

MPS 450 D4 F4 30

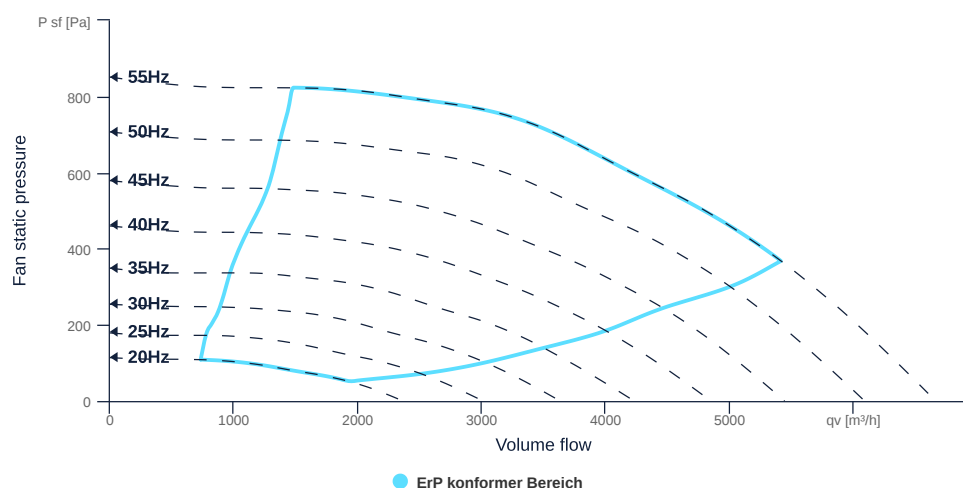
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- Backward curved centrifugal impeller
- Swing out fan unit
- Sheet steel housing double-walled, 40 mm mineral wool
- IE3 motor outside the airflow, frequency controllable
- Smoke extract fan F400, 200 °C continuous operation
- With condensate and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



FAN CURVES

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



to the product detail page

MPS 450 D4 F4 30

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GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
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	74.9	kg	m
Nominal air flow rate, nominal point m³/h	5234.4	CmH	q _{v,nom}
Nominal external pressure, static	408	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	1.45	CmS	q _{v,nom}
Actual electrical input power, nominal point	1.27	kw	P _{e,nom}
Face velocity, nominal point	14.7	mps	v _{nom}
Nominal external pressure, static	408	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	58.2	p	η _{es,SUP}
Highest external air leakage rate	0.42	p	
Enclosure sound level, nominal point	80	db	LWA2
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	1278	w	P _{ed, max}
Max. operating current (device)	2.54	A	I _{ed, max}
Max. speed	1630	rpm	n _{max}
Max. stat. efficiency	55.5	p	η _{es}
Max. fan efficiency	60.9	p	η _e
Max. flowrate	6660	CmH	q _{v, max}
Max. stat pressure	850	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}



MPS 450 D4 F4 30

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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)		4.000000		num polesw1
Connection	Δ			wiringw1
Connection (wiring 2)	Y			wiringw2
Rated voltage	230		v	Urated, f1
Rated voltage (wiring 2)	400		v	Urated, f2
Rated current	4.23		A	Irated, f1
Rated current (wiring 2)	2.45		A	Irated, f2
Nominal power	1100		w	Pa
Nominal power (wiring 2)	1100		w	Pout, f2
Speed	1450		rpm	n1
Speed (wiring 2)	1450		rpm	n12
Starting current	7.6		A	Istart, f1
Starting current (wiring 2)	7.6		A	Istart, f2
Efficiency class	IE3			IEmotor
Min. temperature	-20		°C	Tmotor, min
UL-Certification motor		UL recognized		ULcert

SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Maximum resistance temperature	400	°C	Tfire
Maximum resistance time	120.000000		tfire
Fire resistance class	F 400 (120)		Fclass
Snow load class	-		SLclass

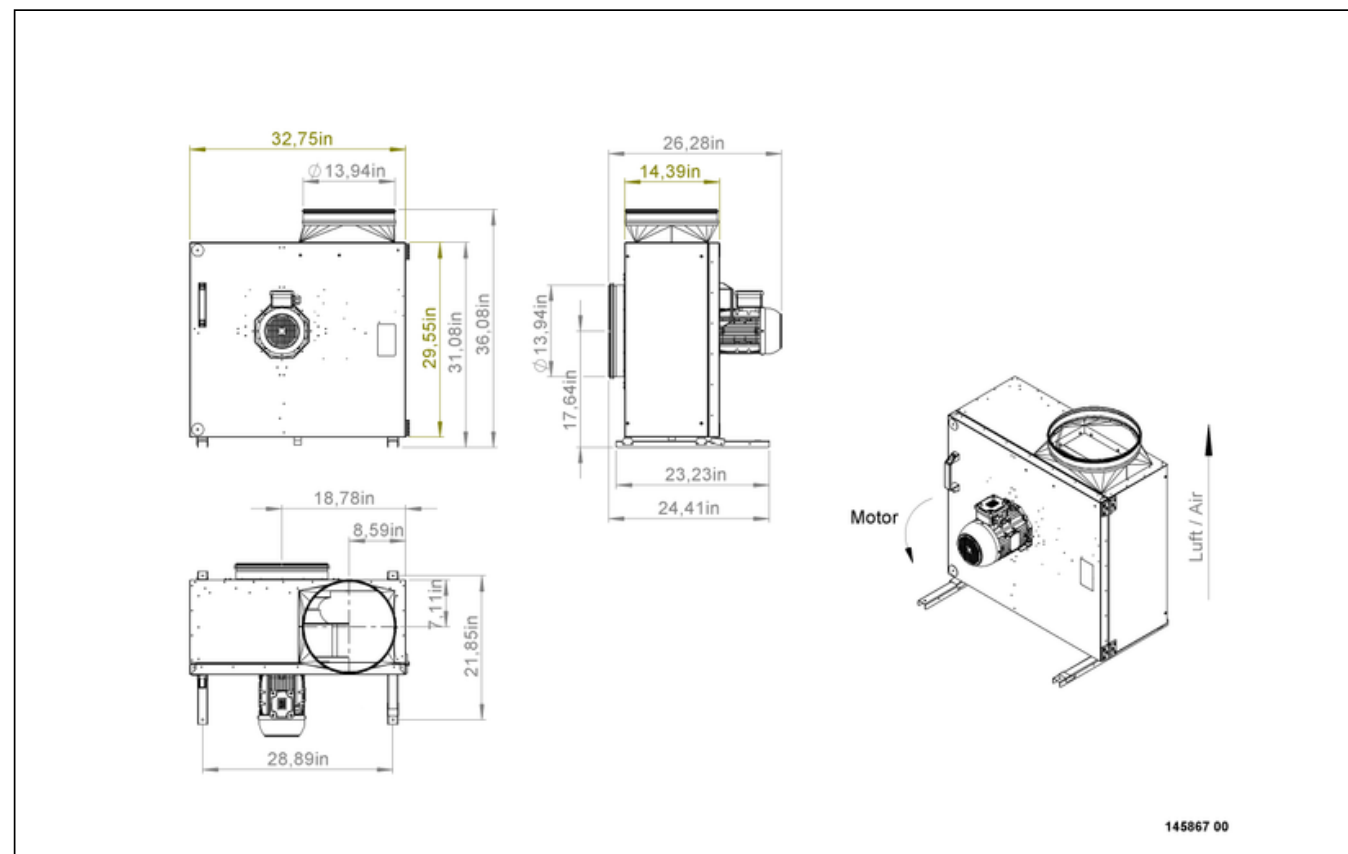


to the product detail page

MPS 450 D4 F4 30

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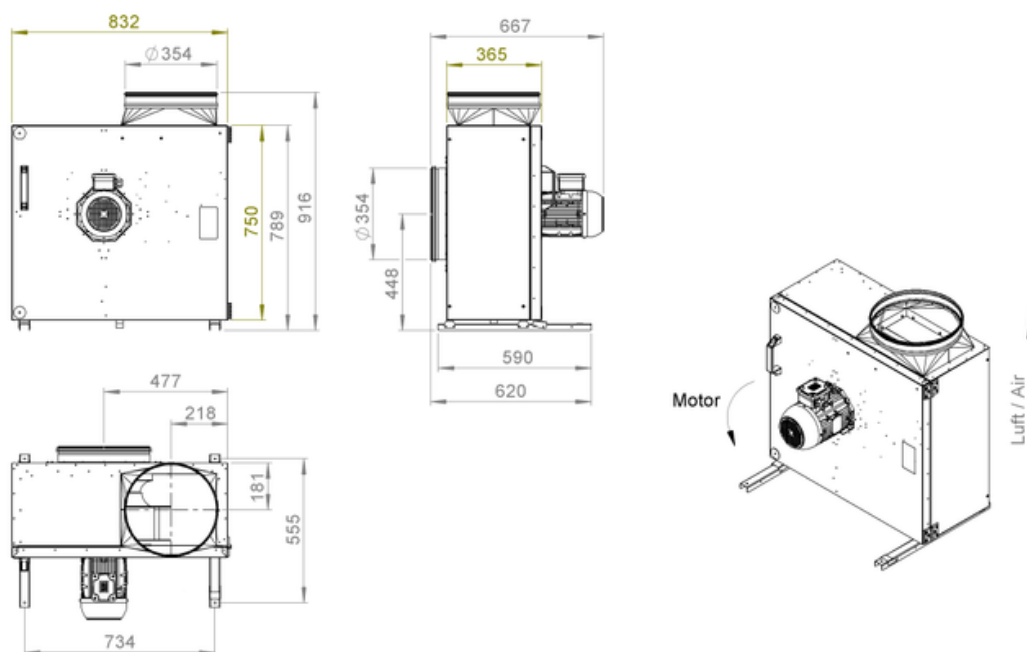
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



to the product detail page

MPS 450 D4 F4 30

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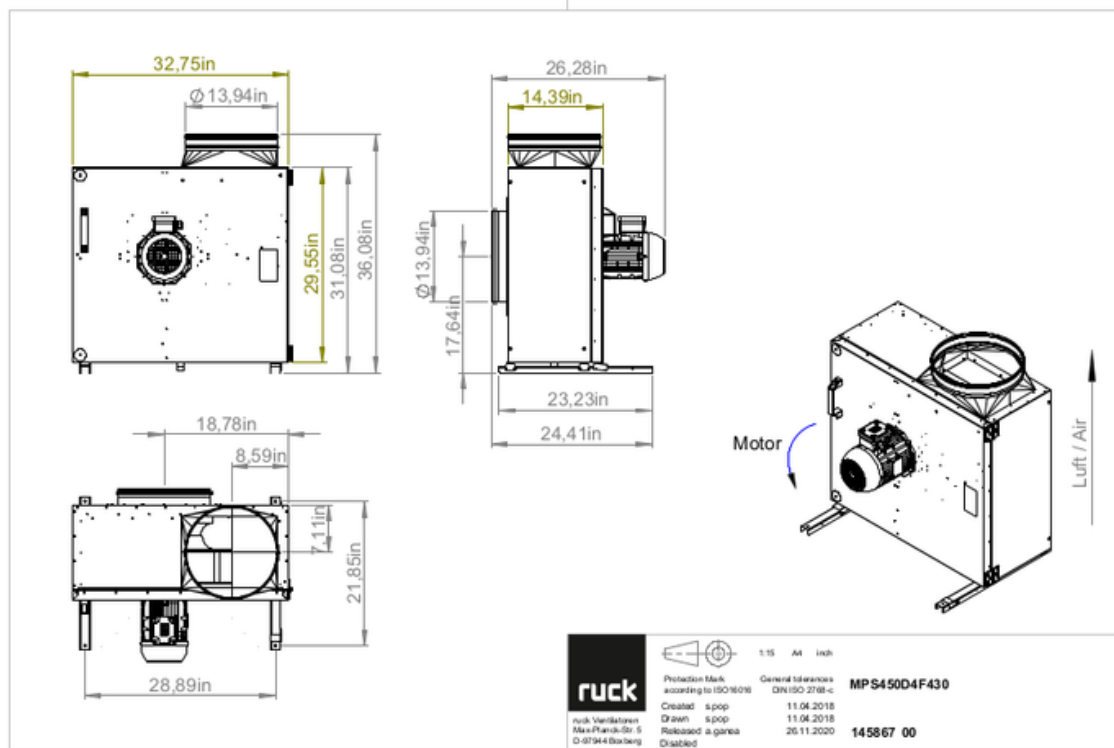
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to the product detail page

MPS 450 D4 F4 30

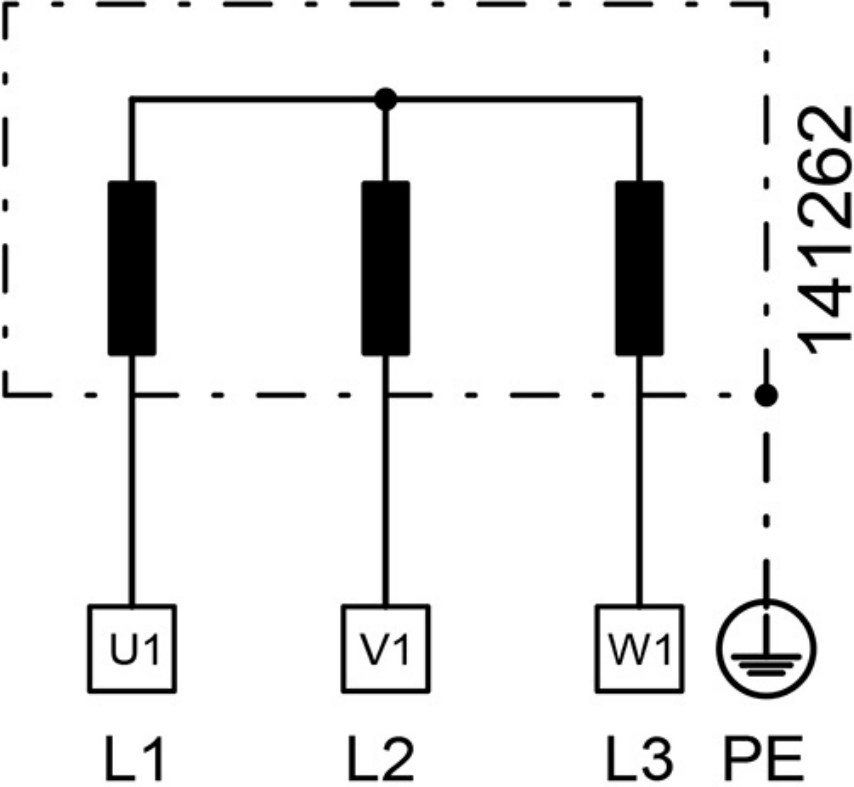
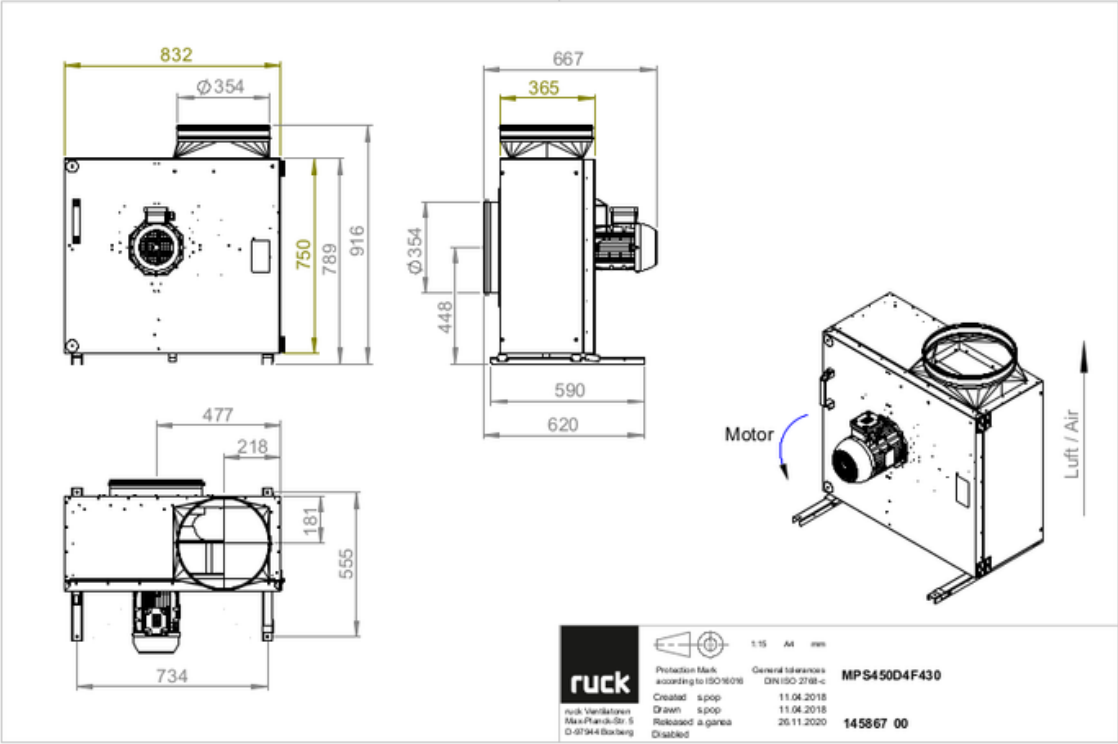
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to the product detail page

MPS 450 D4 F4 30

145867



to the product detail page

MPS 450 D4 F4 30

145867



to the product detail page