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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



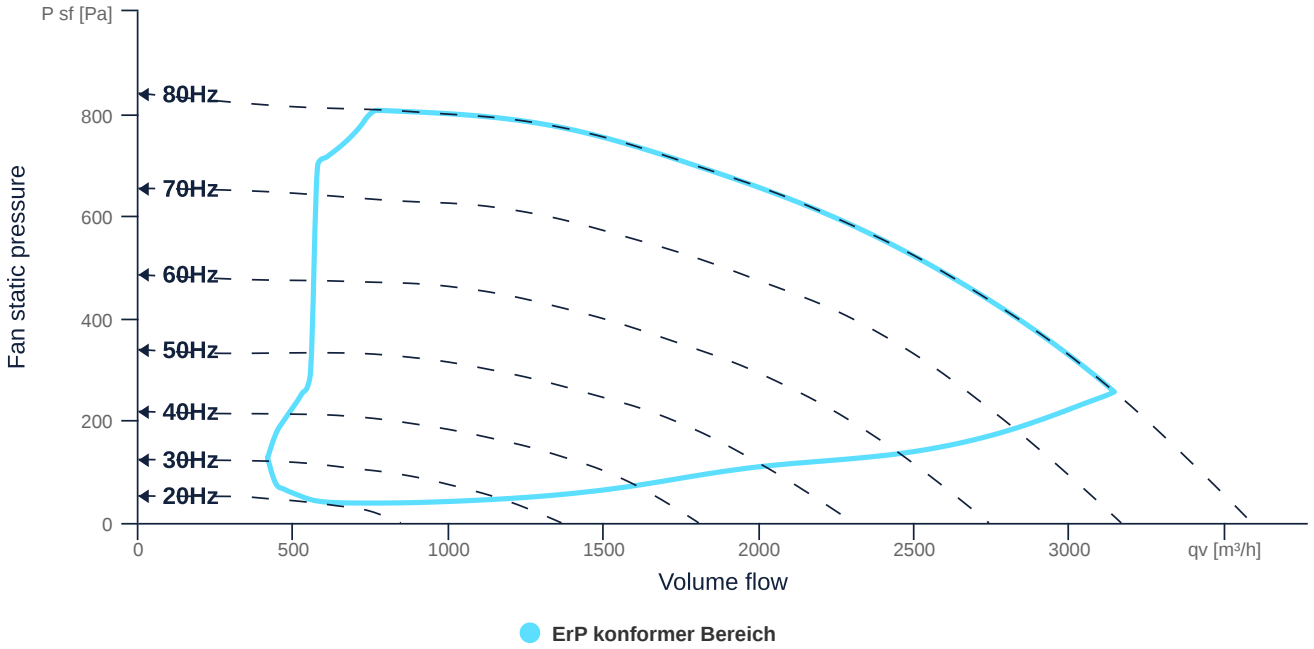
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FAN CURVES

Name	Value	Unit
Volume flow	1912.4	m³/h
Pressure	-217.89	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

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TECHNICAL SPECIFICATIONS

Name	Value	Unit	Formula symbol
Volume flow	1912	m³/h	q_{vcalc}
Pressure	-218	Pa	psf_{calc}
Fan pressure	16	Pa	pf
Fan static pressure	-218	Pa	psf
Current consumption Motor	0.7	A	Ie
Current consumption Electric	0	A	Ied
Electrical power consumption	114	W	P_{EK}
Electrical power consumption	149	W	Ped_K
Frequency	42	Hz	frq
Rotation speed	1254	1/min	N
Total static efficiency	-102	%	etaFaPeK
Total speed controlled static efficiency	-78	%	etaFaPedK
Total efficiency	7	%	etatPeK
Total speed controlled efficiency	5	%	etatPedK
SFP (entire device)	215	W/(m³/s)	sfp_{device}
Sound power level inlet	70	dB(A)	LwA5
Sound power level outlet	70	dB(A)	LwA6
Sound power level housing radiation	59	dB(A)	LwA2

SOUND DATA

Sound power	mid-frequency tape										Unit	Formula symbol
	Σ	63	125	250	500	1000	2000	4000	8000	16000		
suction	70	36	62	64	65	61	62	56	50	45	dB(A)	LwA5
blowout	70	38	58	61	62	65	65	57	48	42	dB(A)	LwA6
Casing break out	60	40	56	53	49	51	46	39	43	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	46	53	19	44	46	48	44	44	39	33	28	dB(A)	LwA5
blowout	48	53	20	40	44	44	48	47	40	30	24	dB(A)	LwA6
Casing break out	37	42	22	39	36	31	34	28	22	25	29	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)	DN355		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	52.9	kg	m
Nominal air flow rate, nominal point m³/h	3088.8	m³/h	qv_{nom}
Nominal external pressure, static	289	Pa	$p_{s,nom}$
Fan type	Radial		Fan_{type}
Category / Installation situation	A		cat
Length	365	mm	
Width	700	mm	
Height	790	mm	

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	669	w	$P_{ed,\ max}$
Max. operating current (device)	1.18	A	$I_{ed,\ max}$
Max. speed	2360	rpm	n_{max}
Max. stat. efficiency	53.5	p	η_{es}
Max. fan efficiency	56	p	η_{e}
Max. flowrate	3580	m³/h	$q_{v,\ max}$
Max. stat pressure	840	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)		4.000000		$num\ poles_{w1}$
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	2.14	1.09	A	$I_{rated,\ f1}$
Rated current (wiring 2)	1.23		A	$I_{rated,\ f2}$
Nominal power	550	550	w	P_a
Nominal power (wiring 2)	550		w	$P_{out,\ f2}$
Speed	1420	1720	rpm	n_{f1}
Speed (wiring 2)	1420		rpm	n_{f2}
Starting current	14.1	7.96	A	$I_{start,\ f1}$
Starting current (wiring 2)	8.12		A	$I_{start,\ f2}$
Efficiency	80.8	81.1	p	$\eta_{m,\ f1}$
Efficiency (wiring 2)	80.8		p	$\eta_{m,\ f2}$
Efficiency class	IE3	IE3		IE_{motor}
Min. temperature	-20	-20	°C	$T_{motor,\ min}$
Cos Phi	0.800000	0.780000		cos φ
UL-Certification motor		UL recognized		UL_{cert}

SMOKE EXTRACT DATA

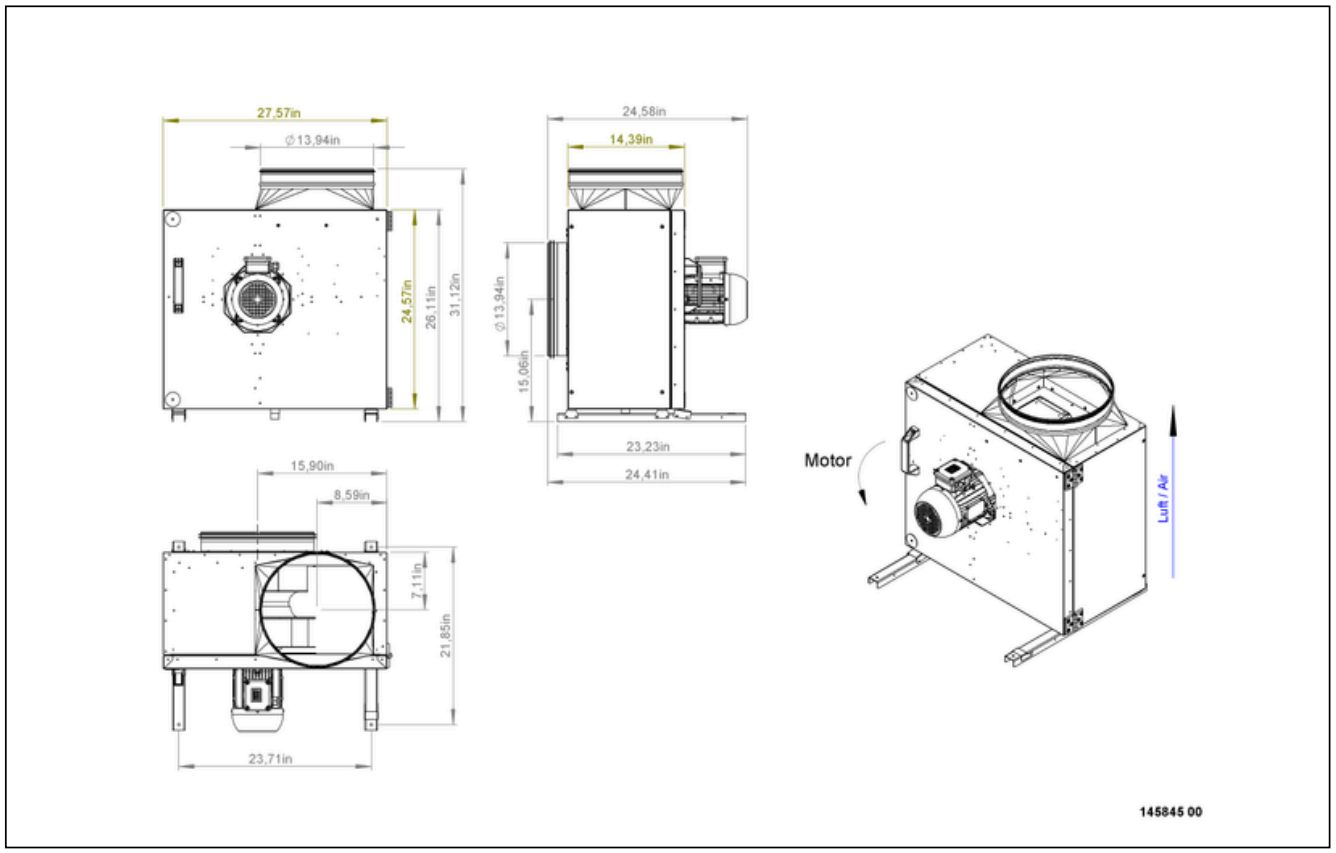
Name	Value	Unit	Formula symbol
Maximum resistance temperature	400	°C	T_{fire}
Maximum resistance time	120.000000		t_{fire}
Fire resistance class	F 400 (120)		F_{class}
Snow load class	-		SL_{class}

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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

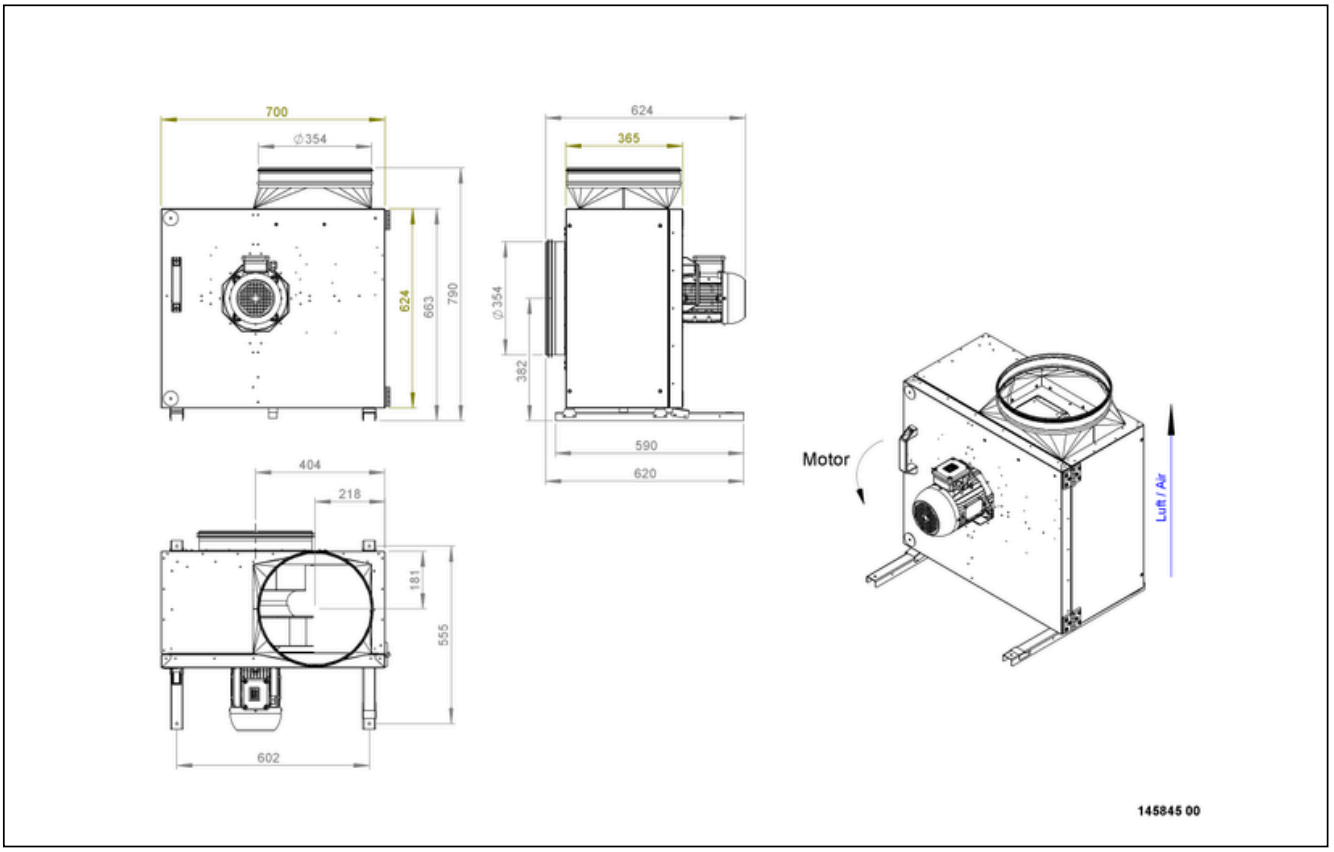


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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

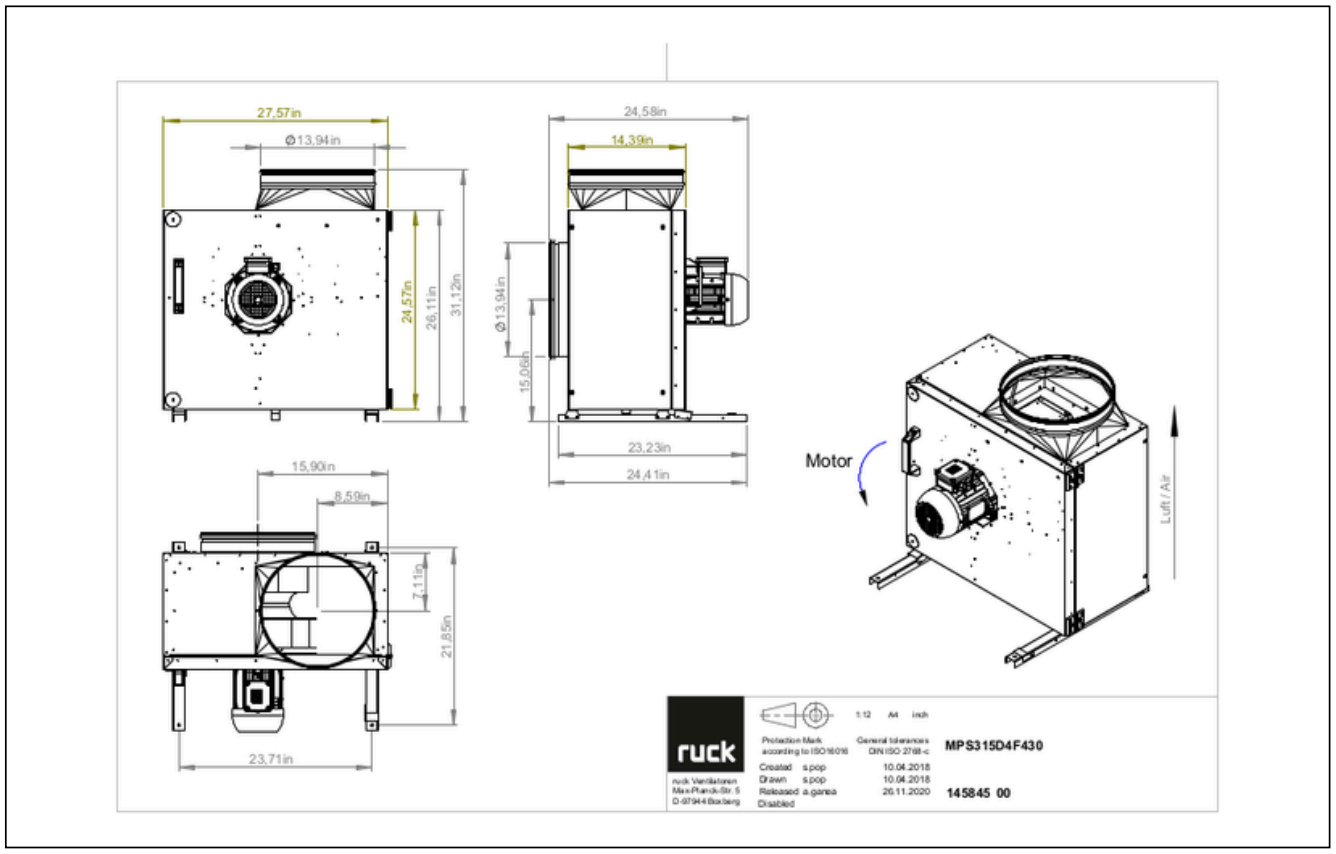


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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

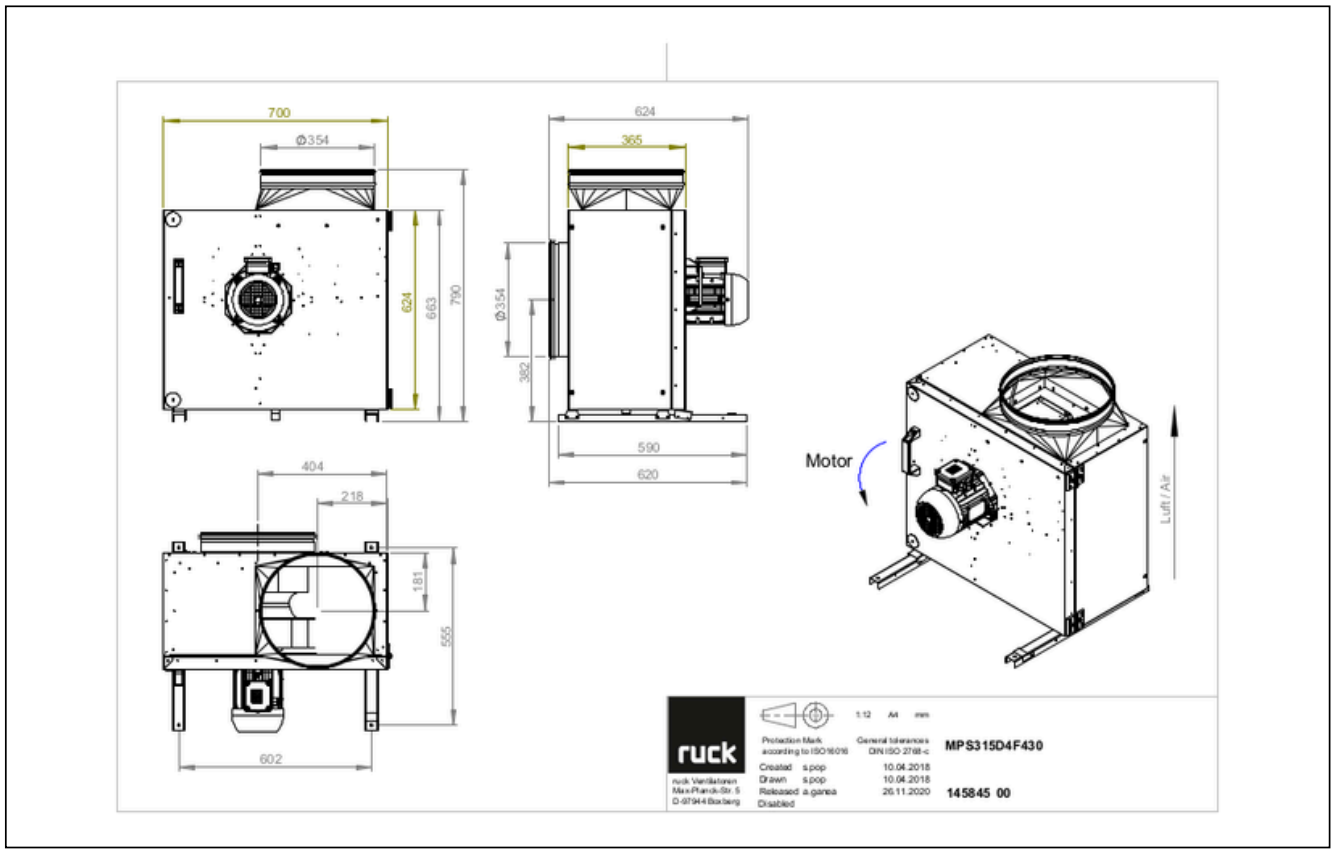


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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

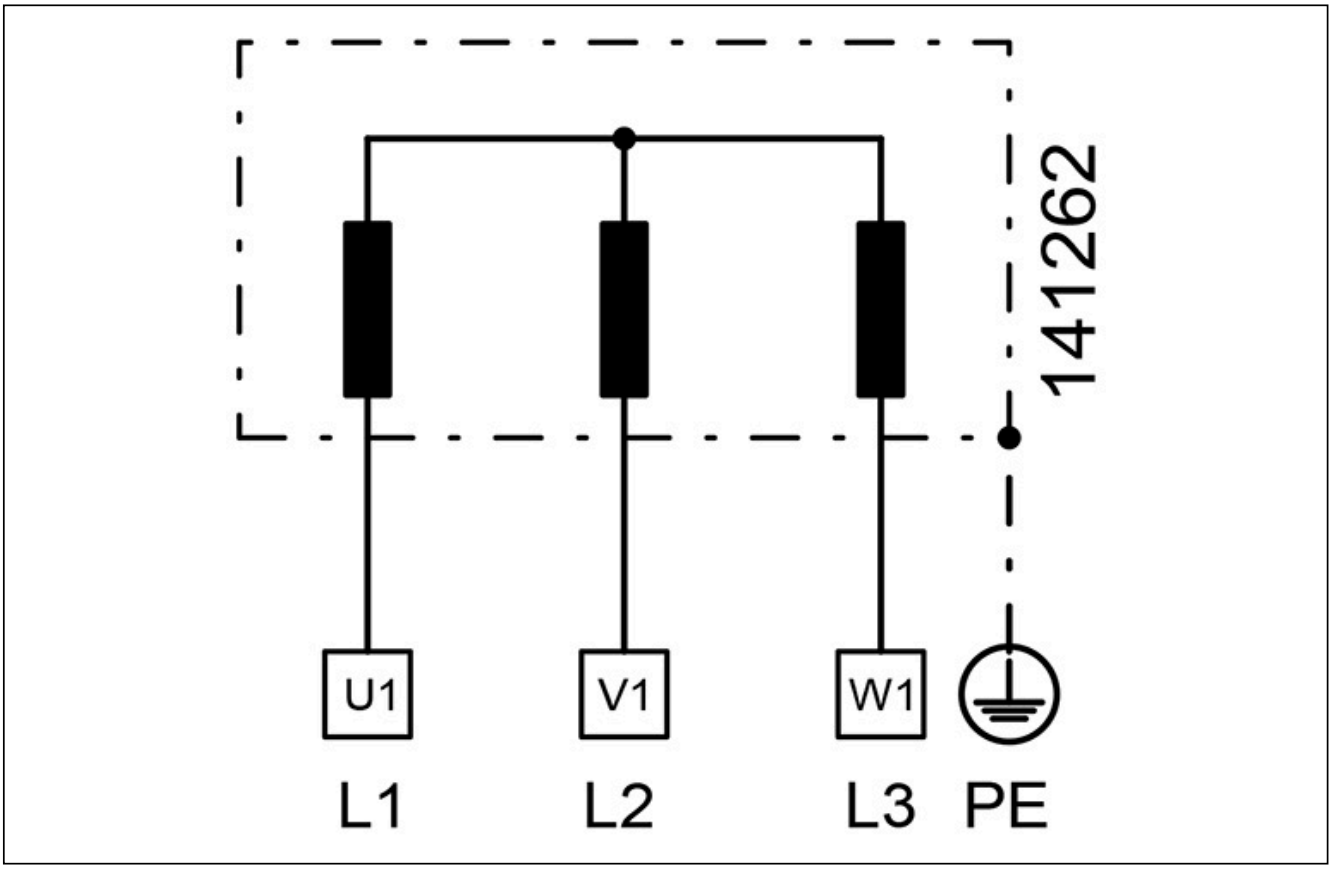


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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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

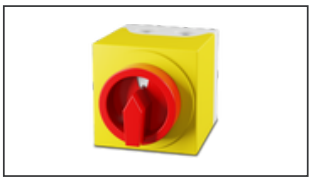
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ELECTRICAL ACCESSORIES

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 17 | 141851



- 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 29 | 141873



- 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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