

EL 710 D4 02

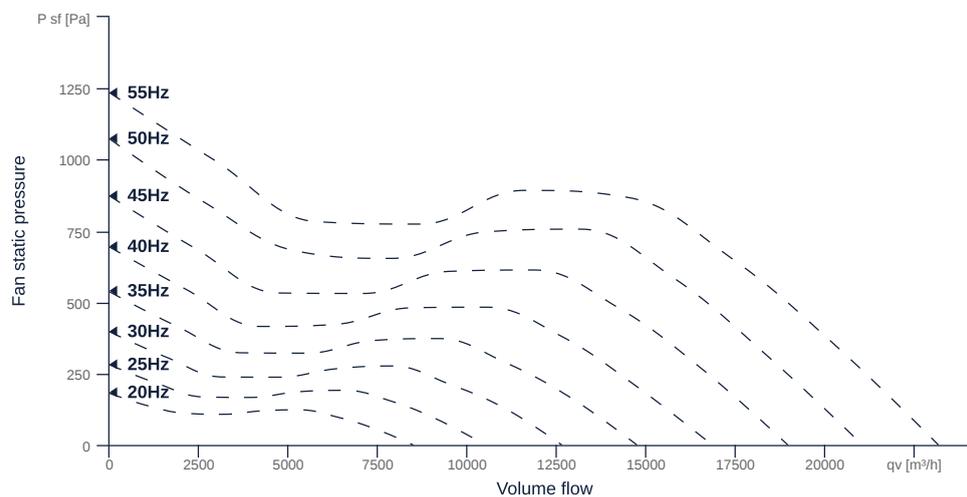
146531

- 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 aluminium 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	-		$W \times H_{duct}$
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		$m_{atcasing}$
Impeller material	Aluminium		$m_{atimpeller}$
IP-protection class (entire device)	IPX4		IPcompl
Weight	63	kg	m
Fan type	Diagonal		$F_{an}type$
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	5123	w	$P_{ed, max}$
Max. operating current (device)	9.75	A	$I_{ed, max}$
Max. speed	1610	rpm	n_{max}
Max. stat. efficiency	64.7	p	η_{es}
Max. fan efficiency	69	p	η_e
Max. flowrate	23140	CmH	q_v, max
Max. stat pressure	1230	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)		4.000000		num polesw1
Rated voltage	400		v	U _{rated, f1}
Rated current	8.2		A	I _{rated, f1}
Nominal power	4000		w	P _a
Speed	1450		rpm	n _{f1}
Starting current	57.4		A	I _{start, f1}
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	1587	rpm	n _{opt}
Efficiency level	65.6	p	N
Efficiency category	statisch		cat _{efficiency}
Input power of the motor at the energy efficiency optimum	5.47	kw	P _{e, opt}
Overall efficiency	68.3	p	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	886	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	14028	CmH	q _{v, opt}

SMOKE EXTRACT DATA

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

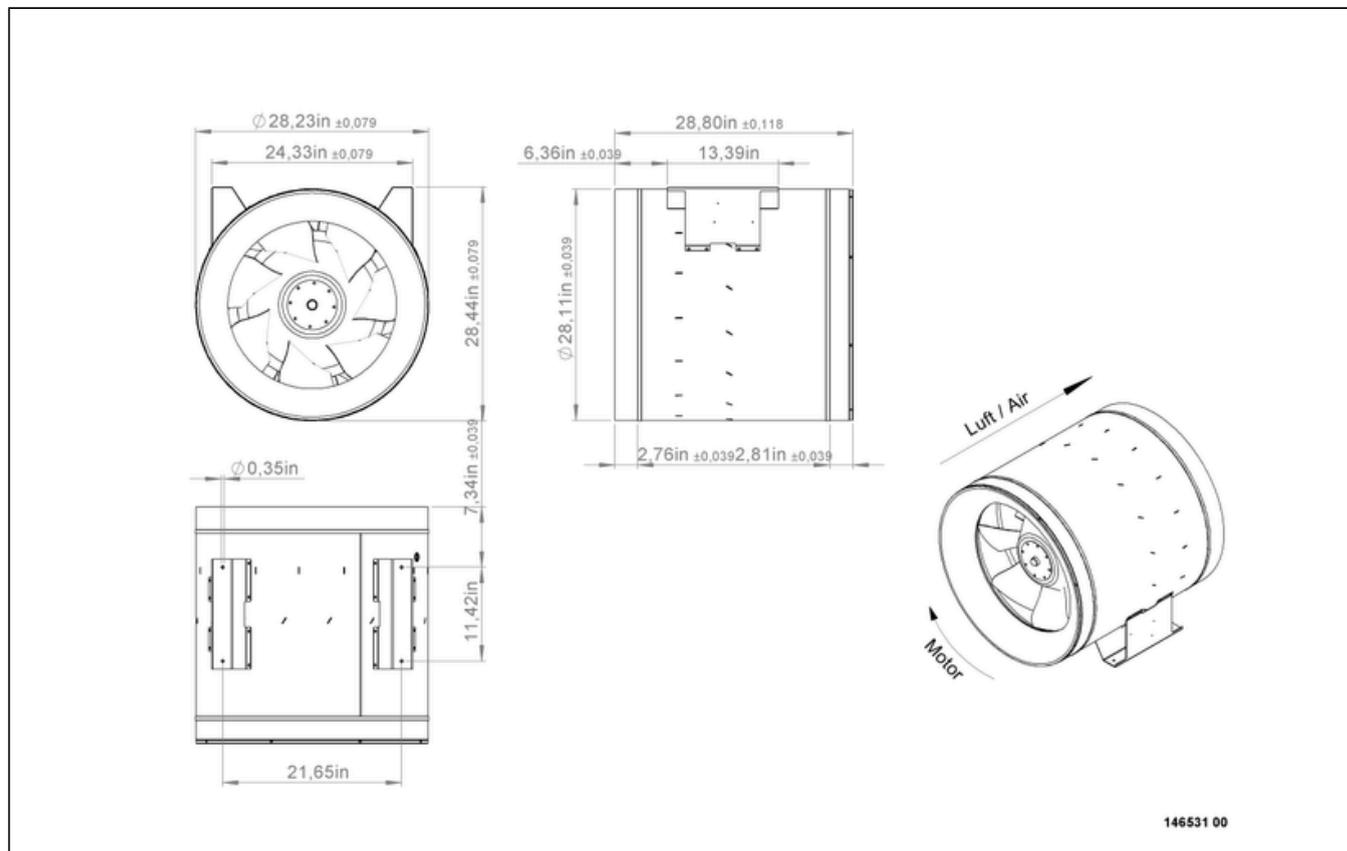


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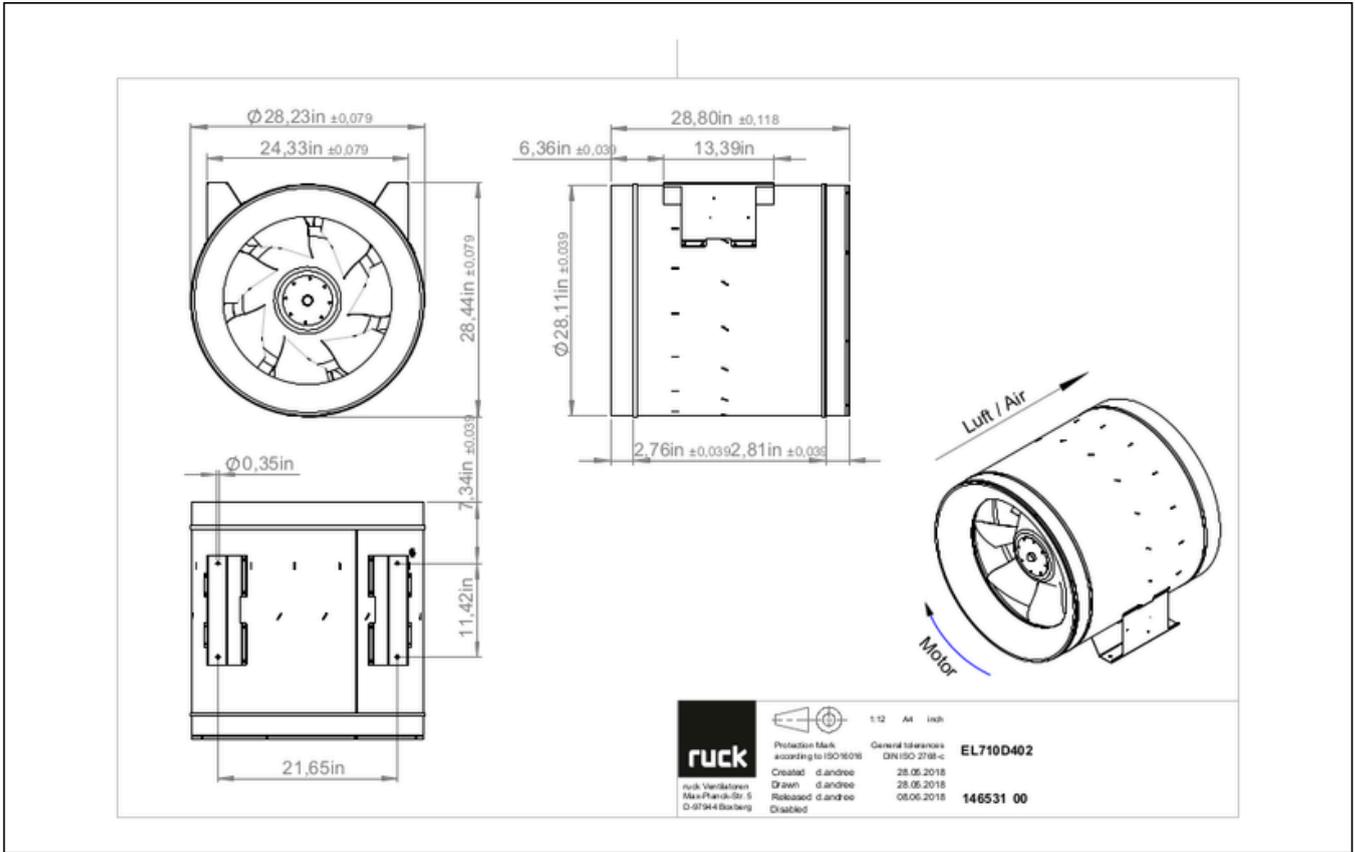
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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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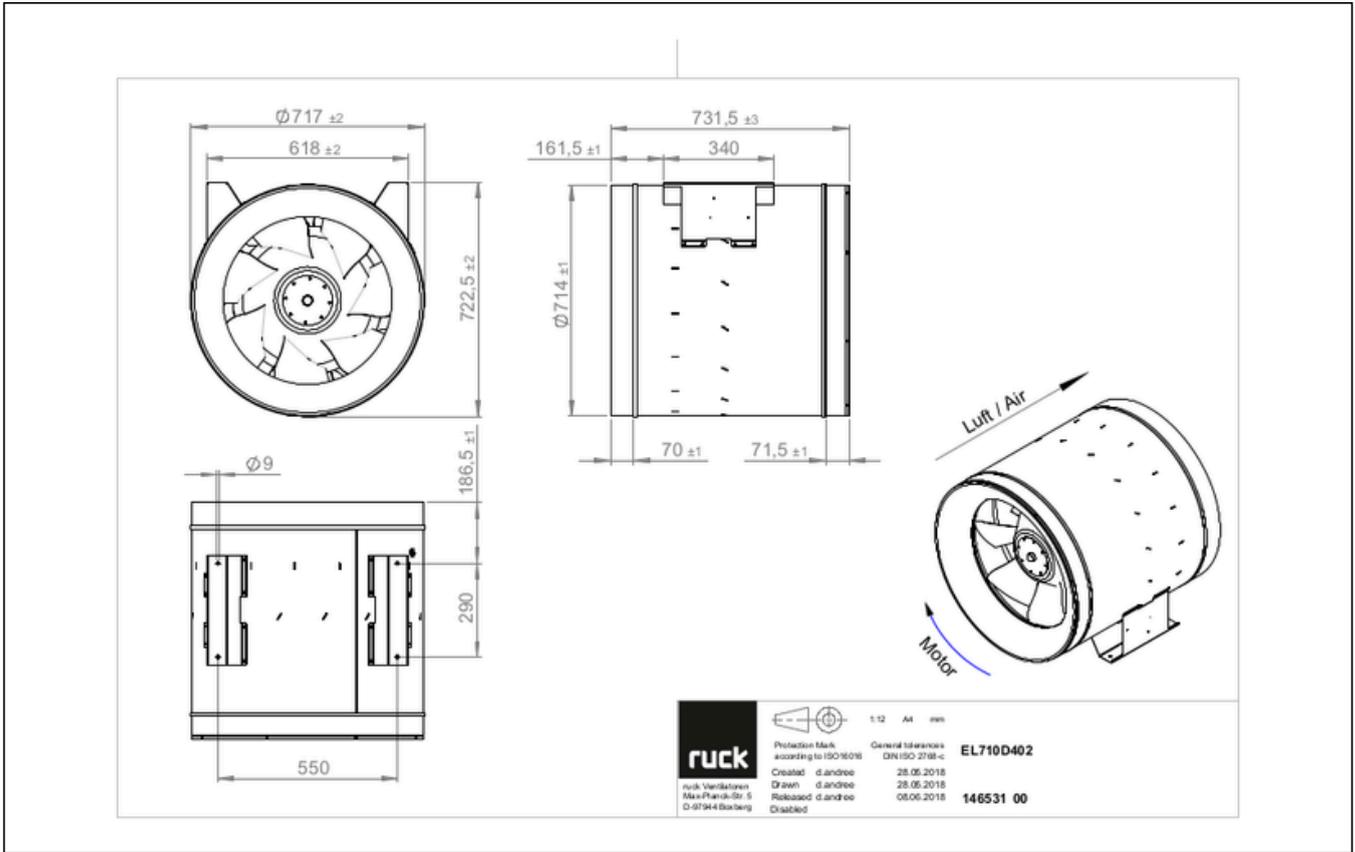
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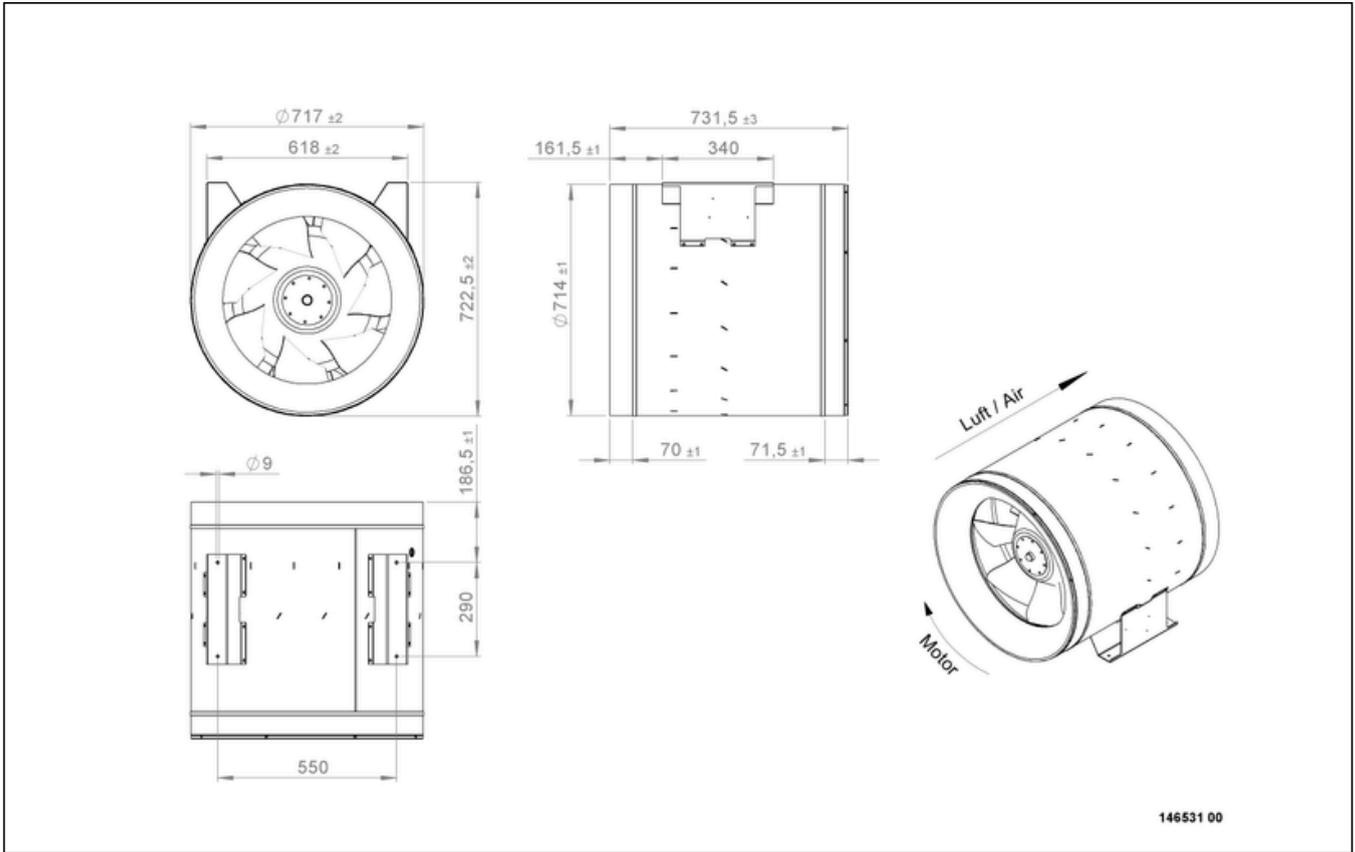
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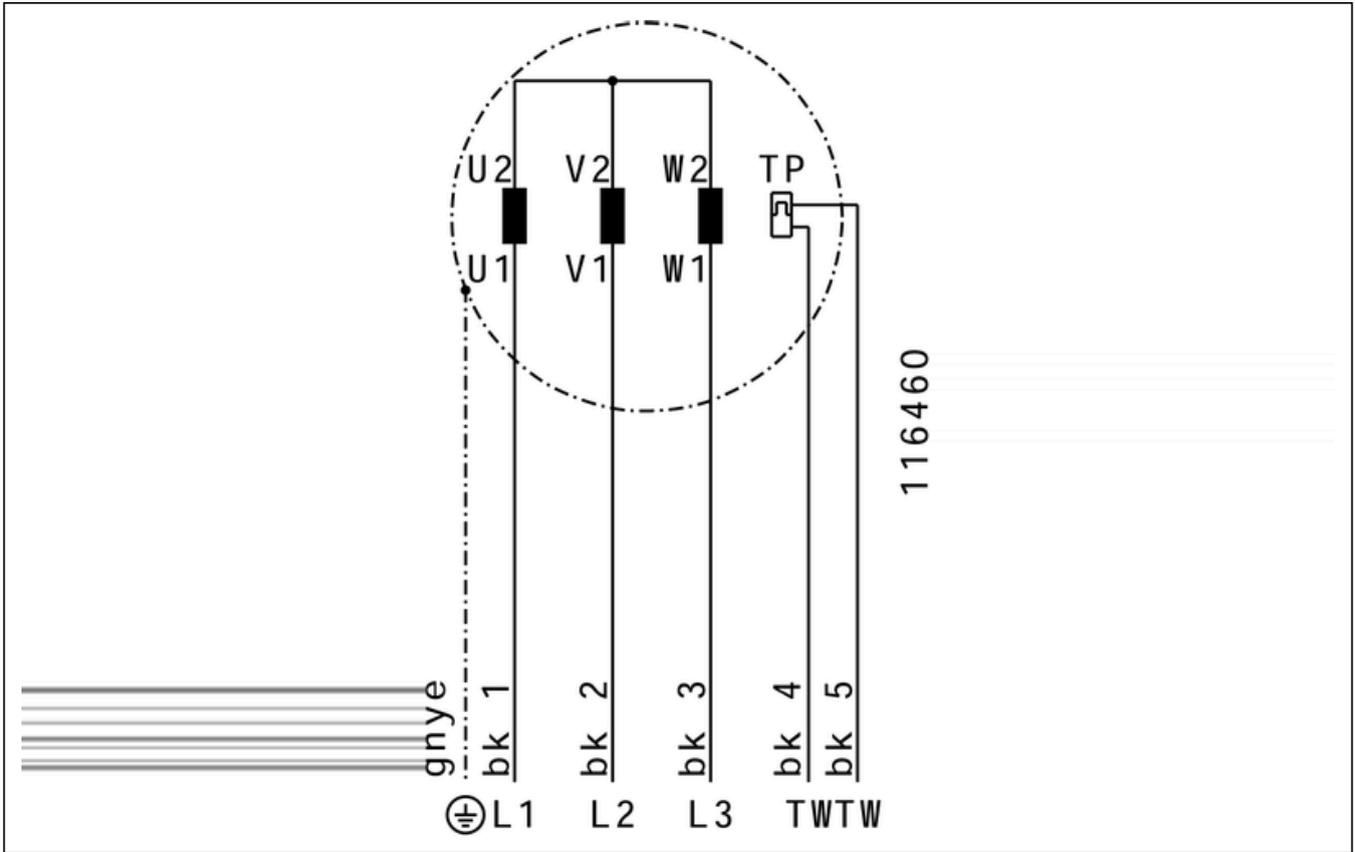
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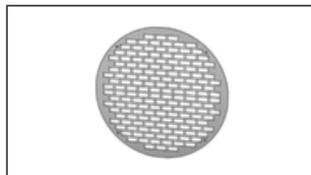
MECHANICAL ACCESSORIES

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



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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 04 | 140413



- Motor protection switch with Isolator switchfunktion
- $I_{max} = 400\text{ V}$, 50/60 Hz
- Max. 4 kW
- Protection class IP 55

MTP 20 | 128146



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

MTP 30 | 143289



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

MTP 40 | 147359



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

SEN AIR | 148641



- Airflow and temperature transducer
- Measuring range temperature 0...+50 °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 V DC + FC enable + setpoint reached
- Pressure setting by means of decade switch

FU 55 08 | 146746



- Frequency converter
- Supply voltage 400 V 3~ 50/60 Hz
- Output voltage 0 - 400 V 3~
- Fire mode function (smoke extract fans)

FU 55 07 | 146745



- Frequency converter
- Supply voltage 400 V 3~ 50/60 Hz
- Output voltage 0 - 400 V 3~
- Protection class IP 20, for switch cabinet

MTP 50 | 168752



- 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

