

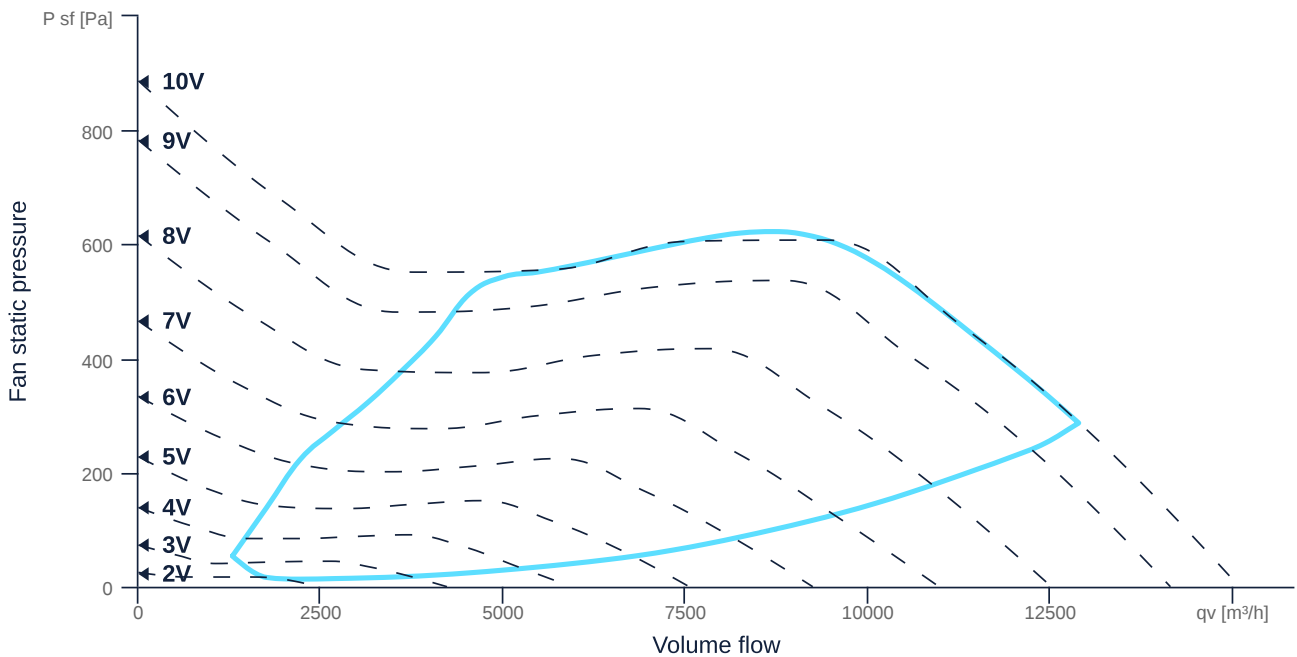
# EL 630 EC O 01

164218

- 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 50 °C in continuous operation
- Housing made of aluminum



## MAP



## GENERAL DATA

Name	Value	Unit	Formula symbol
Duct size	-		WxH <sub>duct</sub>
Pipe connection size (DN)	DN630		DN
Electrical protection (entire device)	20 A		fuse
Housing material	Aluminium		mat <sub>casing</sub>
Impeller material	Aluminium		mat <sub>impeller</sub>
Weight	36.2	kg	m
Fan type	Diagonal		Fan <sub>type</sub>
Category / Installation situation	B		cat
Sound insulation	No		snd <sub>ins</sub>
Rated voltage (entire device)	400.000000		U <sub>rated</sub>
Phases (entire device)	3~		phase



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## MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	2263	2263	W	P <sub>ed, max</sub>
Max. operating current (device)	3.5	3.5	A	I <sub>ed, max</sub>
Max. speed	1500	1500	1/min	n <sub>max</sub>
Max. stat. efficiency	67.5	67.5	%	η <sub>es</sub>
Max. fan efficiency	72.7	72.7	%	η <sub>e</sub>
Max. flowrate	15090	15090	m³/h	Q <sub>v, max</sub>
Max. stat pressure	890	890	Pa	p <sub>sf, max</sub>
Max. medium temperature	60	60	°C	T <sub>m, max</sub>
Max. environment temperature	60	60	°C	T <sub>amb, max</sub>
Min. environment temperature	-20	-20	°C	T <sub>amb, min</sub>

## 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 <sub>motor</sub>
Protection class	IP55			IP <sub>motor</sub>
Is pole-changeable	No			polexch
Type of power supply	AC 3~			pwr <sub>sup</sub> <sub>motor</sub>
Rated voltage	400		V	U <sub>rated, f1</sub>
Rated current	5		A	I <sub>rated, f1</sub>
Shaft power	2200		W	P <sub>out, f1</sub>
Speed	1500		1/min	n <sub>f1</sub>
Efficiency	90.2		%	η <sub>m, f1</sub>
Cos Phi	0.000000	0.000000		cos φ

## PRODUCT INFORMATION

Name	Value	Unit	Formula symbol
Category / Installation situation	B		cat
Fan type	Diagonal		Fan <sub>type</sub>



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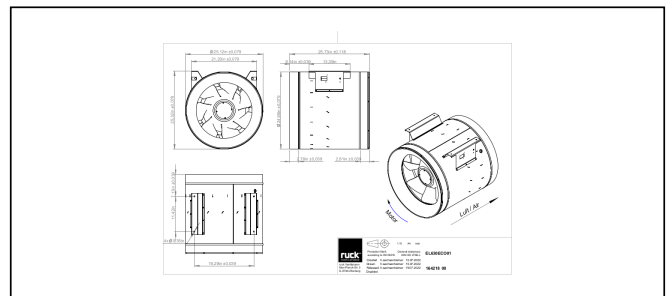
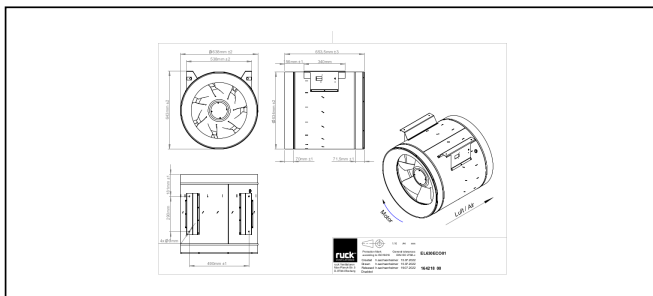
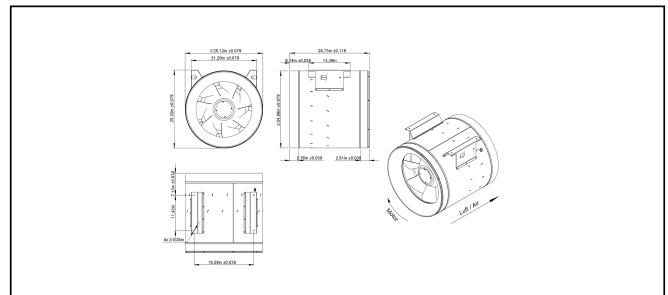
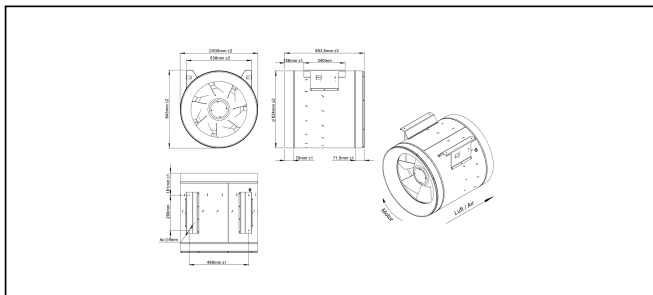
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## ERP DATA

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	1497	1/min	$n_{opt}$
Efficiency level	77.3	%	N
Efficiency category	total		$\eta_{total}$
Input power of the motor at the energy efficiency optimum	2.25	kW	$P_{e, opt}$
Overall efficiency	84.1	%	$\eta_{ges}$
Measurement category	B		meas cat
Fan pressure at optimum energy efficiency point	583	Pa	$p_{f, opt}$
Flowrate at energy efficiency optimum	10134	m <sup>3</sup> /h	$Q_{v, opt}$

## SCHALTPLÄNE / MASSZEICHNUNGEN



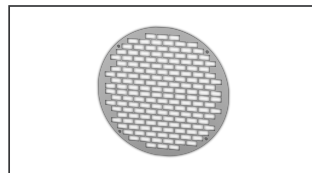
## MECHANICAL ACCESSORIES

### VM 630 | 119497



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

### SG 630 02 | 119413



- Inlet protection grille for Etaline
- Galvanized steel sheet

### CLIMASET 01 | 111314



- Climaset
- For differential pressure measurement

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## ELECTRICAL ACCESSORIES

GS 03 | 107633



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



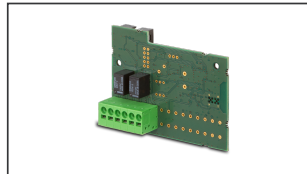
- Constant pressure control
- Actual value display possible via optional control unit
- Output  $0\text{-}10\text{ V DC}$  + FC enable + setpoint reached
- Pressure setting by means of decade switch

SEN CO2 | 126586



- Sensor for variable volume flow control in meeting rooms
- Long-term stable 2-beam infrared cell
- $24\text{ V AC} \pm 20\%$ ,  $15 - 35\text{ V DC}$
- 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.  $2,5\text{ mm}^2$ )
- Digital relay outputs: 2 potential-free changeover relays, max.  $1\text{ A}$ ,  $30\text{ V DC}$  /  $24\text{ V AC}$

MTP 50 | 153133



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

