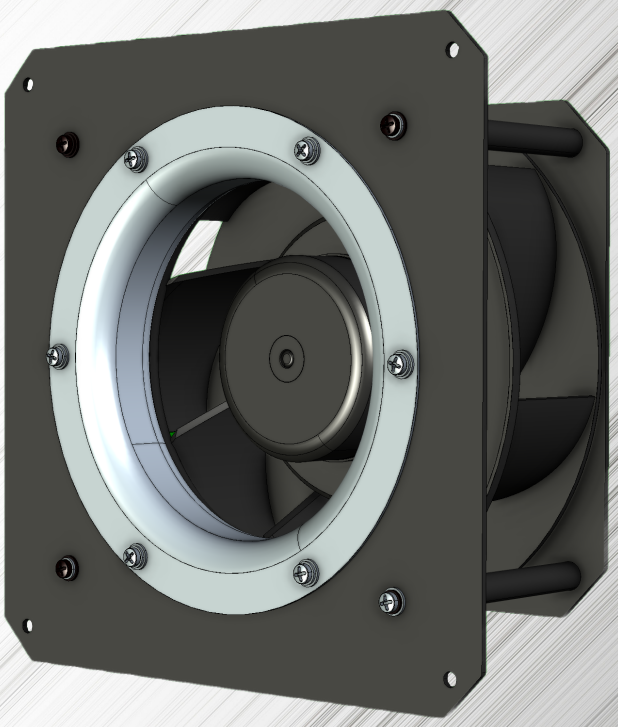
SWISS ROTORS

SR-FS-P-190-0.17



EC Fan Set

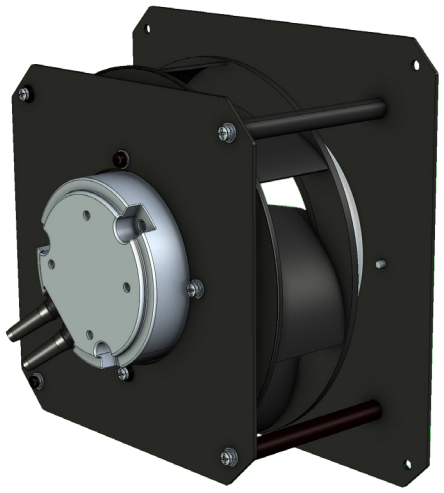
190 mm

Backward Curved
Single Inlet, Single Width
Polymer Impeller

Technical Specification in Metric Units

Catalog ver: 20250602 (June, 2025)

Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to CAV/VAV systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Fan Set Model	SR-FS-P-190-0.17
Rated Voltage	1×230 VAC / 50-60 Hz
Rated Current	1.2 A
Nominal Input Power	0.17 kW
Revolutions: Min / Nominal	2100 ÷ 4490 RPM
CAV K-factor	23.0
Storage temperature range	-30 ÷ +50 °C
Operating temperatures range	-25 ÷ +50 °C
Support plate material	Galvanized steel
Support brackets material	Powder coated steel
Mass	2.7 Kg
Installation position	Horizontal / Vertical shaft

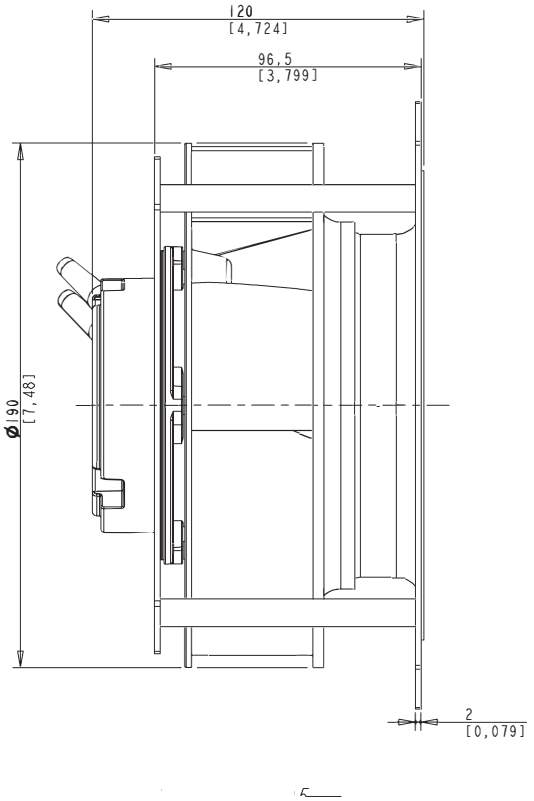
Motor

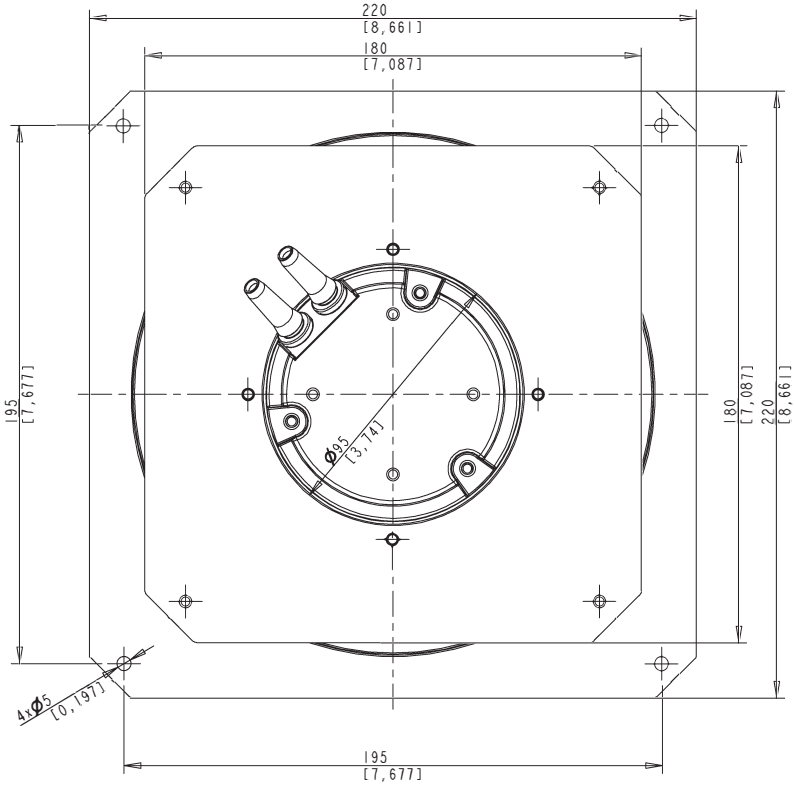
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 44
Overload protection	Die-cast aluminum
Speed Control	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	20 000 (104 °F) / 20 000 (max. work. temperature)
Insulation class	F

Impeller

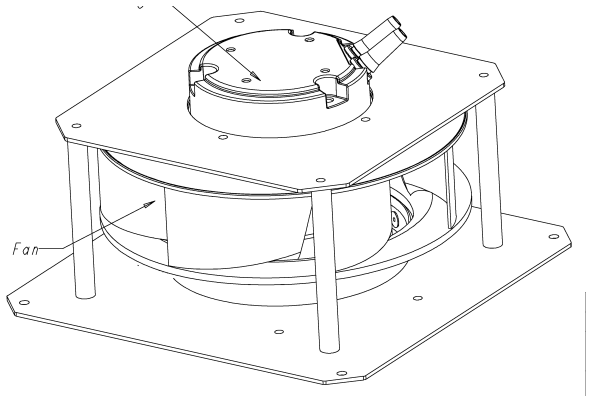
Fan Impeller Size	190 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Polymer
Inlet funnel material	Polymer
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)

Installation Dimensions





Information according to (EU) 327/2011 (ERP 2018)



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011	Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.	
1	**Overall efficiency η_{es}**	43.0%
2	**Measurement category**	A
3	**Efficiency Category**	Static
4	**Efficiency grade N: Actual / Req. 2015**	45.1%
5	**Variable speed drive**	Yes
9	**Power consumption Ped**	0.25 kW
	Air flow qv	609 m³/h
	Pressure increase pfs	559 Pa
10	**Speed (rpm) n**	4 490 RPM
11	**Specific ratio**	1.01

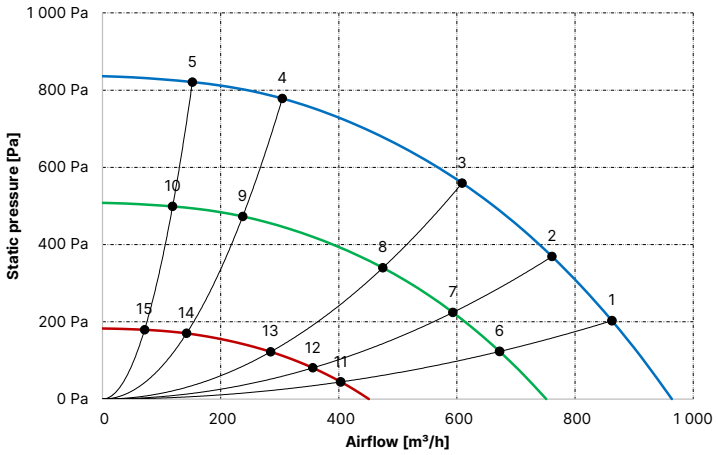
Complience with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways"

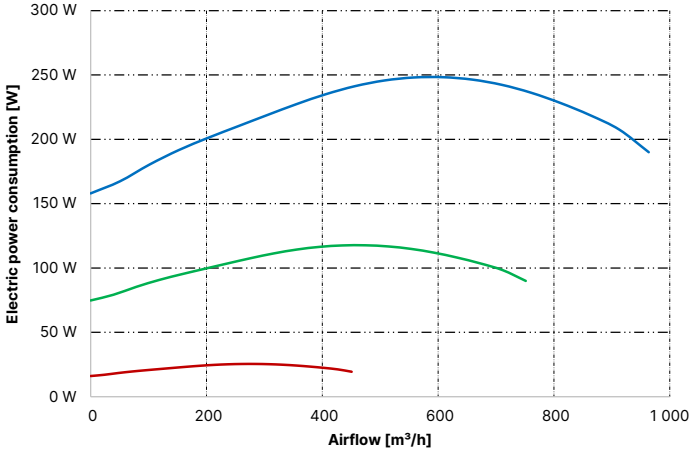
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	4 490	862	203	1.5	0.22	63.8	71.8	78.0	0.89
2	4 490	761	369	1.6	0.24	65.9	73.9	79.5	1.18
3	4 490	609	559	1.7	0.25	68.6	76.6	81.6	1.37
4	4 490	304	778	1.5	0.22	71.3	79.3	84.7	1.46
5	4 490	152	821	1.3	0.19	71.2	79.2	84.8	1.39
6	3 500	672	123	0.8	0.10	58.4	66.4	72.6	1.19
7	3 500	593	224	0.8	0.11	60.4	68.4	74.1	1.48
8	3 500	474	340	0.8	0.12	63.2	71.2	76.2	1.69
9	3 500	237	473	0.8	0.10	65.9	73.9	79.3	1.84
10	3 500	119	499	0.7	0.09	65.8	73.8	79.4	1.80
11	2 100	403	44	0.3	0.02	48.1	56.1	61.5	2.71
12	2 100	356	81	0.3	0.02	49.4	57.4	63.0	2.96
13	2 100	285	122	0.3	0.03	52.1	60.1	65.1	3.14
14	2 100	142	170	0.3	0.02	54.8	62.8	68.2	3.47
15	2 100	71	180	0.2	0.02	54.7	62.7	68.3	3.59

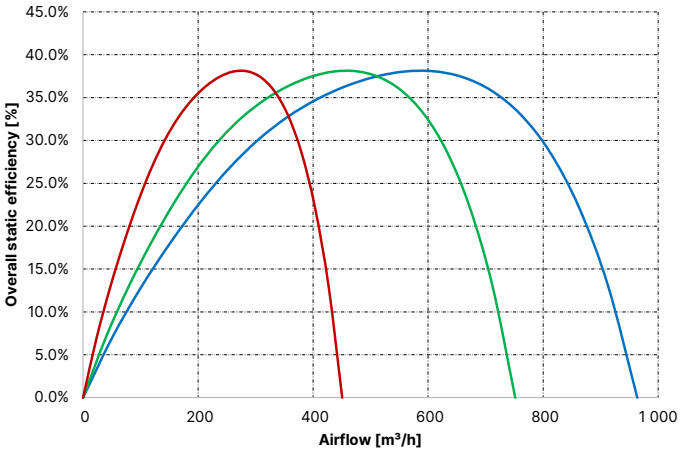
dP = f(V)



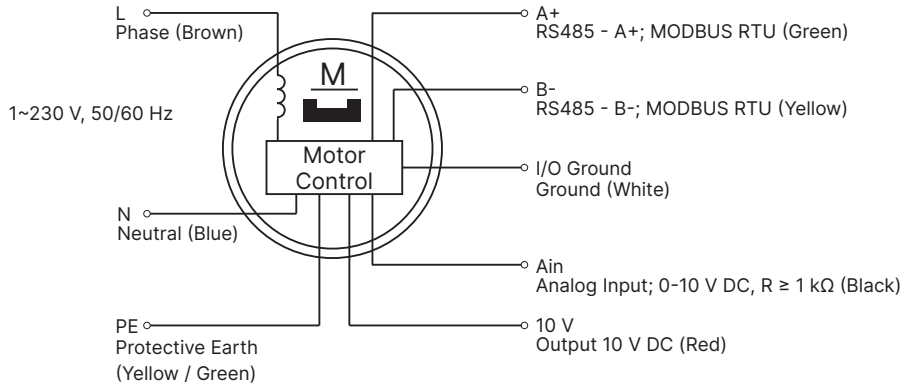
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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USA

1075 Highway 124, Building 300, Suite 300
Hoschton, GA 30548

+1 470 266 6546

POLAND

Rumska 18
81-198 Dębogórze

+48 66 505 19 41