

EL 560 D4 02

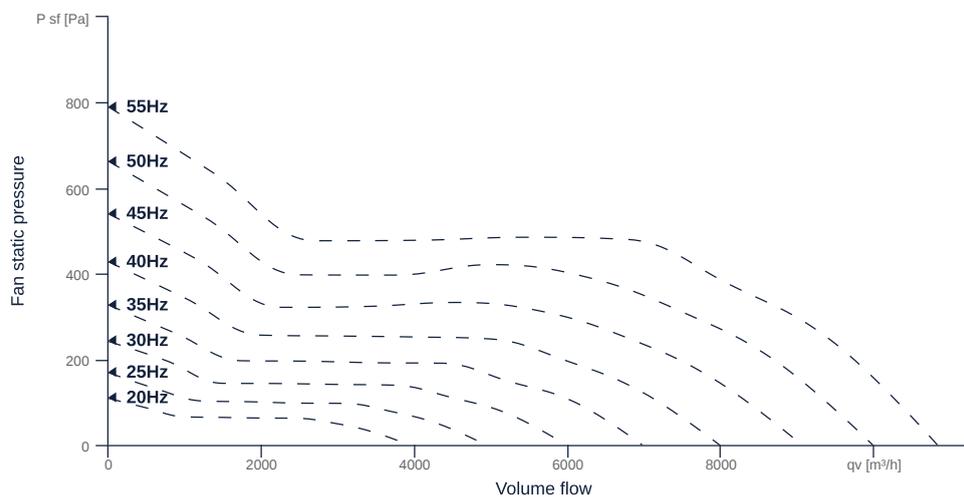
146537

- Innovative, high-efficiency diagonal fan
- The benchmark for efficiency since 2007
- Optimally tuned, CFD-optimized aerodynamics
- Efficient IE3 motor, frequency controllable
- Conveyed medium temperature up to 60 °C in continuous operation
- Housing made of aluminum AlMg3
- Attention! See note in the operating manual at FU-operation



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	-		WxH _{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	33	kg	m
Fan type	Diagonal		Fan _{type}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	1445	w	P _{ed, max}
Max. operating current (device)	2.74	A	I _{ed, max}
Max. speed	1610	rpm	n _{max}
Max. stat. efficiency	60	p	η _{es}
Max. fan efficiency	64.8	p	η _e
Max. flowrate	10800	CmH	Q _{v, max}
Max. stat pressure	790	Pa	p _{sf, max}
Max. medium temperature	60	°C	T _{m, max}
Max. environment temperature	60	°C	T _{amb, max}
Min. environment temperature	-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		AC 3~		phase
Control type		frequency-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Protection class		IP55		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 3~		pwrsupmotor
Number of poles (1)		2.000000		num polesw1
Rated voltage	400		v	U _{rated, f1}
Rated current	2.4		A	I _{rated, f1}
Nominal power	1100		w	P _a
Speed	1455		rpm	n _{f1}
Efficiency class	IE3			IE _{motor}
Min. temperature	-20		°C	T _{motor, min}
UL-Certification motor		UL recognized		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	1595	rpm	n _{opt}
Efficiency level	65	p	N
Efficiency category	statisch		cat _{efficiency}
Input power of the motor at the energy efficiency optimum	1.41	kw	P _{e, opt}
Overall efficiency	73.9	p	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	472	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	6937	CmH	q _{v, opt}

SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		F _{class}

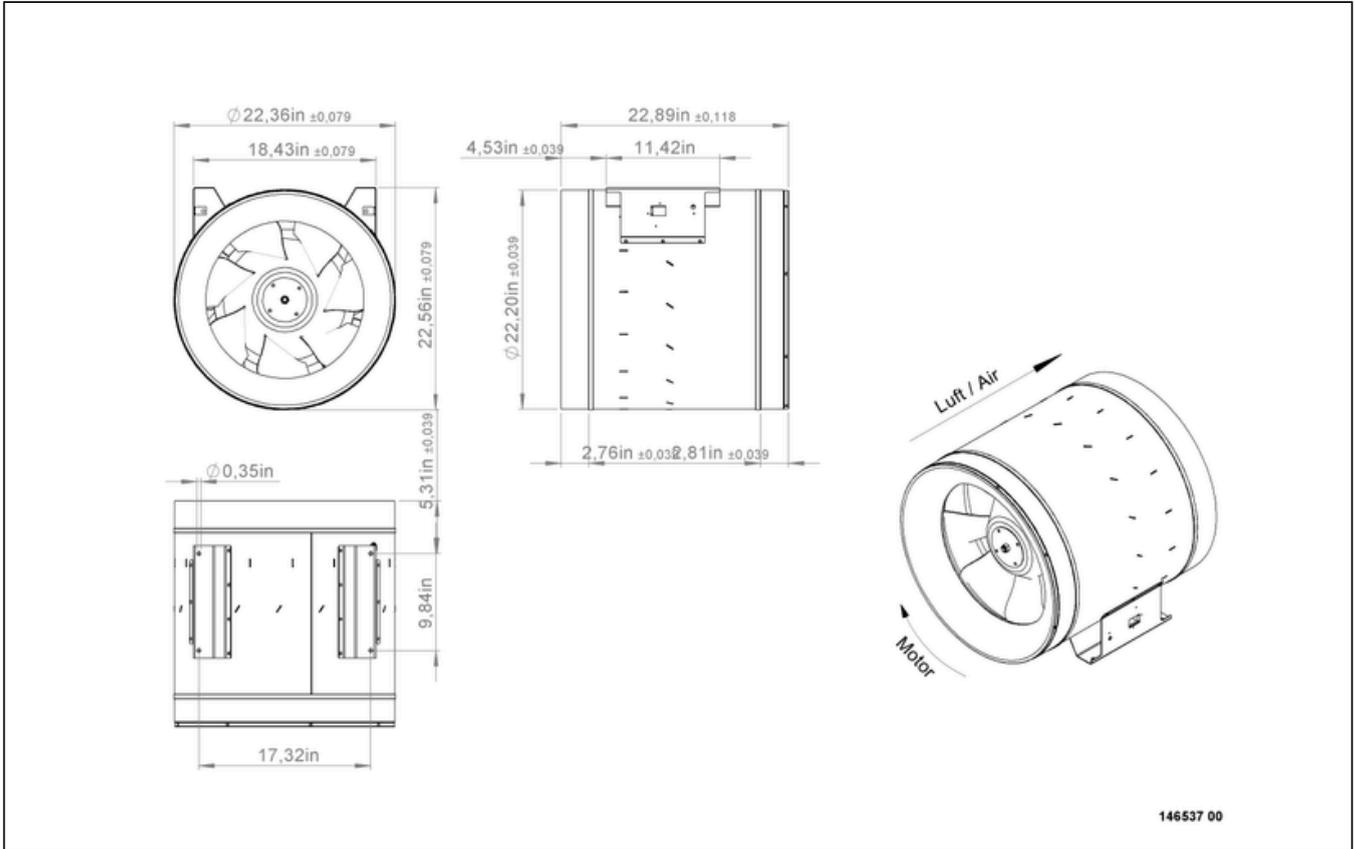


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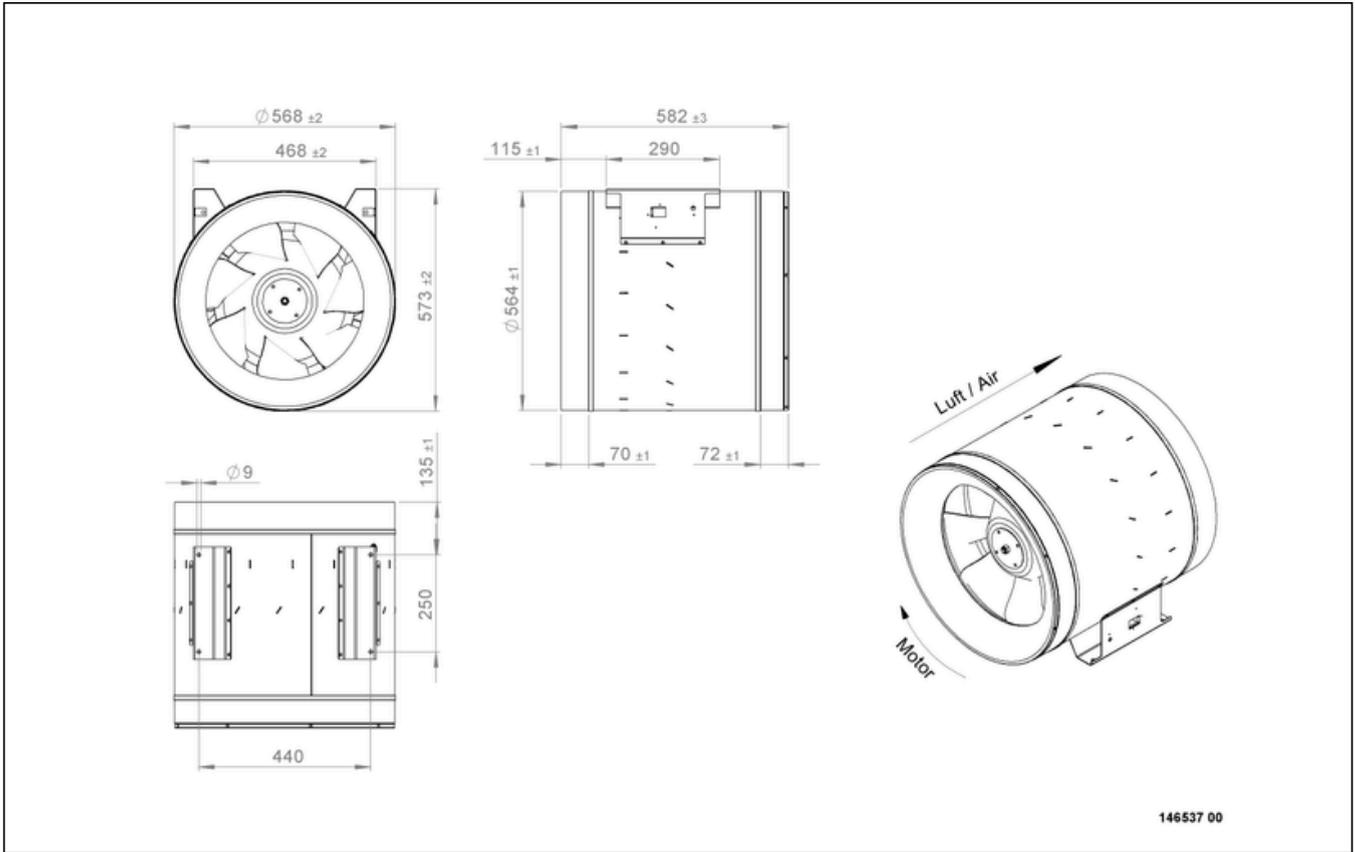
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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



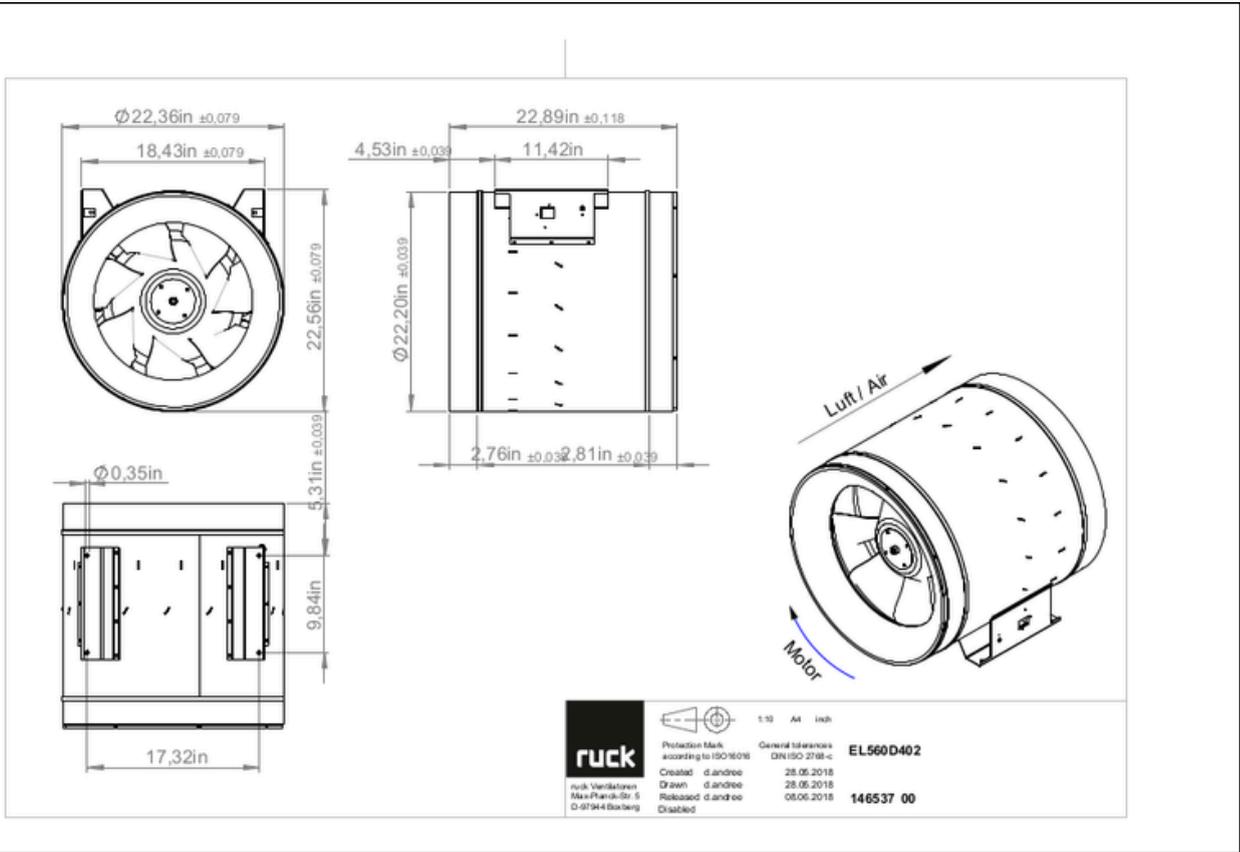
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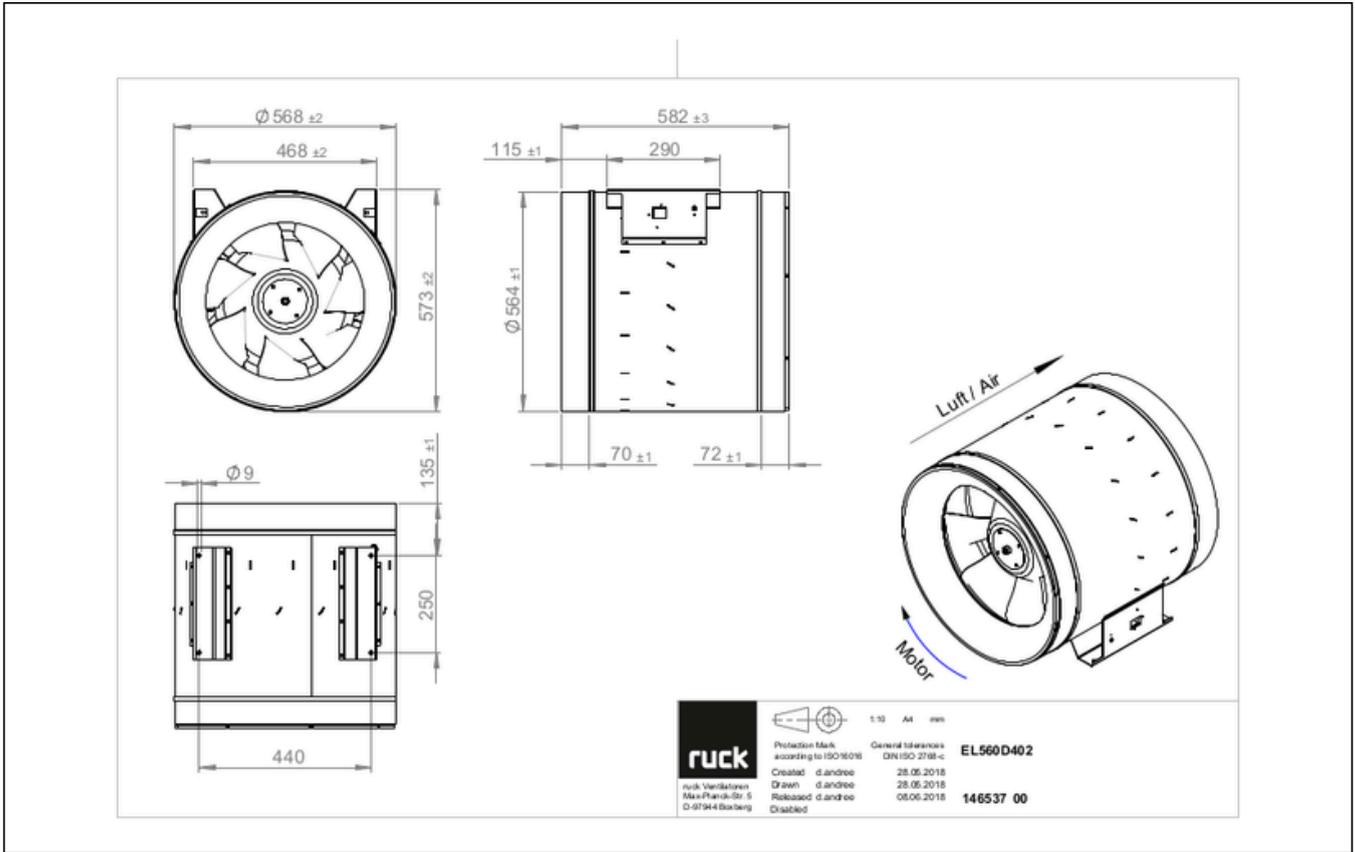
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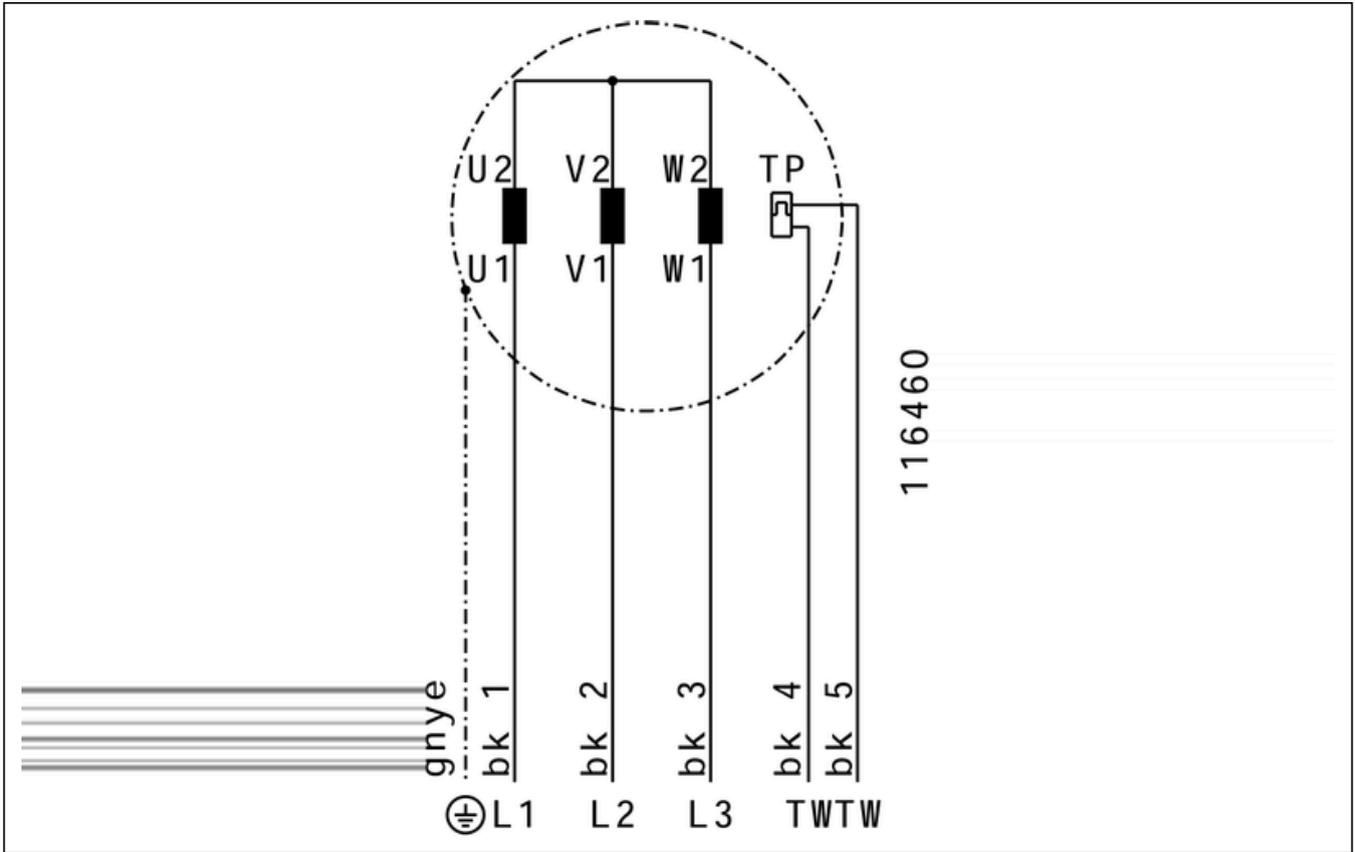
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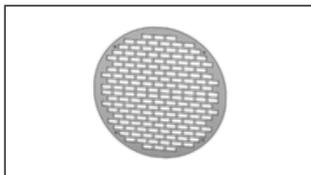
MECHANICAL ACCESSORIES

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 $400\text{ V } 3\text{-} = 7,5\text{ kW}$
- Protection class IP 55

MS 02 | 140409



- Motor protection switch with Isolator switchfunktion
- $I_{max} = 400\text{ V}$, $50/60\text{ Hz}$
- Max. 1.5 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 $0\dots+50\text{ }^\circ\text{C}$
- 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 $0-10\text{ V DC} + \text{FC enable} + \text{setpoint reached}$
- Pressure setting by means of decade switch

FU 15 21 | 146740



- Frequency converter
- Supply voltage $400\text{ V } 3\text{-} 50/60\text{ Hz}$
- Output voltage $0 - 400\text{ V } 3\text{-}$
- Protection class IP 20, for switch cabinet

FU 15 20 | 146741



- Frequency converter
- Supply voltage $400\text{ V } 3\text{-} 50/60\text{ Hz}$
- Output voltage $0 - 400\text{ V } 3\text{-}$
- Fire mode function (smoke extract fans)

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



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