MPS 355 D4 F4 30

145862

- 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



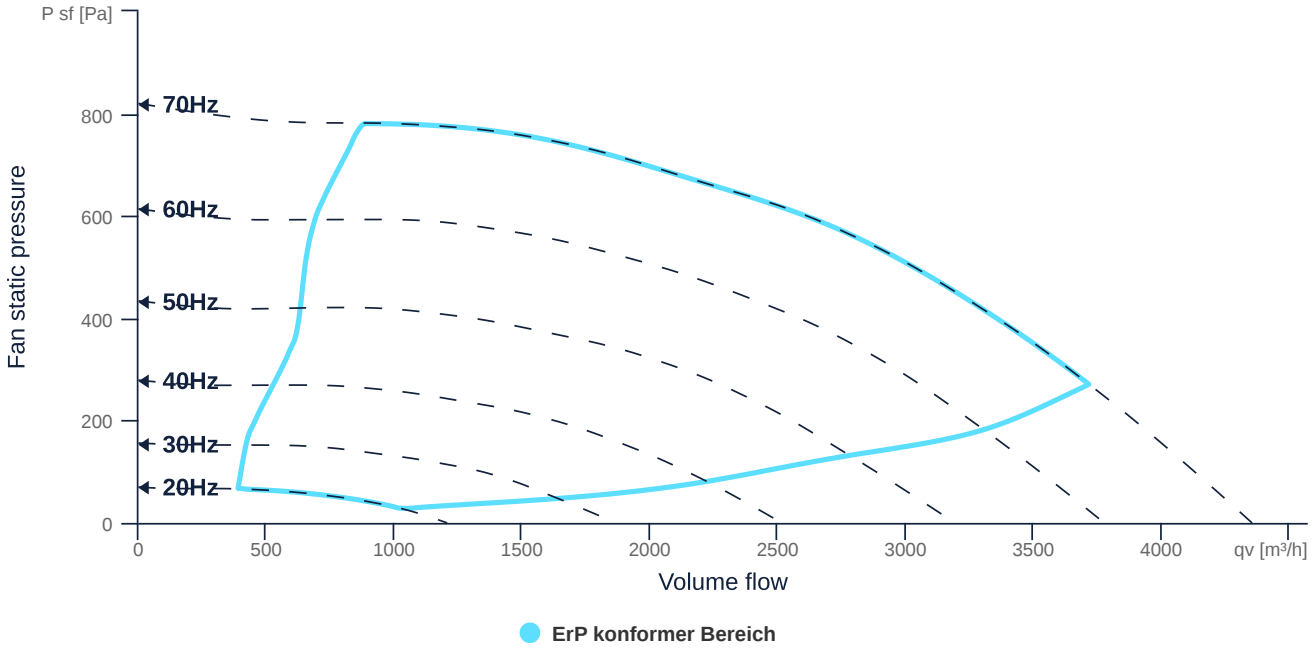
to the product detail page

MPS 355 D4 F4 30

145862

FAN CURVES

Name	Value	Unit
Volume flow	2706.43	m³/h
Pressure	-239.84	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

to the product detail page

MPS 355 D4 F4 30

145862

TECHNICAL SPECIFICATIONS

Name	Value	Unit	Formula symbol
Volume flow	2706	m³/h	q_{vcalc}
Pressure	-240	Pa	psf_{calc}
Fan pressure	34	Pa	pf
Fan static pressure	-240	Pa	psf
Current consumption Motor	0.7	A	Ie
Current consumption Electric	0	A	Ied
Electrical power consumption	171	W	P_{EK}
Electrical power consumption	209	W	Ped_K
Frequency	42	Hz	frq
Rotation speed	1265	1/min	N
Total static efficiency	-106	%	etaFaPeK
Total speed controlled static efficiency	-87	%	etaFaPedK
Total efficiency	15	%	etatPeK
Total speed controlled efficiency	12	%	etatPedK
SFP (entire device)	228	W/(m³/s)	sfp_{device}
Sound power level inlet	75	dB(A)	LwA5
Sound power level outlet	74	dB(A)	LwA6
Sound power level housing radiation	63	dB(A)	LwA2

SOUND DATA

Sound power	mid-frequency tape										Unit	Formula symbol
	∑	63	125	250	500	1000	2000	4000	8000	16000		
suction	76	43	64	67	70	68	68	66	66	45	dB(A)	LwA5
blowout	75	44	62	65	66	69	68	65	65	41	dB(A)	LwA6
Casing break out	63	44	61	57	52	52	50	46	44	43	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	55	58	25	47	49	53	51	50	48	49	28	dB(A)	LwA5
blowout	54	57	26	44	48	49	52	51	48	48	24	dB(A)	LwA6
Casing break out	42	46	27	43	40	34	34	32	29	26	25	dB(A)	LwA2

to the product detail page

MPS 355 D4 F4 30

145862

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	54.7	kg	m
Nominal air flow rate, nominal point m³/h	3632.4	m³/h	qv_{nom}
Nominal external pressure, static	297	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)	775	w	$P_{ed,\ max}$
Max. operating current (device)	1.36	A	$I_{ed,\ max}$
Max. speed	2060	rpm	n_{max}
Max. stat. efficiency	53.9	p	η_{es}
Max. fan efficiency	57.6	p	η_{e}
Max. flowrate	4350	m³/h	$q_{v,\ max}$
Max. stat pressure	820	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	$T_{amb,\ min}$

to the product detail page

MPS 355 D4 F4 30

145862

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

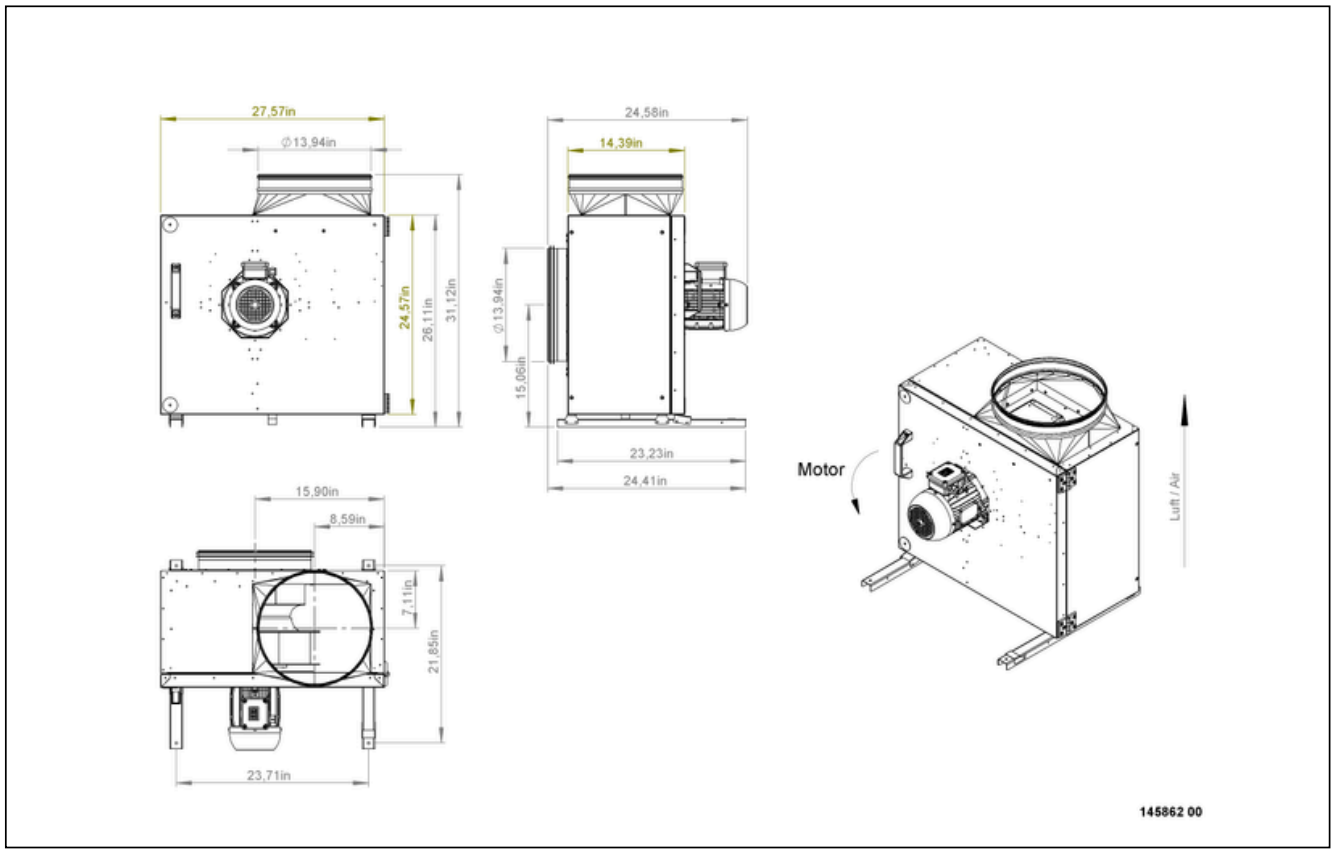
Name	Value	Unit	Formula symbol
Maximum resistance temperature	400	°C	T_{fire}
Maximum resistance time	120.000000		t_{fire}
Fire resistance class	F 400 (120)		F_{class}
Snow load class	-		SL_{class}

to the product detail page

MPS 355 D4 F4 30

145862

CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

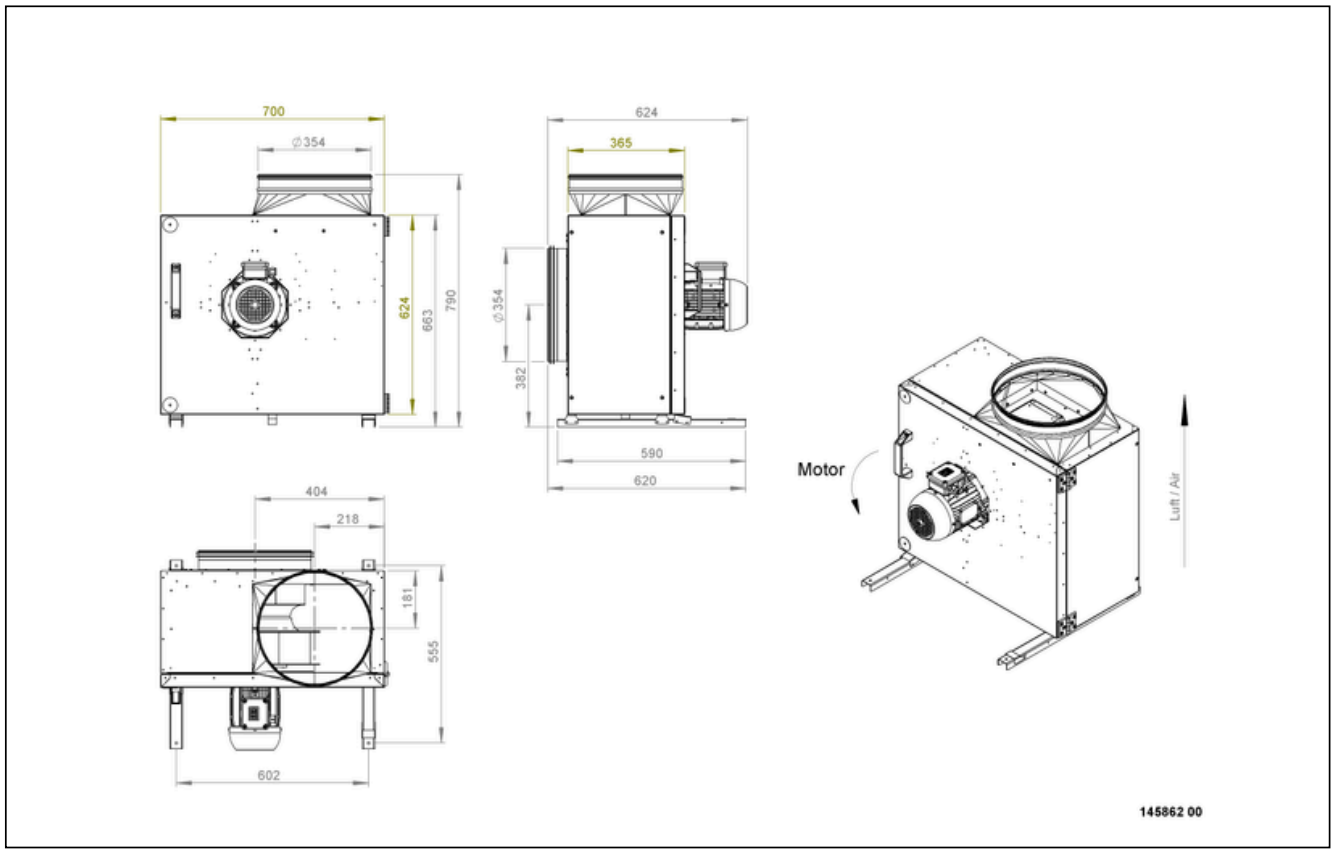


to the product detail page

MPS 355 D4 F4 30

145862

CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

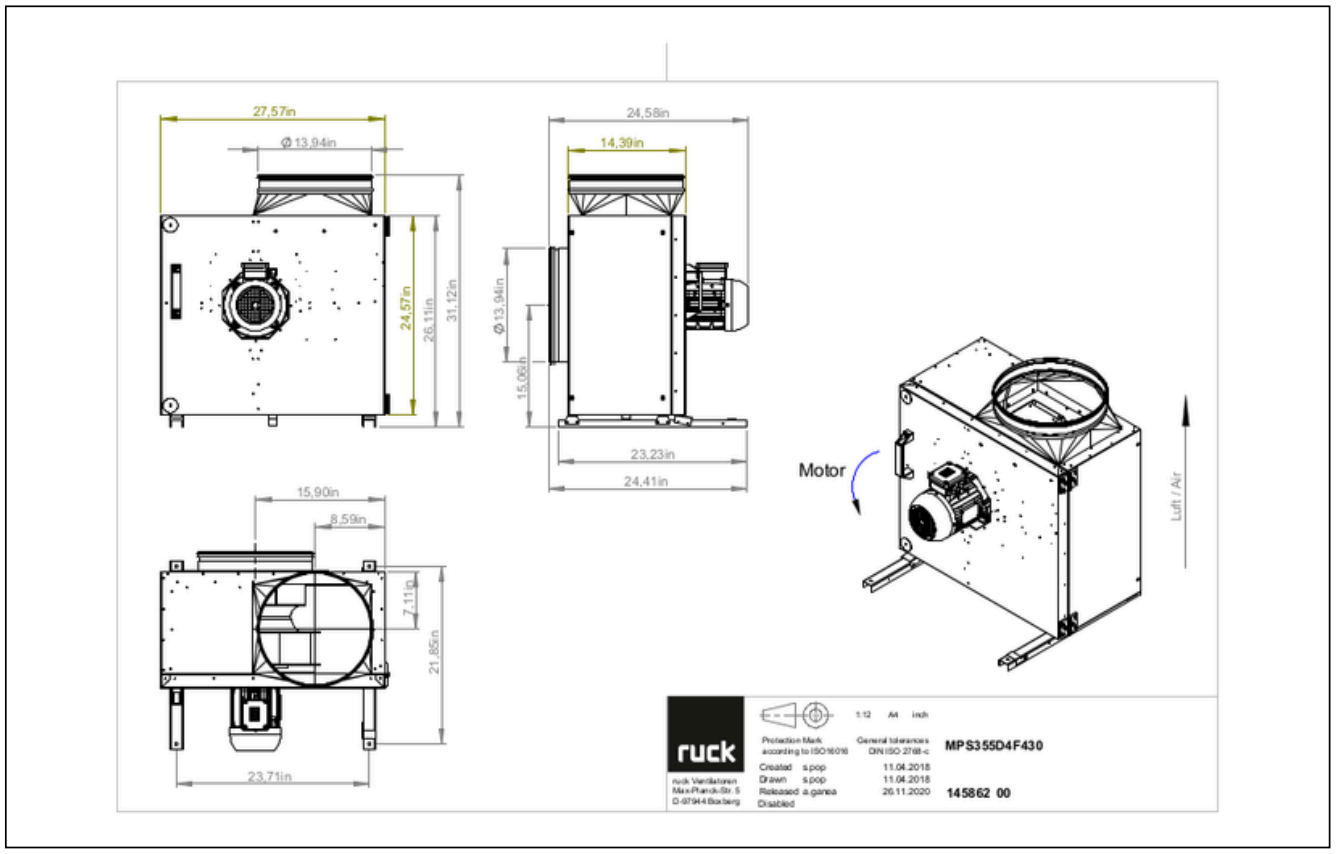


to the product detail page

MPS 355 D4 F4 30

145862

CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

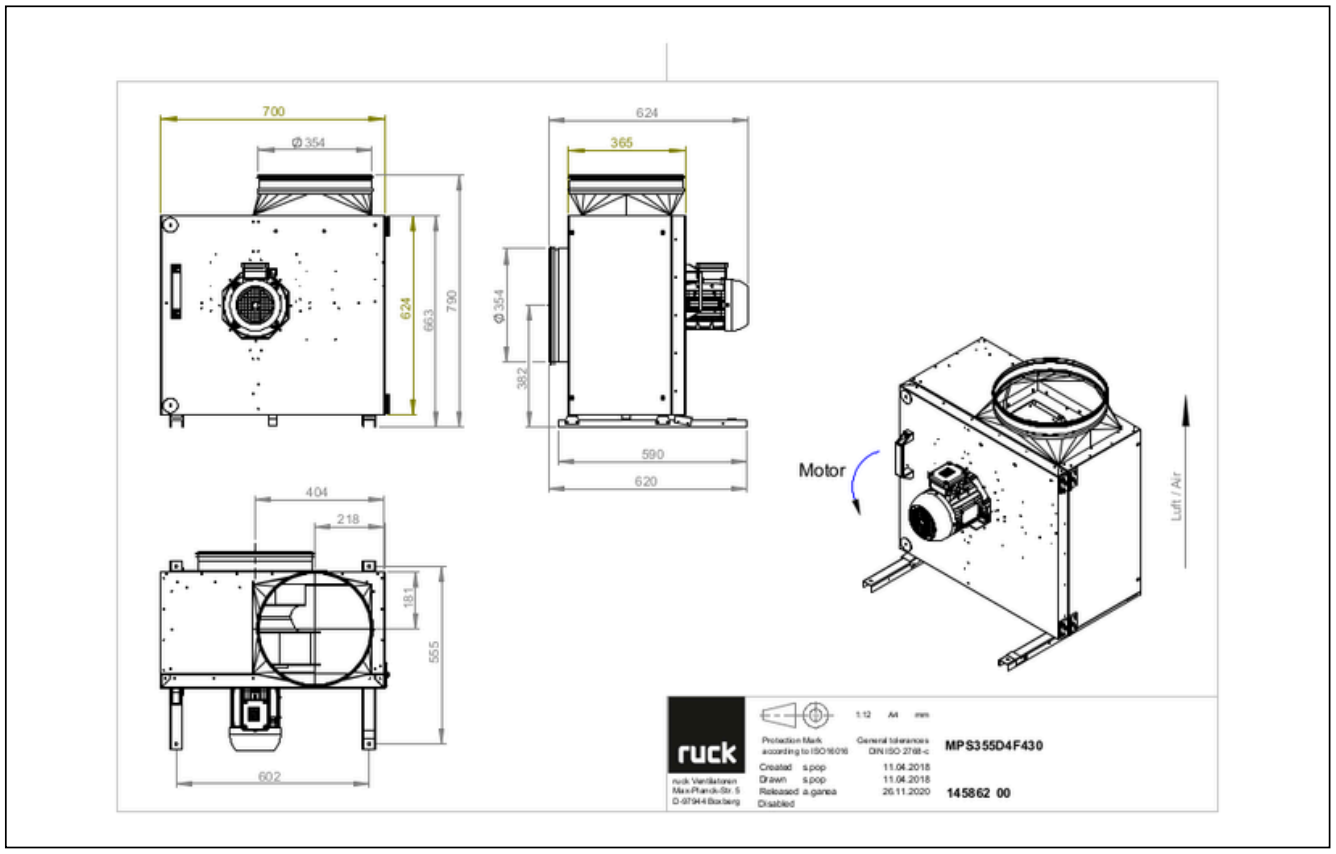


to the product detail page

MPS 355 D4 F4 30

145862

CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

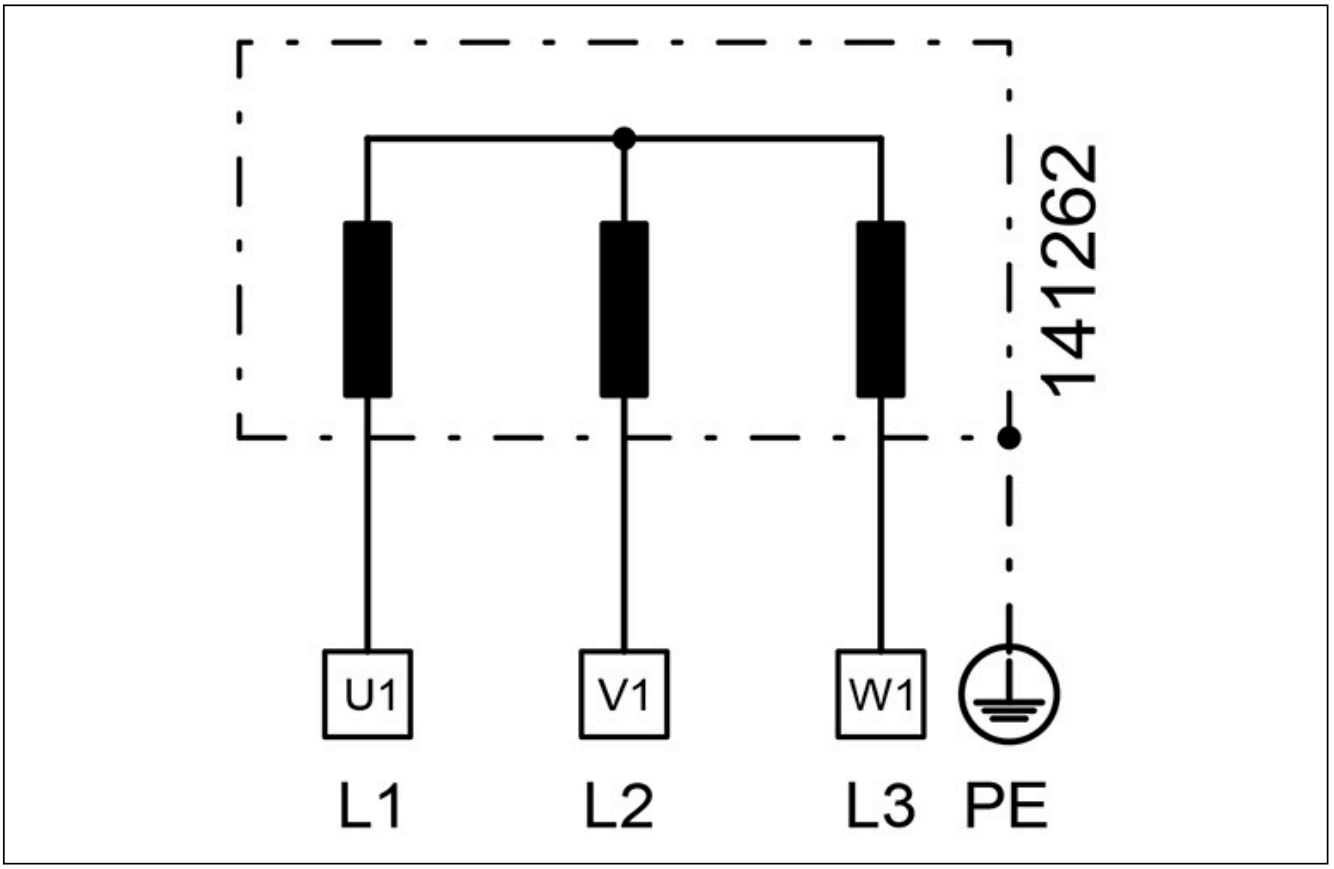


to the product detail page

MPS 355 D4 F4 30

145862

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

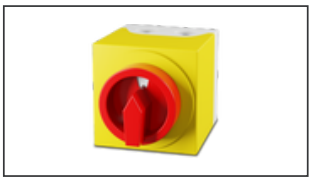
to the product detail page

MPS 355 D4 F4 30

145862

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 18 | 141852



- 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 30 | 141874



- 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

to the product detail page