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- Backward curved centrifugal impeller
- Swing out fan unit
- Sheet steel housing double-walled, 40 mm mineral wool
- IE3 motor outside the airflow, frequency controllable
- Smoke extract fan F400, 200 °C continuous operation
- With condensate and grease drain



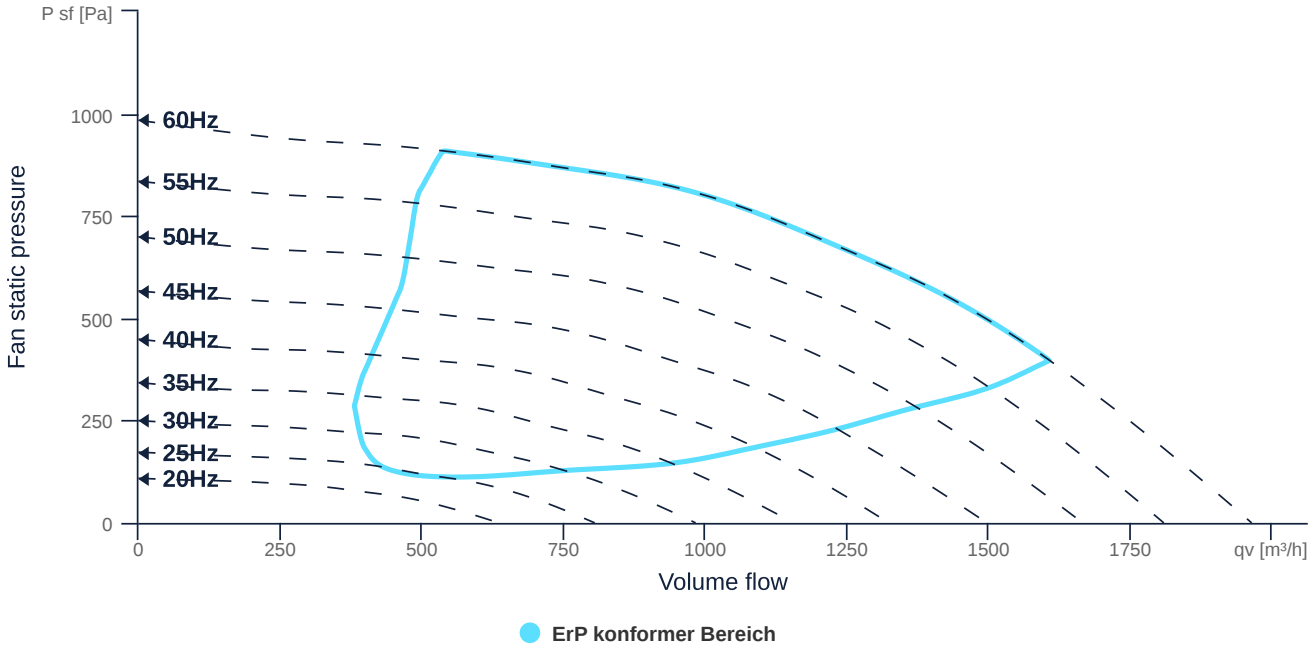
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FAN CURVES

Name	Value	Unit
Volume flow	3636.6	m³/h
Pressure	-208.13	Pa



ruck Ventilatoren GmbH certifies that the fan range MPS shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. / July 2026

F400

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TECHNICAL SPECIFICATIONS

Name	Value	Unit	Formula symbol
Volume flow	1963	m³/h	q_{vcalc}
Pressure	0	Pa	psf_{calc}
Fan pressure	181	Pa	pf
Fan static pressure	0	Pa	psf
Current consumption Motor	0.8	A	Ie
Current consumption Electric	0	A	Ied
Electrical power consumption	415	W	P_{eK}
Electrical power consumption	450	W	Ped_K
Frequency	59	Hz	frq
Rotation speed	3469	1/min	N
Total static efficiency	0	%	etaFaPeK
Total speed controlled static efficiency	0	%	etaFaPedK
Total efficiency	23	%	etatPeK
Total speed controlled efficiency	21	%	etatPedK
SFP (entire device)	762	W/(m³/s)	sfp_{device}
Sound power level inlet	84	dB(A)	LwA5
Sound power level outlet	87	dB(A)	LwA6
Sound power level housing radiation	75	dB(A)	LwA2

SOUND DATA

Sound power	mid-frequency tape										Unit	Formula symbol
	∑	63	125	250	500	1000	2000	4000	8000	16000		
suction	85	48	66	72	80	79	77	77	69	51	dB(A)	LwA5
blowout	88	47	66	70	85	78	81	78	71	51	dB(A)	LwA6
Casing break out	76	50	65	64	69	69	71	66	59	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
		∑	63	125	250	500	1000	2000	4000	8000	16000		
suction	63	67	30	49	54	63	61	59	60	52	33	dB(A)	LwA5
blowout	67	70	30	49	52	67	61	63	60	54	33	dB(A)	LwA6
Casing break out	54	58	33	48	47	51	51	53	49	41	28	dB(A)	LwA2

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GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA, AMCA		
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	Coated steel		$mat_{impeller}$
Weight	37.3	kg	m
Nominal air flow rate, nominal point m³/h	1551.6	m³/h	qv_{nom}
Nominal external pressure, static	449	Pa	$p_{s,nom}$
Fan type	Radial		Fan_{type}
Category / Installation situation	A		cat
Length	265	mm	
Width	492	mm	
Height	574	mm	

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	rpm	n_{max}
Max. stat. efficiency	46.3	p	η_{es}
Max. fan efficiency	50.6	p	η_{e}
Max. flowrate	1960	m³/h	$q_{v,\ max}$
Max. stat pressure	980	Pa	$p_{sf,\ max}$
Max. medium temperature	200	°C	$T_{m,\ max}$
Max. environment temperature	50	°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		$ctrl_{type}$
Installation type		IRM (In)		install
Isolation class		ISO F		ISO_{class}
Protection class		IP55		IP_{motor}
Is pole-changeable		No		polexch
Type of power supply		AC 3~		$pwrsup_{motor}$
Number of poles (1)		2.000000		$num\ poles_{w1}$
Connection	Δ	Y		$wiring_{w1}$
Connection (wiring 2)	Y			$wiring_{w2}$
Rated voltage	230	460	v	$U_{rated,\ f1}$
Rated voltage (wiring 2)	400		v	$U_{rated,\ f2}$
Rated current	2.06	1.07	A	$I_{rated,\ f1}$
Rated current (wiring 2)	1.19		A	$I_{rated,\ f2}$
Nominal power	550	550	w	P_a
Nominal power (wiring 2)	550		w	$P_{out,\ f2}$
Speed	2800	3440	rpm	n_{f1}
Speed (wiring 2)	2800		rpm	n_{f2}
Starting current	12.2	7.81	A	$I_{start,\ f1}$
Starting current (wiring 2)	7.02		A	$I_{start,\ f2}$
Efficiency	77.8	77	p	$\eta_{m,\ f1}$
Efficiency (wiring 2)	77.8		p	$\eta_{m,\ f2}$
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		UL_{cert}

SMOKE EXTRACT DATA

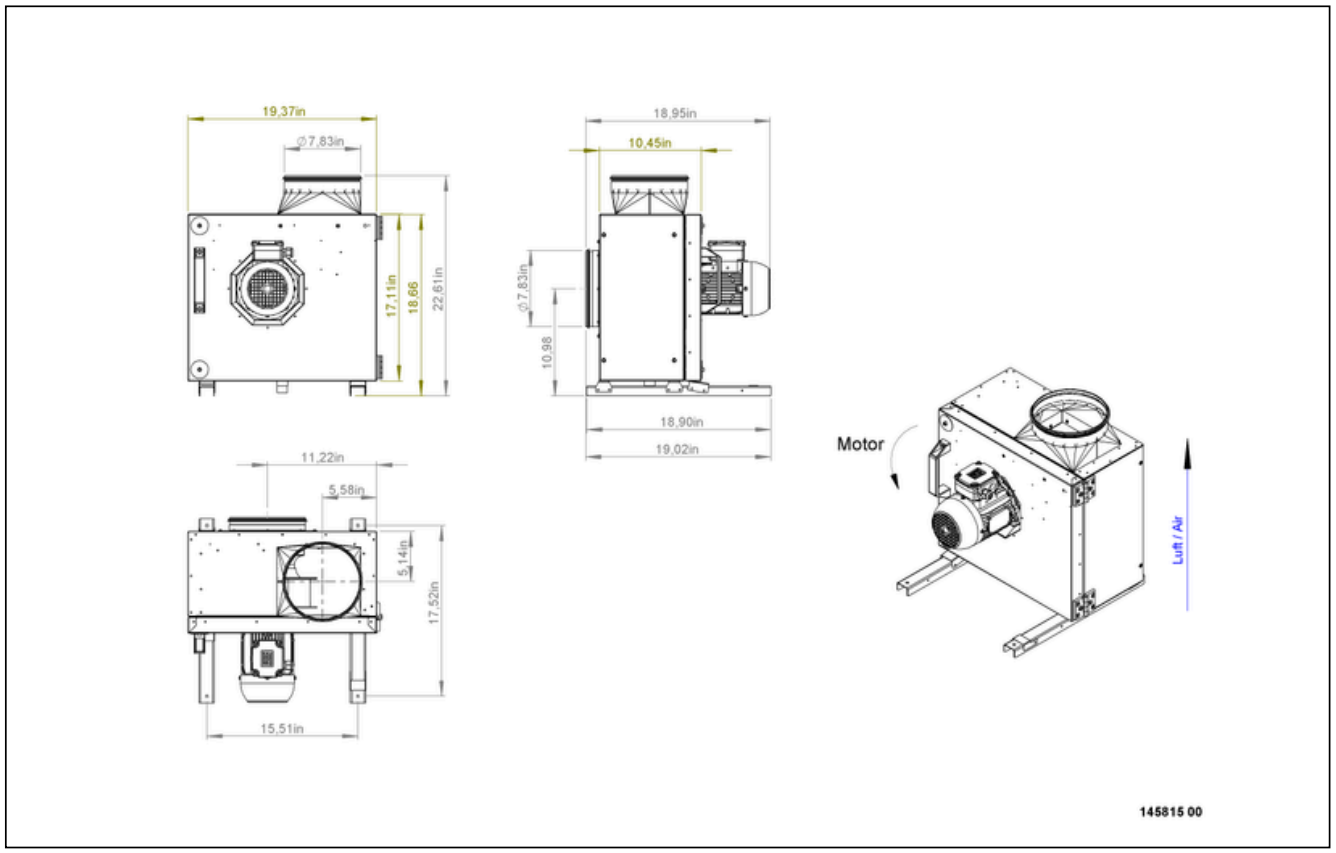
Name	Value	Unit	Formula symbol
Maximum resistance temperature	400	°C	T_{fire}
Maximum resistance time	120.000000		t_{fire}
Fire resistance class	F 400 (120)		F_{class}
Snow load class	-		SL_{class}

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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

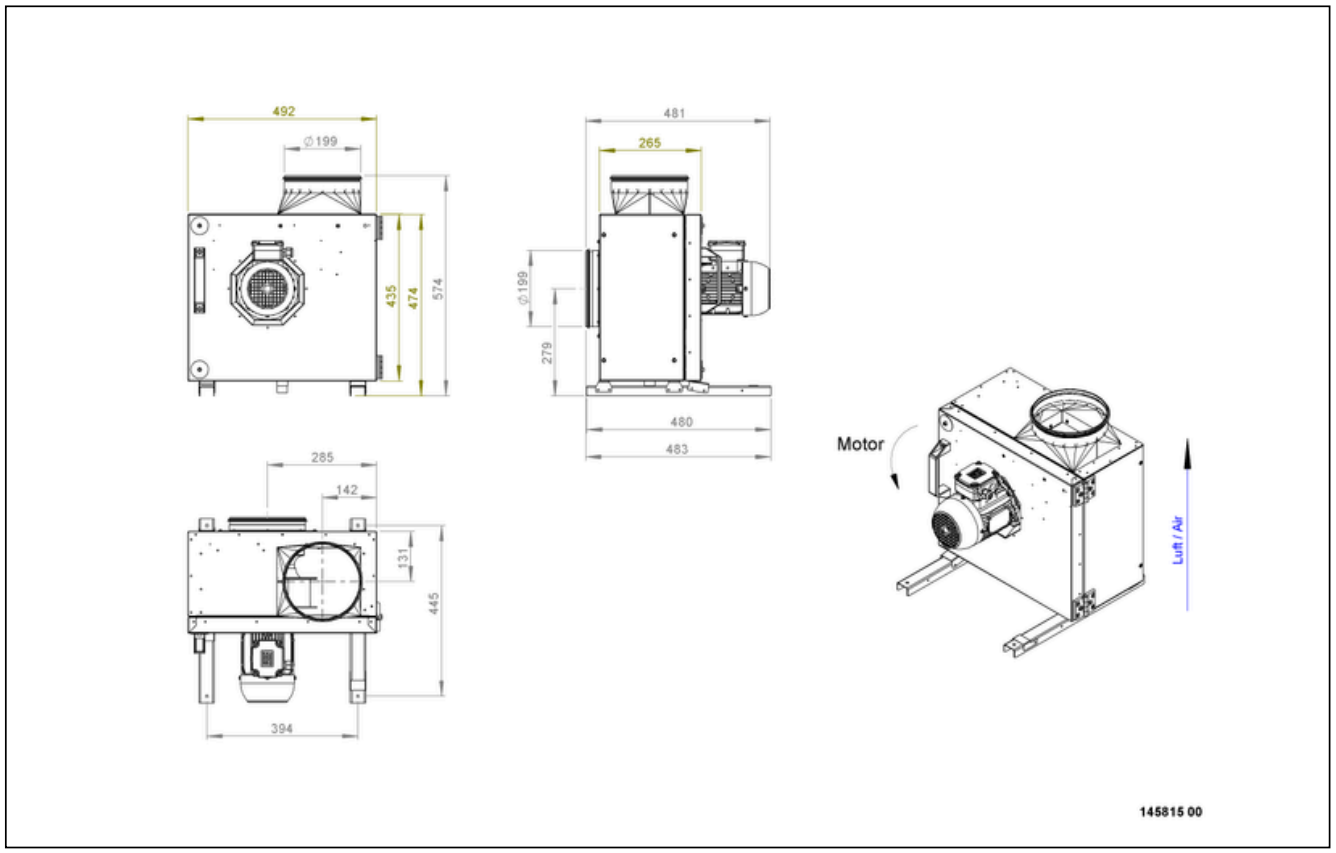


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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

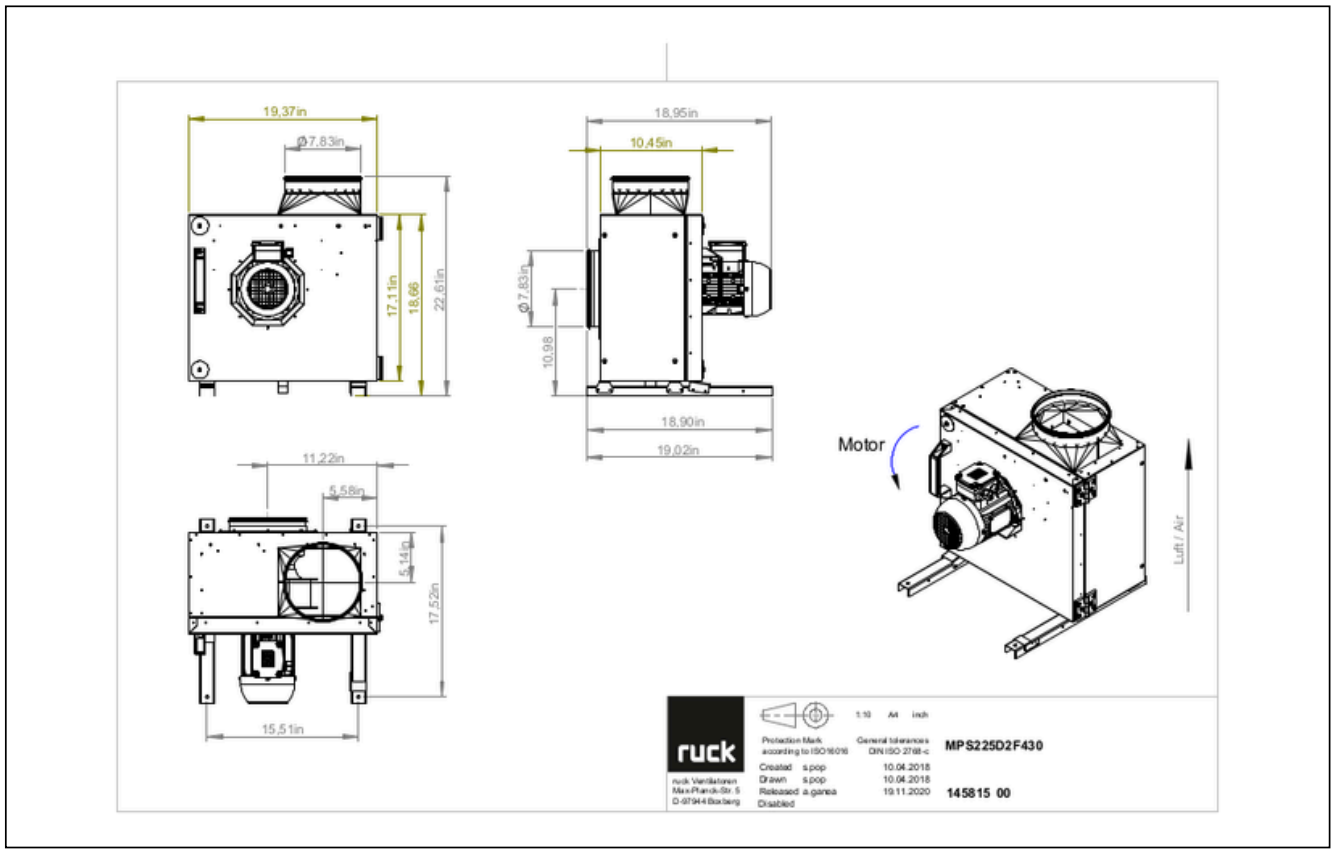


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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

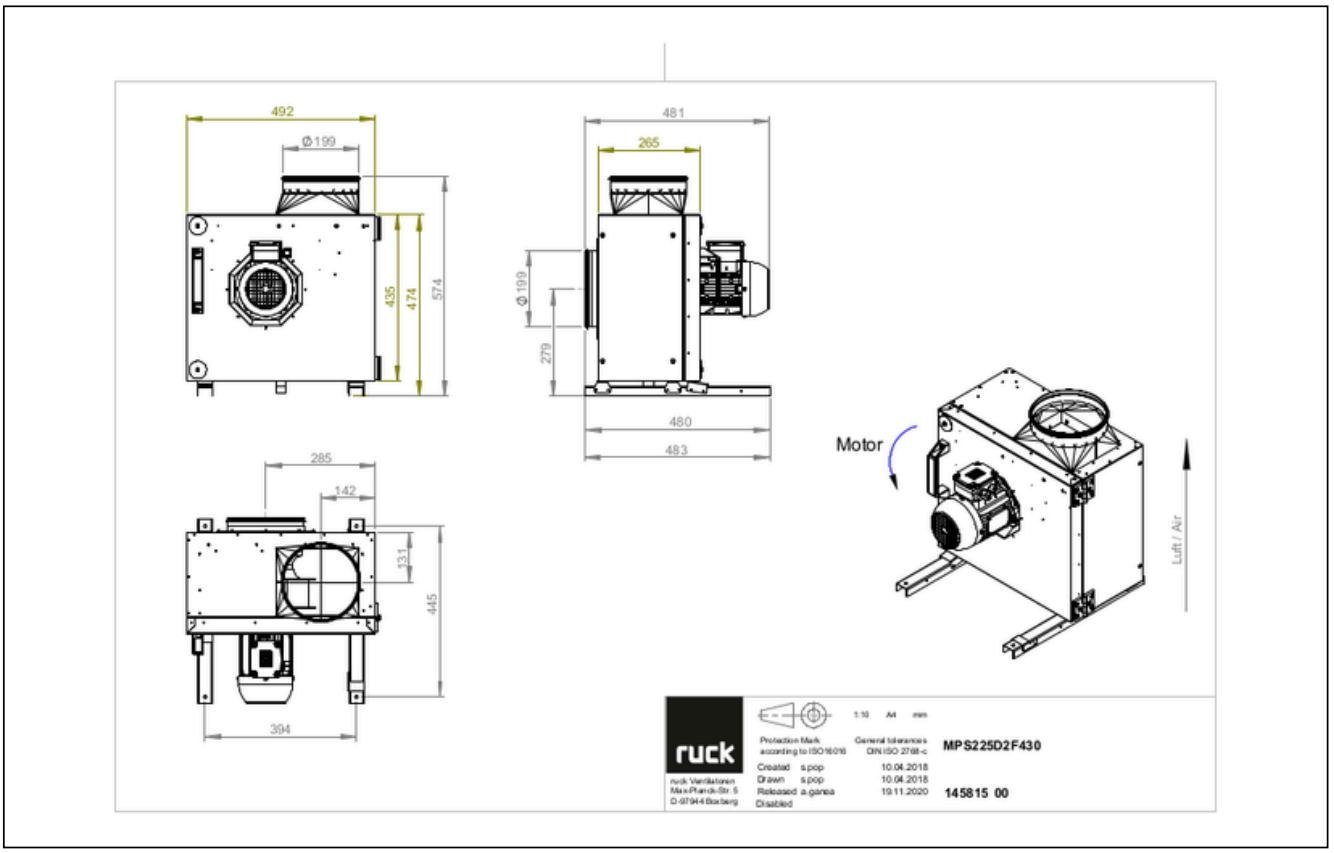


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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

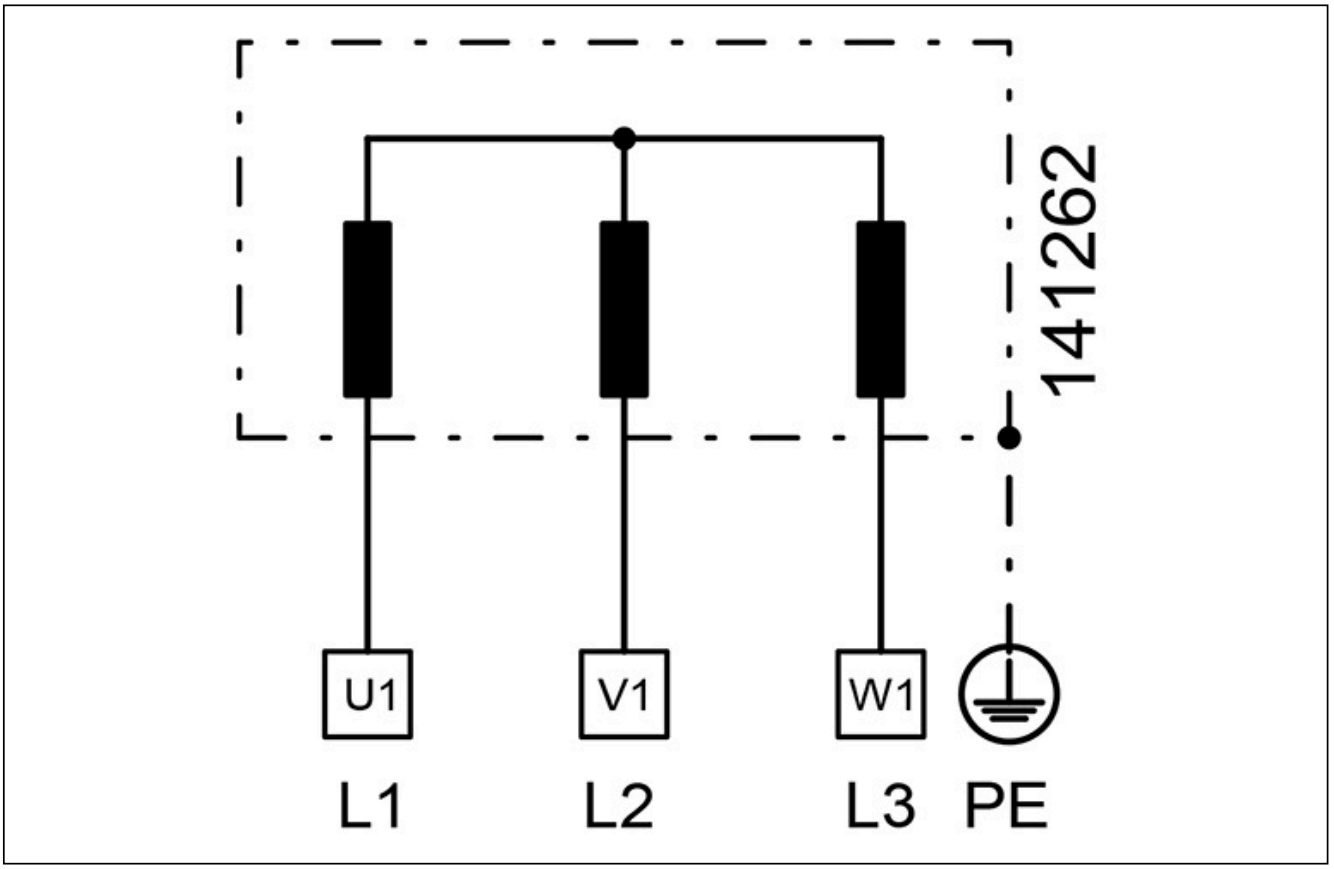


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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



MECHANICAL ACCESSORIES

WSH MPS | 103661



- Weather protection hood for motor
- Galvanized steel sheet

WK MPS 07 | 127953



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

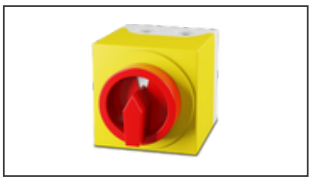
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ELECTRICAL ACCESSORIES

GS 03 | 107633



- Device switch
- Umax = 400 V, Imax = 25 A
- Switching capacity 400 V 3~ = 7,5 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 kΩ
- Switching contact 1A/250V AC - 2,5A/12V DC
- Max. ambient temperature 50 °C

MS 01 | 140407



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

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 26 | 141869



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

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

MTP 50 | 168752



- 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

MTP 30 | 177381



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

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