

# KVR 10050 EC 30

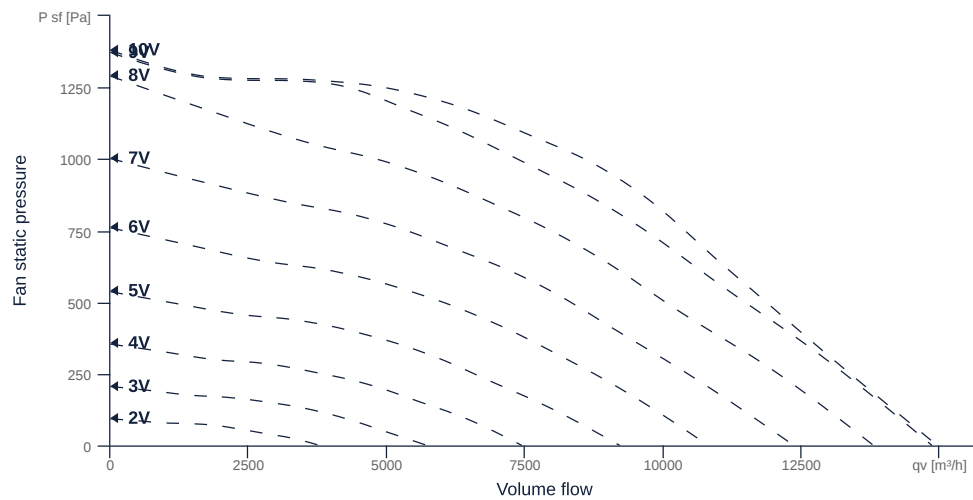
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- Backward curved radial impeller
- Removable fan unit
- Housing made of galvanized sheet steel
- High efficiency EC motor, steplessly controllable
- Conveyed medium temperature up to 60 °C in continuous operation



## MAP

Name	Value	Unit
Volume flow	0	m³/h
Pressure	0	Pa



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**ruck**

## GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	1000x500		WxH <sub>duct</sub>
Pipe connection size (DN)	-		DN
Rated voltage (entire device)	400	V	U <sub>rated</sub>
Phases (entire device)	3~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Galvanized steel		mat <sub>casing</sub>
Impeller material	Plastic		mat <sub>impeller</sub>
Weight	66	kg	m
Nominal air flow rate, nominal point m <sup>3</sup> /h	7441.2	m <sup>3</sup> /h	q <sub>v,nom</sub>
Nominal external pressure, static	691.6	Pa	p <sub>s,nom</sub>
Fan type	Radial		Fan <sub>type</sub>
Category / Installation situation	A		cat

## ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m <sup>3</sup> /s	2.07	m <sup>3</sup> /s	q <sub>v,nom</sub>
Actual electrical input power, nominal point	2.08	kW	P <sub>e,nom</sub>
Face velocity, nominal point	4.1	m/s	v <sub>nom</sub>
Nominal external pressure, static	691.6	Pa	p <sub>s,nom</sub>
supply air fan static efficiency, nominal point	67.7	%	η <sub>es,SUP</sub>
Enclosure sound level, nominal point	84	dB(A)	L <sub>WA2</sub>
Rating	Product is compliant 2018		

## MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	3490	3490	W	P <sub>ed, max</sub>
Max. operating current (device)	5.31	5.31	A	I <sub>ed, max</sub>
Max. speed	1790	1790	1/min	n <sub>max</sub>
Max. stat. efficiency	64.3	64.3	%	η <sub>es</sub>
Max. fan efficiency	65.3	65.3	%	η <sub>e</sub>
Max. flowrate	14960	14960	m <sup>3</sup> /h	q <sub>v, max</sub>
Max. stat pressure	1380	1380	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	-30	-30	°C	T <sub>amb, min</sub>



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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		ORM (Out)		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~		pwrsupmotor
Rated voltage	400		V	U <sub>rated, f1</sub>
Rated current	5.4		A	I <sub>rated, f1</sub>
Shaft power	3500		W	P <sub>out, f1</sub>
Speed	1750		1/min	n <sub>f1</sub>
Min. temperature	-40		°C	T <sub>motor, min</sub>
UL-Certification motor		UL recognized		ULcert

## SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass

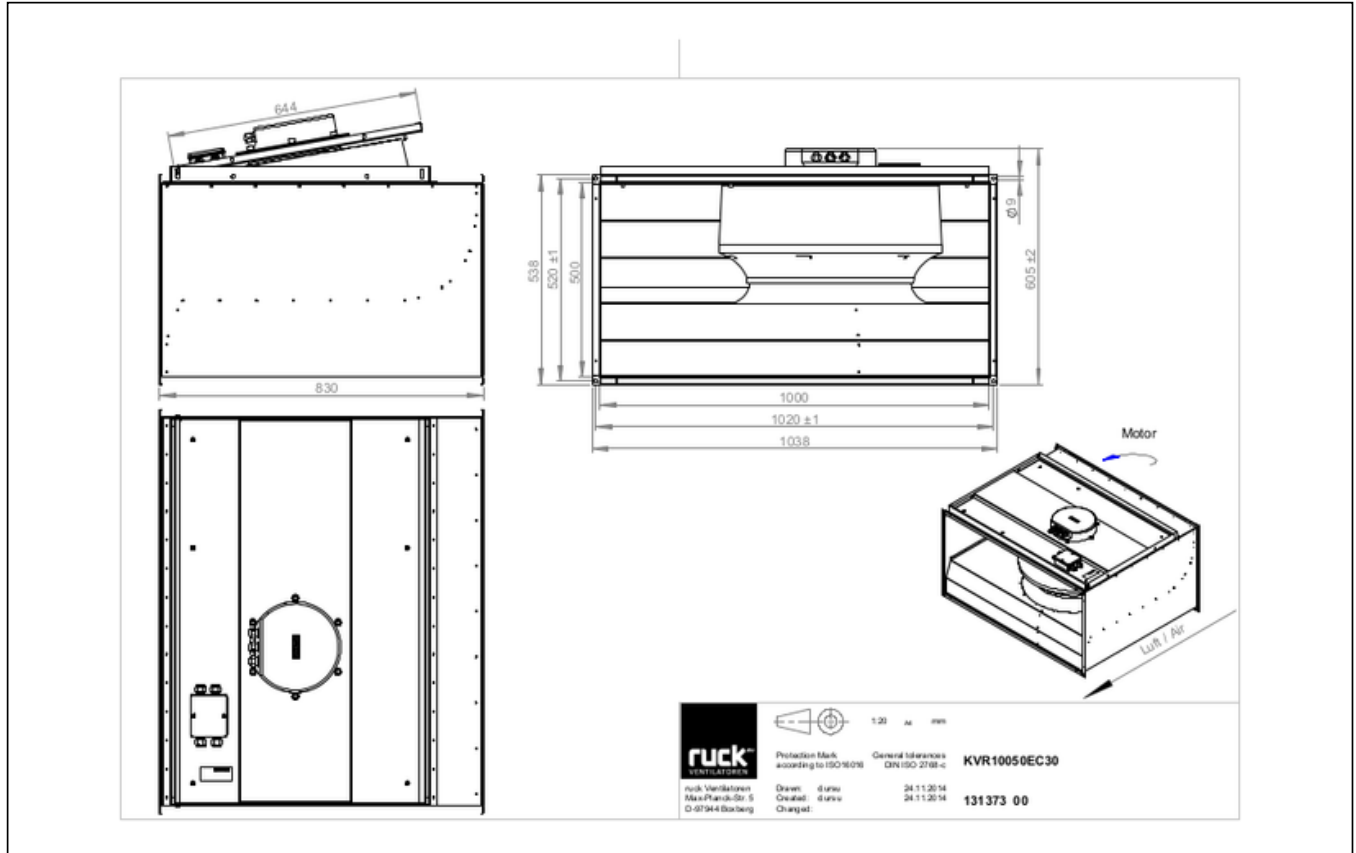


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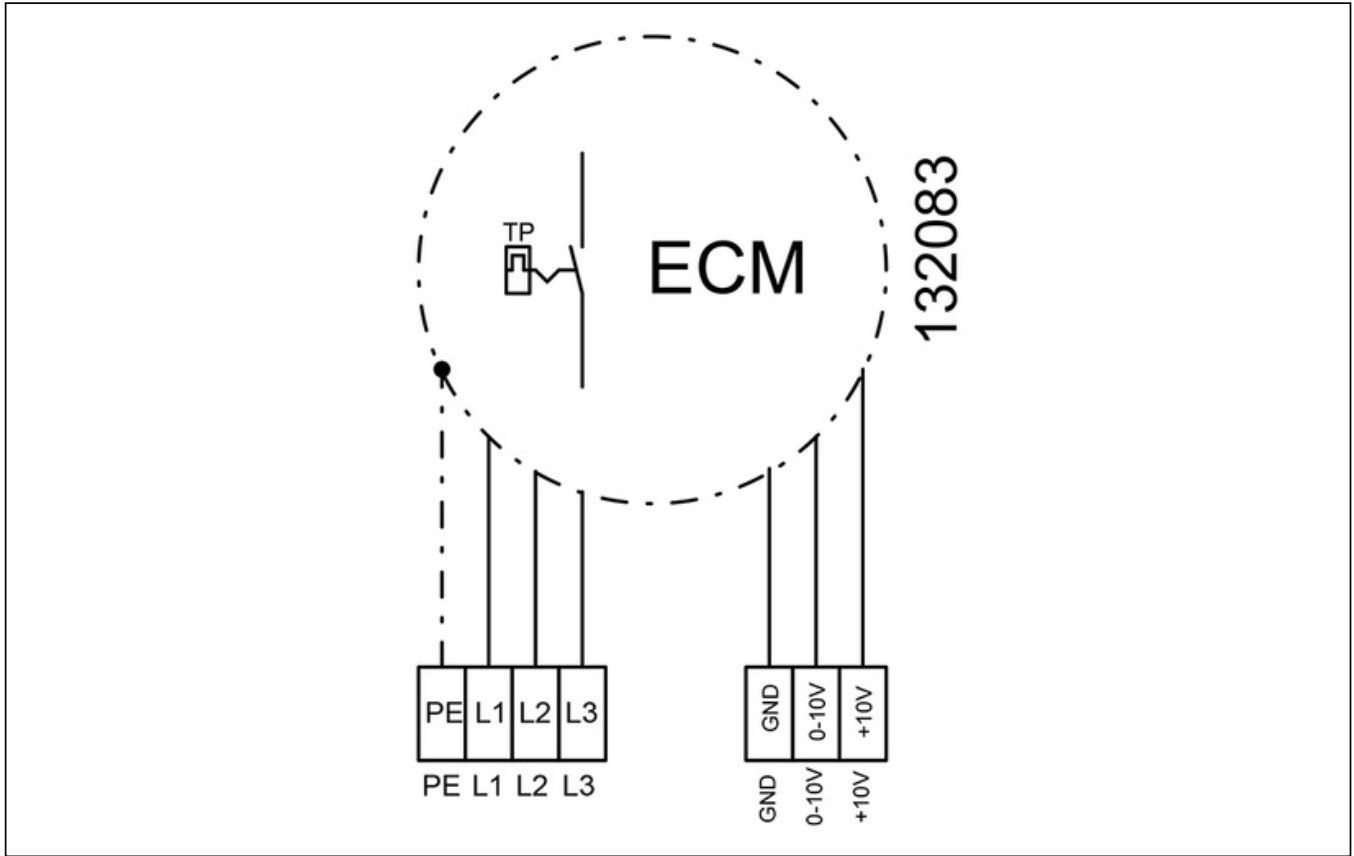
## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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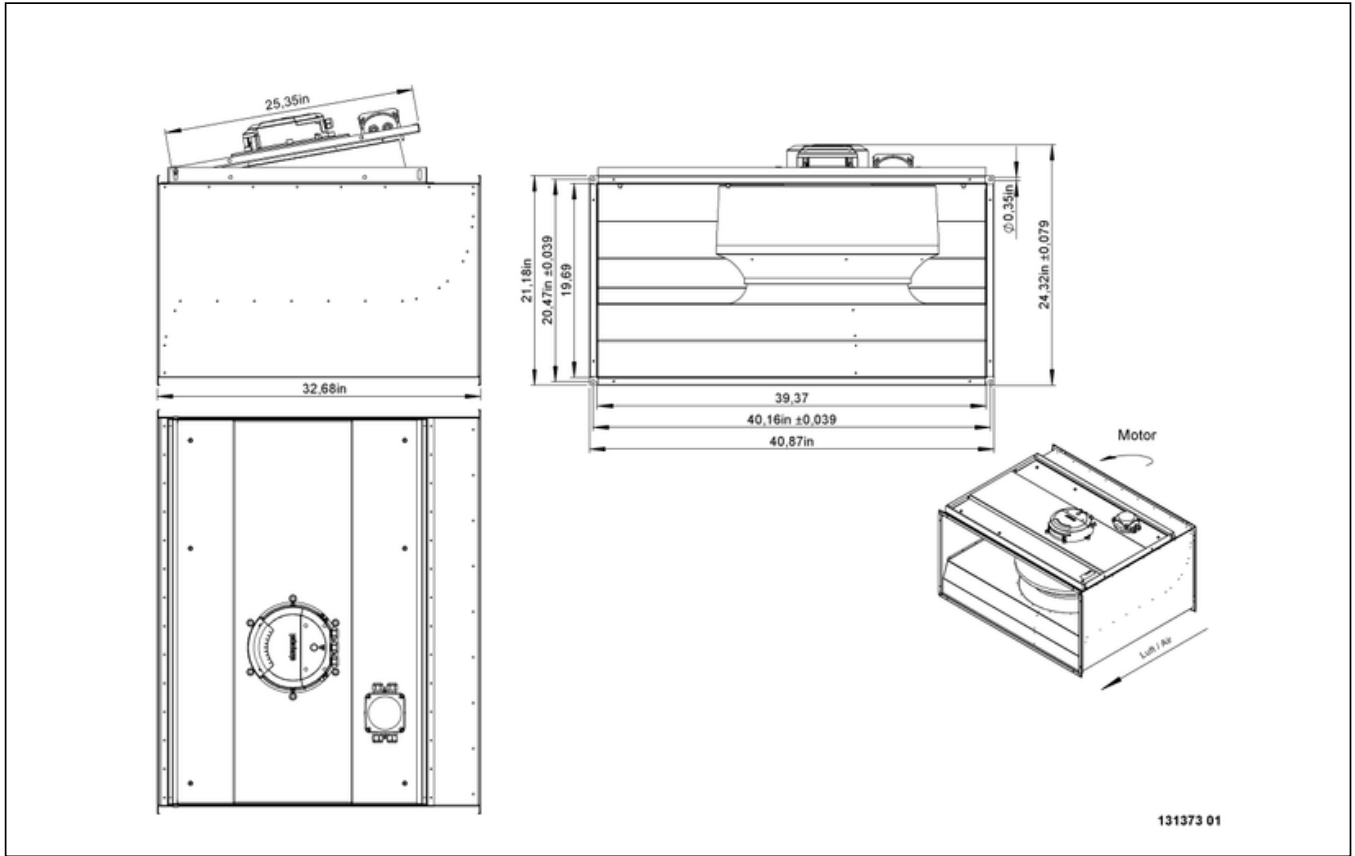
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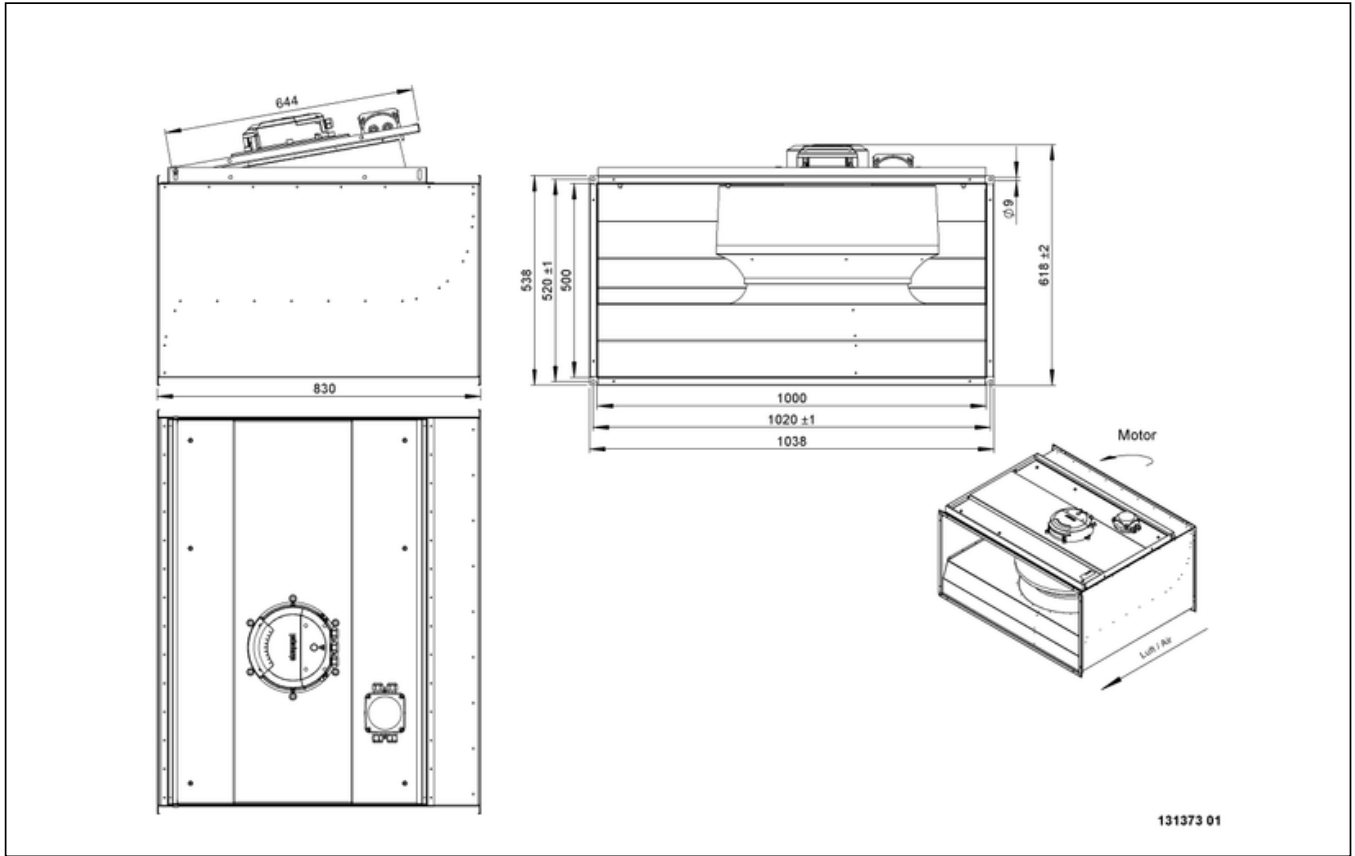
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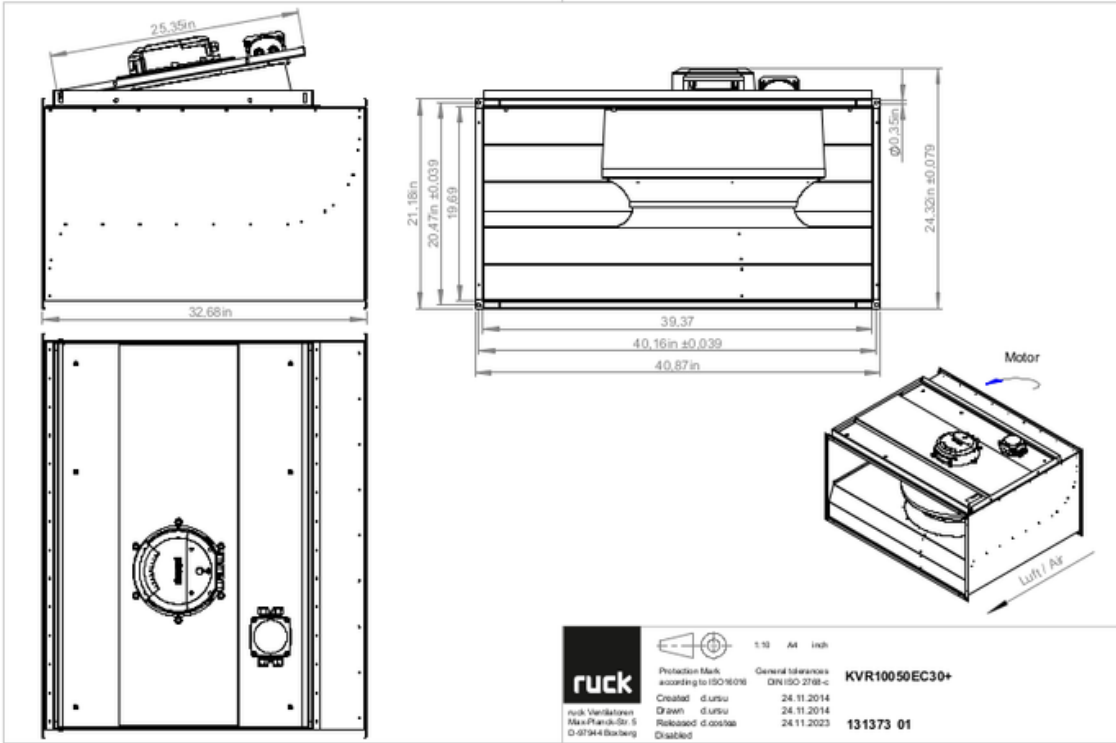
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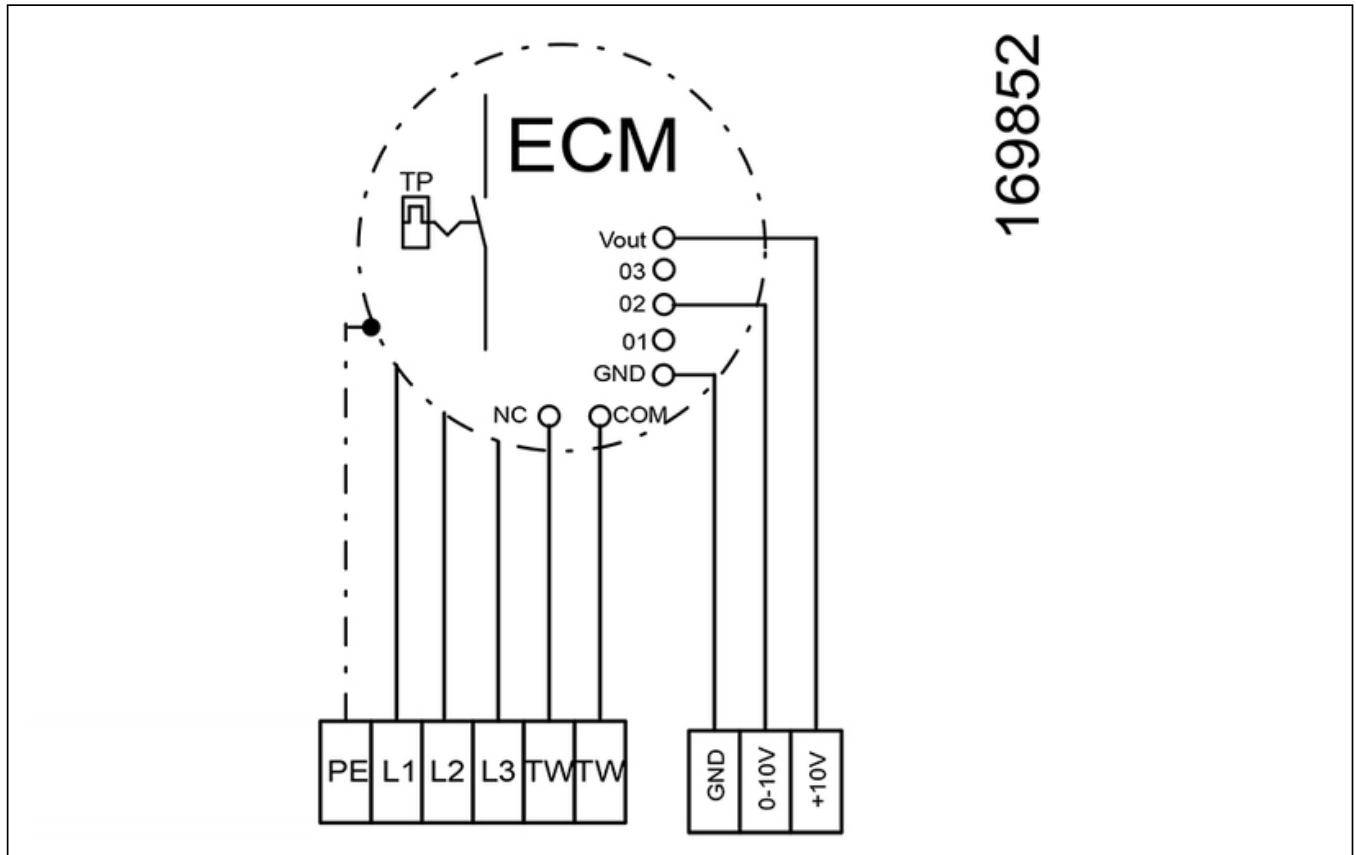
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## MECHANICAL ACCESSORIES

VKK 10050 | 103946



- Automatic shutter
- Plastic, weather resistant
- Temperature resistant up to 70 °C

VS 10050 | 103956



- Duct connector, flexible
- Standard profile flange P20
- Galvanized steel sheet, plastic band (PVC)
- Temperature resistant up to 70 °C



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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

**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

**MTP 20 | 128146**



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

**MTP 30 | 143289**



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

**MTP 40 | 147359**



- Potentiometer 10 k $\Omega$
- Connection in terminal box
- Max. ambient temperature 50 °C
- PU: 20 pieces

**MTP 50 | 153133**



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



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