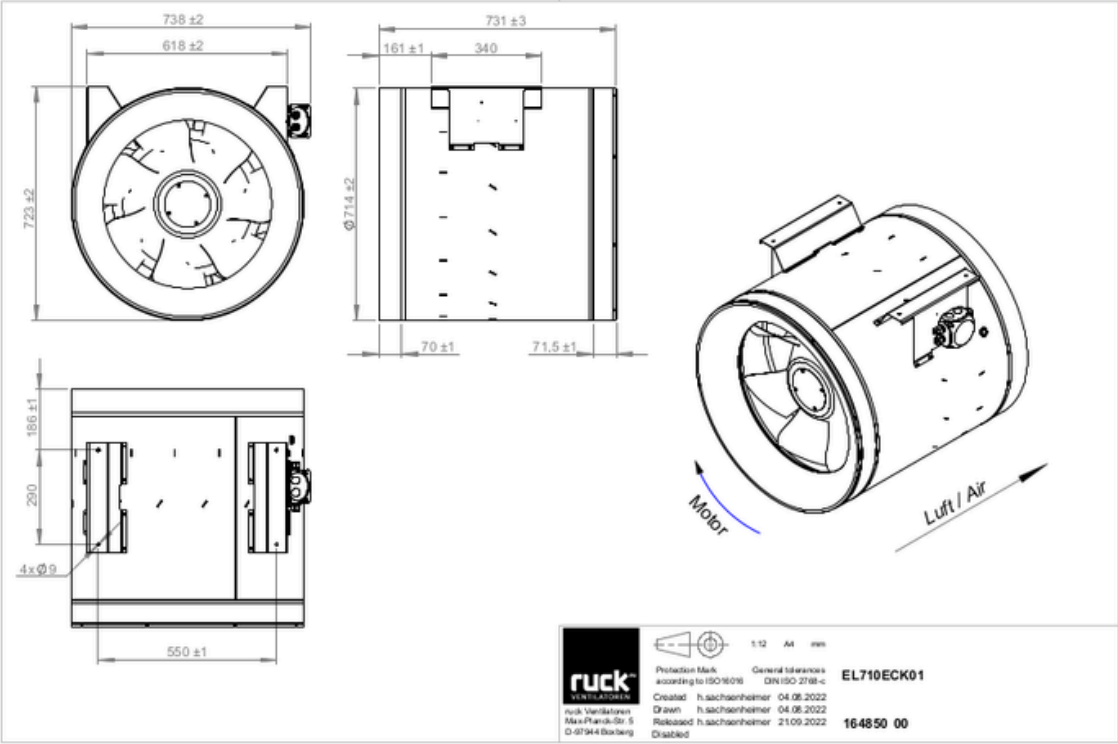
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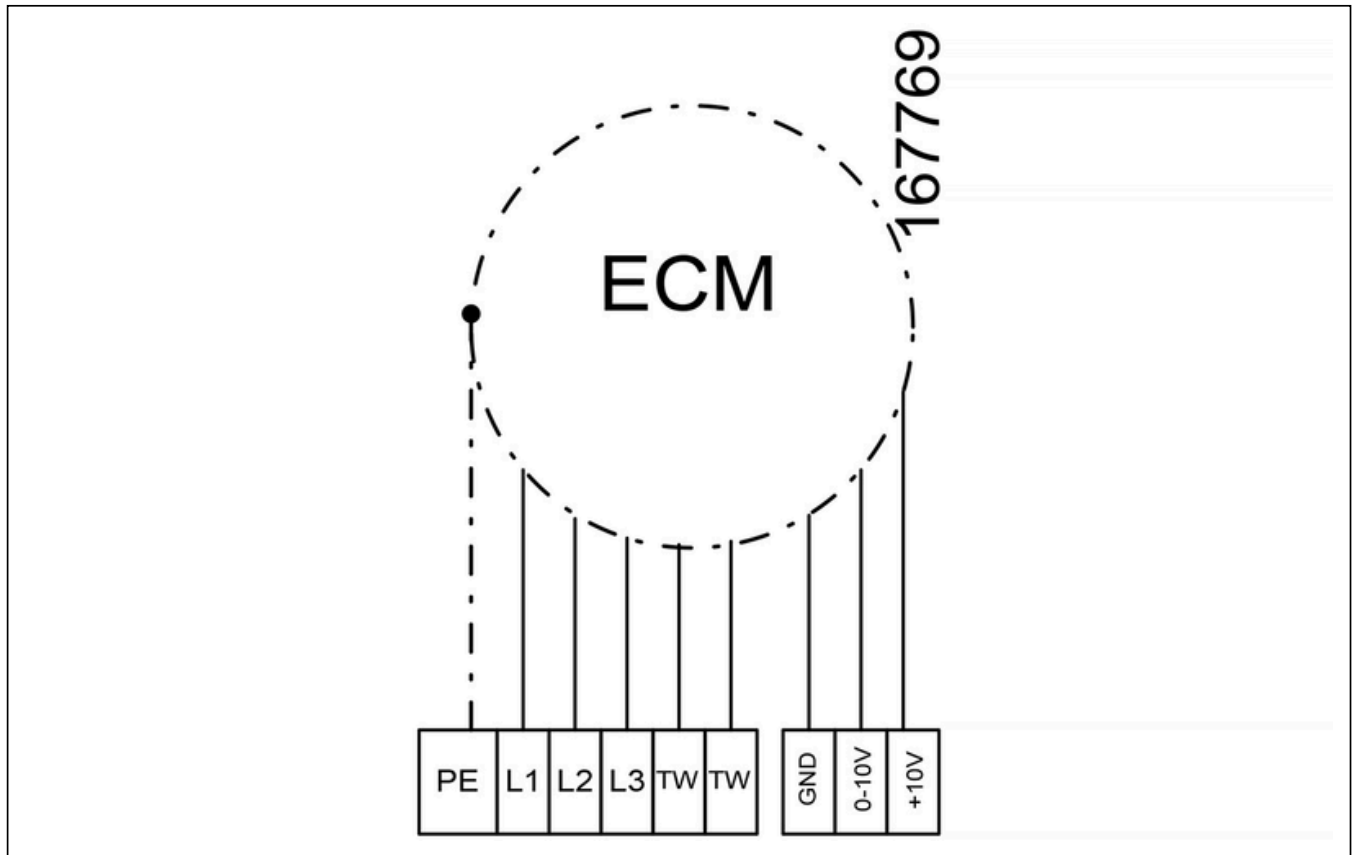
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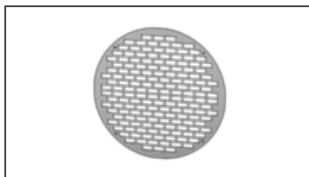
MECHANICAL ACCESSORIES

VM 710 | 119498



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

SG 710 02 | 119414



- Inlet protection grille for Etaline
- Galvanized steel sheet



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

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

