

MPS 315 D2 F4 30

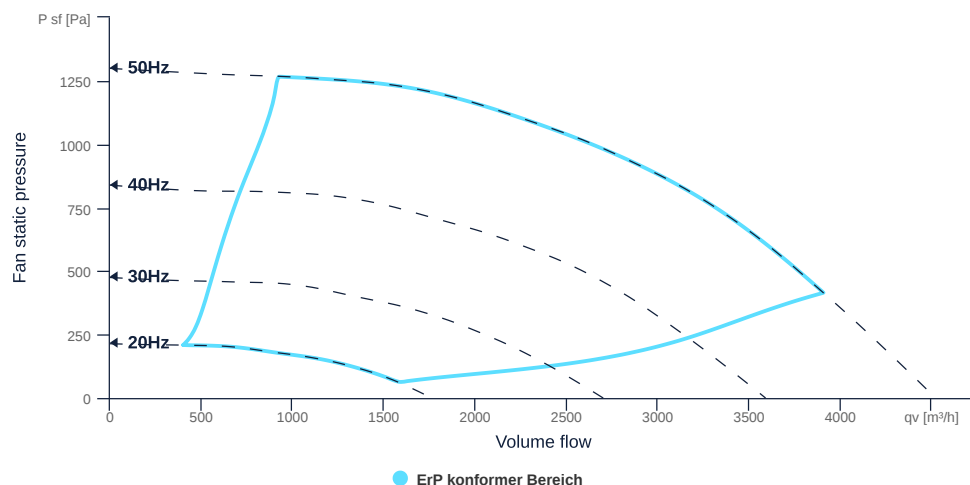
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- Backward curved centrifugal impeller
- Swing out fan unit
- Sheet steel housing double-walled, 40 mm mineral wool
- IE3 motor outside the airflow, frequency controllable
- Smoke extract fan F400, 200 °C continuous operation
- With condensate and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



FAN CURVES

Name	Value	Unit
Volume flow	0	m³/h
Pressure	0	Pa



to the product detail page

MPS 315 D2 F4 30

145840

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GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		WxHduct
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		matcasing
Impeller material	Coated steel		matimpeller
Weight	44.06	kg	m
Nominal air flow rate, nominal point m³/h	3848.4	CmH	q _{v,nom}
Nominal external pressure, static	454	Pa	p _{s,nom}
Fan type	Radial		Fan _{type}
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m³/s	1.07	CmS	q _{v,nom}
Actual electrical input power, nominal point	1.09	kw	P _{e,nom}
Face velocity, nominal point	10.8	mps	v _{nom}
Nominal external pressure, static	454	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	56.8	p	η _{es,SUP}
Highest external air leakage rate	0.05	p	
Enclosure sound level, nominal point	75	db	LWA2
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	1221	w	P _{ed, max}
Max. operating current (device)	2.42	A	I _{ed, max}
Max. speed	2950	rpm	n _{max}
Max. stat. efficiency	57.8	p	η _{es}
Max. fan efficiency	60.2	p	η _e
Max. flowrate	4520	CmH	q _{v, max}
Max. stat pressure	1300	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 315 D2 F4 30

145840

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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		IP _{motor}
Is pole-changeable		No		polexch
Type of power supply		AC 3~		pwr _{sup} 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	4.03	2.05	A	I _{rated, f1}
Rated current (wiring 2)	2.32		A	I _{rated, f2}
Nominal power	1100	1100	w	P _a
Nominal power (wiring 2)	1100		w	P _{out, f2}
Speed	2830	3450	rpm	n _{r1}
Speed (wiring 2)	2830		rpm	n _{r2}
Starting current	29.9	16.4	A	I _{start, f1}
Starting current (wiring 2)	17.2		A	I _{start, f2}
Efficiency	83.5	84	p	η _{m, f1}
Efficiency (wiring 2)	83.5		p	η _{m, f2}
Efficiency class	IE3	IE3		IE _{motor}
Min. temperature	-20	-20	°C	T _{motor, min}
Cos Phi	0.820000	0.800000		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}

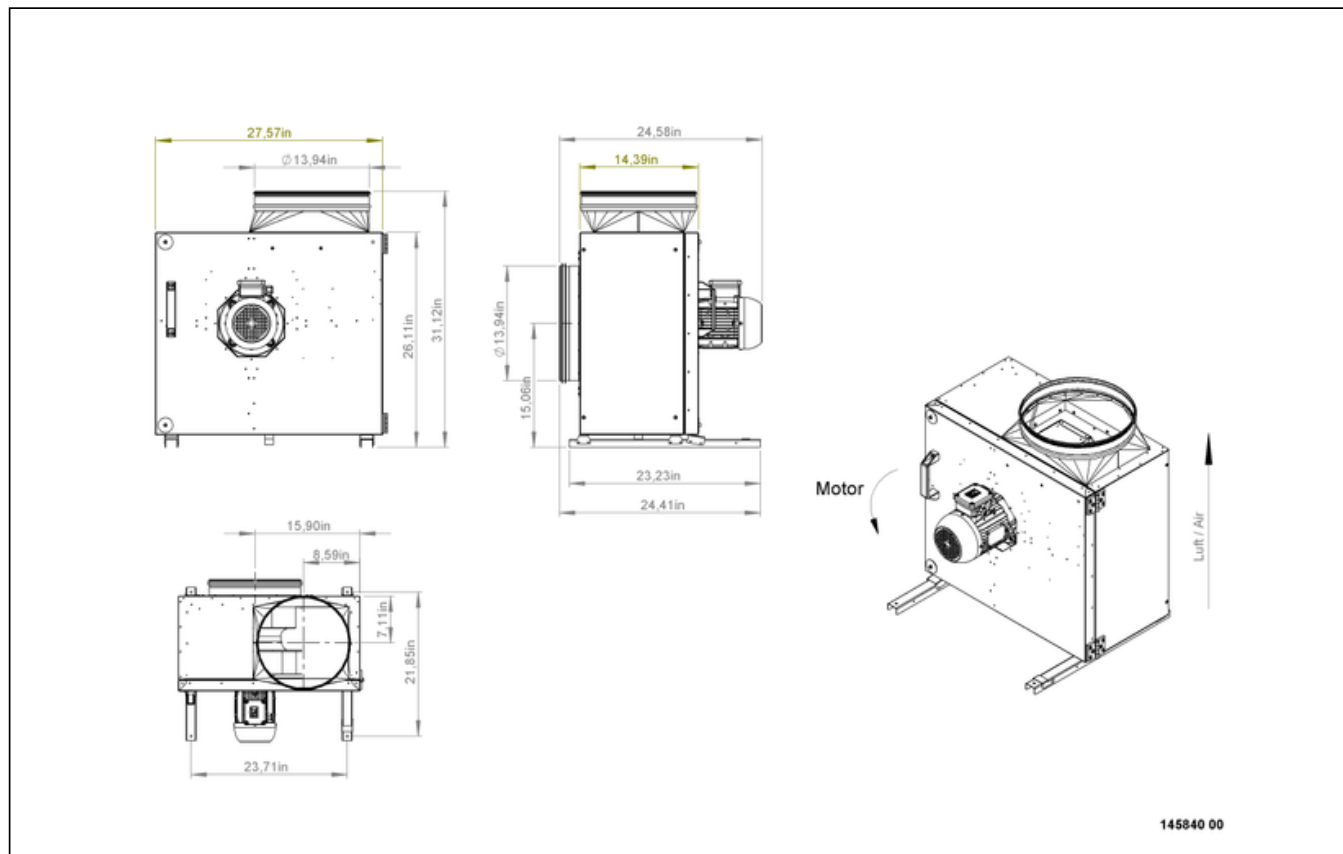


to the product detail page

MPS 315 D2 F4 30

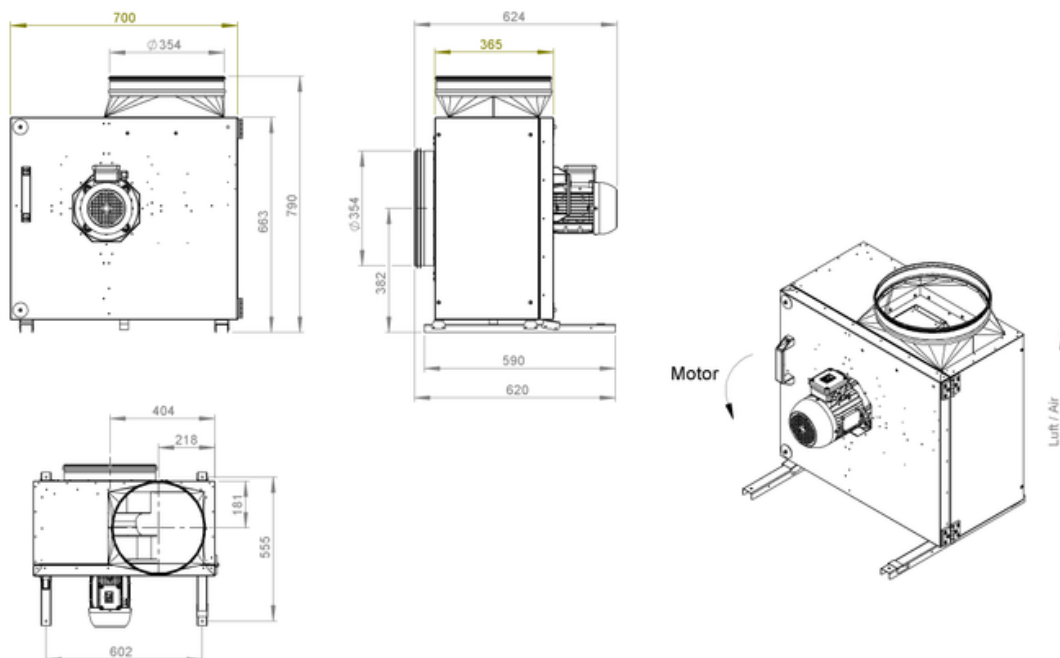
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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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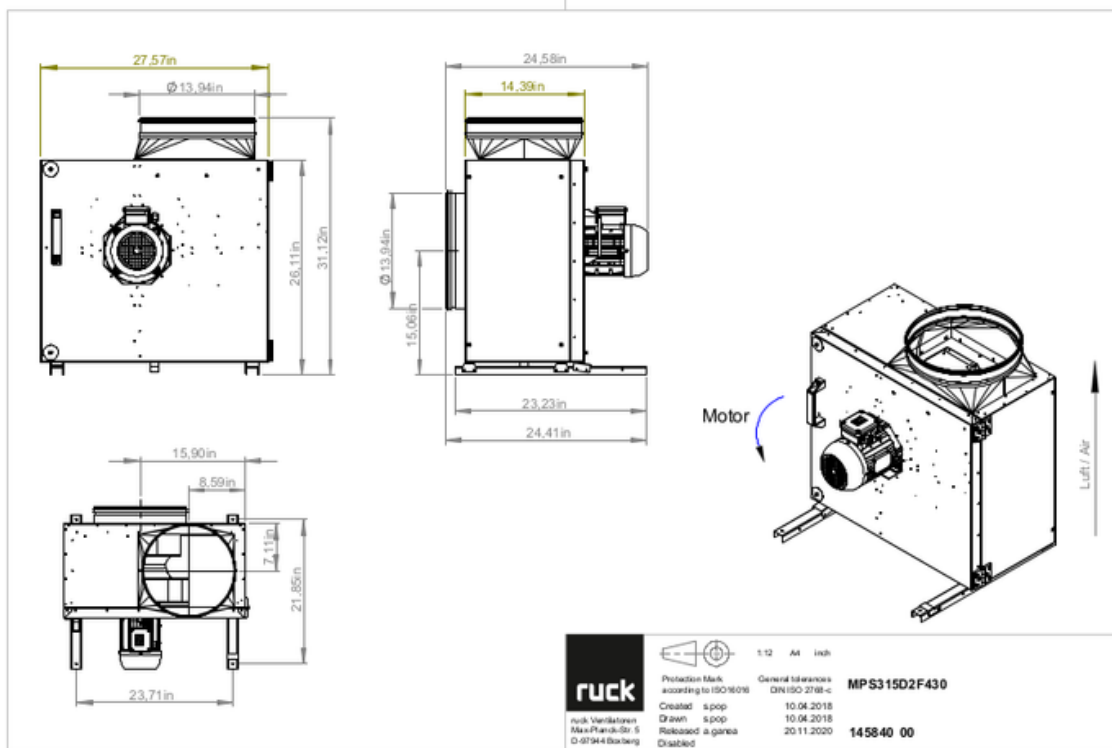
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to the product detail page

MPS 315 D2 F4 30

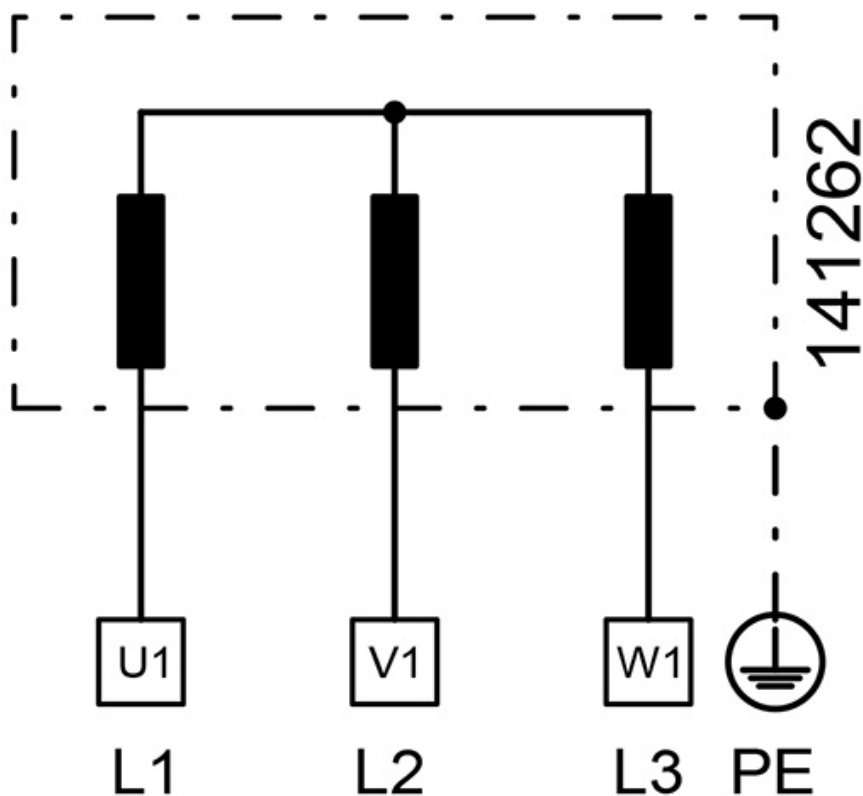
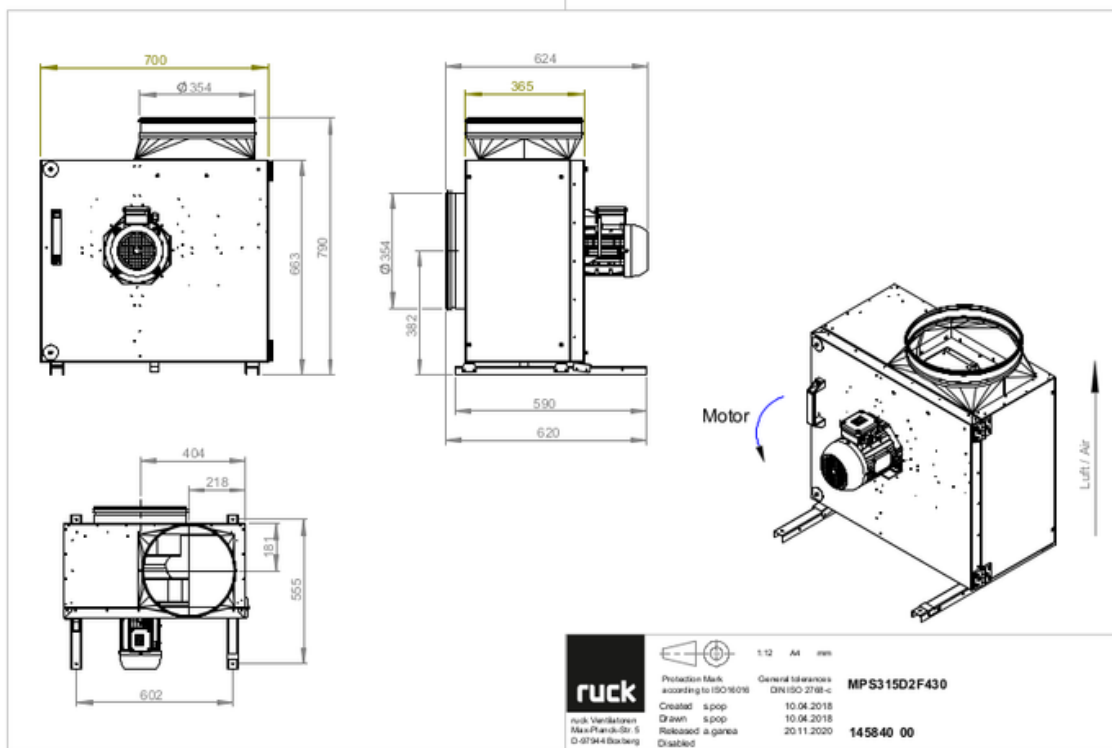
145840



to the product detail page

MPS 315 D2 F4 30

145840



to the product detail page

MPS 315 D2 F4 30

145840



to the product detail page