

EL 355 D2 01

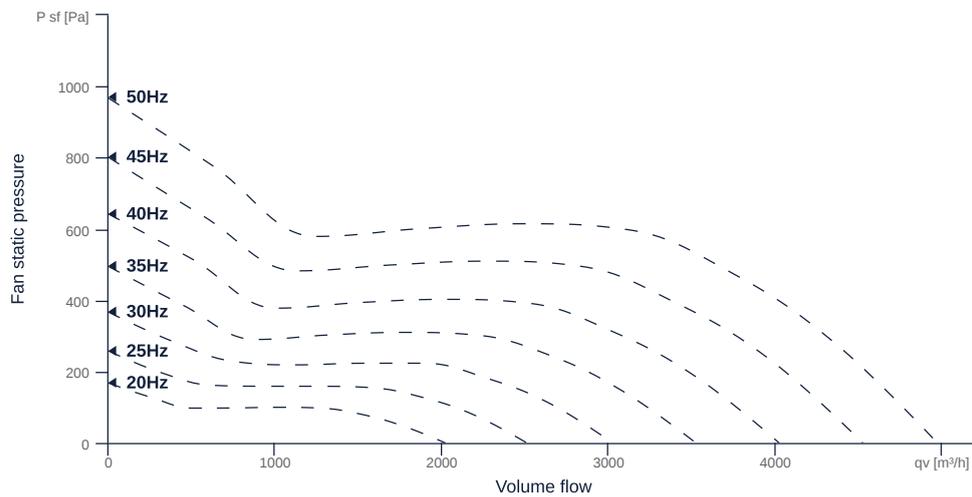
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- Innovative, high-efficiency diagonal fan
- The benchmark for efficiency since 2007
- Optimally tuned, CFD-optimized aerodynamics
- Efficient IE3 motor, frequency controllable
- Conveyed medium temperature up to 60 °C in continuous operation
- Housing made of galvanized steel sheet
- 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)	DN355		DN
Rated voltage (entire device)	230	v	U_{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Galvanized steel		matcasing
Impeller material	Plastic		matimpeller
IP-protection class (entire device)	IPX4		IP _{compl}
Weight	16.83	kg	m
Fan type	Diagonal		Fan _{type}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	920	w	$P_{ed, max}$
Max. operating current (device)	3.2	A	$I_{ed, max}$
Max. speed	2920	rpm	n_{max}
Max. stat. efficiency	55.2	p	η_{es}
Max. fan efficiency	59.4	p	η_e
Max. flowrate	4970	CmH	Q_v, max
Max. stat pressure	970	Pa	$p_{sf, max}$
Max. medium temperature	60	°C	T_m, max
Max. environment temperature	60	°C	$T_{amb, max}$
Min. environment temperature	-30	°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
Motor-protection		TAO		protectmotor
Protection class		IP44		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 3~		pwrsupmotor
Number of poles (1)		2.000000		num polesw1
Connection	Y			wiringw1
Rated voltage	230		v	U _{rated, f1}
Rated current	3.4		A	I _{rated, f1}
Speed	2820		rpm	n _{f1}
Min. temperature	-30		°C	T _{motor, min}
Cos Phi	0.870000	0.000000		cos φ
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2857	rpm	n _{opt}
Efficiency level	60.2	p	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.91	kw	P _{e, opt}
Overall efficiency	71.2	p	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	590	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	3216	CmH	Q _{v, opt}

SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass

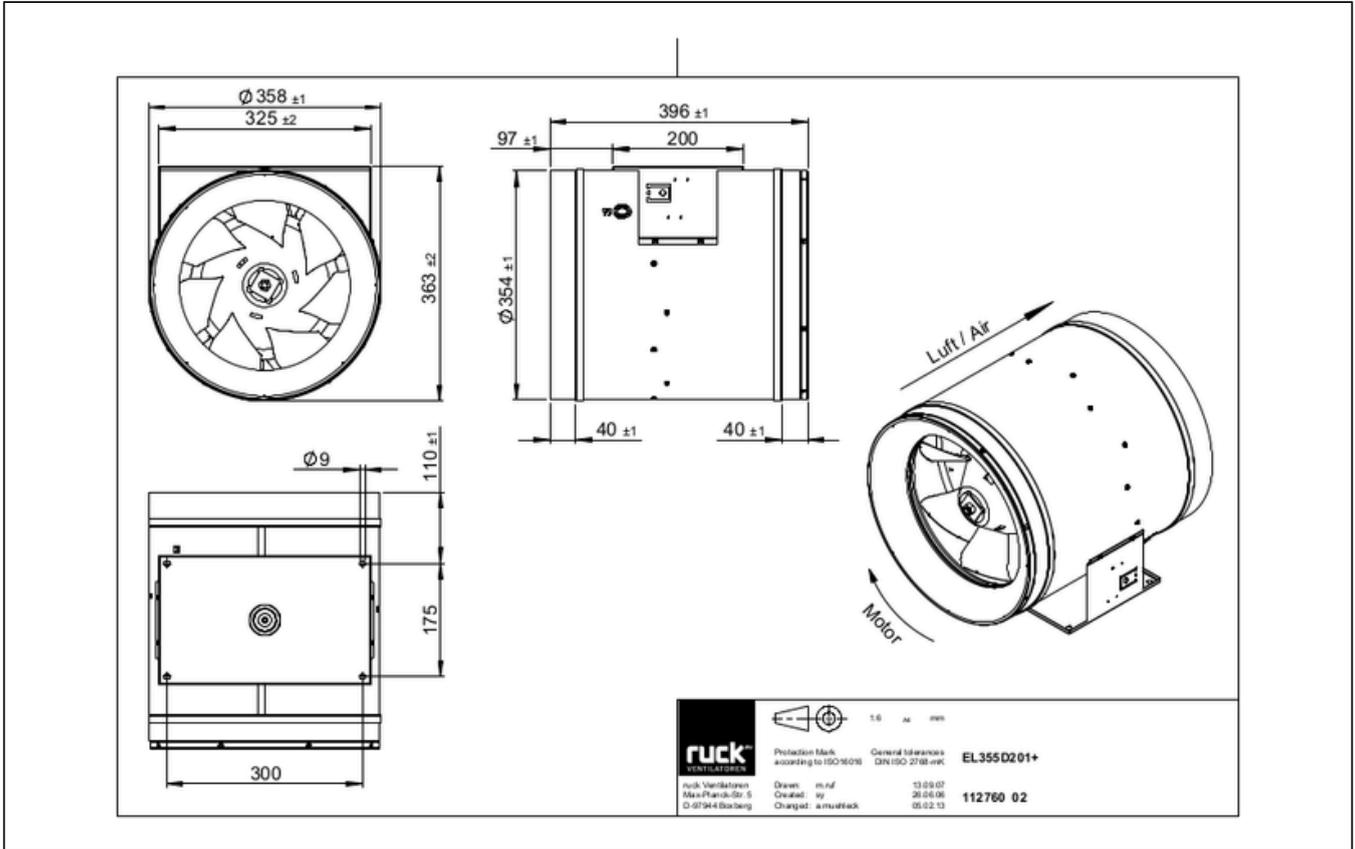


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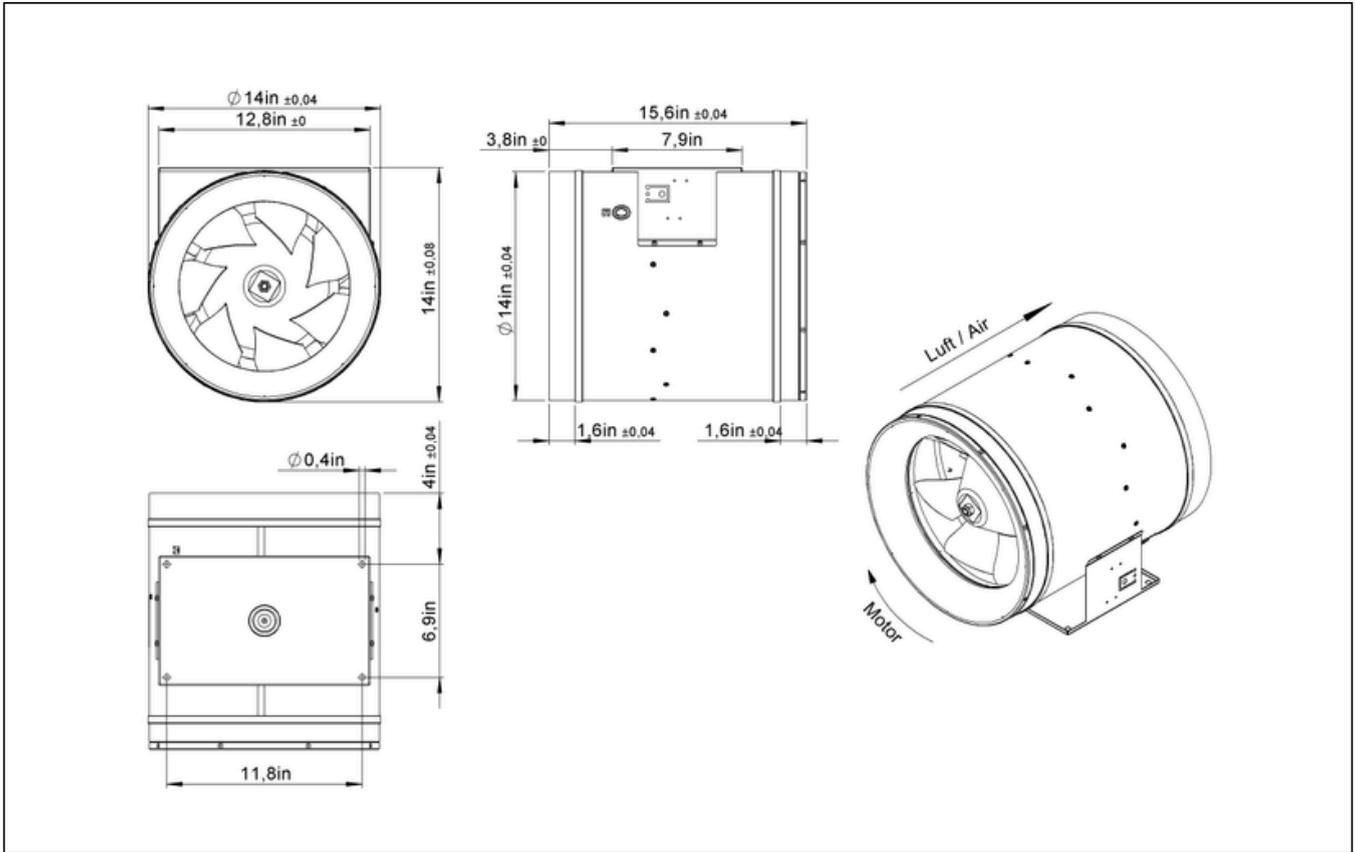
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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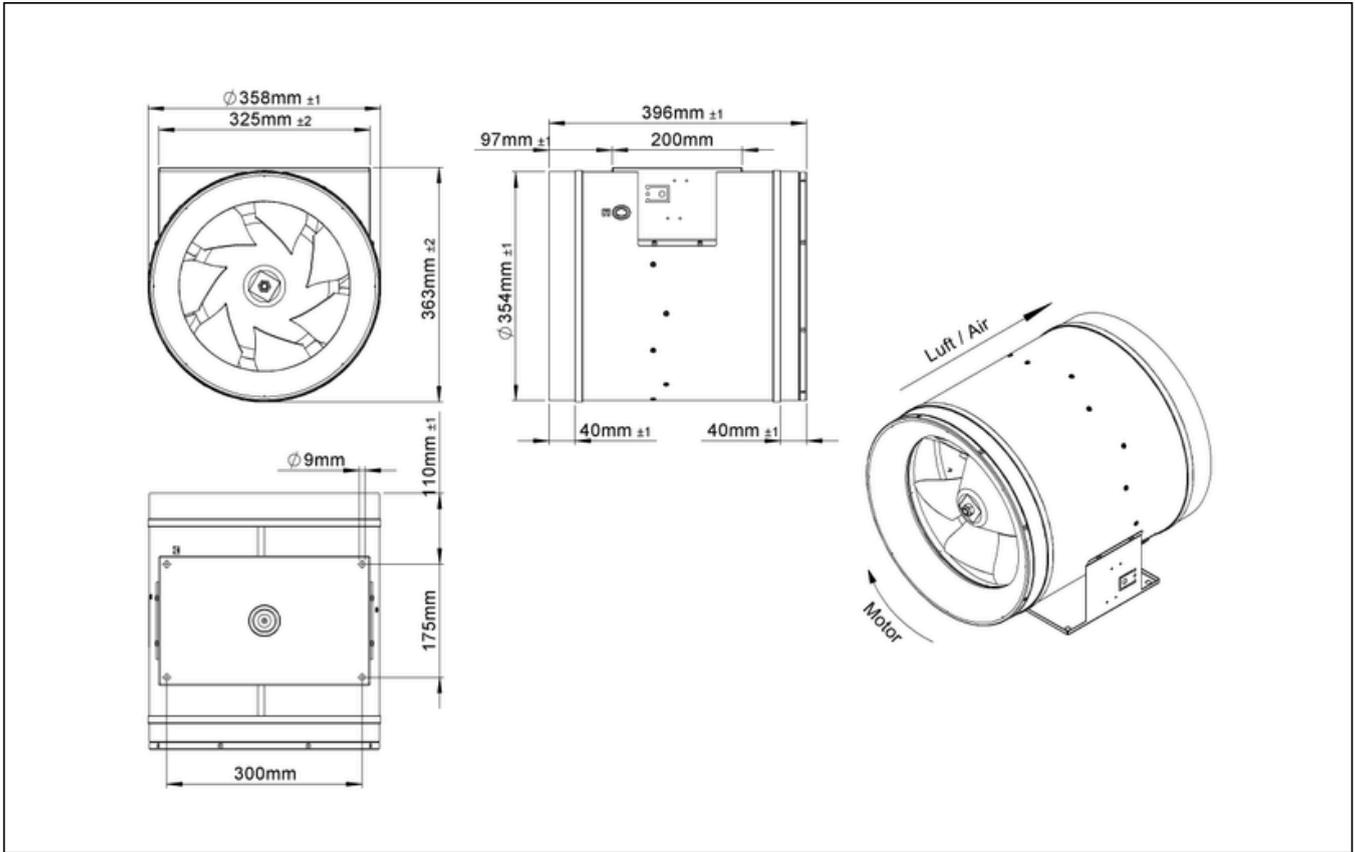
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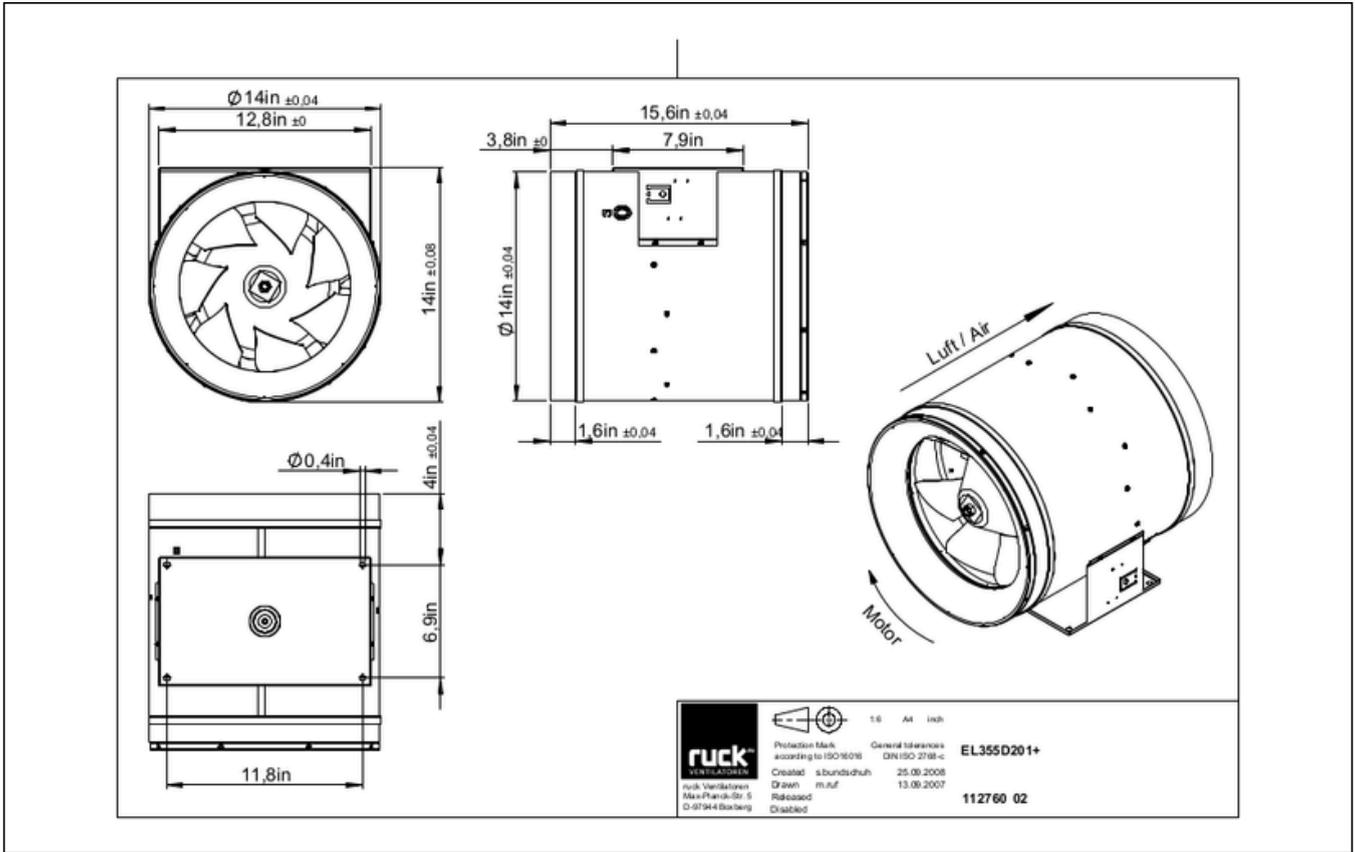
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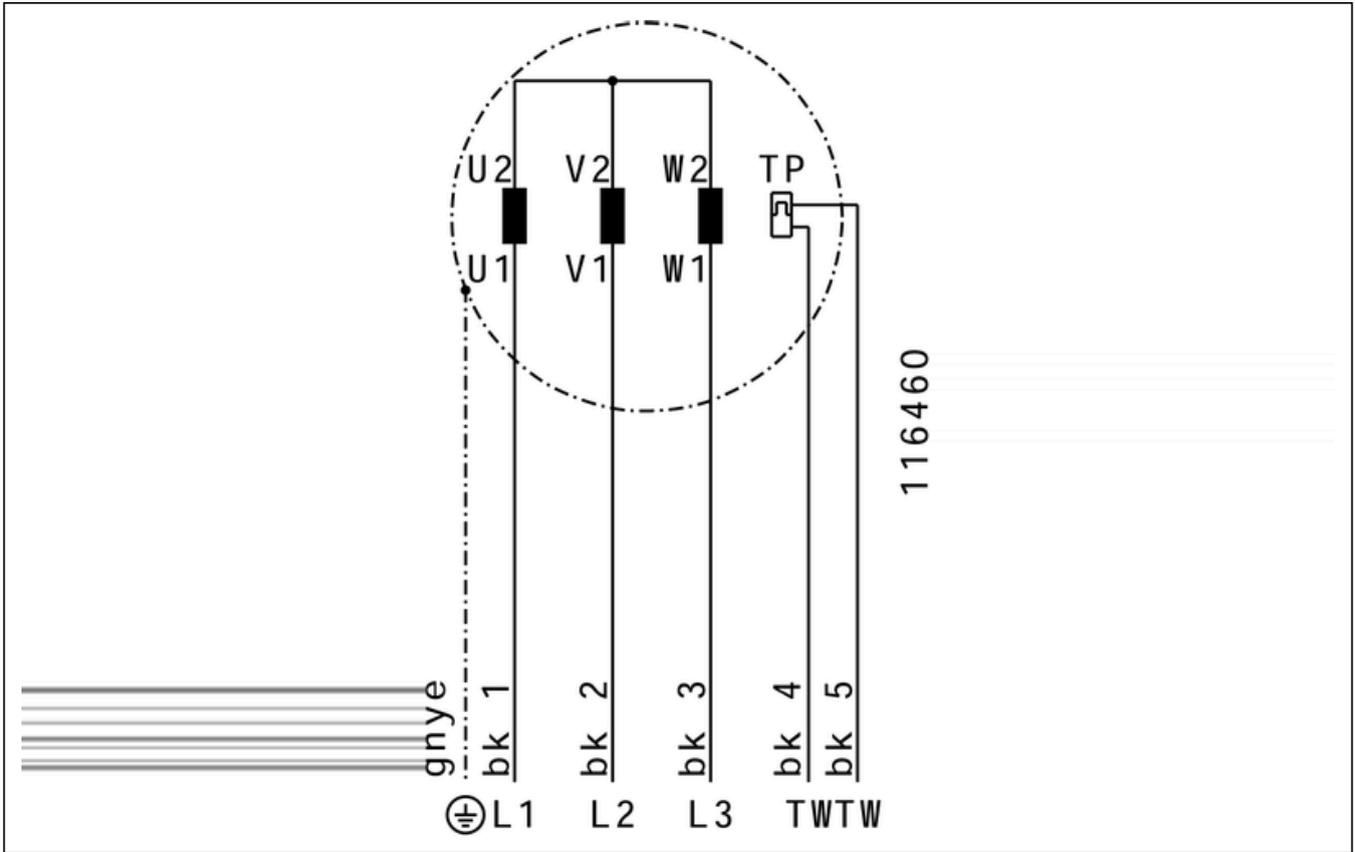
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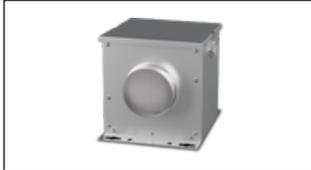
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MECHANICAL ACCESSORIES

FV 355 | 112835



- Air filter box with mat filter ISO Coarse 45 % (G3)
- Toggle-type fastener

FT 355 | 112847



- Air filter box for pocket filter
- Toggle-type fastener
- Galvanized steel sheet housing
- Without filter

FTW 355 | 112856



- Air filter box with pocket filter M5
- Integrated warm water heating coil
- Galvanized steel sheet housing
- Toggle-type fastener

RSK 355 | 102665



- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

RSK 355D | 113491



- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps
- Integrated gasket

UKR 6035 01 | 114641



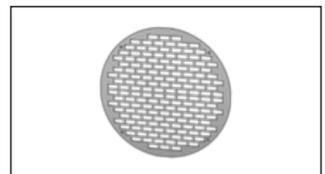
- Transition duct / tube
- Steel sheet, galvanized
- 600 x 350 mm / NW 355

VM 355 | 102653



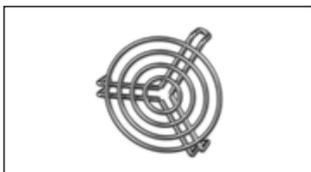
- Fast clamps for sound decoupling and sealing
- Galvanized steel sheet, 5 mm Neopren gasket
- 1 Pack = 2 pieces

SG 355 02 | 112674



- Inlet protection grille for Etaline
- Galvanized steel sheet

SG 355 01 | 169706



- Protection grille for tube connection
- Galvanized wire

SDS 355 | 169611



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

SDF 355 | 169646



- Flexible tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm



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

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 $0...+50\text{ }^\circ\text{C}$
- 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 075 38 | 154333



- Frequency converter
- Supply voltage $230\text{ V } 1\text{-} 50/60\text{ Hz}$
- Output voltage $0 - 230\text{ V } 3\text{-}$
- Protection class IP 20, for switch cabinet

FU 075 39 | 154334



- Frequency converter IP66
- Supply voltage $230\text{ V } 1\text{-} 50/60\text{ Hz}$
- Output voltage $0 - 230\text{ V } 3\text{-}$
- 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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