

MPS 450 D4 40

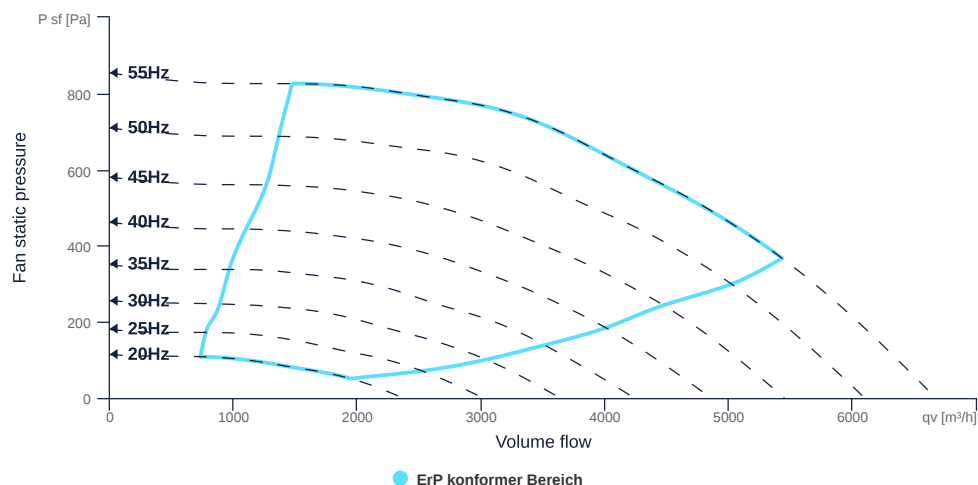
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- Backward curved centrifugal impeller
- Swing out fan unit
- Sheet steel housing double-walled, 40 mm mineral wool
- IE3 motor outside the airflow, frequency controllable
- Conveyed medium temperature up to 120 °C in continuous operation
- With condensate and grease drain



FAN CURVES

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



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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	74.9	kg	m
Nominal air flow rate, nominal point m³/h	3643.2	CmH	q _{v,nom}
Nominal external pressure, static	699.2	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	1.01	CmS	q _{v,nom}
Actual electrical input power, nominal point	1.17	kw	P _{e,nom}
Face velocity, nominal point	10.2	mps	v _{nom}
Nominal external pressure, static	699.2	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	63.5	p	η _{es,SUP}
Highest external air leakage rate	0.25	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	120	°C	T _{m, max}
Max. environment temperature	60	°C	T _{amb, max}
Min. environment temperature	-20	°C	T _{amb, min}
Min. voltage	400	v	U _{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		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	Δ		wiringw1
Connection (wiring 2)	Y	Y		wiringw2
Rated voltage	230	265	v	Urated, f1
Rated voltage (wiring 2)	400	460	v	Urated, f2
Rated current	4.4	3.8	A	Irated, f1
Rated current (wiring 2)	2.53	2.2	A	Irated, f2
Nominal power	1100	1100	w	Pa
Nominal power (wiring 2)	1100	1100	w	Pout, f2
Speed	1445	1750	rpm	n _{r1}
Speed (wiring 2)	1445	1750	rpm	n _{r2}
Efficiency	84.1	86.5	p	η_m , f1
Efficiency (wiring 2)	84.1	86.5	p	η_m , f2
Efficiency class	IE3	IE3		IEmotor
Min. temperature	-20	-20	°C	Tmotor, min
Cos Phi	0.780000	0.770000		cos φ
UL-Certification motor		None		ULcert

SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



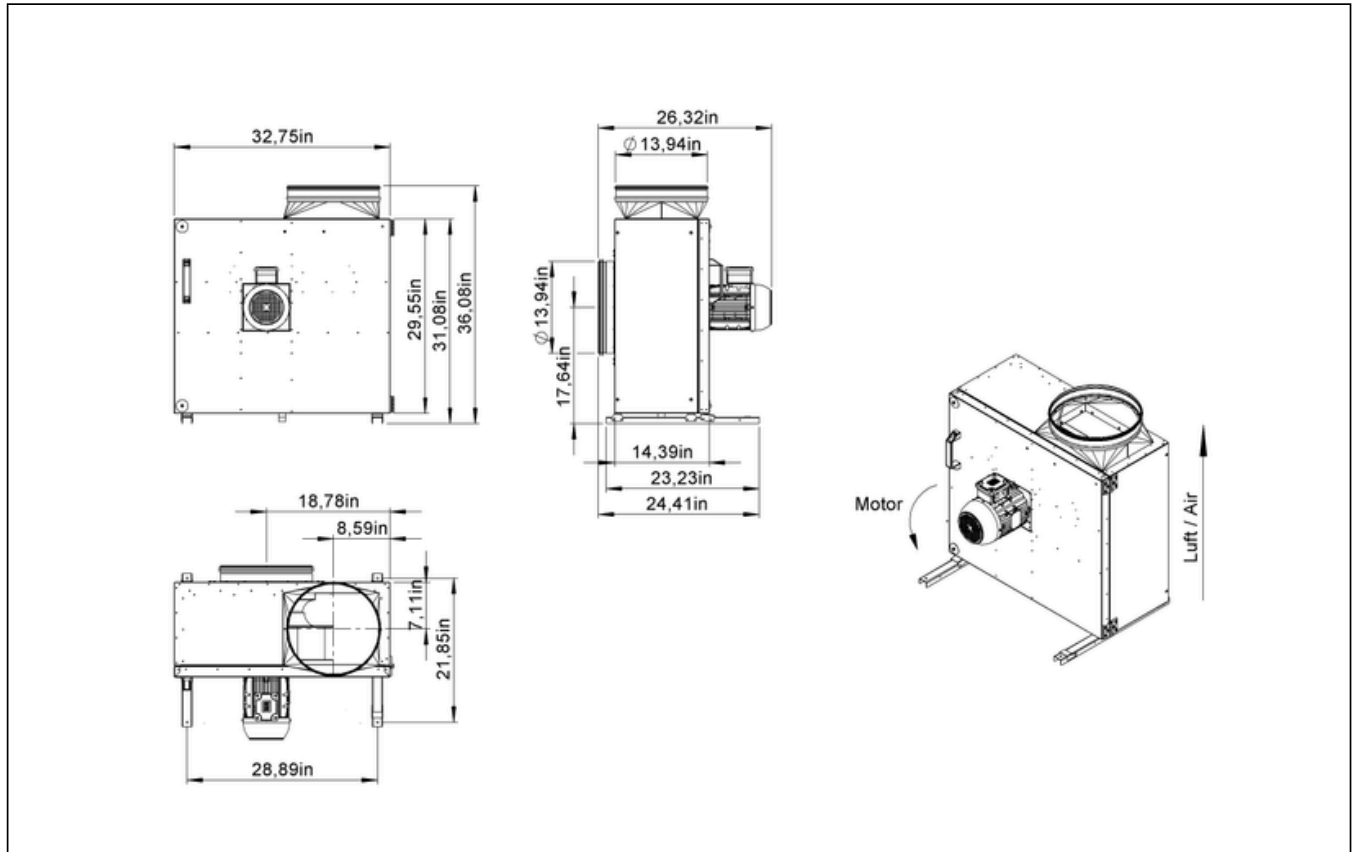
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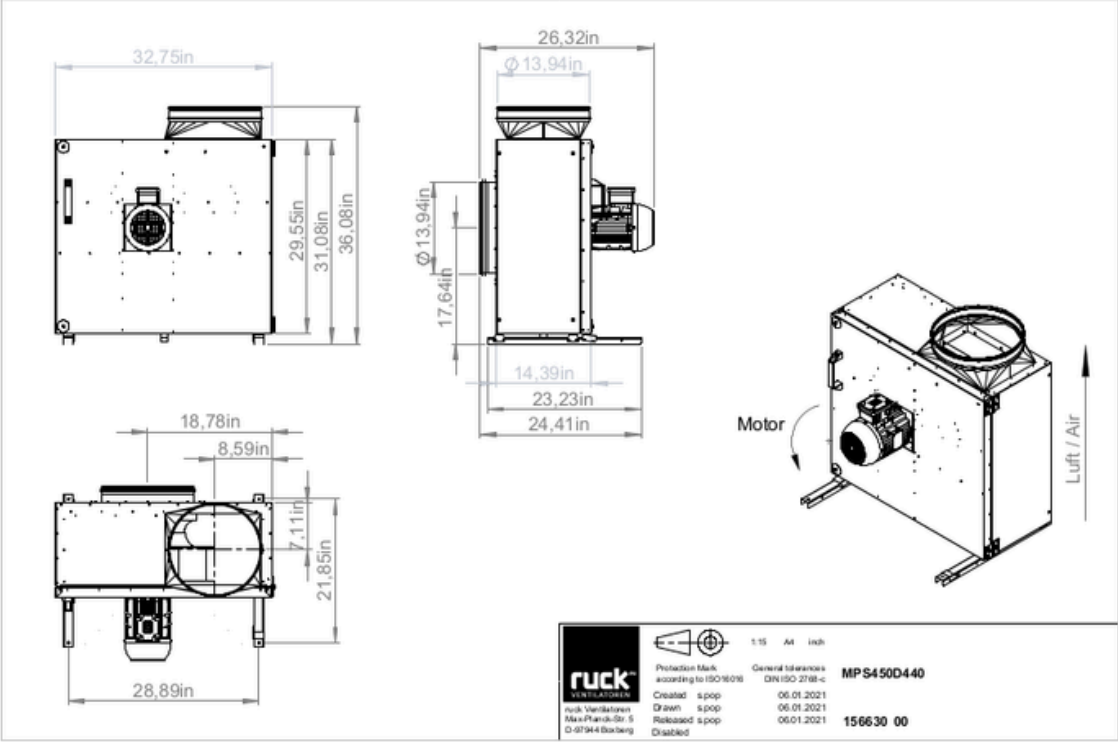
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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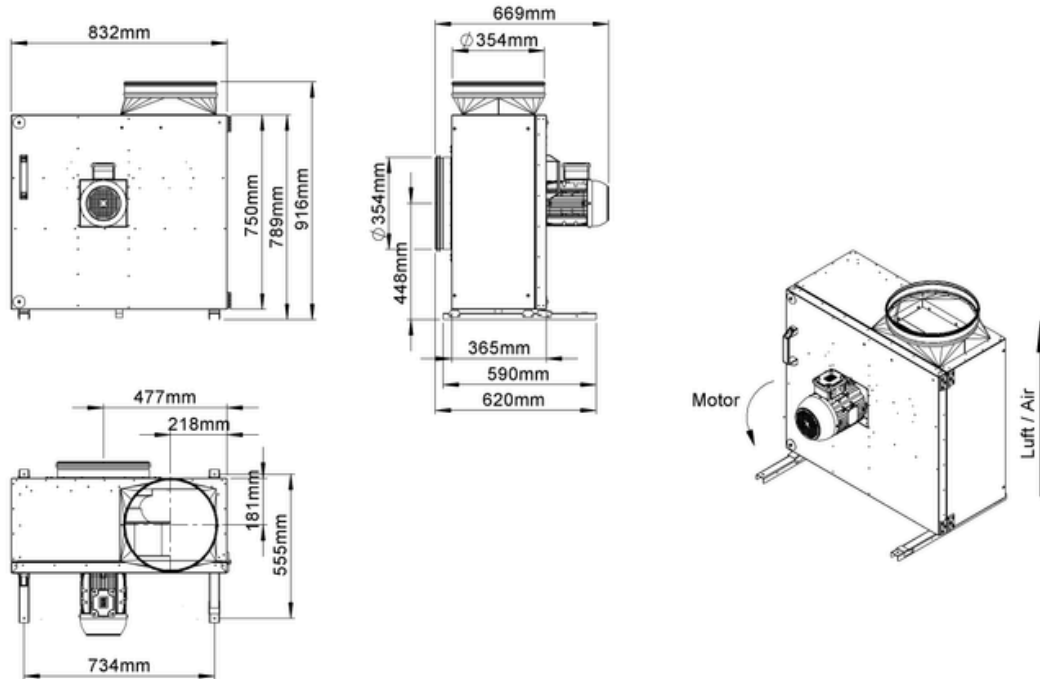


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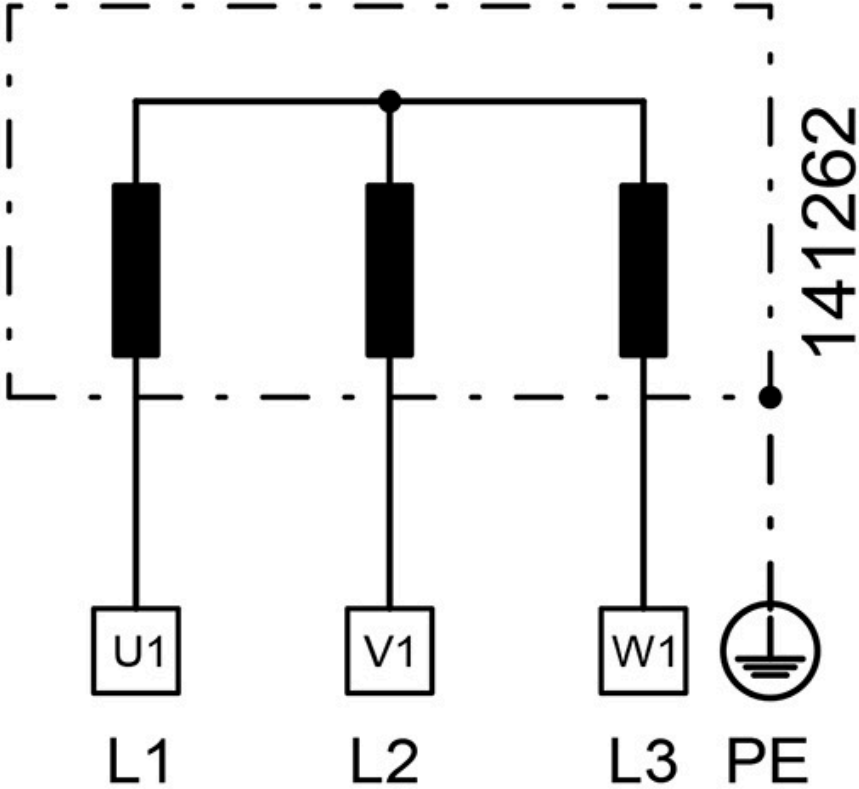
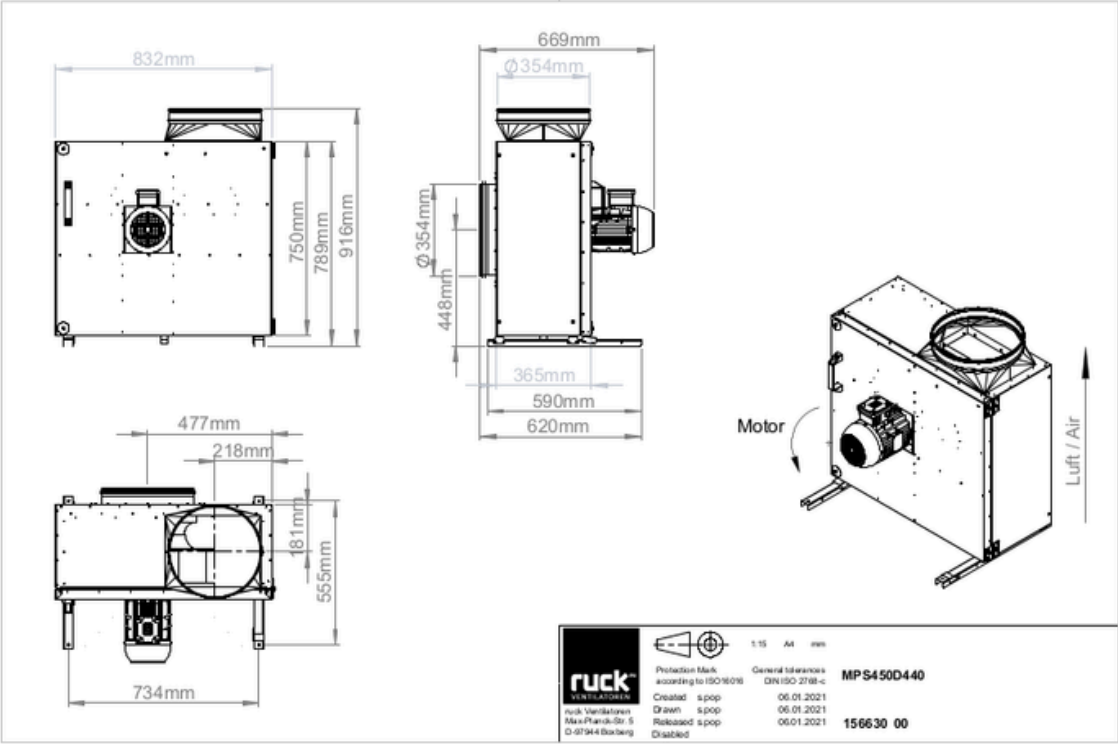
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