

MPS 225 D2 40

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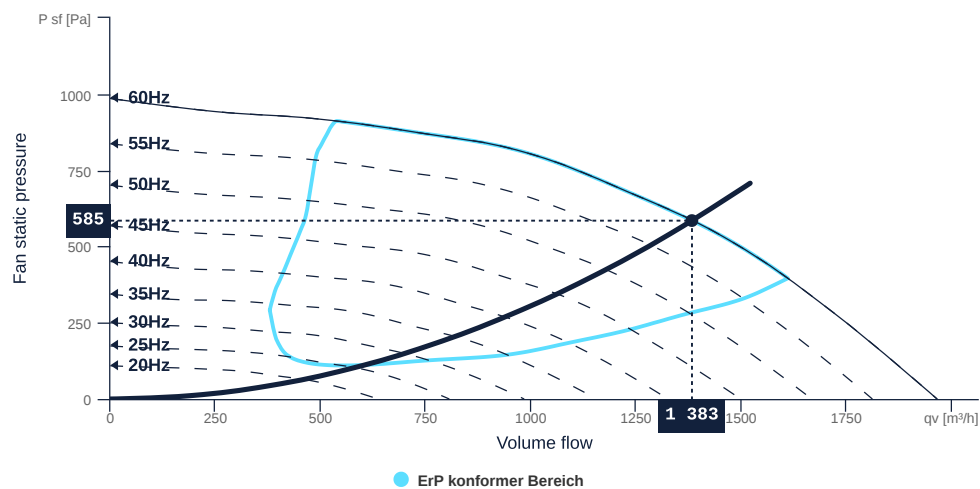
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- Backward curved centrifugal impeller
- Swing out fan unit
- Sheet steel housing double-walled, 40 mm mineral wool
- Efficient IE3 motor, outside the airflow
- Conveyed medium temperature up to 120 °C in continuous operation
- With condensate and grease drain



FAN CURVES

Name	Value	Unit
Volume flow	1383	m³/h
Pressure	585	Pa



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TECHNICAL SPECIFICATIONS

Name	Value	Unit	Formula symbol
Volume flow	1383	m³/h	qVcalc
Pressure	585	Pa	psfcalc
Fan pressure	675	Pa	pf
Fan static pressure	585	Pa	psf
Current consumption Motor	0	A	Ie
Current consumption Electric	0	A	Ied
Electrical power consumption	481	W	Pek
Electrical power consumption	516	W	Pedk
Frequency	59	Hz	frq
Rotation speed	3436	1/min	N
Total static efficiency	46	%	etaFaPeK
Total speed controlled static efficiency	43	%	etaFaPedK
Total efficiency	53	%	etatPeK
Total speed controlled efficiency	50	%	etatPedK
SFP (entire device)	1252	W/(m³/s)	sfpdevice
Sound power level inlet	81	dB(A)	LwA5
Sound power level outlet	84	dB(A)	LwA6
Sound power level housing radiation	74	dB(A)	LwA2

SOUND DATA

Sound power	mid-frequency tape										Unit	Formula symbol
	Σ	63	125	250	500	1000	2000	4000	8000	16000		
suction	81	48	60	68	76	75	74	73	64	50	dB(A)	LwA5
blowout	84	46	64	67	82	76	77	74	66	50	dB(A)	LwA6
Casing break out	75	54	60	60	67	68	70	66	58	46	dB(A)	LwA2

SOUND PRESSURE LEVEL CALCULATOR

Name	Value	Unit
Enveloping surface	Halphsphere	
Distance	3	m

Sound pressure	NR	mid-frequency tape										Unit	Formula symbol
		Σ	63	125	250	500	1000	2000	4000	8000	16000		
suction	59	64	30	42	50	59	58	56	55	47	33	dB(A)	LwA5
blowout	64	67	29	46	49	64	58	60	56	48	32	dB(A)	LwA6
Casing break out	54	57	36	42	42	49	51	53	48	40	28	dB(A)	LwA2



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GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		WxH _{duct}
Pipe connection size (DN)	DN200		DN
Rated voltage (entire device)	400	V	U _{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Galvanized steel		mat _{casing}
Impeller material	Steel		mat _{impeller}
Weight	29.3	kg	m
Nominal air flow rate, nominal point m³/h	1144.8	m³/h	q _{v,nom}
Nominal external pressure, static	736.7	Pa	p _{s,nom}
Fan type	Radial		F _{antype}
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m³/s	0.32	m³/s	q _{v,nom}
Actual electrical input power, nominal point	0.48	kW	P _{e,nom}
Face velocity, nominal point	10.1	m/s	v _{nom}
Nominal external pressure, static	736.7	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	53.2	%	η _{es,SUP}
Highest external air leakage rate	0.07	%	
Enclosure sound level, nominal point	76	dB(A)	L _{WA2}
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	486	W	P _{ed, max}
Max. operating current (device)	0.91	A	I _{ed, max}
Max. speed	3530	1/min	n _{max}
Max. stat. efficiency	46.3	%	η _{es}
Max. fan efficiency	50.6	%	η _e
Max. flowrate	1960	m³/h	q _{v, max}
Max. stat pressure	980	Pa	p _{sf, max}
Max. medium temperature	120	°C	T _{m, max}
Max. environment temperature	60	°C	T _{amb, max}
Min. environment temperature	-20	°C	T _{amb, min}
Min. voltage	400	V	U _{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
Connection	Δ	Y		wiringw1
Connection (wiring 2)	Y			wiringw2
Rated voltage	230	460	V	U _{rated, f1}
Rated voltage (wiring 2)	400		V	U _{rated, f2}
Rated current	2.07	1.07	A	I _{rated, f1}
Rated current (wiring 2)	1.19		A	I _{rated, f2}
Shaft power	550	550	W	P _{out, f1}
Shaft power (wiring 2)	550		W	P _{out, f2}
Speed	2770	3415	1/min	n _{f1}
Speed (wiring 2)	2770		1/min	n _{f2}
Starting current	122	7.81	A	I _{start, f1}
Starting current (wiring 2)	70.2		A	I _{start, f2}
Efficiency	77.8	77	%	$\eta_m, f1$
Efficiency (wiring 2)	77.8		%	$\eta_m, f2$
Efficiency class	IE3	IE3		IE _{motor}
Min. temperature	-20	-20	°C	T _{motor, min}
Cos Phi	0.860000	0.840000		cos φ
UL-Certification motor		UL recognized		ULcert

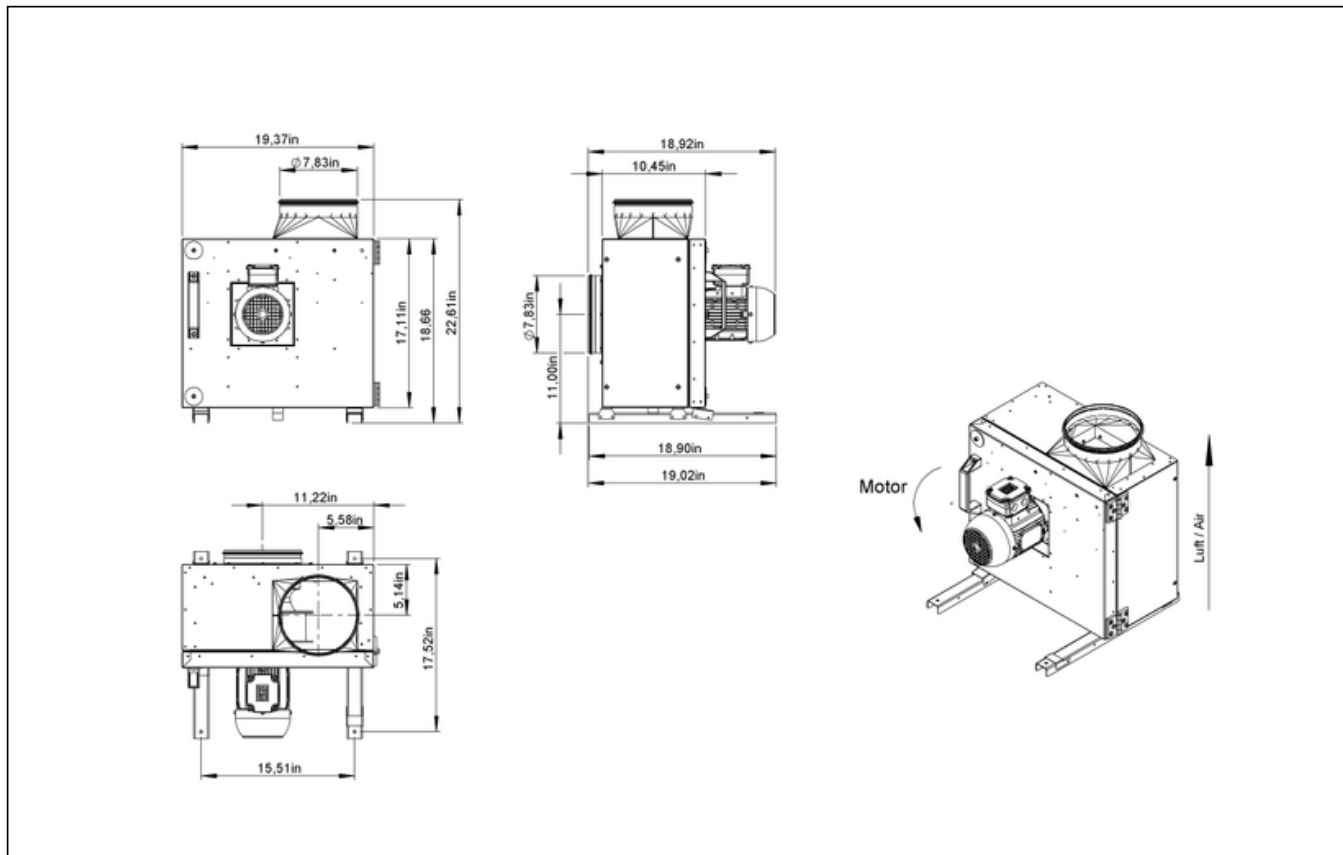


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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

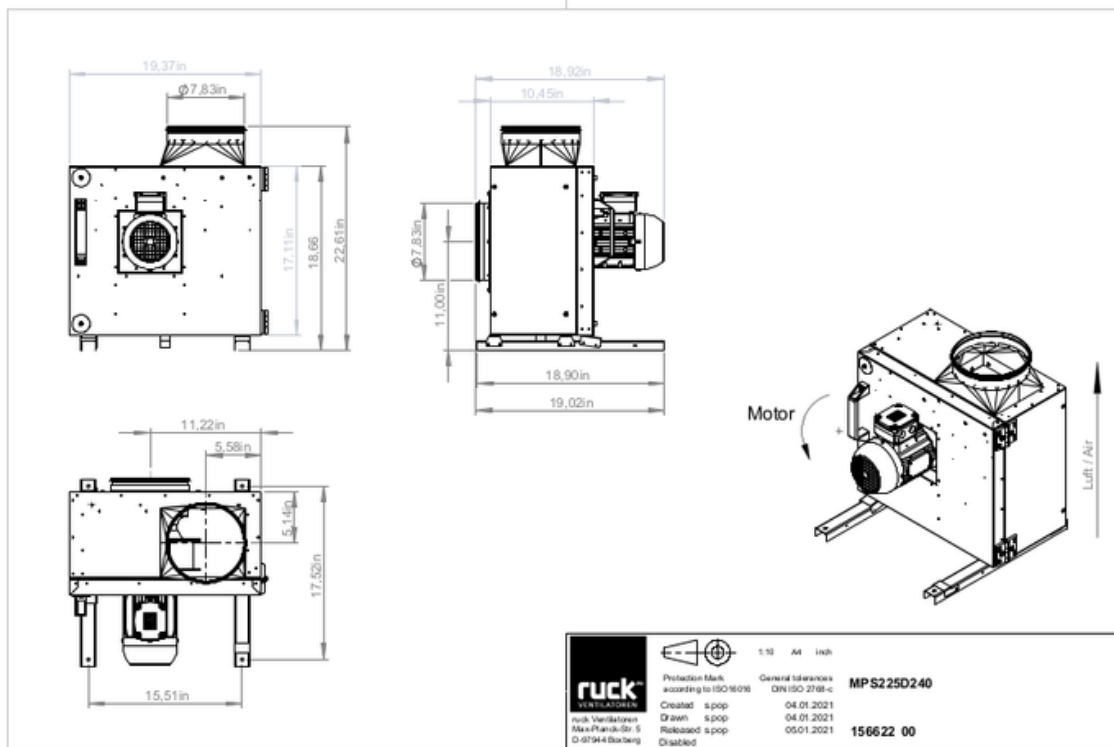


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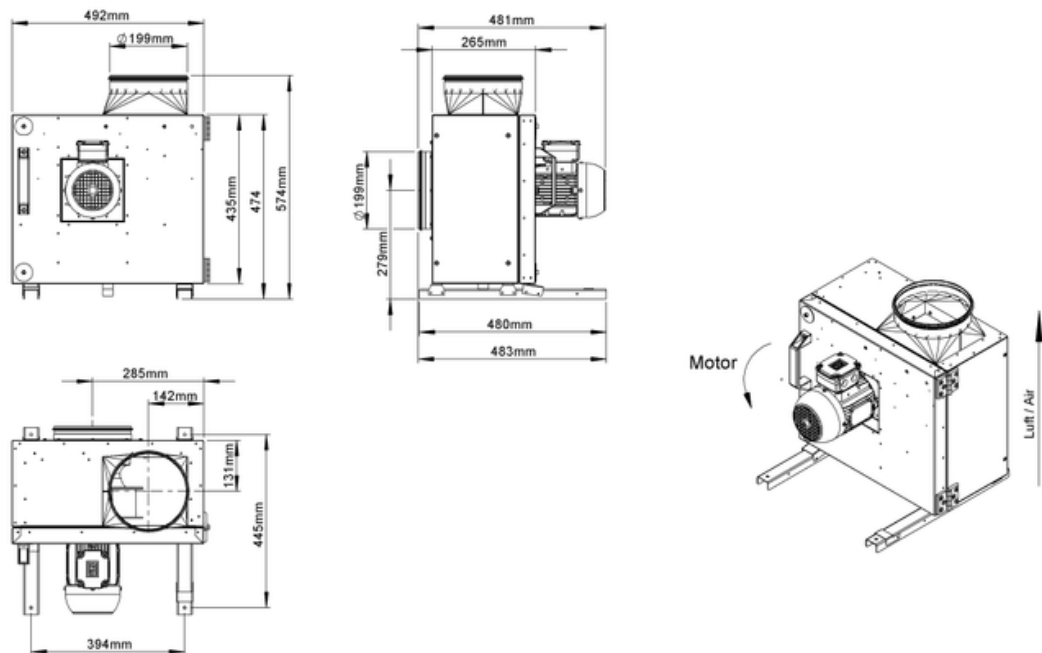
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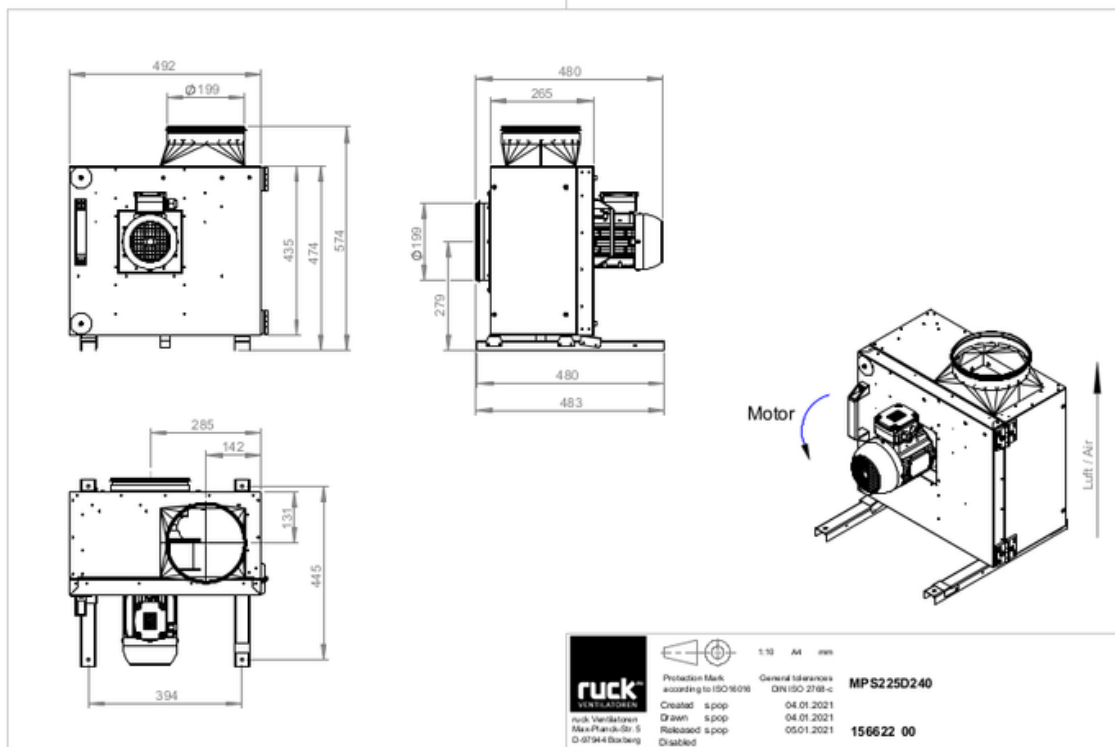


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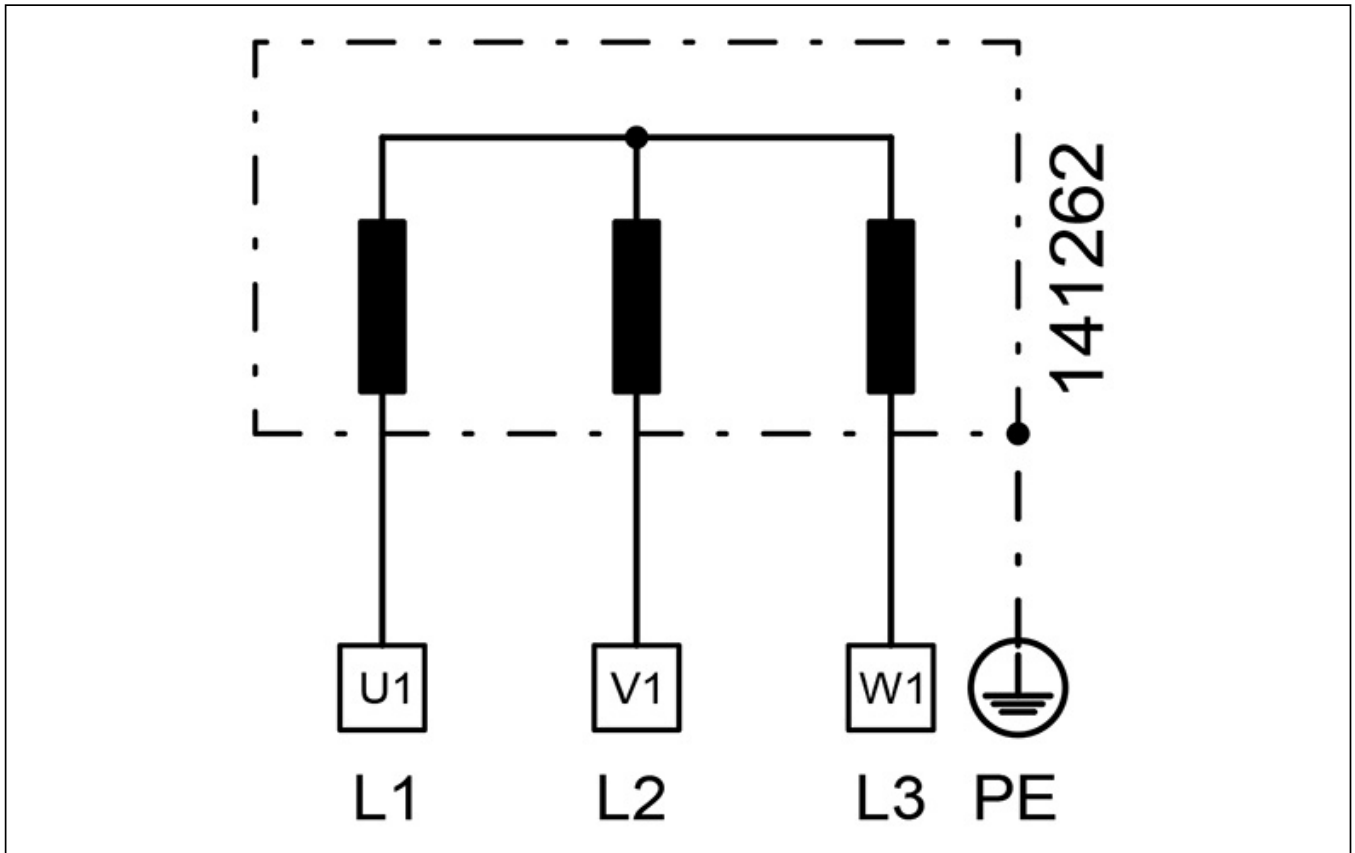
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MECHANICAL ACCESSORIES

RSK 200 | 102662



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

RSK 200D | 113487



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

WK MPS 07 | 127953



- Wall mounting bracket for box fan
- Galvanized steel sheet
- 1 Pack = 2 pieces

VM 200 | 102650



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

WSH MPS | 103661



- Weather protection hood for motor
- Galvanized steel sheet



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ELECTRICAL ACCESSORIES

GS 03 | 107633



- Device switch
- Umax = 400 V, I_{max} = 25 A
- Switching capacity 400 V 3~ = 5,5 kW
- Protection class IP 55

MS 01 | 140407



- Motor protection switch with Isolator switchfunktion
- I_{max} = 400 V, 50/60 Hz
- Max. 0.55 kW
- Protection class IP 55

MTP 20 | 128146



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

MTP 30 | 143289



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

MTP 40 | 147359



- Potentiometer 10 kΩ
- 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 075 08 | 141836



- Frequency converter
- Supply voltage 230 V 1~ 50/60 Hz
- Output voltage 0 - 230 V 3~
- Protection class IP 20, for switch cabinet

FU 075 26 | 141869



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

FU 075 14 | 141847



- Frequency converter IP66
- Supply voltage 230 V 1~ 50/60 Hz
- Output voltage 0 - 230 V 3~
- Fire mode function (smoke extract fans)

FU 075 20 | 141858



- 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 | 153133



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

