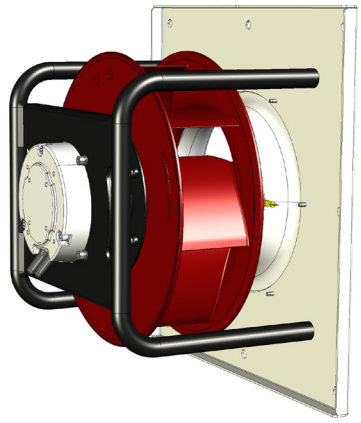
Apperance



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-250-0.3
Rated Voltage	1×230 VAC / 50-60 Hz
Rated Current	3.5 A
Nominal Input Power	0.55 kW
Revolutions: Min / Nominal	300 ÷ 3000 RPM
CAV K-factor	63.3
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 50°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	7.3 kg
Installation position	Horizontal / Vertical shaft

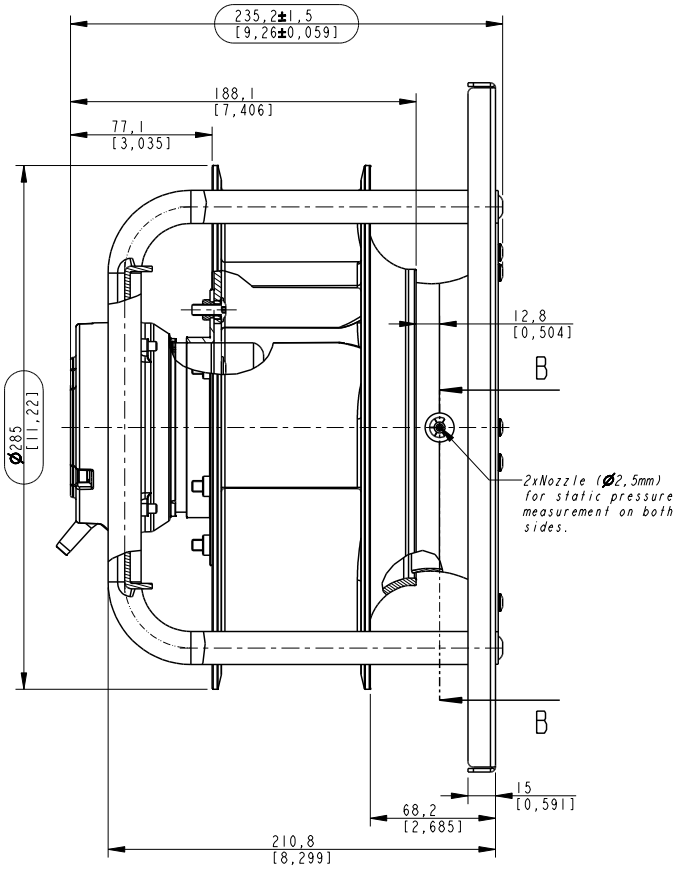
Motor

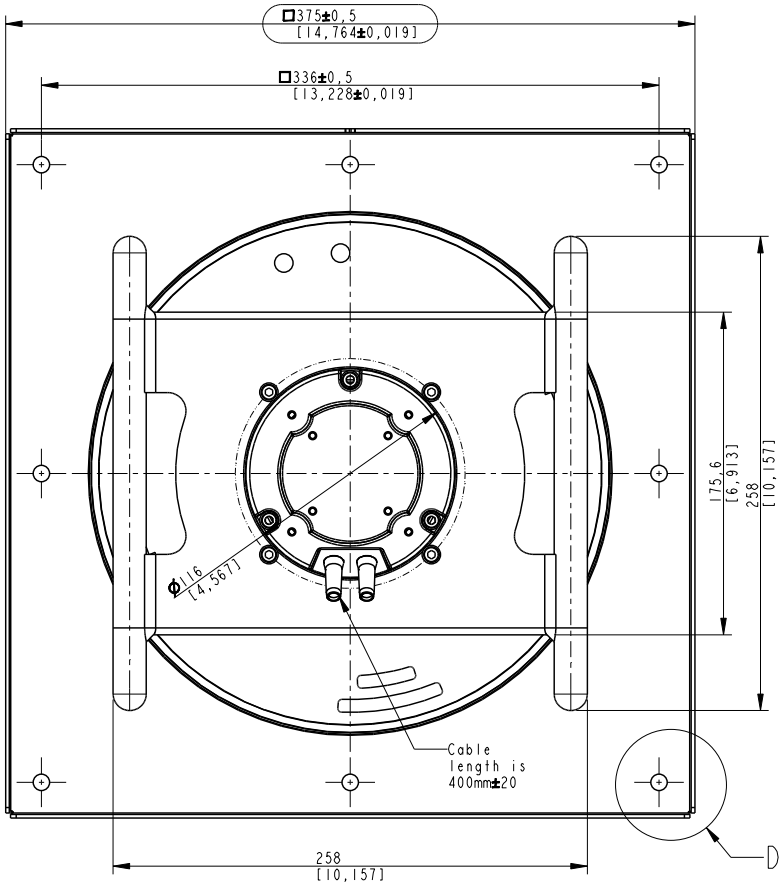
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	63 400 (40 °C) / 31 700 (max. work. temperature)
Insulation class	F

Impeller

Fan Impeller Size	250 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Polymer
Inlet funnel material	Hot-dip galvanized steel
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)

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}	66.2%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	73.3%
5	Variable speed drive	Yes
9	Power consumption Ped	0.49 kW
	Air flow qv	1 676 m³/h
	Pressure increase pfs	632.7
10	Speed (rpm) n	3 000
11	Specific ratio	1.01

Complience with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways"
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index

AMCA Certification

Swiss Rotors Sp. z o.o. certifies that the

SR-FS-P-250-0.3 Fan Set

shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Power rating does not include transmission losses.

Performance ratings do not include the effects of appurtenances.

Performance certified is for installation type A (Free inlet, free outlet).

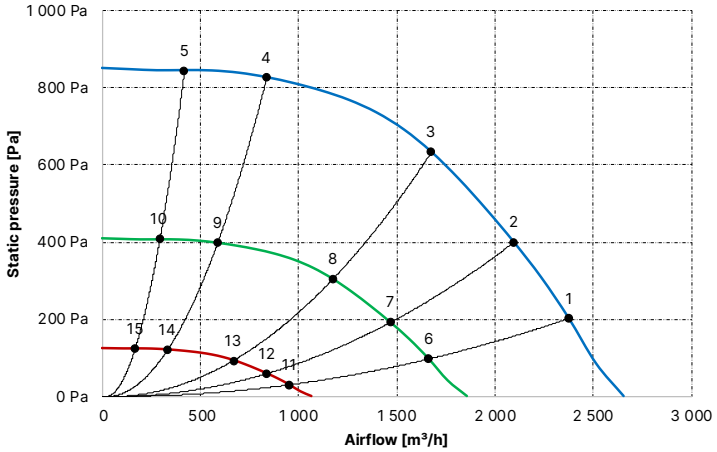
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	90

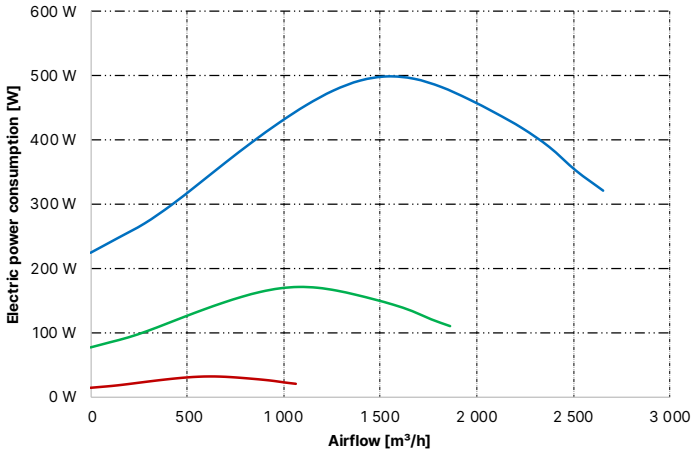
Measured Points

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	3 000	2 375	202	2.2	0.39	67.2	75.2	81.2	1.09
2	3 000	2 095	399	2.5	0.44	66.1	74.1	80.3	1.42
3	3 000	1 676	633	2.8	0.49	63.5	71.5	77.2	1.56
4	3 000	838	826	2.2	0.40	68.8	76.8	81.8	1.47
5	3 000	419	845	1.7	0.30	71.0	79.0	84.4	1.34
6	2 100	1 662	97	0.7	0.13	59.4	67.4	73.5	1.55
7	2 100	1 467	193	0.9	0.15	58.4	66.4	72.5	1.82
8	2 100	1 173	305	1.0	0.17	55.8	63.8	69.5	1.91
9	2 100	587	398	0.8	0.14	61.0	69.0	74.1	1.85
10	2 100	293	407	0.6	0.10	63.2	71.2	76.6	1.78
11	1 200	950	30	0.1	0.02	47.3	55.3	61.3	3.60
12	1 200	838	58	0.2	0.03	46.2	54.2	60.4	3.56
13	1 200	671	93	0.2	0.03	43.6	51.6	57.3	3.35
14	1 200	335	121	0.1	0.03	48.9	56.9	61.9	3.33
15	1 200	168	124	0.1	0.02	51.1	59.1	64.5	3.51

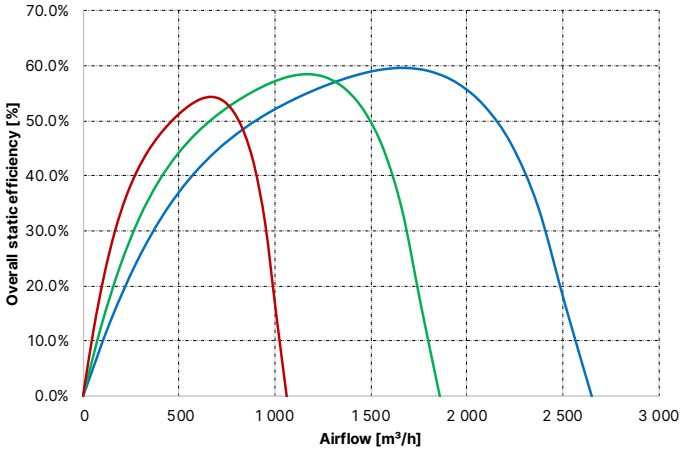
dP = f(V)



EPC = f(V)



η_{es} = f(V)



Power supply and control connections