

MPS 500 E4 21

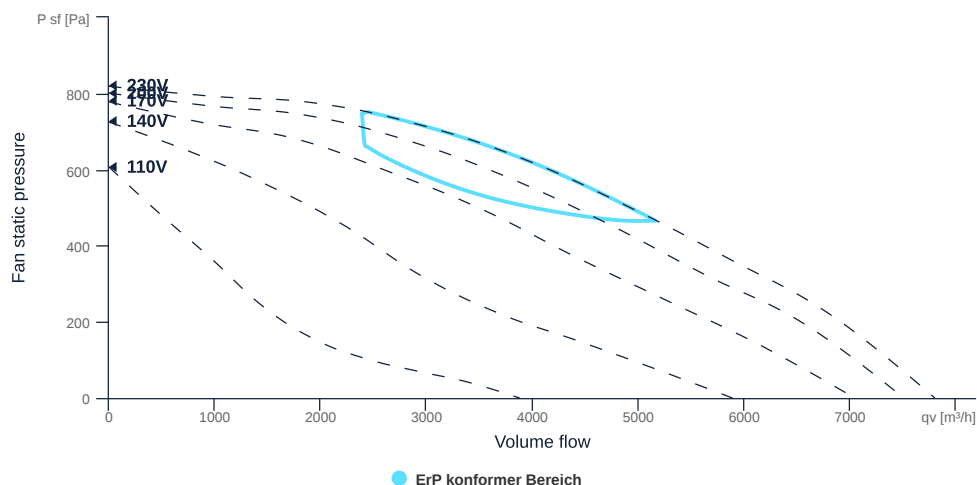
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- Backward curved centrifugal impeller
- Swing out fan unit
- Sheet steel housing double-walled, 40 mm mineral wool
- AC motor outside the airflow, controllable
- Conveyed medium temperature up to 120 °C in continuous operation
- With condensate and 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	none		
Duct size	-		WxHduct
Pipe connection size (DN)	DN400		DN
Rated voltage (entire device)	230	v	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	10 A		fuse
Housing material	Galvanized steel		matcasing
Impeller material	Coated steel		matimpeller
Weight	118	kg	m
Nominal air flow rate, nominal point m³/h	4615.2	CmH	q _{v,nom}
Nominal external pressure, static	541	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	1.28	CmS	q _{v,nom}
Actual electrical input power, nominal point	1.47	kw	P _{e,nom}
Face velocity, nominal point	10.2	mps	v _{nom}
Nominal external pressure, static	541	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	54.3	p	η _{es,SUP}
Highest external air leakage rate	0.03	p	
Enclosure sound level, nominal point	74	db	LWA2
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	1505	w	P _{ed, max}
Max. operating current (device)	8.43	A	I _{ed, max}
Max. speed	1460	rpm	n _{max}
Max. stat. efficiency	46.2	p	η _{es}
Max. fan efficiency	50	p	η _e
Max. flowrate	7800	CmH	q _{v, max}
Max. stat pressure	815	Pa	p _{sf, max}
Max. medium temperature	120	°C	T _{m, max}
Max. environment temperature	40	°C	T _{amb, max}
Min. environment temperature	-25	°C	T _{amb, min}
Min. voltage	110	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 1~		phase
Control type		stepless-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TAO		protectmotor
Protection class		IP54		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Capacity capacitor		40	µF	Ccond
Voltage capacitor		400	v	VUcond
Rated voltage	230		v	Urated, f1
Rated current	6.7		A	Irated, f1
Nominal power	1100		w	Pa
Speed	1335		rpm	nf1
Min. temperature	-25		°C	Tmotor, min
Cos Phi	0.990000	0.000000		cos φ
UL-Certification motor		None		ULcert

SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass



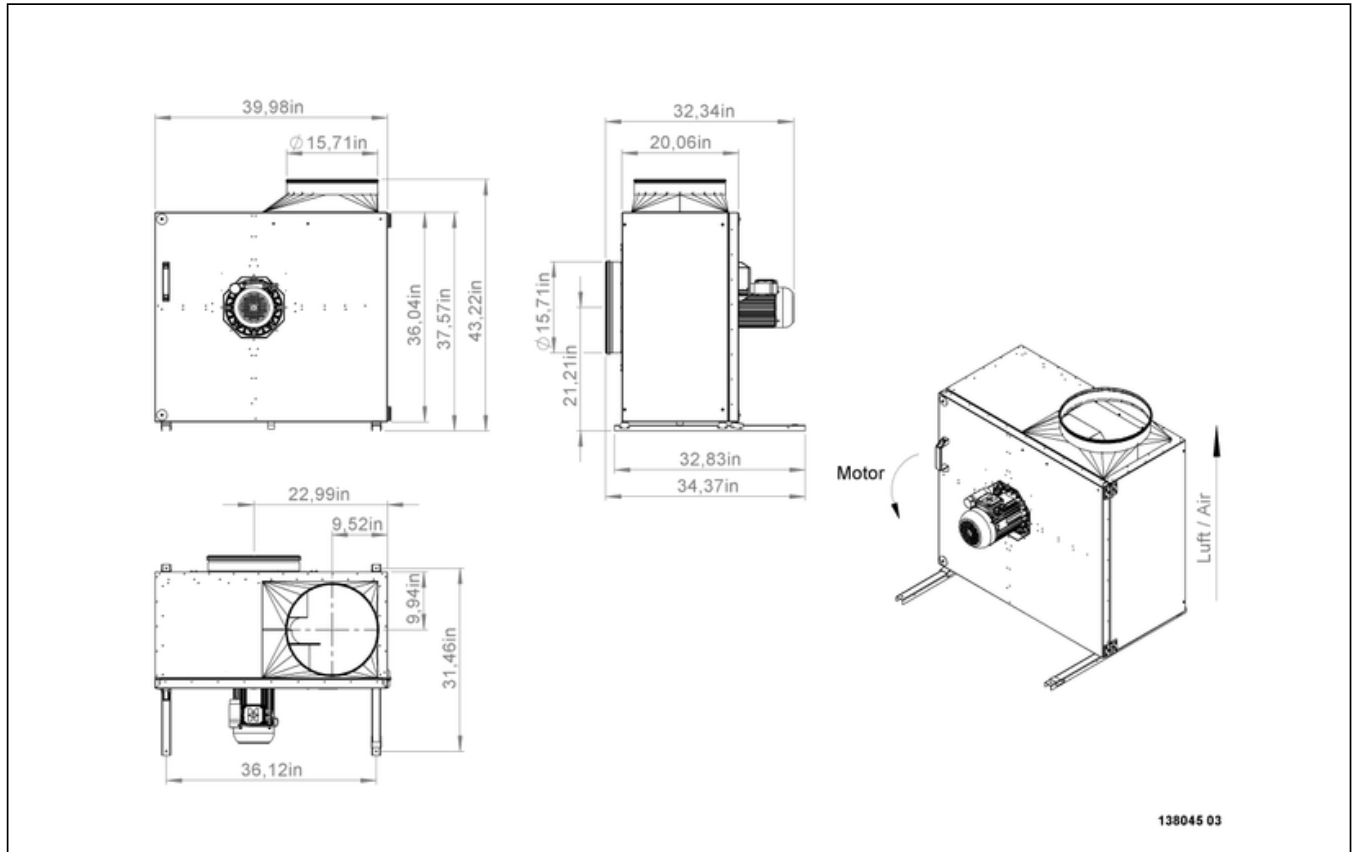
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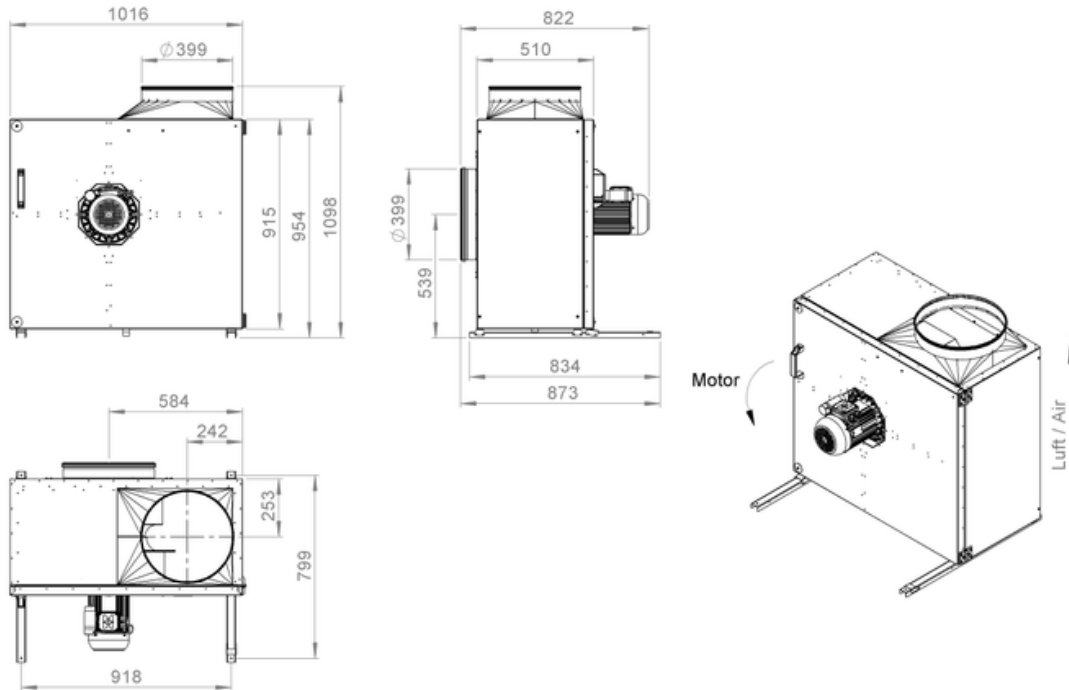
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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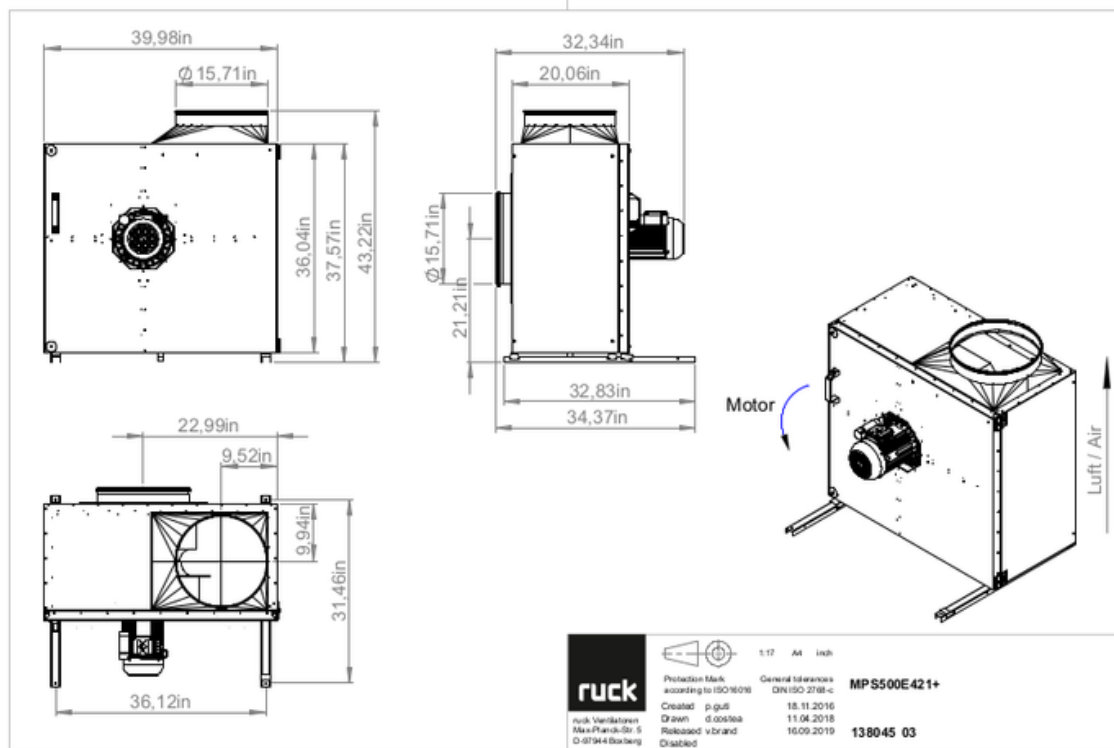
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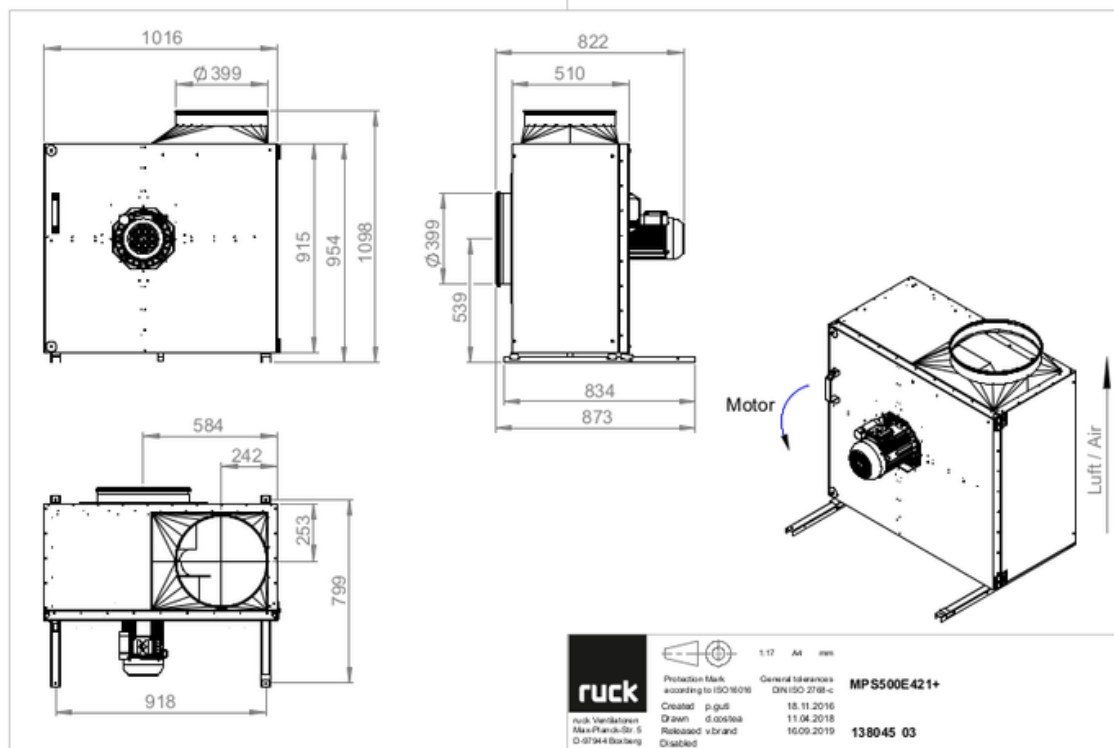
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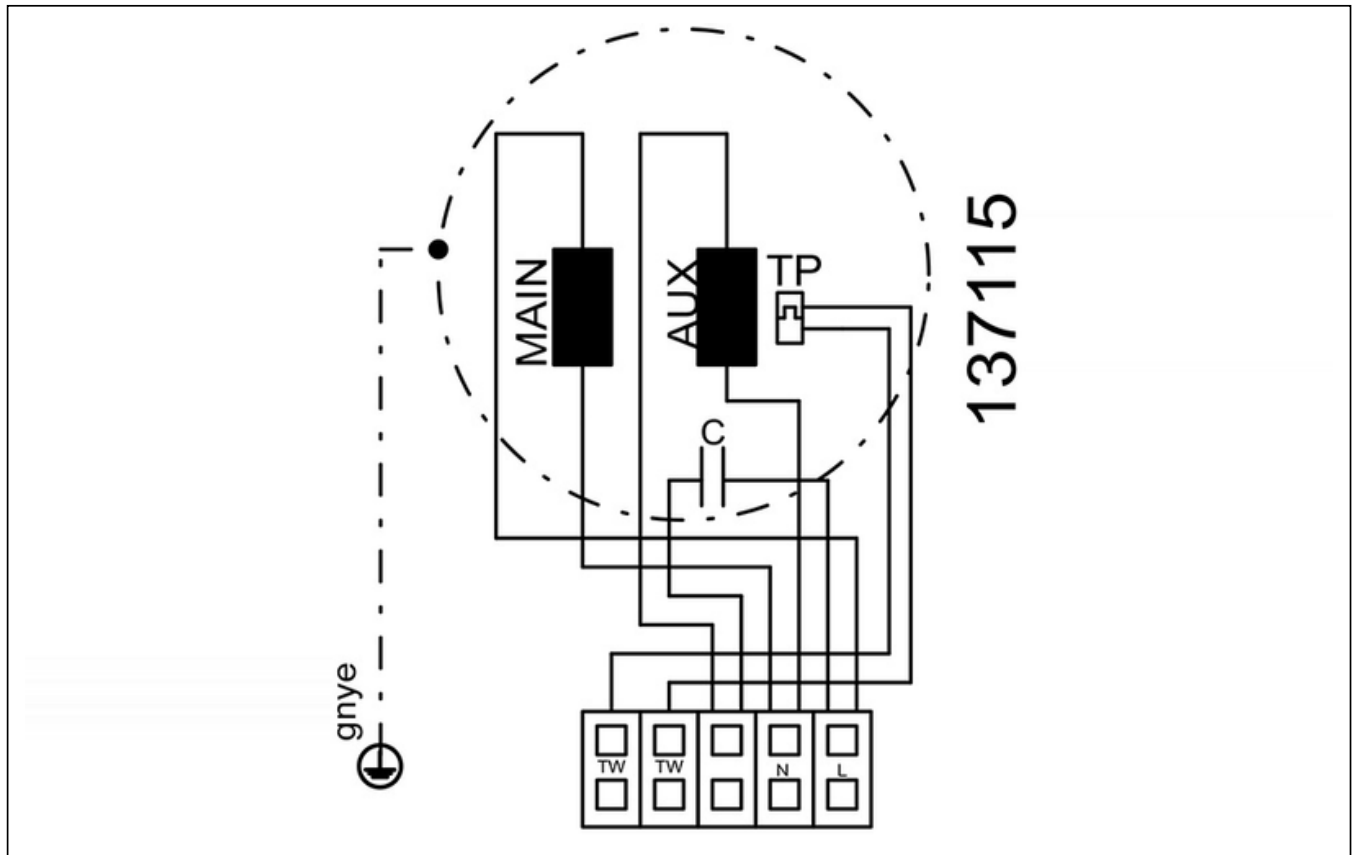
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