

DVNI 710 D6 F4 30

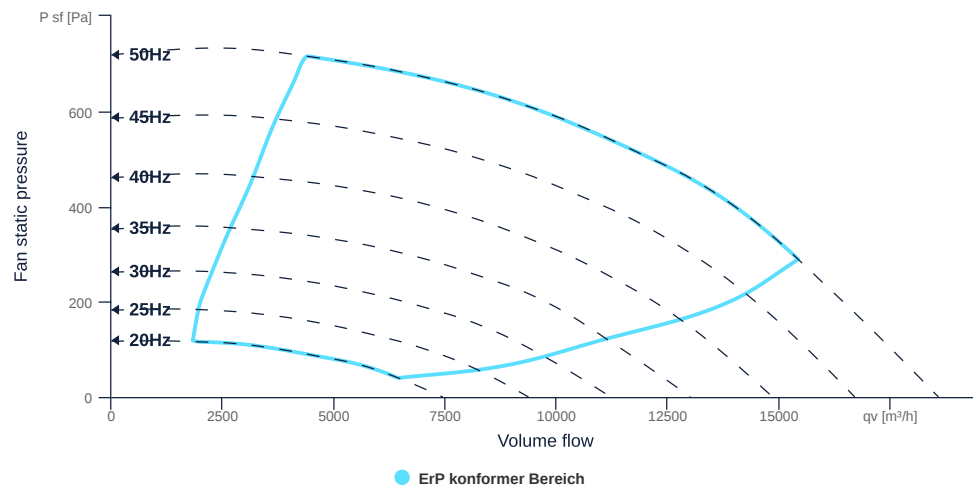
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- Backward curved radial impeller
- Vertical discharge
- Housing: insulated, AlMg3, hinged, grease drain
- Efficient IE3 motor, frequency controllable
- Smoke extract fan F400, 200 °C continuous operation
- Integrated device switch



MAP

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	-		WxH _{duct}
Pipe connection size (DN)	DN710		DN
Rated voltage (entire device)	400	V	U _{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	10 A		fuse
Housing material	Aluminium		mat _{casing}
Impeller material	Steel		mat _{impeller}
Weight	130	kg	m
Nominal air flow rate, nominal point m³/h	15134.4	m³/h	q _{v,nom}
Nominal external pressure, static	331	Pa	p _{s,nom}
Fan type	Radial		F _{an} type
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m³/s	4.2	m³/s	q _{v,nom}
Actual electrical input power, nominal point	2.62	kW	P _{e,nom}
Face velocity, nominal point	5.4	m/s	v _{nom}
Nominal external pressure, static	331	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	62.1	%	η _{es,SUP}
Enclosure sound level, nominal point	87	dB(A)	L _{WA2}
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	2768	W	P _{ed, max}
Max. operating current (device)	6.9	A	I _{ed, max}
Max. speed	990	1/min	n _{max}
Max. stat. efficiency	58.3	%	η _{es}
Max. fan efficiency	59.4	%	η _e
Max. flowrate	18580	m³/h	q _{v, max}
Max. stat pressure	720	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}



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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)		6.000000		num polesw1
Connection	Δ	Δ		wiringw1
Connection (wiring 2)	Y			wiringw2
Rated voltage	400	460	V	U _{rated, f1}
Rated voltage (wiring 2)	690		V	U _{rated, f2}
Rated current	8.99	7.9	A	I _{rated, f1}
Rated current (wiring 2)	5.21		A	I _{rated, f2}
Shaft power	4000	4000	W	P _{out, f1}
Shaft power (wiring 2)	4000		W	P _{out, f2}
Speed	960	1165	1/min	n _{f1}
Speed (wiring 2)	960		1/min	n _{f2}
Starting current	58.4	52.1	A	I _{start, f1}
Starting current (wiring 2)	33.9		A	I _{start, f2}
Efficiency	86.8	89.5	%	η _{m, f1}
Efficiency (wiring 2)	86.8		%	η _{m, f2}
Efficiency class	IE3	IE3		IE _{motor}
Min. temperature	-20	-30	°C	T _{motor, min}
Cos Phi	0.740000	0.710000		cos φ
UL-Certification motor		UL recognized		ULcert

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}

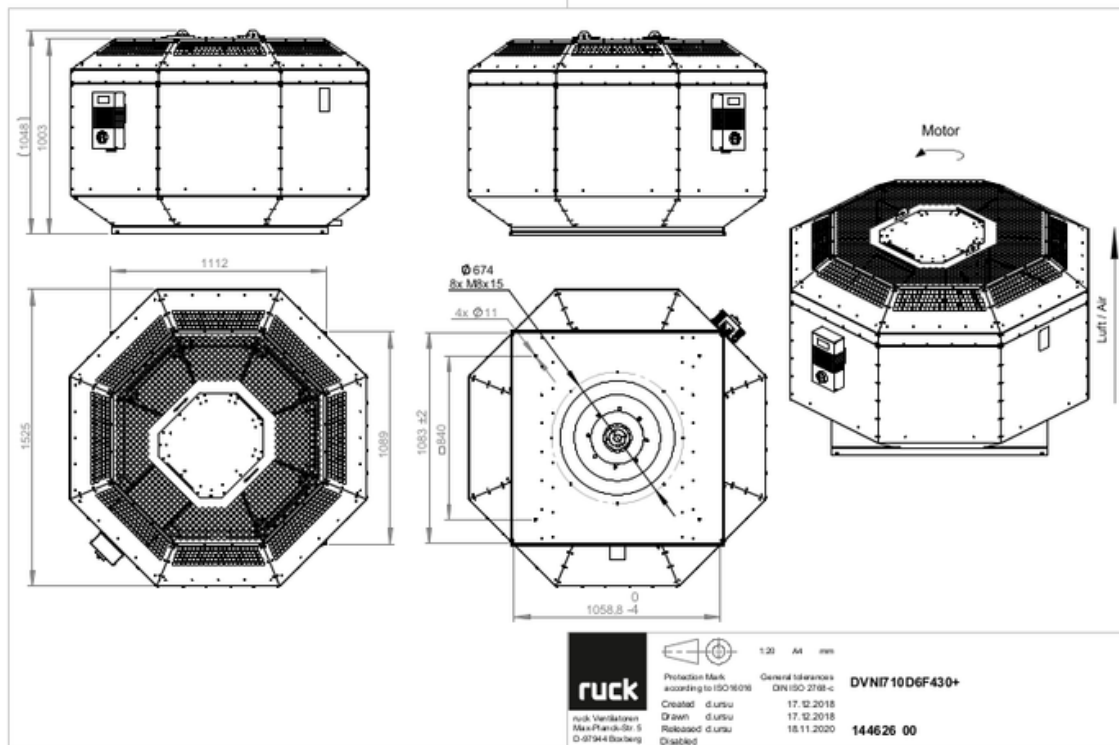

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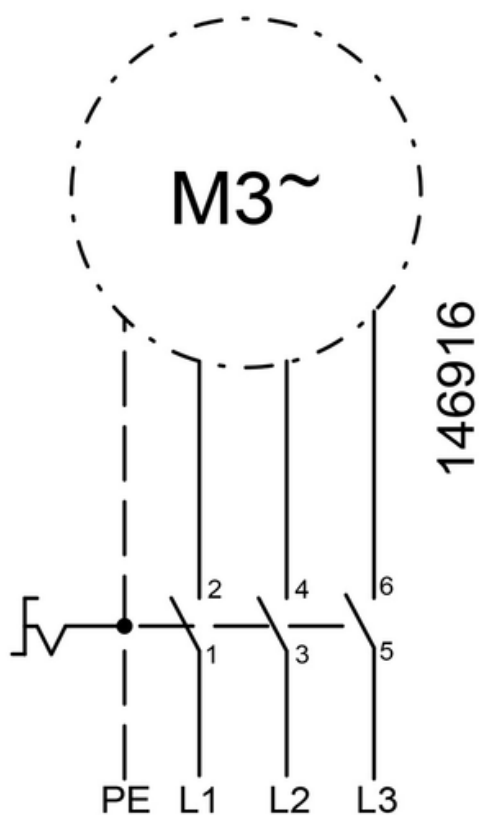
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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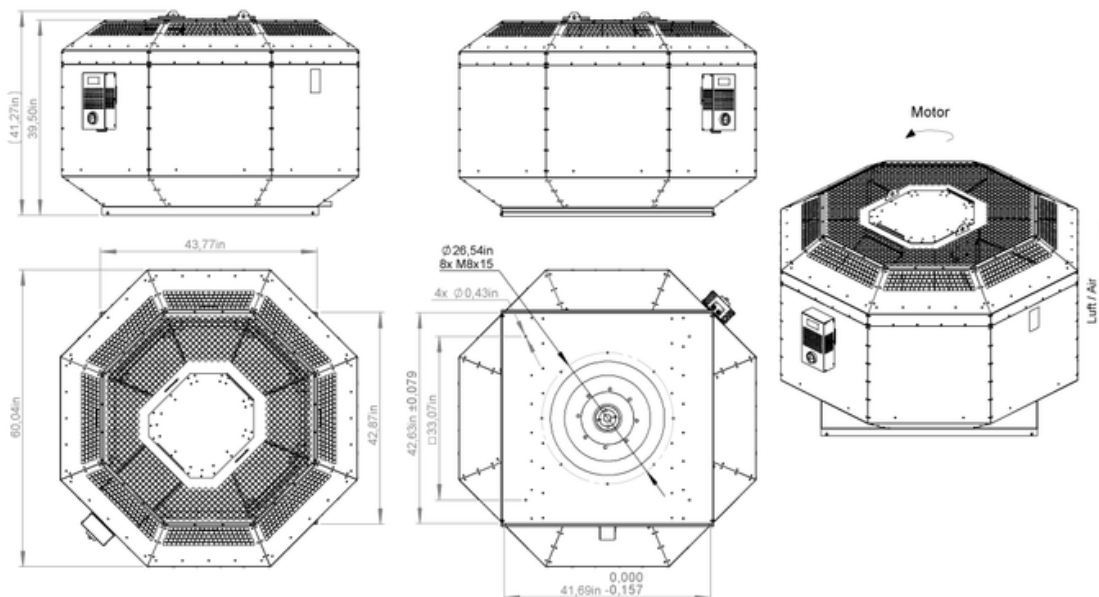


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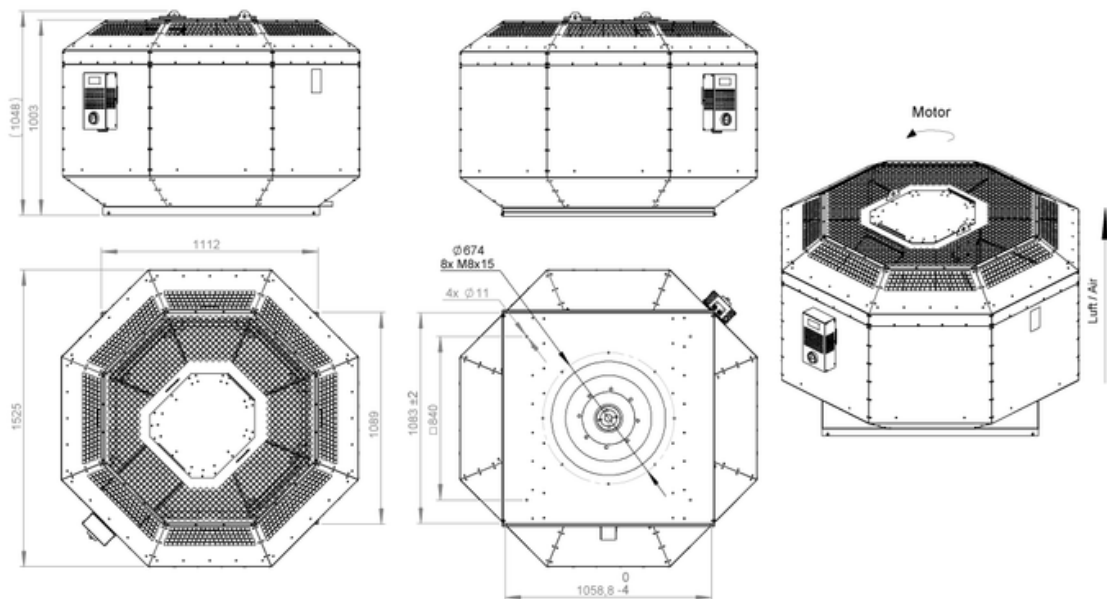


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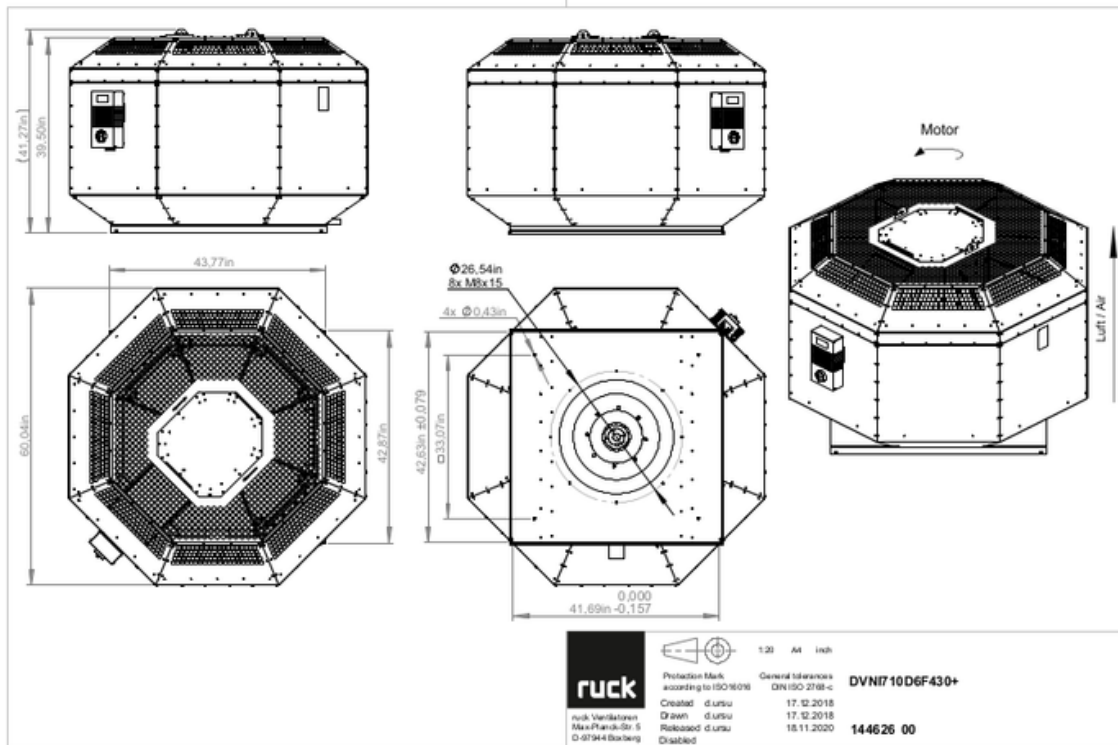
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MECHANICAL ACCESSORIES

DAF 710 | 123823



- Roof inlet flange
- Galvanized steel sheet

DSF 710-10 | 126273



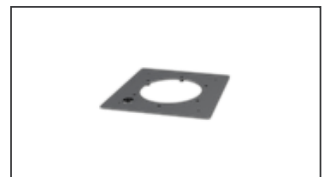
- Flat roof socket
- Made of aluminum AlMg3
- Sound and heat insulation

DSS 710-10 | 126567



- Flat roof socket silencer
- Made of aluminum AlMg3
- Sound and heat insulation

DAP 710 | 133983



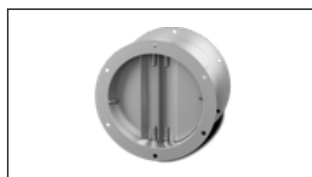
- Adapter plate for roof mounting of roof fans
- Galvanized steel sheet

DAS 710 F4 | 150097



- Flexible roof inlet spigot F4
- Temperature resistant up to 400 °C

DVK 630 10 F4 | 153012



- Automatic roof shutter
- Temperature resistant up to 400 °C



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ELECTRICAL ACCESSORIES

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
- VDE

MTP 30 | 143289



- Stepped potentiometer 10 kΩ
- Step 1 + 2 settable 10 % - 100 % Vdc
- Step 3 100 % Vdc
- Supply voltage+10 Vdc

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

FU 55 10 | 150237



- Frequency converter
- Supply voltage 400 V 3~ 50/60 Hz
- Output voltage 0 - 400 V 3~
- Fire mode function (smoke extract fans)

MTP 50 | 153133



- 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



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