

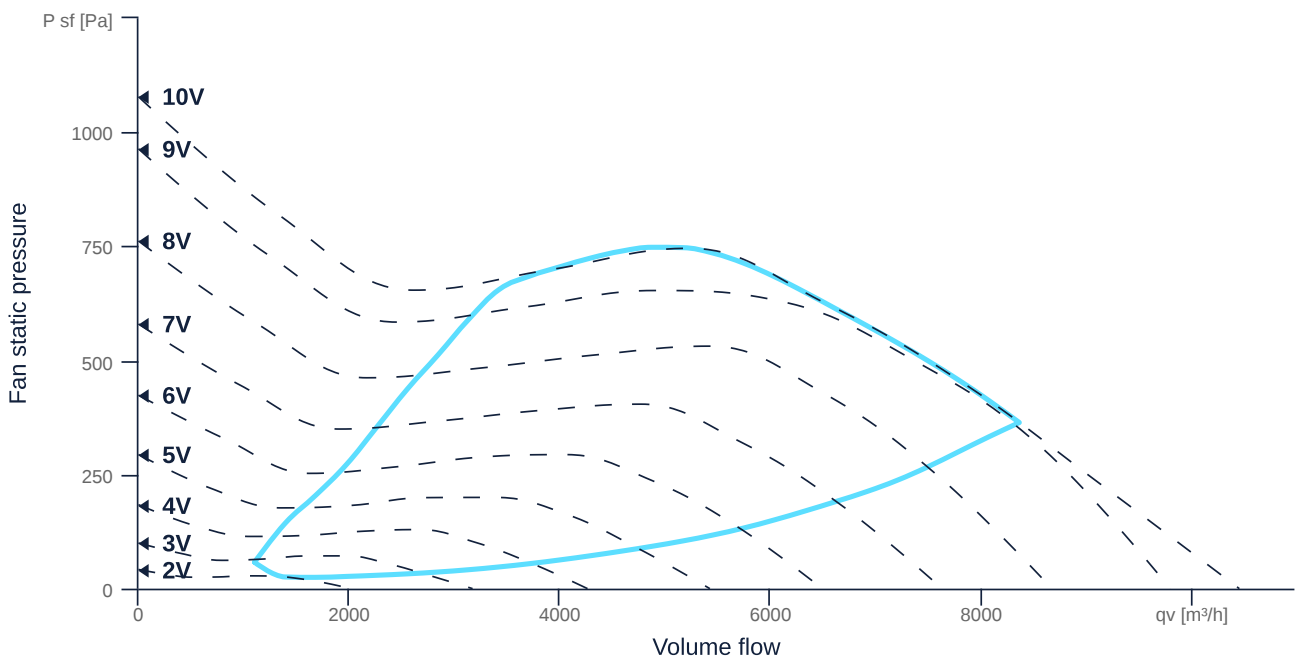
EL 500 EC O 01

164353

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



MAP



GENERAL DATA

Name	Value	Unit	Formula symbol
Duct size	-		WxH _{duct}
Pipe connection size (DN)	DN500		DN
Electrical protection (entire device)	6 A		fuse
Housing material	Aluminium		mat _{casing}
Impeller material	Aluminium		mat _{impeller}
Weight	18.6	kg	m
Fan type	Diagonal		Fan _{type}
Category / Installation situation	B		cat
Sound insulation	No		snd _{ins}
Rated voltage (entire device)	400	V	U _{rated}
Phases (entire device)	3~		phase



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MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	1844	1844	W	P _{ed, max}
Max. operating current (device)	2.84	2.84	A	I _{ed, max}
Max. speed	2130	2130	1/min	n _{max}
Max. stat. efficiency	63.4	63.4	%	η _{es}
Max. fan efficiency	67.8	67.8	%	η _e
Max. flowrate	10450	10450	m³/h	Q _{v, max}
Max. stat pressure	1080	1080	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}

MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)	50.000000			f
Motor type	EC			phase
Control type	stepless-controlled			ctrltype
Installation	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	5		A	I _{rated, f1}
Shaft power	2200		W	P _{out, f1}
Speed	3000		1/min	n _{f1}
Efficiency	88.9		%	η _{m, f1}
Cos Phi	0.000000	0.000000		cos φ

PRODUCT INFORMATION

Name	Value	Unit	Formula symbol
Category / Installation situation	B		cat
Fan type	Diagonal		Fan _{type}



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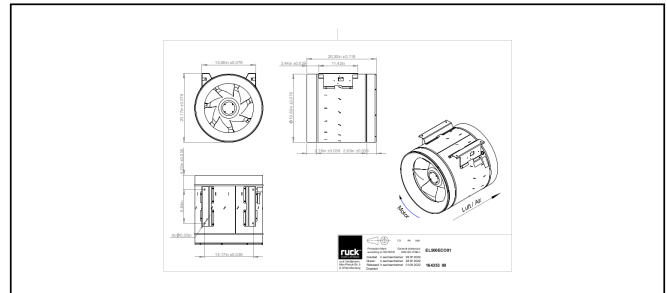
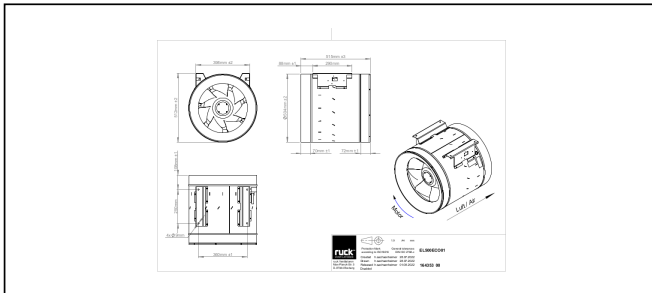
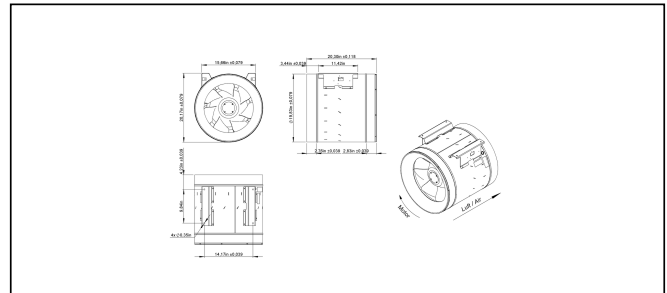
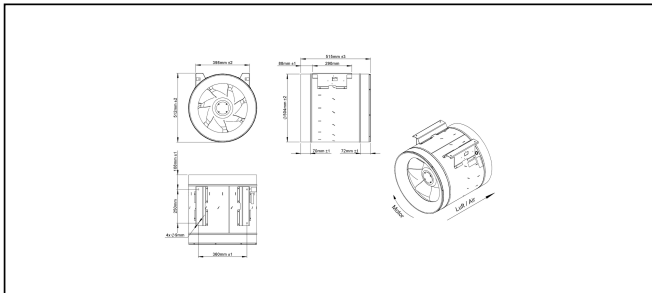
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ERP DATA

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	1965	1/min	n_{opt}
Efficiency level	72.5	%	N
Efficiency category	total		η_{ges}
Input power of the motor at the energy efficiency optimum	1.74	kW	$P_{e, opt}$
Overall efficiency	80.5	%	η_{ges}
Measurement category	B		meas cat
Fan pressure at optimum energy efficiency point	657	Pa	$p_{f, opt}$
Flowrate at energy efficiency optimum	6437	m ³ /h	$q_{v, opt}$

SCHALTPLÄNE / MASSZEICHNUNGEN



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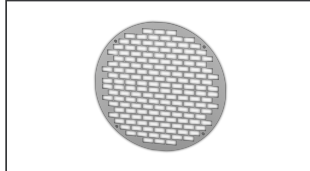
MECHANICAL ACCESSORIES

VM 500 | 118094



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

SG 500 02 | 119191



- Inlet protection grille for Etaline
- Galvanized steel sheet

SG 500 01 | 134286



- Protection grille for tube connection
- Galvanized wire

SDS 500 | 118834



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

CLIMASET 01 | 111314



- Climaset
- For differential pressure measurement

ELECTRICAL ACCESSORIES

GS 03 | 107633



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

MTP 20 | 128146



- Potentiometer 10 kΩ
- Switching contact 1A/250V AC - 2,5A/12V DC
- Max. ambient temperature 50 °C
- VDE

MTP 30 | 143289



- Stepped potentiometer 10 kΩ
- Step 1 + 2 settable 10 % - 100 % Vdc
- Step 3 100 % Vdc
- Supply voltage +10 Vdc

MTP 40 | 147359



- Potentiometer 10 kΩ
- Connection in terminal box
- Max. ambient temperature 50 °C
- PU: 20 pieces

CON P1000 | 115259



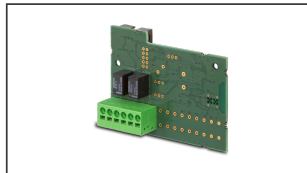
- Constant pressure control
- Actual value display possible via optional control unit
- Output 0-10 V DC + FC enable + setpoint reached
- Pressure setting by means of decade switch

SEN CO2 | 126586



- Sensor for variable volume flow control in meeting rooms
- Long-term stable 2-beam infrared cell
- 24 V AC ± 20 %, 15 - 35 V DC
- Protection class IP 30

OJ RM 02 | 141890



- Extension board Relais Modul
- For EC controller for alarm and operating message
- Electrical connection through 6 spring terminals (max. 2.5 mm²)
- Digital relay outputs: 2 potential-free changeover relays, max. 1 A, 30 V DC / 24 V AC

MTP 50 | 153133



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



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