

DVA 190 E4P 31

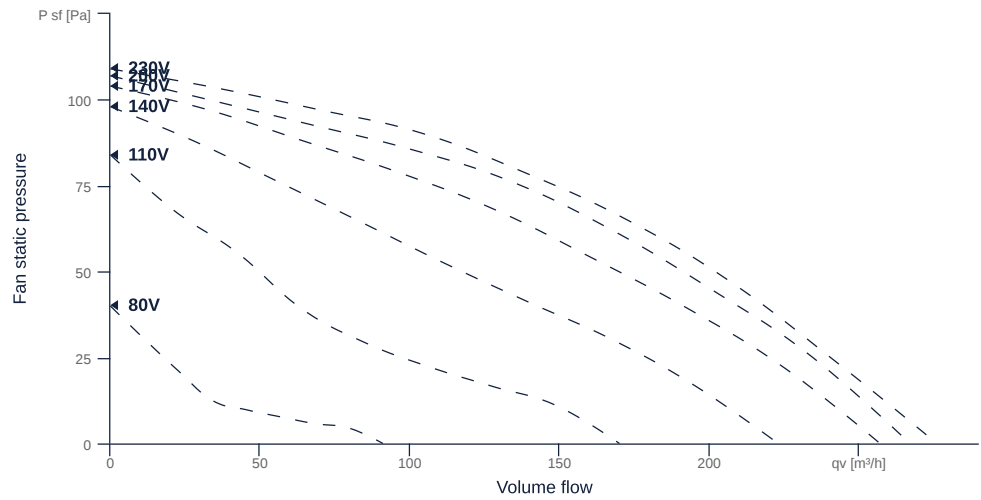
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- Backward curved radial impeller
- Vertical discharge
- Housing made of aluminum AlMg3
- Robust single phase AC motor, steplessly controllable
- Conveyed medium temperature up to 70 °C in continuous operation
- Integrated device switch



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)	-		DN
Rated voltage (entire device)	230	V	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Aluminium		mat _{casing}
Impeller material	Plastic		mat _{impeller}
IP-protection class (casing)	IP44		IP _{casing}
IP-protection class (entire device)	IPX4		IP _{compl}
IP-Protection class (terminal box)	IP44		IP _{ebox}
Weight	5	kg	m
Nominal air flow rate, nominal point m³/h	190.8	m³/h	q _{v,nom}
Nominal external pressure, static	54	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	0.05	m³/s	q _{v,nom}
Actual electrical input power, nominal point	0.02	kW	P _{e,nom}
Face velocity, nominal point	1.28	m/s	v _{nom}
Nominal external pressure, static	54	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	16.4	%	η _{es,SUP}
Enclosure sound level, nominal point	58	dB(A)	L _{WA2}
Rating	Product is compliant 2018		



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MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	18	18	W	P _{ed, max}
Max. operating current (device)	0.23	0.23	A	I _{ed, max}
Max. speed	1430	1710	1/min	n _{max}
Max. stat. efficiency	16.4	25.3	%	η _{es}
Max. fan efficiency	16.7	25.6	%	η _e
Max. flowrate	280	320	m³/h	Q _{v, max}
Max. stat pressure	110	155	Pa	p _{sf, max}
Max. medium temperature	70	70	°C	T _{m, max}
Max. environment temperature	70	70	°C	T _{amb, max}
Min. environment temperature	-25	-25	°C	T _{amb, min}
Min. voltage	80	80	V	U _{min}
Stall current	0.17	0.17	A	I _{LRA}

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		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISO _{class}
Motor-protection		TAI		protect _{motor}
Protection class		IP33		IP _{motor}
Is pole-changeable		No		polexch
Type of power supply		AC 1~		p _{wsup} _{motor}
Capacity capacitor		2.5	μF	C _{cond}
Voltage capacitor		400	V	V _{Ucond}
Number of poles (1)		4.000000		num poles _{w1}
Rated voltage	230		V	U _{rated, f1}
Rated current	0.1		A	I _{rated, f1}
Speed	1383		1/min	n _{f1}
Efficiency	15.6		%	η _{m, f1}
Min. temperature	-30		°C	T _{motor, min}
Cos Phi	0.760000	0.000000		cos φ
UL-Certification motor		None		UL _{cert}



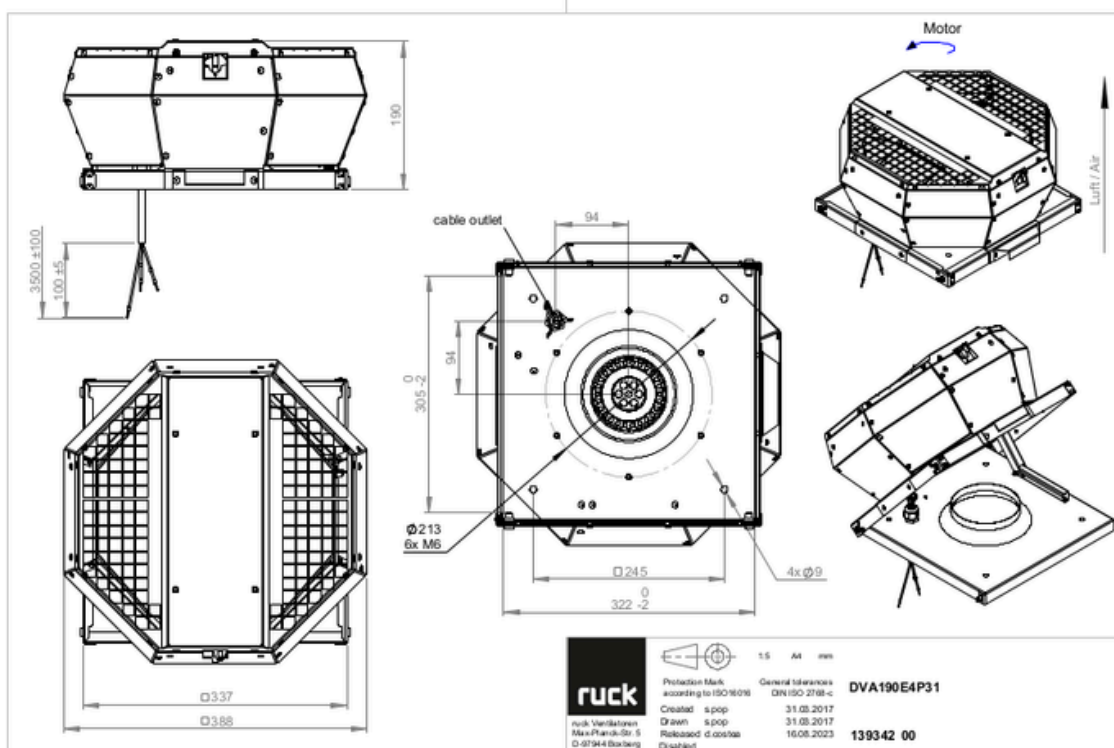
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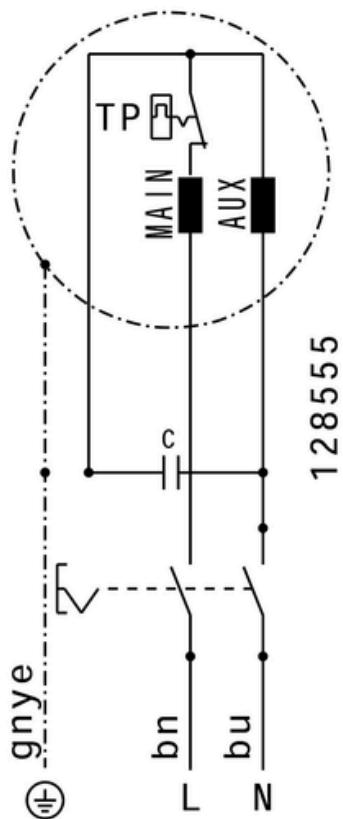
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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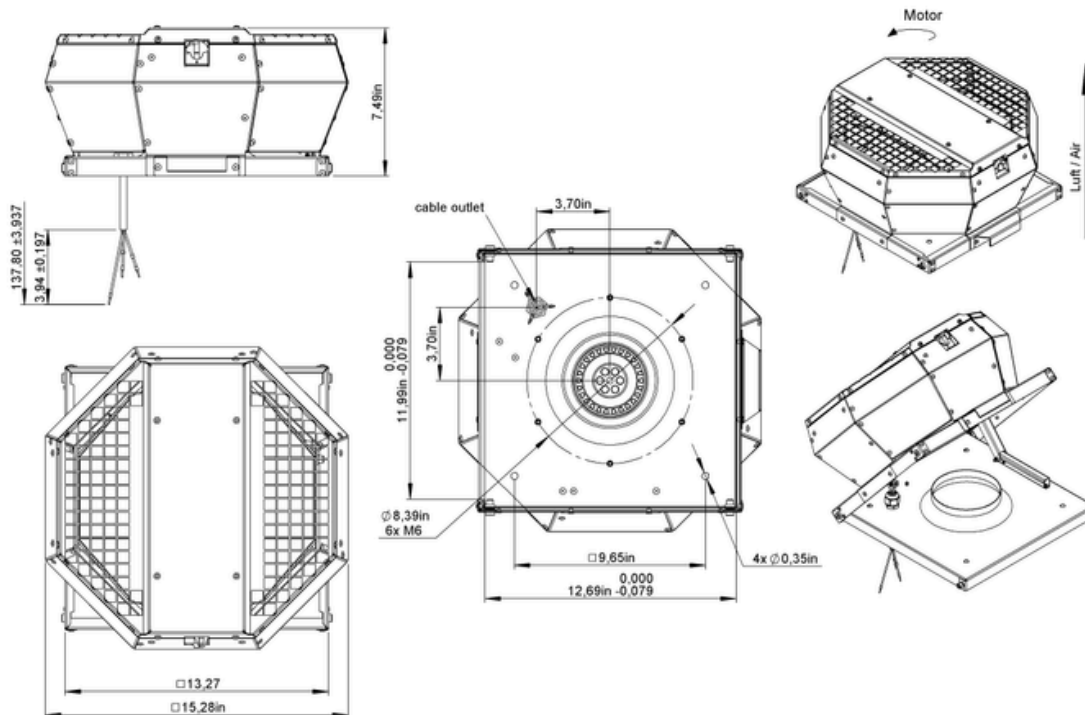


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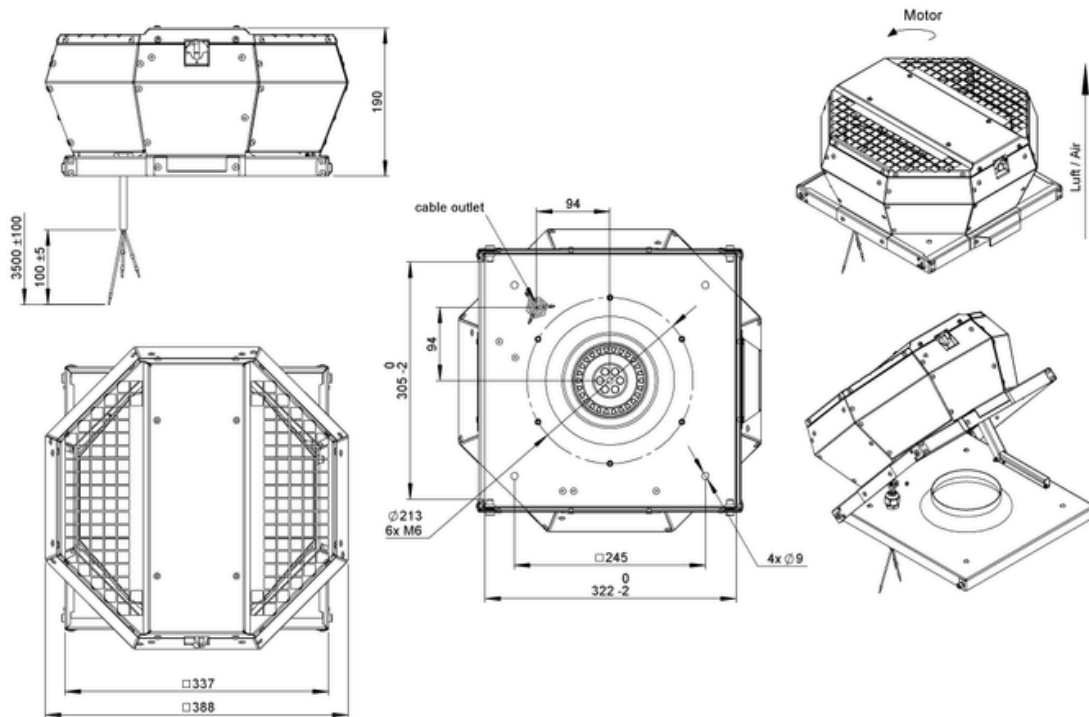


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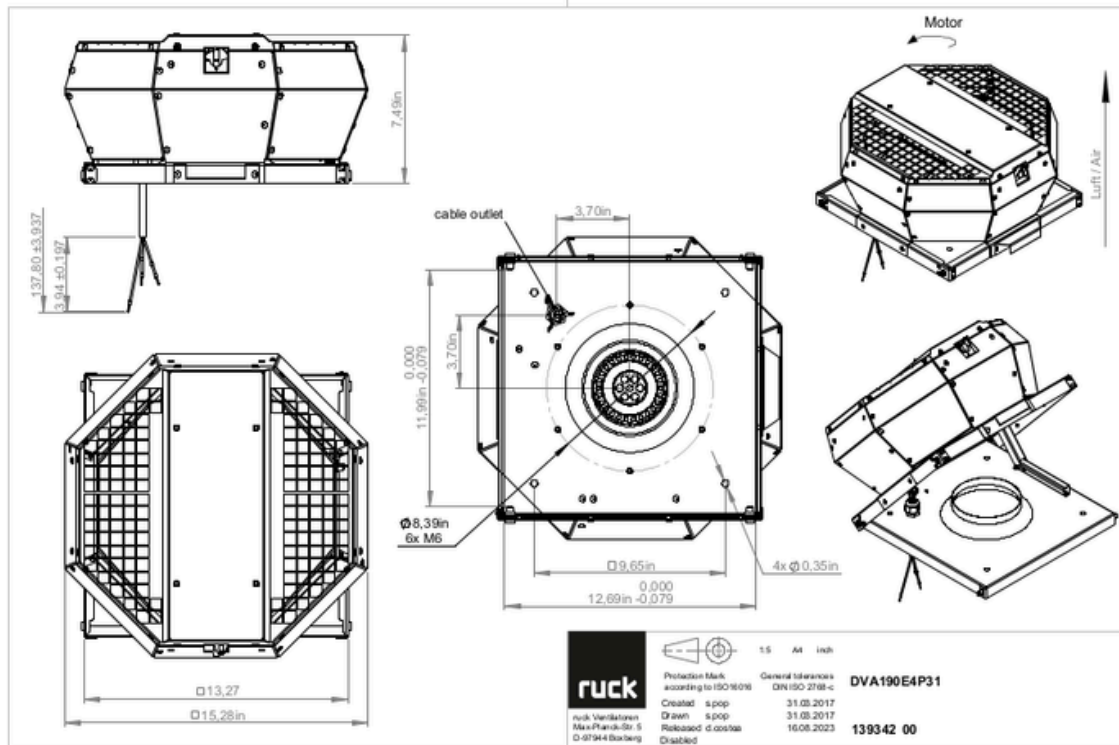
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MECHANICAL ACCESSORIES

DVK 180 10 | 153000



- Automatic roof shutter
- Galvanized steel sheet

DAF 150 | 110735



- Roof inlet flange
- Galvanized steel sheet

DAF 180 | 110744



- Roof inlet flange
- Galvanized steel sheet

DAS 180 | 110745



- Flexible roof inlet spigot
- Temperature resistant up to 75 °C

DAF 160 | 137396



- Roof inlet flange
- Galvanized steel sheet

DSF 220-10 | 126170



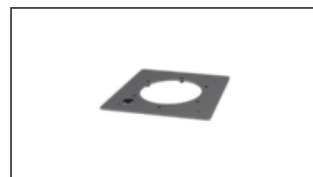
- Flat roof socket
- Made of aluminum AlMg3
- Sound and heat insulation

DSF 220-12 | 133709



- Sloped roof socket
- Made of aluminum AlMg3
- Sound and heat insulation
- For roof slope 3°

DAP 220 | 133946



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

DSS 220-10 | 126356



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

DSS 220-12 | 134283



- Sloped roof socket silencer
- Made of aluminum AlMg3
- Sound and heat insulation
- For roof slope 3°

ELECTRICAL ACCESSORIES

TES 0145 | 111858



- Step transformer
- 230 V ~, 50/60 Hz

TEE 015 | 115893



- 5-step transformer
- 230 V ~, 50/60 Hz



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