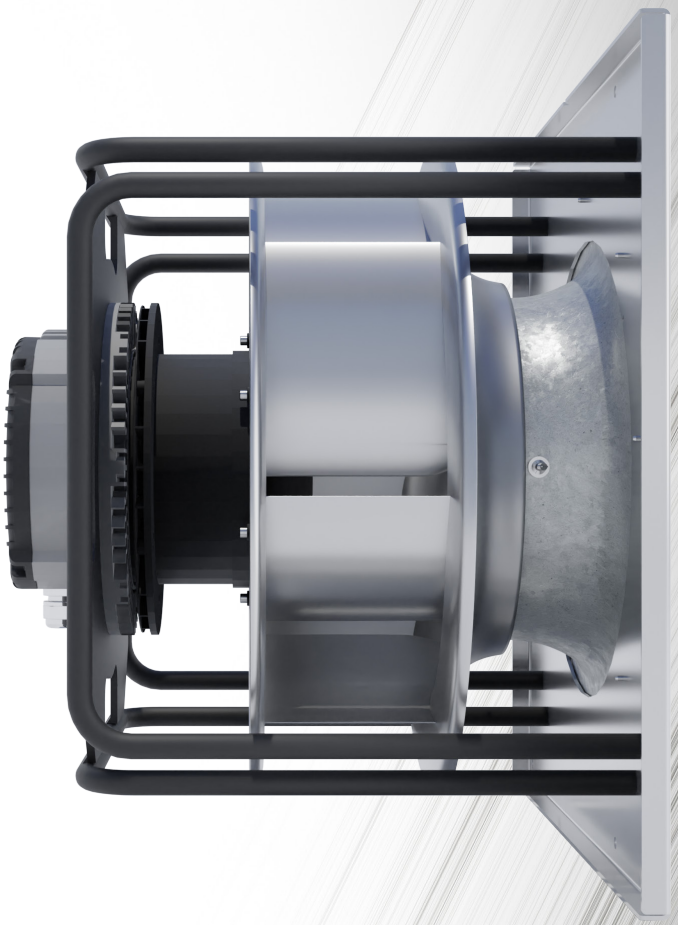
SWISS ROTORS

SR-FS-A



EC Fan Sets

225-560 mm

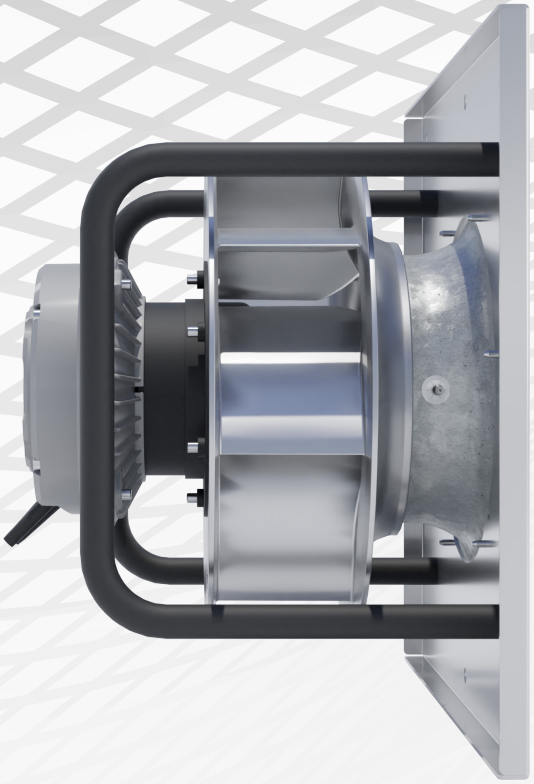
Backward Curved
Single Inlet, Single Width
Aluminum Impellers

Metric Units Technical Catalog

Catalog ver: 20240524 (May, 2024)

SR-FS-A

EC Fan Sets



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

General Specification

Fully assembled EC Fan Set (**FS**)

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

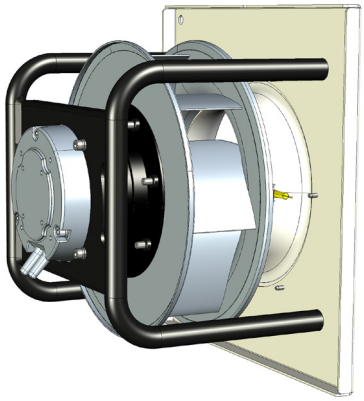
Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

Complience with standards

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

Commission Regulation(EU) 327/2011 – Requirements for fans driven by motors with an electric input power between 125 W and 500 kW

Apperance



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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-A-225-0.3
Rated Voltage	1×230 VAC / 50-60 Hz
Rated Current	3.0 A
Nominal Input Power	0.5 kW
Revolutions: Min / Nominal	370 ÷ 3600 RPM
CAV K-factor	45.0
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	6.3 kg
Installation position	Horizontal / Vertical shaft

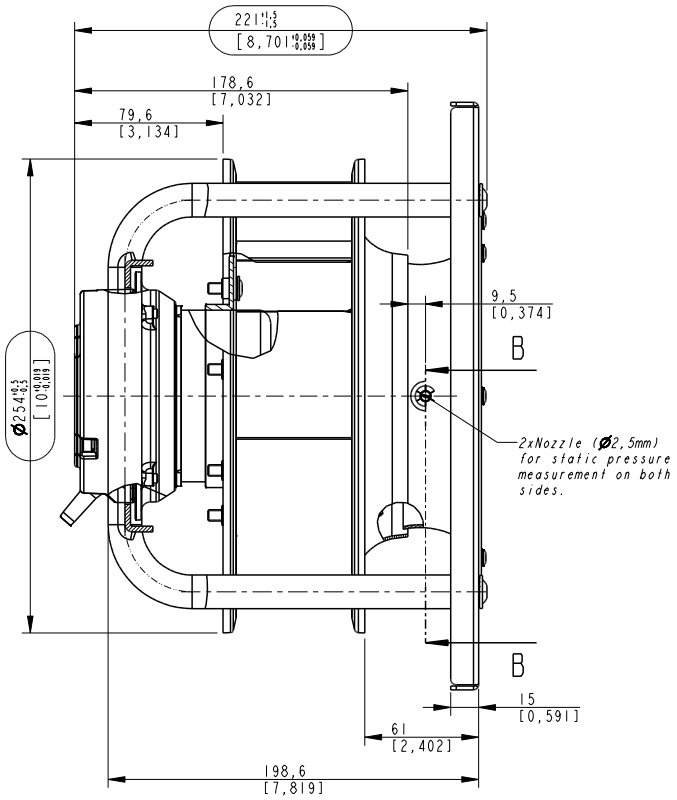
Motor

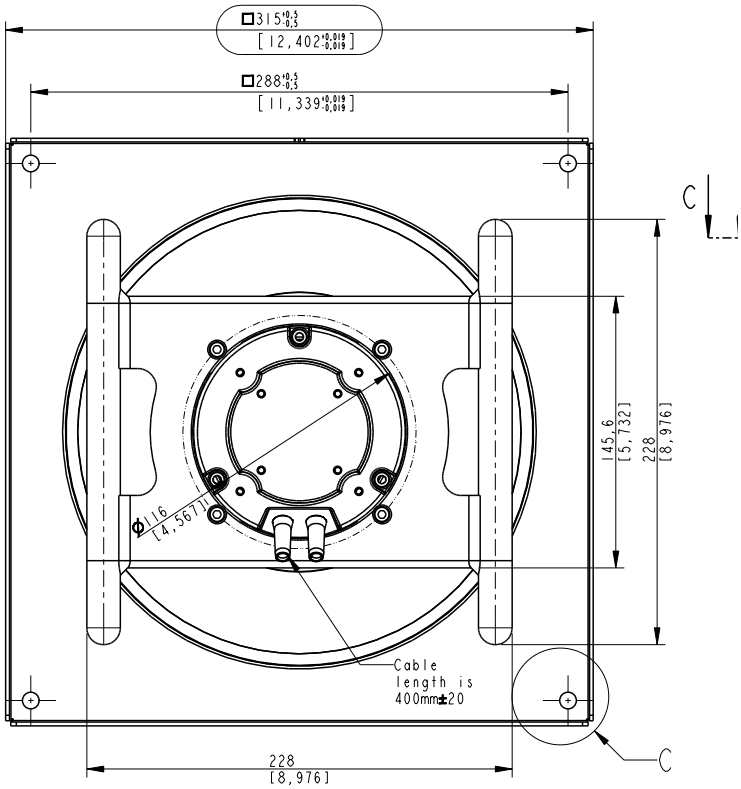
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	63 400 (40 °C) / 31 700 (max. work. temperature)

Impeller

Fan Impeller Size	225 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	62.7%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	71.1%
5	Variable speed drive	Yes
9	Power consumption Ped	0.41 kW
	Air flow qv	1 238 m³/h
	Pressure increase pfs	674.3
10	Speed (rpm) n	3 600
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-A-225-0.3 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).

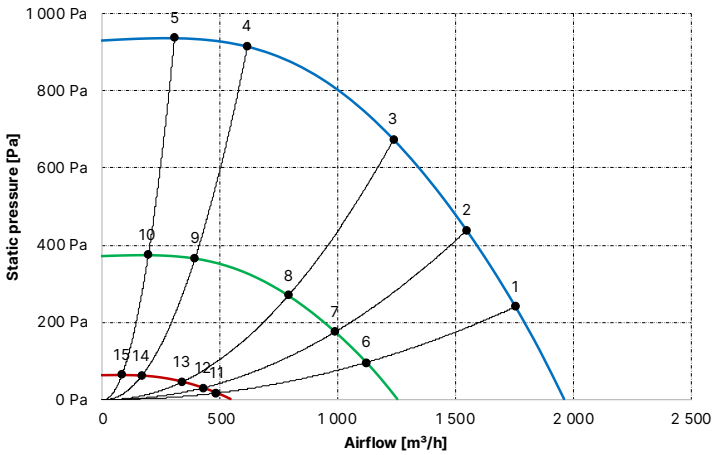
AMCA Fan Efficiency Grade

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

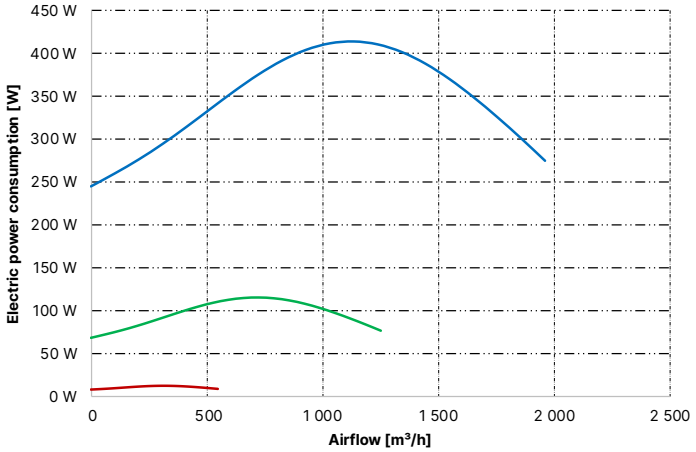
Measured Points

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	3 600	1 754	240	2.0	0.33	68.0	76.0	81.6	1.14
2	3 600	1 547	438	2.2	0.37	67.9	75.9	81.5	1.43
3	3 600	1 238	674	2.5	0.41	67.4	75.4	80.3	1.57
4	3 600	619	916	2.1	0.36	71.4	79.4	84.9	1.49
5	3 600	309	938	1.8	0.29	71.9	79.9	85.3	1.29
6	2 301	1 121	96	0.6	0.09	58.3	66.3	71.9	1.67
7	2 301	989	175	0.7	0.10	58.2	66.2	71.8	1.88
8	2 301	791	269	0.7	0.11	57.7	65.7	70.6	1.96
9	2 301	396	366	0.6	0.10	61.7	69.7	75.2	1.92
10	2 301	198	374	0.5	0.08	62.2	70.2	75.6	1.80
11	1 000	487	16	0.1	0.01	40.2	48.2	53.8	5.24
12	1 000	430	30	0.1	0.01	40.1	48.1	53.7	4.82
13	1 000	344	46	0.1	0.01	39.6	47.6	52.5	4.39
14	1 000	172	62	0.1	0.01	44.0	52.0	57.1	4.38
15	1 000	86	64	0.1	0.01	44.0	52.0	57.5	4.58

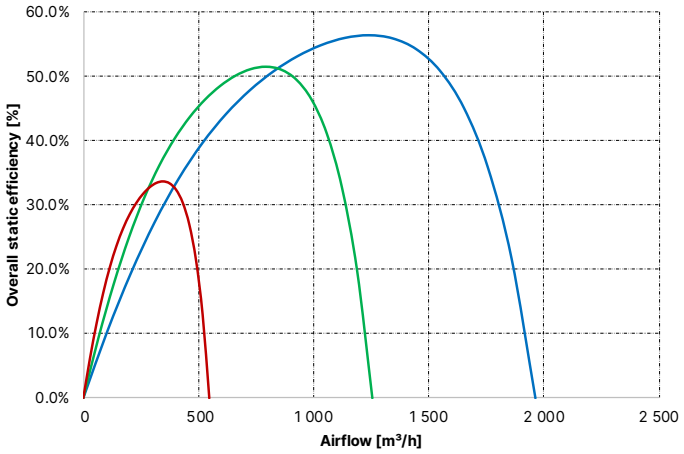
dP = f(V)



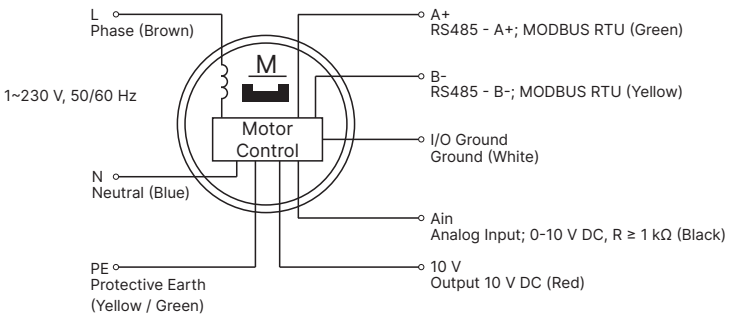
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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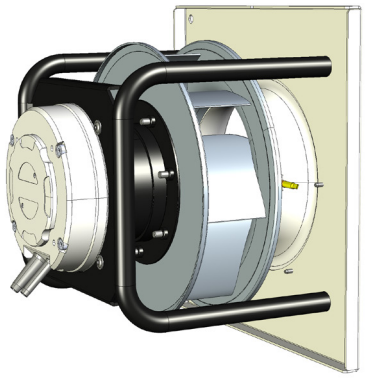
Apperance



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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-A-225-0.7
Rated Voltage	1×230 VAC / 50-60 Hz
Rated Current	5.7 A
Nominal Input Power	0.9 kW
Revolutions: Min / Nominal	450 ÷ 4500 RPM
CAV K-factor	47.5
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	7.6 kg
Installation position	Horizontal / Vertical shaft

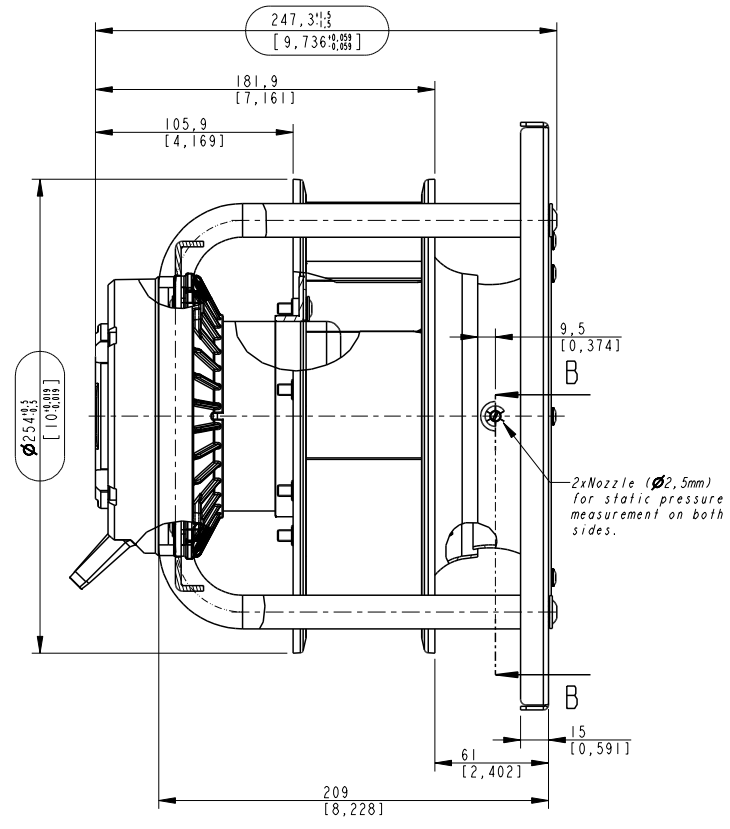
Motor

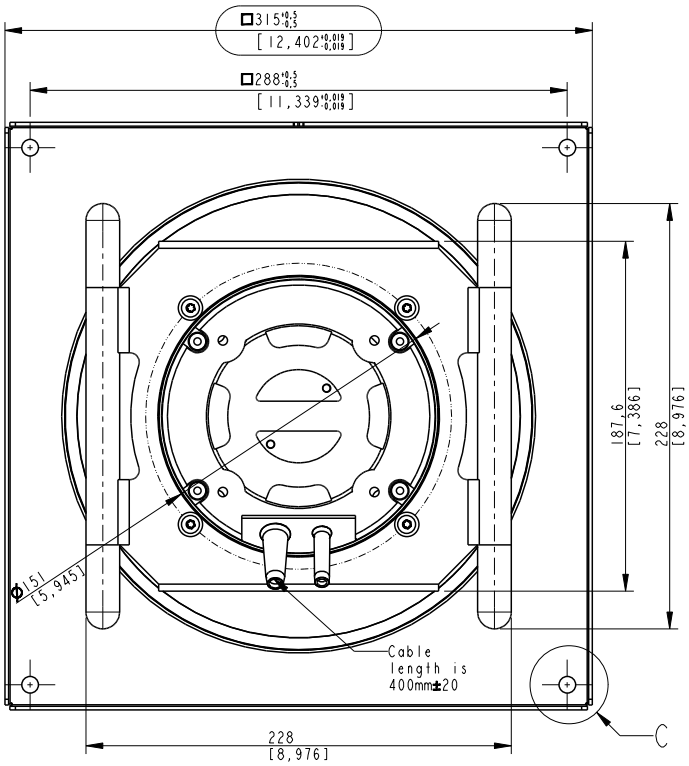
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	63 400 (40 °C) / 31 700 (max. work. temperature)

Impeller

Fan Impeller Size	225 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	59.7%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	66.2%
5	Variable speed drive	Yes
9	Power consumption Ped	0.83 kW
	Air flow qv	1 527 m³/h
	Pressure increase pfs	1 069.4
10	Speed (rpm) n	4 500
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-A-225-0.7 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).

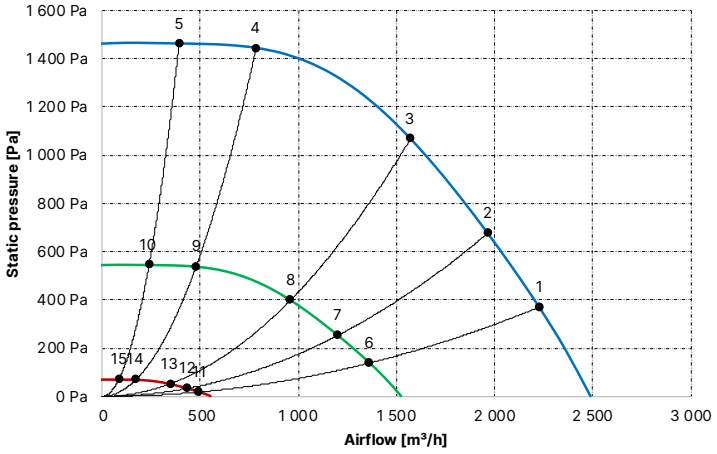
AMCA Fan Efficiency Grade

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

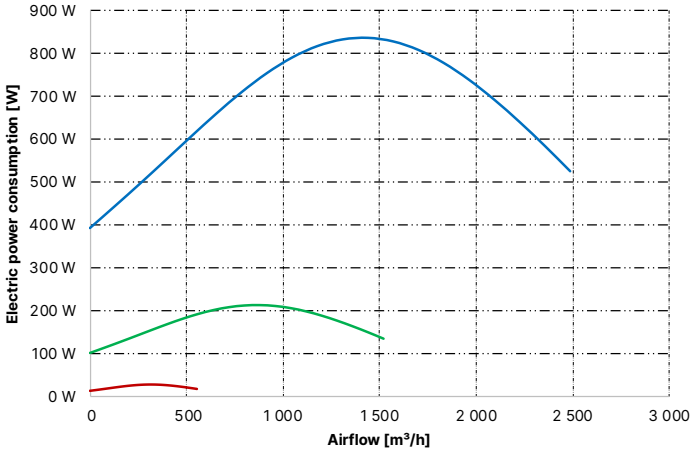
Measured Points

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	4 500	2 227	371	3.5	0.64	72.8	80.8	86.4	0.97
2	4 500	1 965	677	4.1	0.74	72.8	80.8	86.5	1.26
3	4 500	1 572	1 069	4.6	0.83	72.3	80.3	85.2	1.42
4	4 500	786	1 445	3.9	0.71	76.2	84.2	89.7	1.32
5	4 500	393	1 463	3.0	0.55	76.8	84.8	90.2	1.16
6	2 751	1 361	138	0.8	0.16	62.2	70.2	75.7	1.30
7	2 751	1 201	253	1.0	0.19	62.1	70.1	75.8	1.52
8	2 751	961	400	1.1	0.21	61.6	69.6	74.5	1.64
9	2 751	481	540	0.9	0.18	65.5	73.5	79.0	1.60
10	2 751	240	547	0.7	0.14	66.1	74.1	79.5	1.53
11	1 000	495	18	0.0	0.02	40.2	48.2	53.7	2.72
12	1 000	437	33	0.0	0.02	40.1	48.1	53.8	2.49
13	1 000	349	53	0.1	0.03	39.6	47.6	52.5	2.29
14	1 000	175	71	0.0	0.02	43.5	51.5	57.0	2.32
15	1 000	87	72	0.0	0.02	44.1	52.1	57.5	2.57

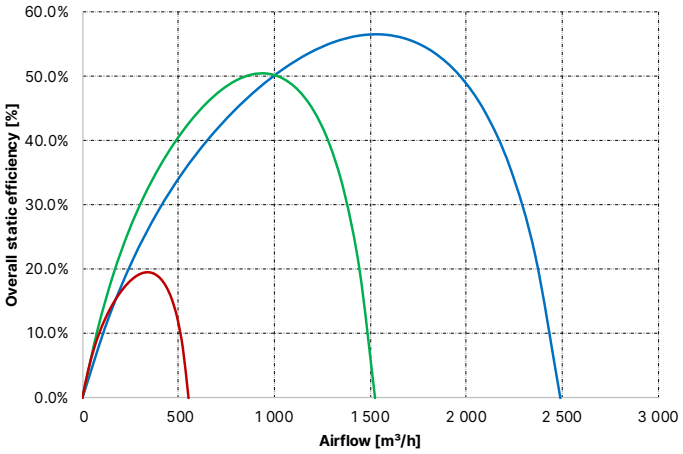
dP = f(V)



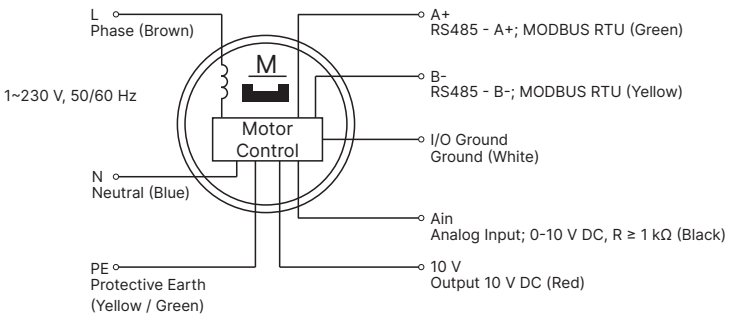
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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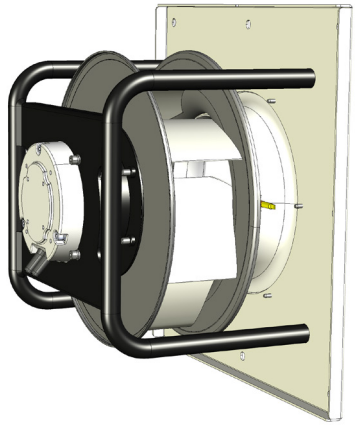
Apperance



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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-A-250-0.3
Rated Voltage	1×230 VAC / 50-60 Hz
Rated Current	3.5 A
Nominal Input Power	0.6 kW
Revolutions: Min / Nominal	300 ÷ 3000 RPM
CAV K-factor	63.7
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	7.5 kg
Installation position	Horizontal / Vertical shaft

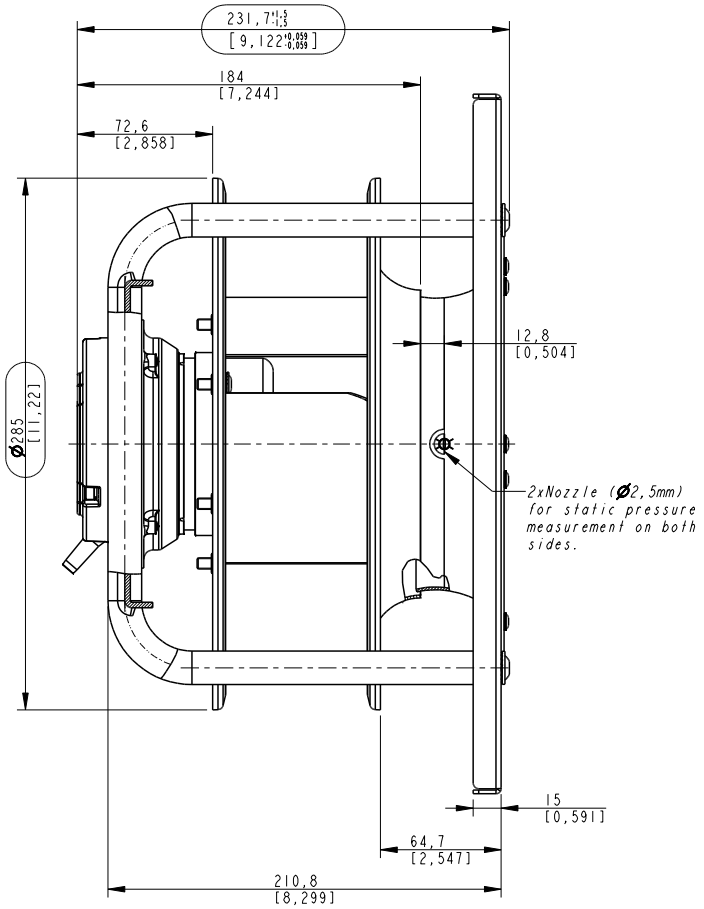
Motor

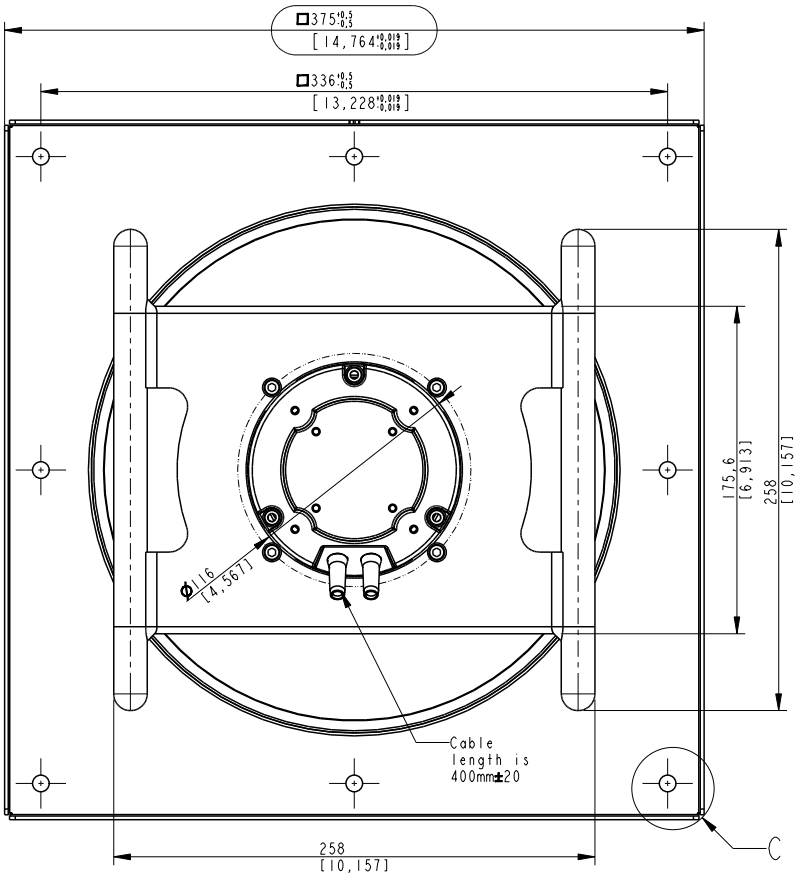
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	63 400 (40 °C) / 31 700 (max. work. temperature)

Impeller

Fan Impeller Size	250 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	62.4%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	70.0%
5	Variable speed drive	Yes
9	Power consumption Ped	0.48 kW
	Air flow qv	1 456 m³/h
	Pressure increase pfs	672.1
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

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Performance ratings do not include the effects of appurtenances.

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

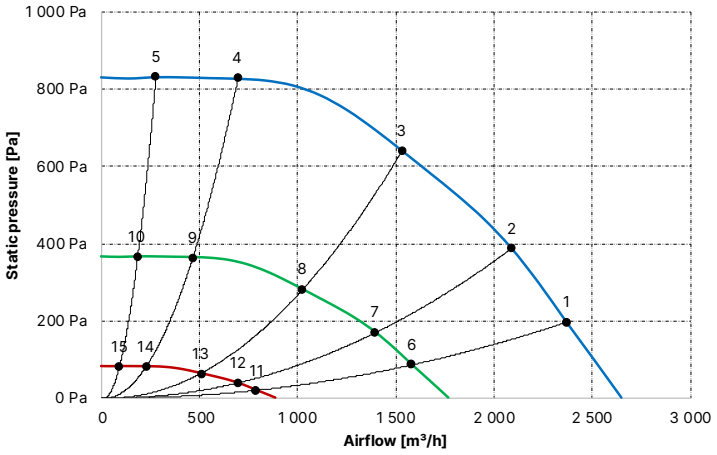
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	85

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	2 369	196	2.2	0.39	71.0	79.0	84.6	1.06
2	3 000	2 090	387	2.5	0.45	71.2	79.2	84.6	1.35
3	3 000	1 533	641	2.7	0.49	70.9	78.9	84.3	1.49
4	3 000	697	829	2.0	0.37	70.2	78.2	83.9	1.42
5	3 000	279	833	1.5	0.27	70.2	78.2	83.9	1.23
6	2 001	1 580	86	0.6	0.12	62.2	70.2	75.9	1.58
7	2 001	1 394	170	0.7	0.14	62.3	70.3	75.8	1.79
8	2 001	1 022	282	0.8	0.15	62.5	70.5	75.8	1.88
9	2 001	465	364	0.6	0.11	62.4	70.4	75.7	1.86
10	2 001	186	366	0.4	0.08	62.4	70.4	75.7	1.77
11	1 000	790	19	0.1	0.02	46.9	54.9	60.9	4.48
12	1 000	697	38	0.1	0.02	47.0	55.0	60.8	4.13
13	1 000	511	63	0.1	0.02	47.1	55.1	60.8	3.79
14	1 000	232	81	0.1	0.02	47.2	55.2	60.7	3.95
15	1 000	93	82	0.0	0.01	47.2	55.2	60.7	4.29

dP = f(V)



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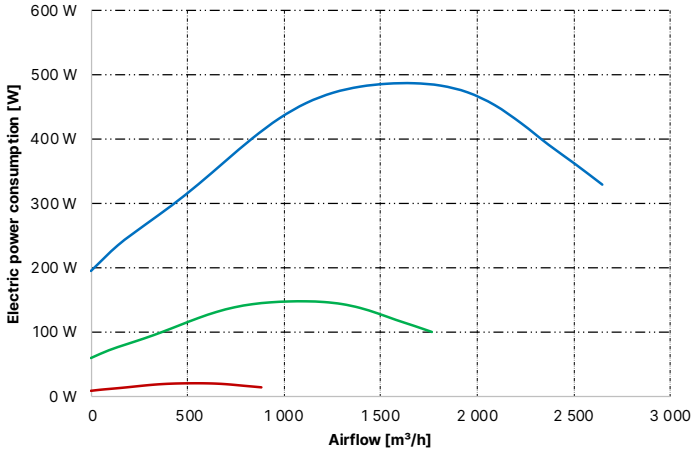
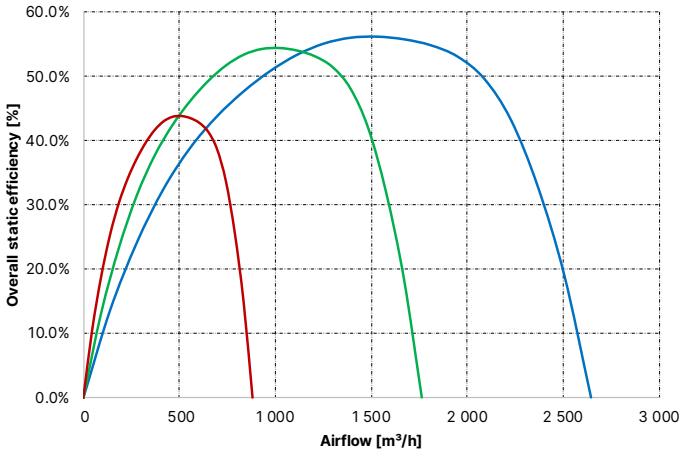
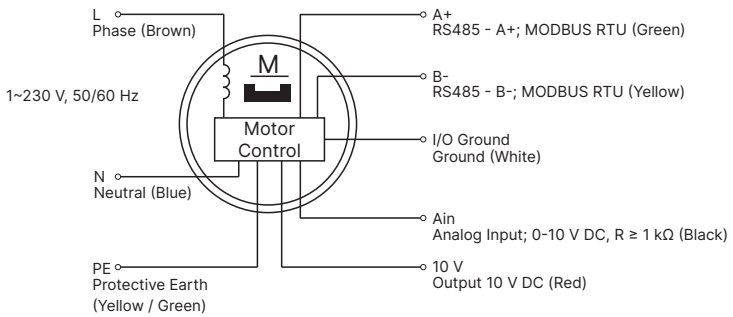


η_{es} = f(V)



Power supply and control connections



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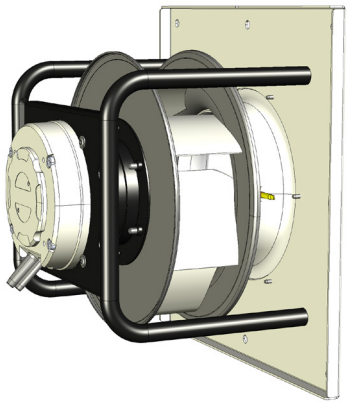
Apperance



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-A-250-0.7
Rated Voltage	1×230 VAC / 50-60 Hz
Rated Current	4.4 A
Nominal Input Power	1.0 kW
Revolutions: Min / Nominal	380 ÷ 3800 RPM
CAV K-factor	64.0
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	8.7 kg
Installation position	Horizontal / Vertical shaft

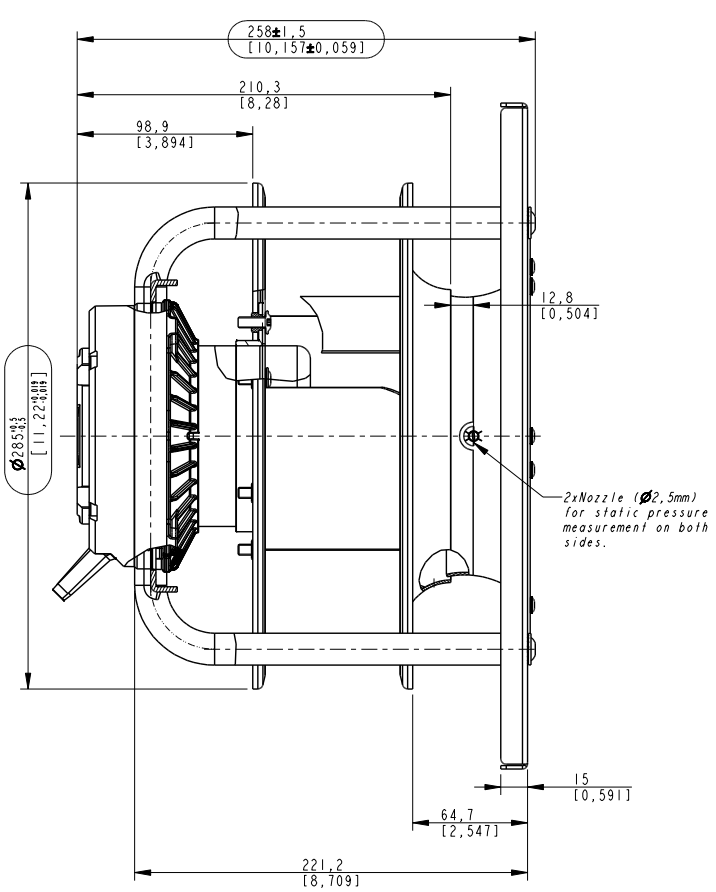
Motor

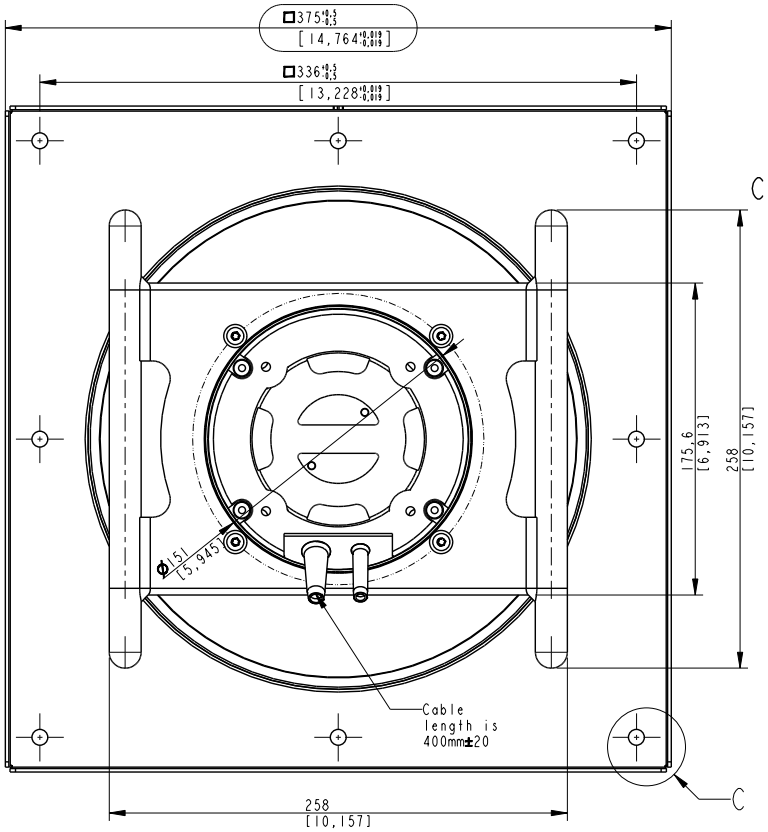
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	63 400 (40 °C) / 31 700 (max. work. temperature)

Impeller

Fan Impeller Size	250 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	65.2%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	70.6%
5	Variable speed drive	Yes
9	Power consumption Ped	0.93 kW
	Air flow qv	2 111 m³/h
	Pressure increase pfs	950.2
10	Speed (rpm) n	3 800
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-A-250-0.7 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).

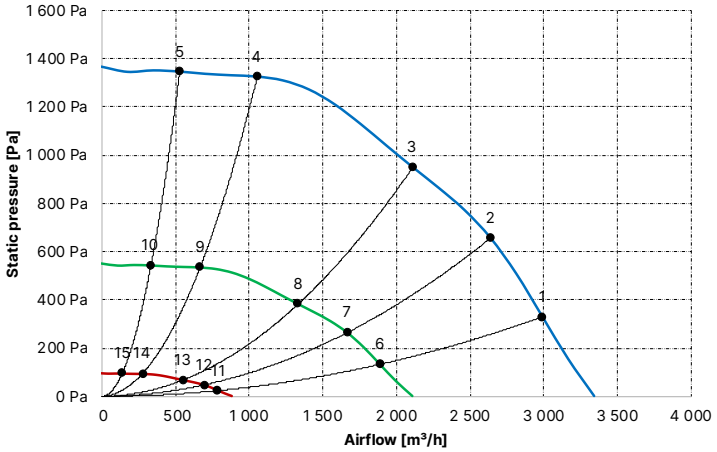
AMCA Fan Efficiency Grade

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

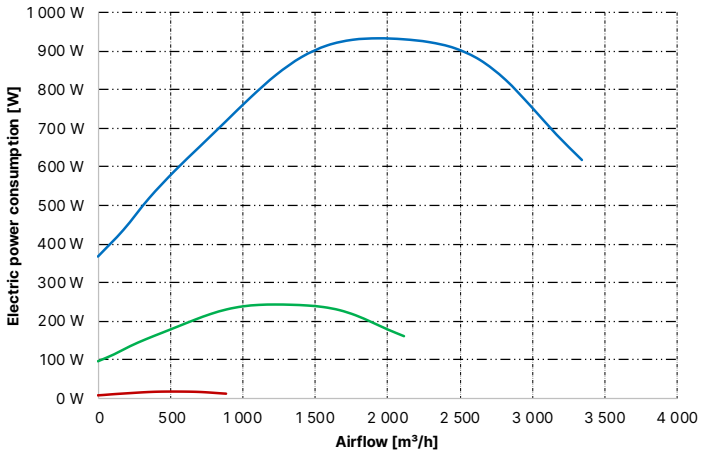
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa] [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	3 800	2 991	330	3.3	0.76	76.2	84.2	89.7	0.97
2	3 800	2 639	657	3.9	0.88	76.4	84.4	89.6	1.32
3	3 800	2 111	950	4.1	0.93	75.6	83.6	89.2	1.44
4	3 800	1 056	1 326	3.4	0.78	74.4	82.4	88.2	1.35
5	3 800	528	1 347	2.6	0.59	74.3	82.3	88.0	1.17
6	2 399	1 888	133	0.8	0.20	66.1	74.1	79.8	1.36
7	2 399	1 666	265	1.0	0.23	66.3	74.3	79.7	1.66
8	2 399	1 333	384	1.0	0.24	66.5	74.5	79.7	1.75
9	2 399	666	536	0.8	0.20	65.9	73.9	79.3	1.70
10	2 399	333	544	0.6	0.15	65.9	73.9	79.3	1.59
11	1 000	787	24	0.0	0.02	47.0	55.0	60.9	4.94
12	1 000	694	47	0.0	0.02	47.0	55.0	60.8	4.68
13	1 000	556	68	0.0	0.02	47.1	55.1	60.8	4.42
14	1 000	278	96	0.0	0.02	47.2	55.2	60.7	4.39
15	1 000	139	97	0.0	0.01	47.3	55.3	60.7	4.72

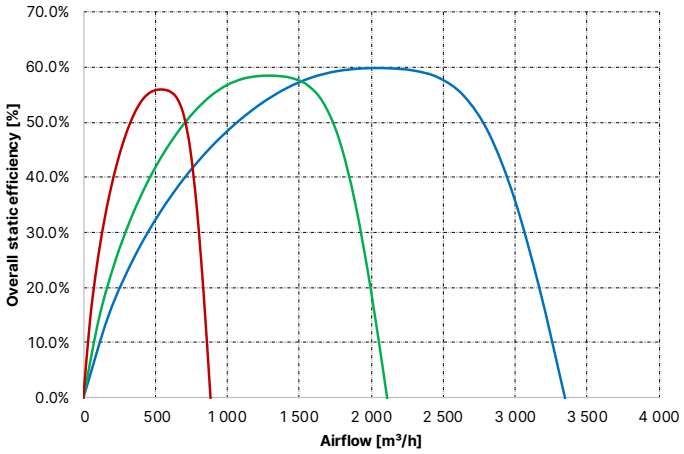
dP = f(V)



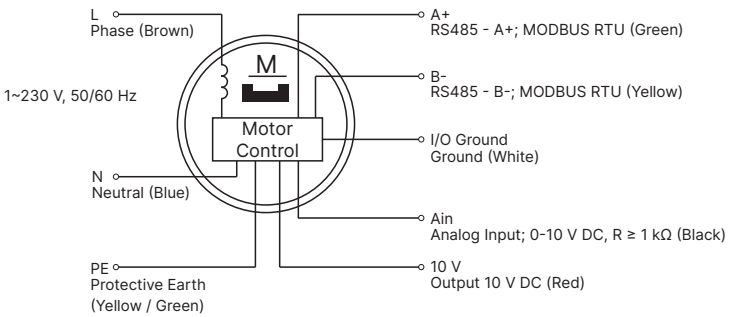
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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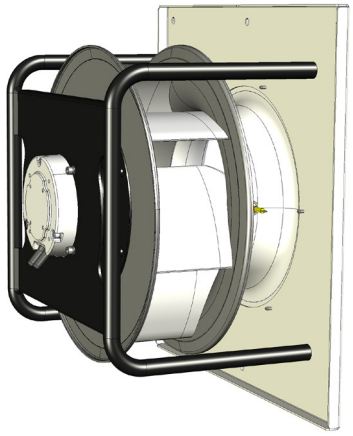
Apperance



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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-A-315-0.3
Rated Voltage	1×230 VAC / 50-60 Hz
Rated Current	3.4 A
Nominal Input Power	0.5 kW
Revolutions: Min / Nominal	300 ÷ 2060 RPM
CAV K-factor	90.3
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	10.9 kg
Installation position	Horizontal / Vertical shaft

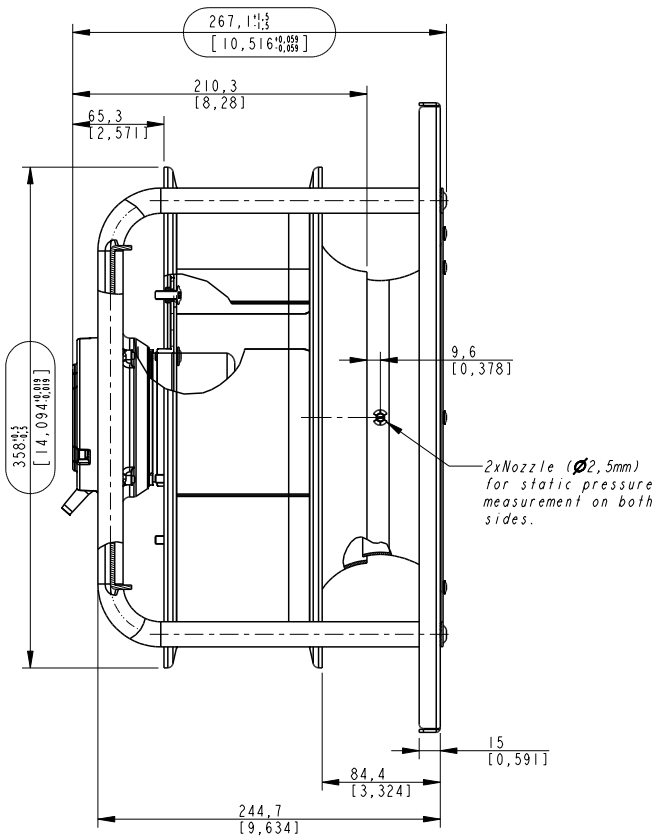
Motor

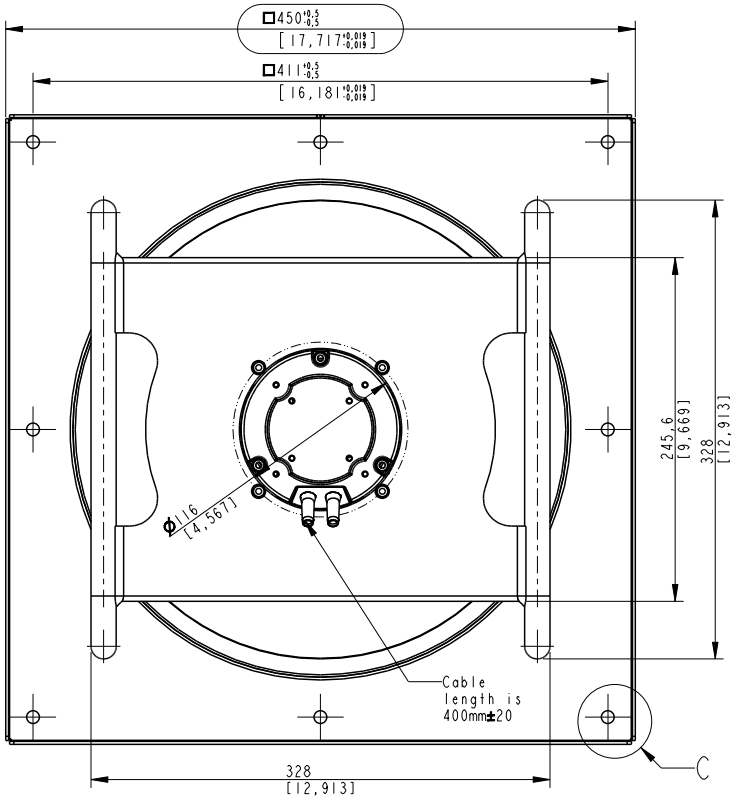
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	63 400 (40 °C) / 31 700 (max. work. temperature)

Impeller

Fan Impeller Size	315 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	62.3%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	70.2%
5	Variable speed drive	Yes
9	Power consumption Ped	0.46 kW
	Air flow qv	2 119 m³/h
	Pressure increase pfs	436.7
10	Speed (rpm) n	2 060
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-A-315-0.3 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).

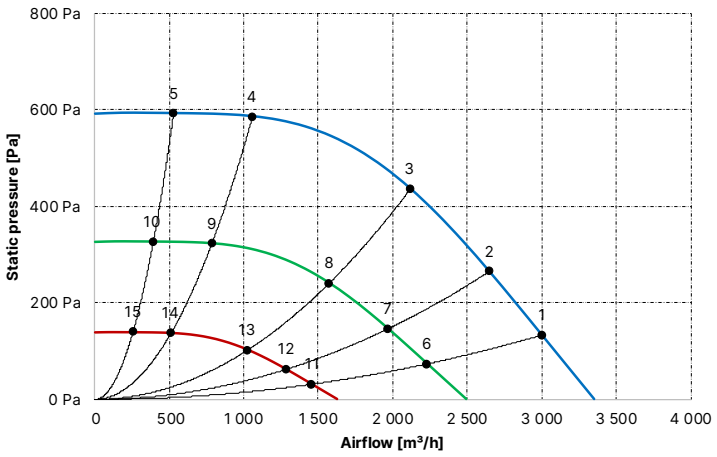
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

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	2 060	3 002	134	2.1	0.37	66.3	74.3	79.7	1.08
2	2 060	2 648	265	2.3	0.41	66.1	74.1	79.8	1.36
3	2 060	2 119	437	2.6	0.46	65.8	73.8	78.6	1.49
4	2 060	1 059	586	2.1	0.38	69.3	77.3	82.8	1.35
5	2 060	530	593	1.5	0.28	70.1	78.1	83.4	1.19
6	1 529	2 228	74	0.8	0.15	59.8	67.8	73.3	1.51
7	1 529	1 966	146	0.9	0.17	59.6	67.6	73.3	1.74
8	1 529	1 573	241	1.0	0.19	59.4	67.4	72.1	1.81
9	1 529	786	323	0.8	0.15	62.8	70.8	76.4	1.66
10	1 529	393	327	0.6	0.11	63.6	71.6	77.0	1.54
11	1 000	1 457	31	0.2	0.05	50.6	58.6	64.0	2.68
12	1 000	1 286	63	0.3	0.05	50.4	58.4	64.1	2.70
13	1 000	1 029	103	0.3	0.06	50.2	58.2	62.9	2.57
14	1 000	514	138	0.2	0.05	53.6	61.6	67.2	2.38
15	1 000	257	140	0.2	0.03	54.4	62.4	67.7	2.38

dP = f(V)



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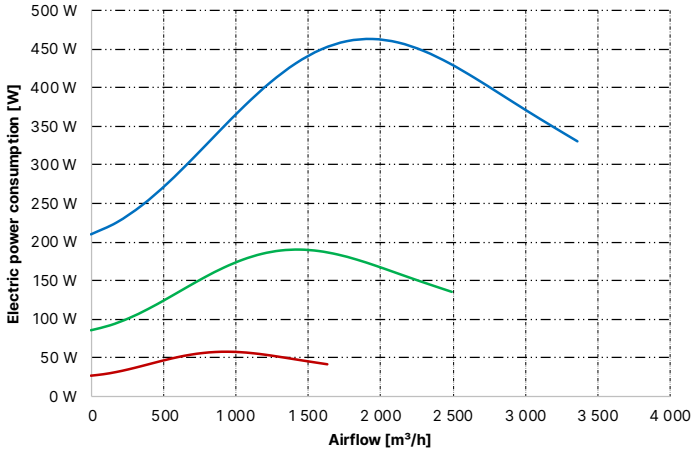
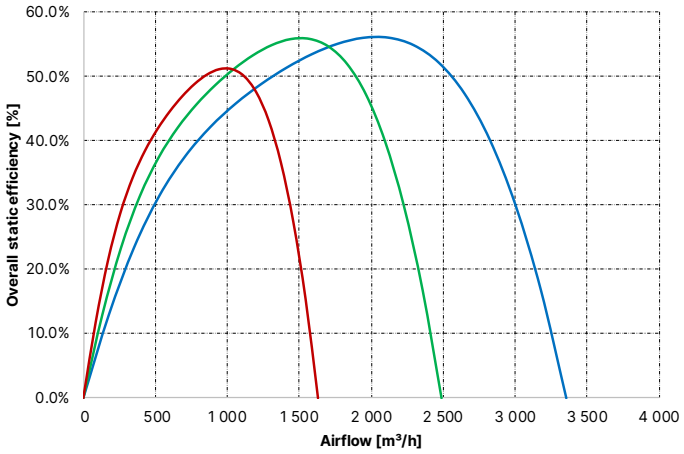
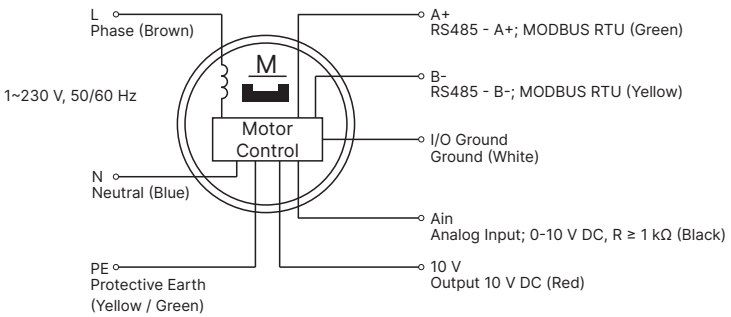


η_{es} = f(V)



Power supply and control connections



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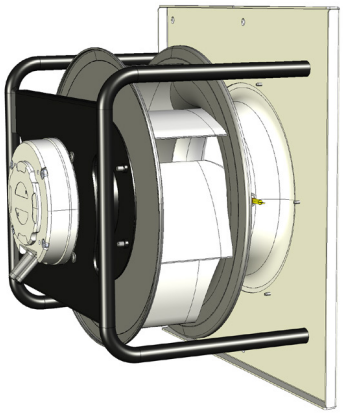
Apperance



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

General specification

Fan Set Model	SR-FS-A-315-0.7
Rated Voltage	1×230 VAC / 50-60 Hz
Rated Current	4.8 A
Nominal Input Power	0.8 kW
Revolutions: Min / Nominal	300 ÷ 2400 RPM
CAV K-factor	94.4
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	12.3 kg
Installation position	Horizontal / Vertical shaft

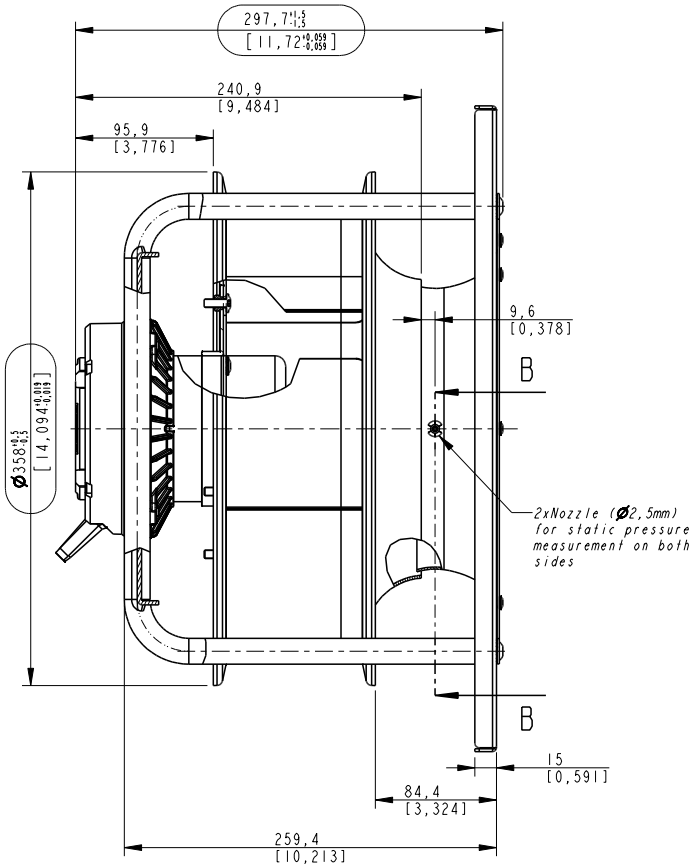
Motor

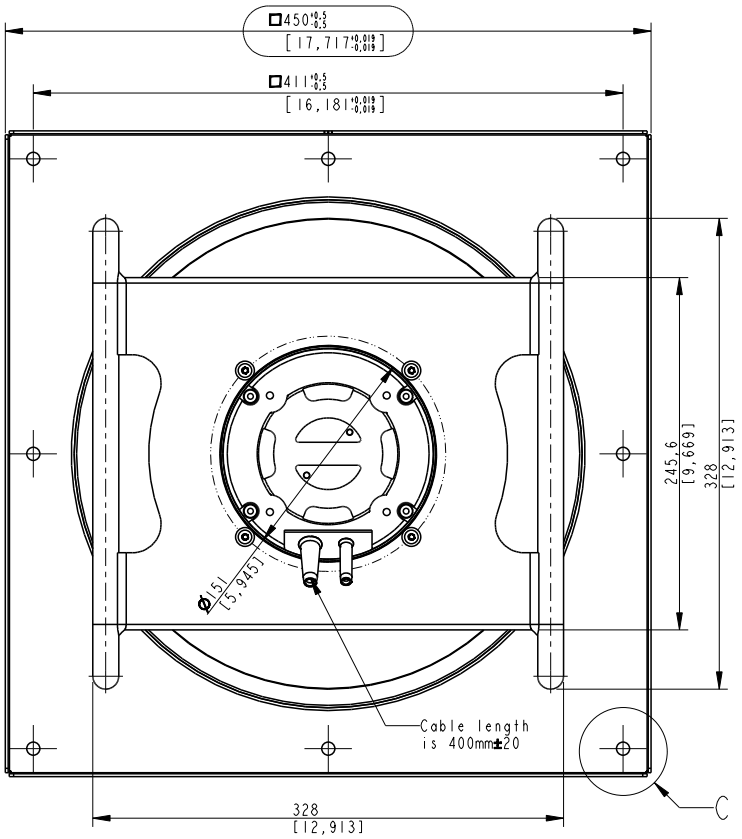
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	63 400 (40 °C) / 31 700 (max. work. temperature)

Impeller

Fan Impeller Size	315 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	64.4%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	70.6%
5	Variable speed drive	Yes
9	Power consumption Ped	0.71 kW
	Air flow qv	2 296 m³/h
	Pressure increase pfs	647.8
10	Speed (rpm) n	2 400
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

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Performance ratings do not include the effects of appurtenances.

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

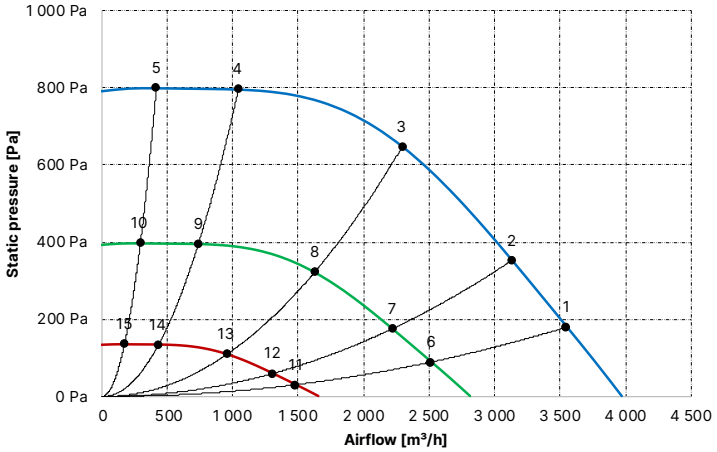
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	85

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	2 400	3 548	179	3.3	0.56	69.7	77.7	83.1	0.99
2	2 400	3 131	352	3.7	0.62	69.4	77.4	83.1	1.29
3	2 400	2 296	648	4.2	0.71	68.9	76.9	81.8	1.44
4	2 400	1 044	796	3.1	0.53	73.0	81.0	86.4	1.25
5	2 400	417	800	2.2	0.38	73.3	81.3	86.7	1.00
6	1 701	2 515	89	1.1	0.20	62.2	70.2	75.7	1.36
7	1 701	2 219	175	1.2	0.23	61.9	69.9	75.6	1.59
8	1 701	1 627	322	1.4	0.26	61.4	69.4	74.3	1.67
9	1 701	740	396	1.0	0.19	65.5	73.5	78.9	1.50
10	1 701	296	398	0.7	0.14	65.8	73.8	79.3	1.29
11	1 000	1 478	30	0.1	0.05	50.7	58.7	64.1	2.75
12	1 000	1 305	60	0.1	0.05	50.4	58.4	64.1	2.73
13	1 000	957	110	0.2	0.06	49.9	57.9	62.8	2.53
14	1 000	435	135	0.1	0.04	54.0	62.0	67.4	2.38
15	1 000	174	135	0.0	0.03	54.2	62.2	67.7	2.31

dP = f(V)



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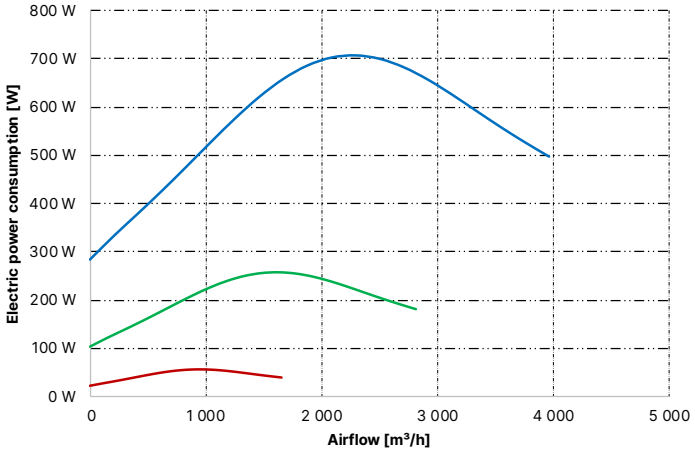
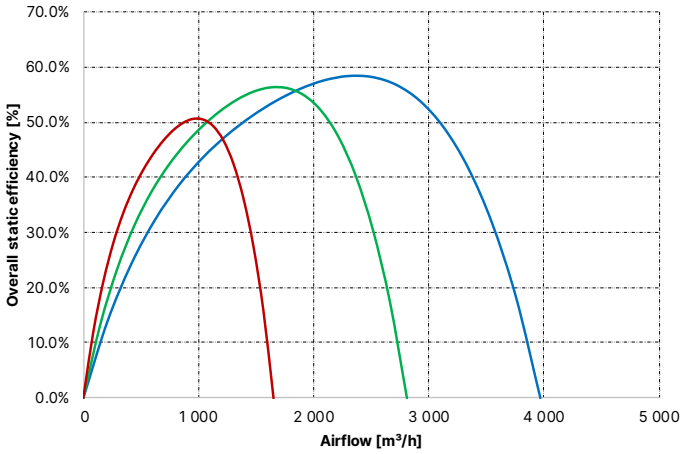
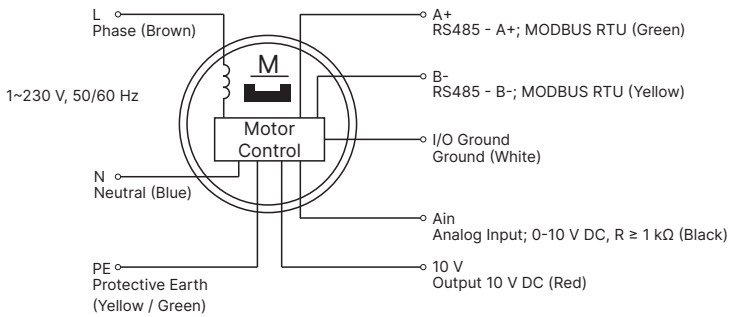


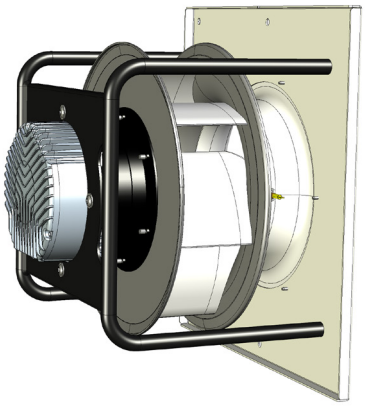
η_{es} = f(V)



Power supply and control connections



Apperance



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

General specification

Fan Set Model	SR-FS-A-315-1.5
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	3.0 A
Nominal Input Power	1.9 kW
Revolutions: Min / Nominal	325 ÷ 3250 RPM
CAV K-factor	92.1
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	15.1 kg
Installation position	Horizontal / Vertical shaft

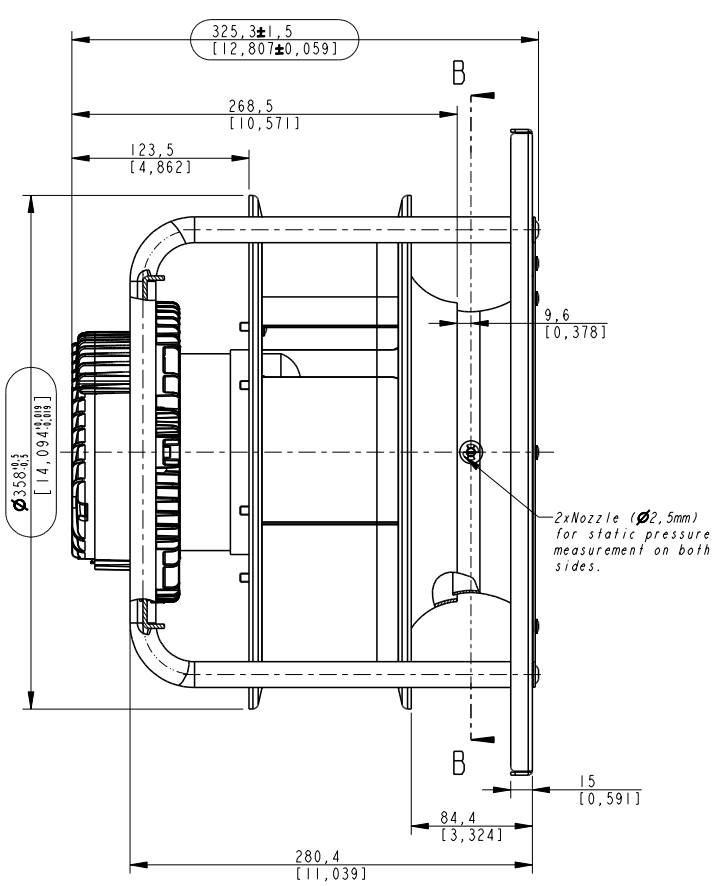
Motor

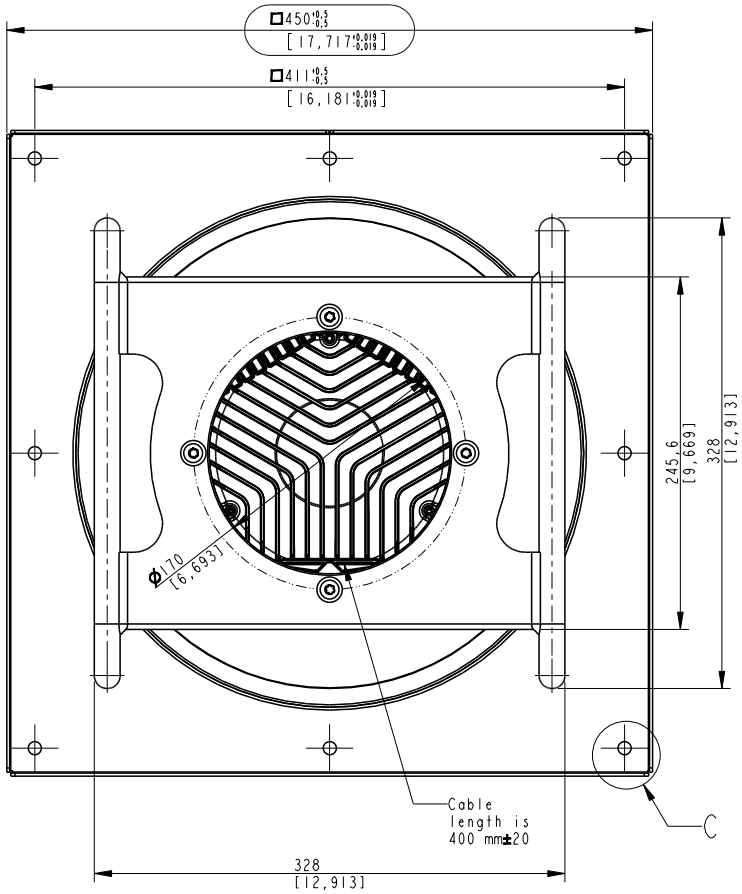
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	75 200 (40 °C) / 37 600 (max. work. temperature)

Impeller

Fan Impeller Size	315 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	67.6%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	71.3%
5	Variable speed drive	Yes
9	Power consumption Ped	1.69 kW
	Air flow qv	3 428 m³/h
	Pressure increase pfs	1 117.8
10	Speed (rpm) n	3 250
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-A-315-1.5 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).

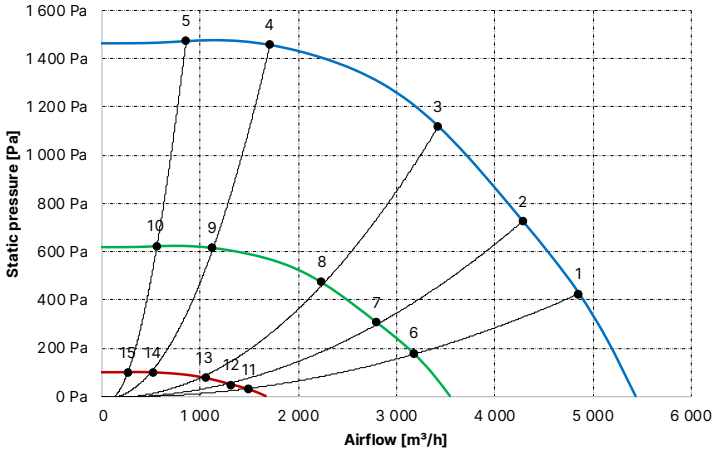
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	85

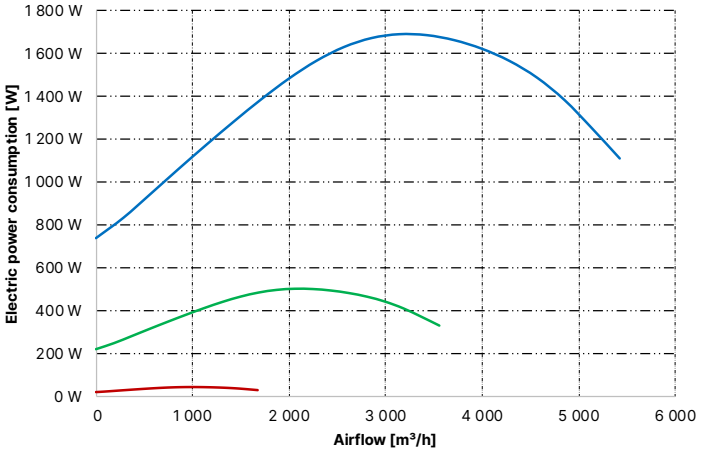
Measured Points

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	3 250	4 856	424	2.0	1.38	76.3	84.3	89.8	1.01
2	3 250	4 285	724	2.2	1.56	76.0	84.0	89.6	1.26
3	3 250	3 428	1 118	2.4	1.69	75.8	83.8	88.6	1.42
4	3 250	1 714	1 457	2.0	1.39	79.1	87.1	92.7	1.21
5	3 250	857	1 473	1.5	1.06	80.0	88.0	93.3	0.95
6	2 125	3 175	180	0.6	0.41	67.1	75.1	80.5	1.23
7	2 125	2 802	307	0.6	0.46	66.8	74.8	80.4	1.41
8	2 125	2 241	473	0.7	0.50	66.6	74.6	79.4	1.53
9	2 125	1 121	617	0.6	0.41	69.9	77.9	83.5	1.34
10	2 125	560	624	0.4	0.31	70.8	78.8	84.1	1.13
11	1 000	1 494	29	0.0	0.04	50.7	58.7	64.2	3.36
12	1 000	1 318	49	0.0	0.04	50.4	58.4	64.0	3.12
13	1 000	1 055	75	0.0	0.05	50.2	58.2	63.0	2.89
14	1 000	527	98	0.0	0.04	53.5	61.5	67.1	2.57
15	1 000	264	99	0.0	0.03	54.4	62.4	67.7	2.45

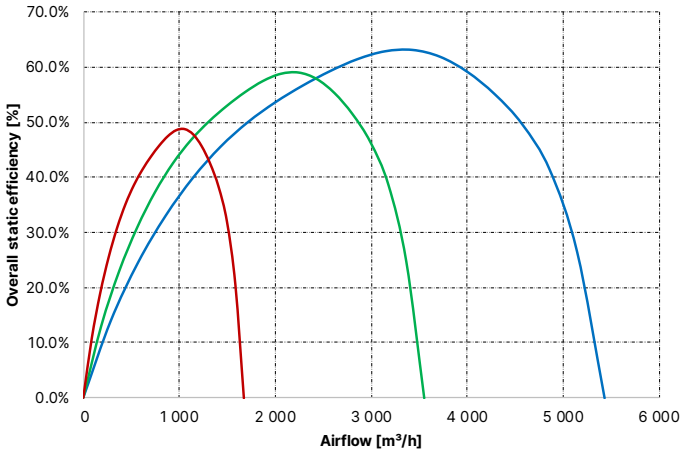
dP = f(V)



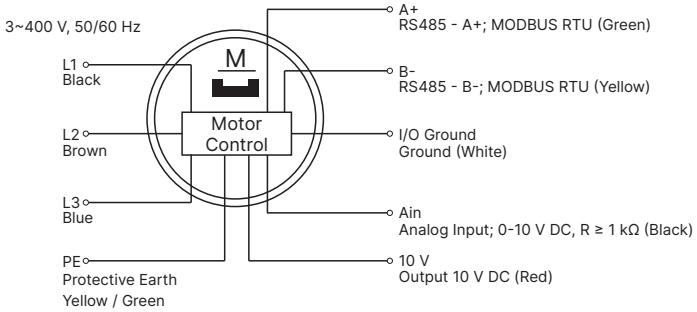
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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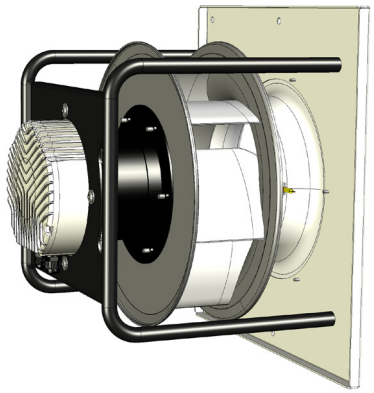
Apperance



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-A-315-2.5
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	4.0 A
Nominal Input Power	2.6 kW
Revolutions: Min / Nominal	370 ÷ 3700 RPM
CAV K-factor	96.5
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	16.1 kg
Installation position	Horizontal / Vertical shaft

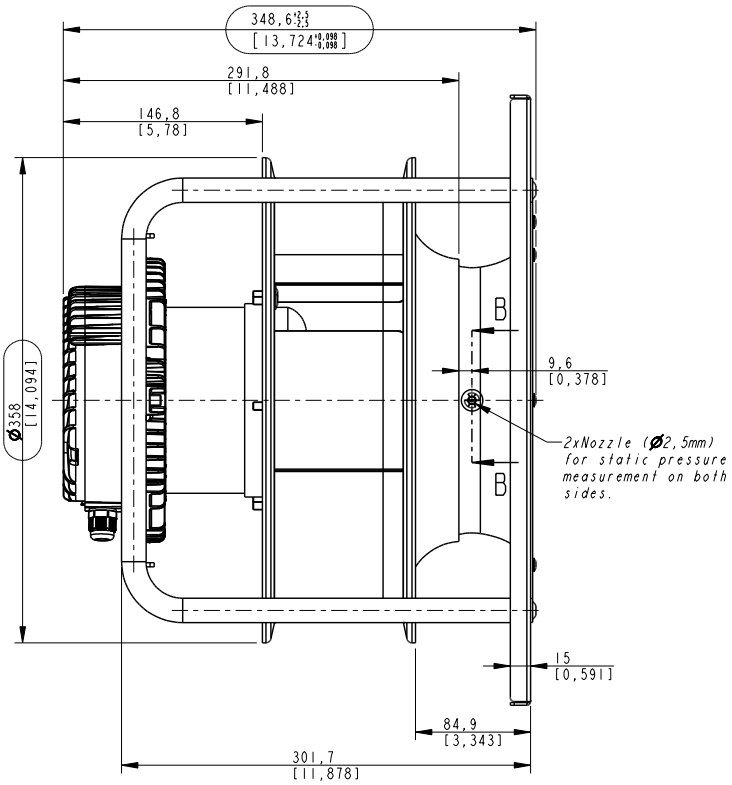
Motor

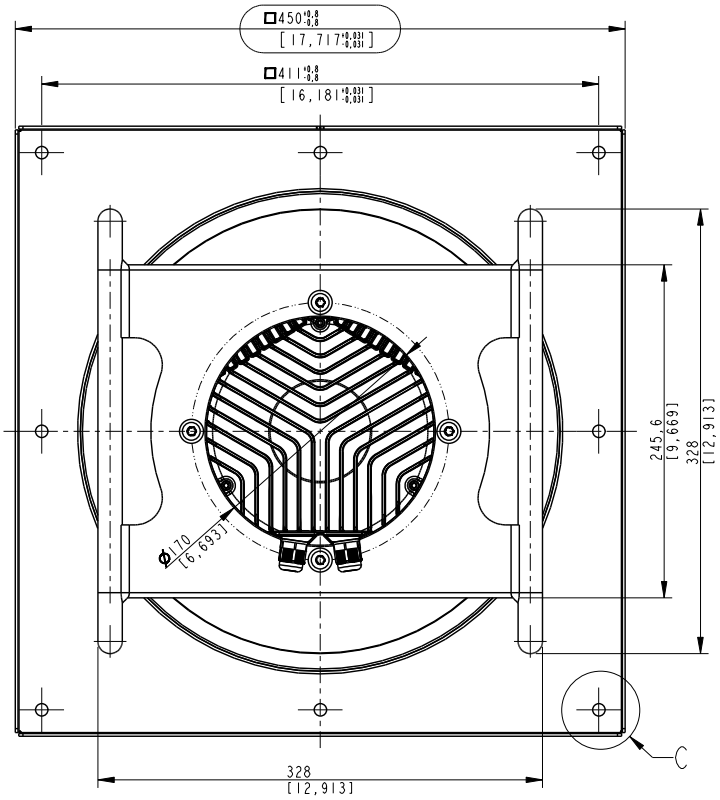
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	75 200 (40 °C) / 37 600 (max. work. temperature)

Impeller

Fan Impeller Size	315 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	67.1%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	69.9%
5	Variable speed drive	Yes
9	Power consumption Ped	2.33 kW
	Air flow qv	3 902 m³/h
	Pressure increase pfs	1 363.2
10	Speed (rpm) n	3 600
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-A-315-2.5 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).

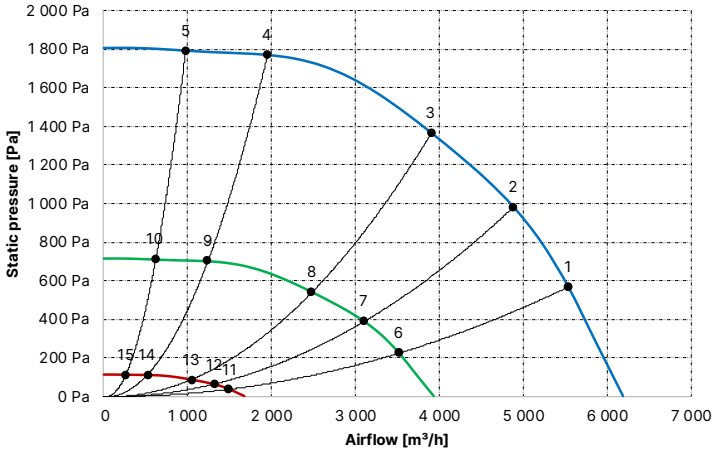
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	85

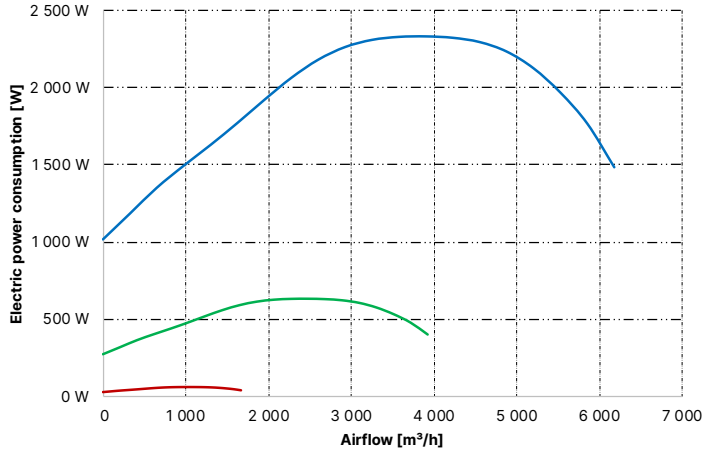
Measured Points

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	3 700	5 527	566	2.9	1.97	79.1	87.1	92.6	1.02
2	3 700	4 877	980	3.3	2.24	78.8	86.8	92.4	1.31
3	3 700	3 902	1 363	3.4	2.33	78.7	86.7	91.4	1.39
4	3 700	1 951	1 769	2.8	1.92	81.9	89.9	95.5	1.17
5	3 700	975	1 791	2.2	1.49	82.8	90.8	96.1	0.89
6	2 350	3 511	225	0.9	0.54	69.3	77.3	82.7	1.19
7	2 350	3 098	389	1.0	0.61	68.9	76.9	82.6	1.42
8	2 350	2 478	542	1.0	0.64	68.8	76.8	81.5	1.47
9	2 350	1 239	703	0.8	0.52	72.1	80.1	85.7	1.28
10	2 350	620	712	0.7	0.41	73.0	81.0	86.3	1.04
11	1 000	1 494	36	0.2	0.05	50.7	58.7	64.2	2.51
12	1 000	1 318	62	0.2	0.06	50.4	58.4	64.0	2.39
13	1 000	1 054	86	0.2	0.06	50.2	58.2	63.0	2.24
14	1 000	527	112	0.2	0.05	53.5	61.5	67.1	2.00
15	1 000	264	113	0.2	0.04	54.4	62.4	67.7	1.88

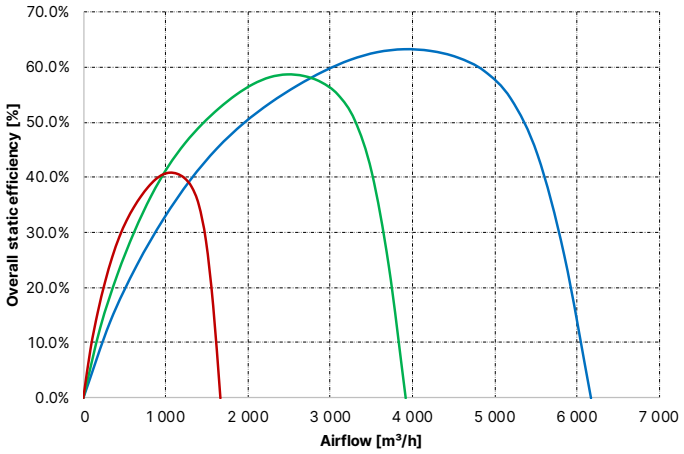
dP = f(V)



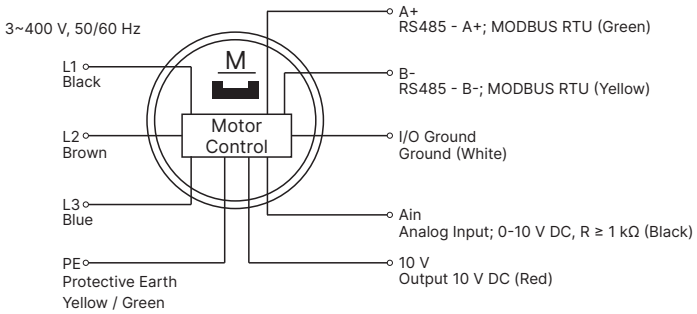
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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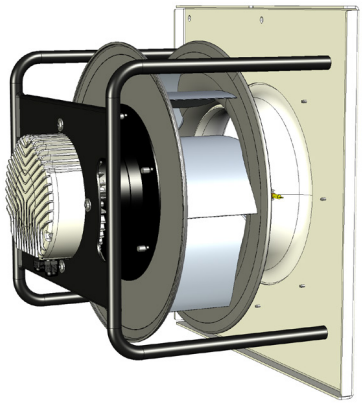
Apperance



Application

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

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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-A-355-1.6
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	2.7 A
Nominal Input Power	1.7 kW
Revolutions: Min / Nominal	300 ÷ 2650 RPM
CAV K-factor	128.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	20.3 kg
Installation position	Horizontal / Vertical shaft

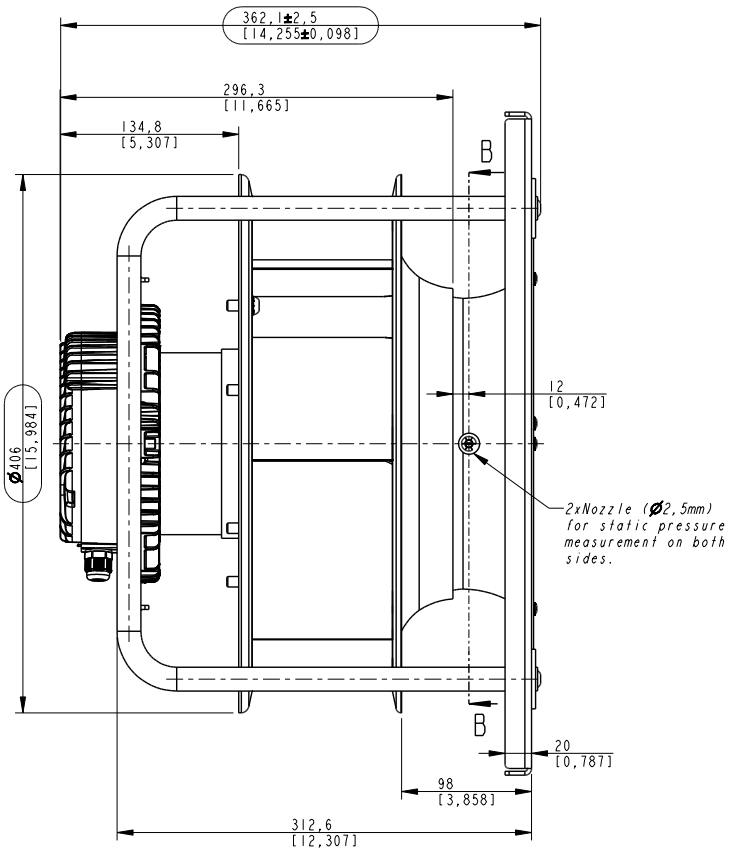
Motor

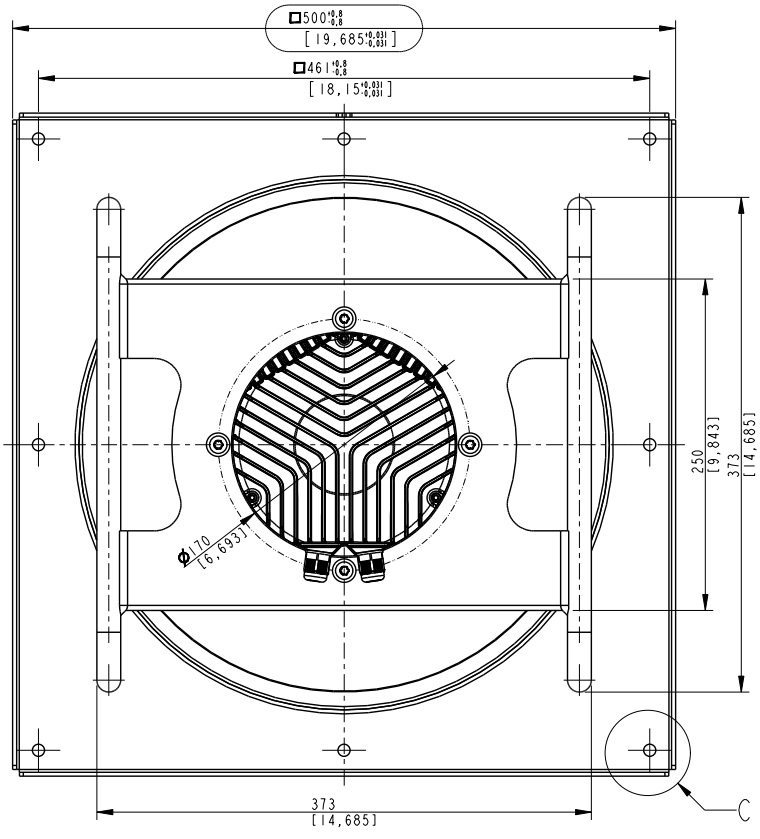
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	75 200 (40 °C) / 37 600 (max. work. temperature)

Impeller

Fan Impeller Size	355 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	70.0%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	73.6%
5	Variable speed drive	Yes
9	Power consumption Ped	1.65 kW
	Air flow qv	4 017 m³/h
	Pressure increase pfs	966.7
10	Speed (rpm) n	2 650
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-A-355-1.6 Fan Set

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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).

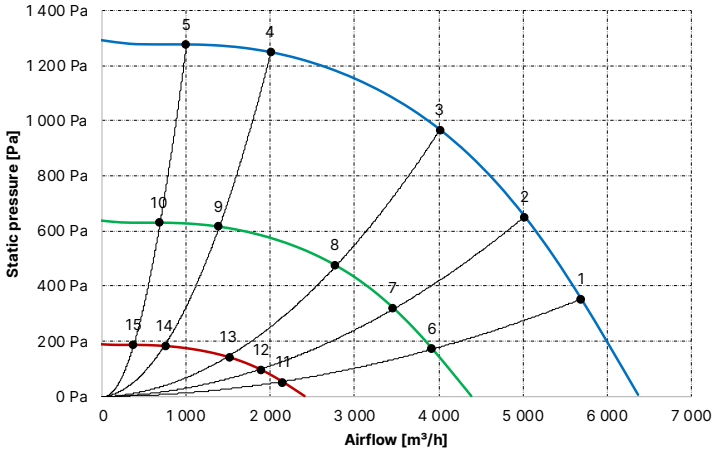
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	85

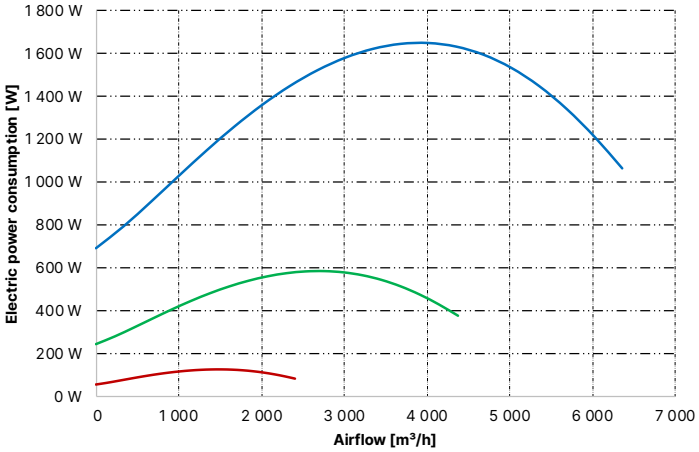
Measured Points

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	2 650	5 691	352	2.0	1.34	76.9	84.9	90.9	1.04
2	2 650	5 021	651	2.2	1.53	75.6	83.6	89.4	1.35
3	2 650	4 017	967	2.4	1.65	75.1	83.1	89.2	1.46
4	2 650	2 008	1 248	2.0	1.36	77.6	85.6	91.2	1.22
5	2 650	1 004	1 277	1.6	1.03	79.4	87.4	92.9	0.96
6	1 825	3 919	174	0.8	0.48	68.8	76.8	82.8	1.24
7	1 825	3 458	321	0.9	0.55	67.5	75.5	81.3	1.50
8	1 825	2 766	476	1.0	0.59	67.0	75.0	81.1	1.57
9	1 825	1 383	615	0.9	0.48	69.5	77.5	83.1	1.34
10	1 825	692	629	0.7	0.37	71.3	79.3	84.8	1.11
11	1 000	2 147	52	0.4	0.10	55.8	63.8	69.8	1.87
12	1 000	1 895	96	0.4	0.12	54.4	62.4	68.2	1.90
13	1 000	1 516	142	0.4	0.13	53.9	61.9	68.0	1.83
14	1 000	758	184	0.4	0.11	56.5	64.5	70.1	1.59
15	1 000	379	188	0.3	0.08	58.2	66.2	71.7	1.45

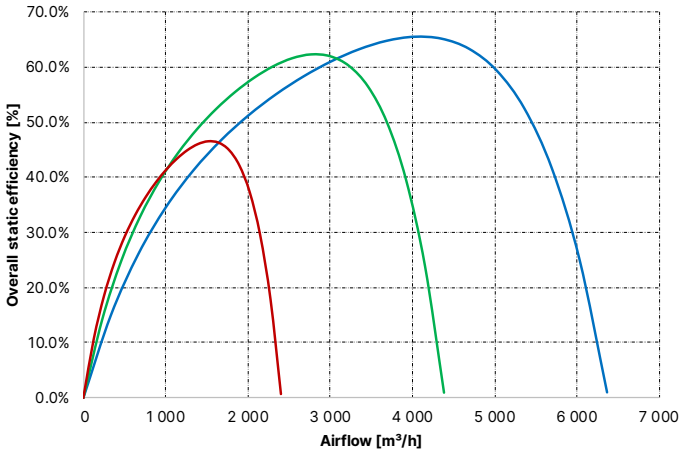
dP = f(V)



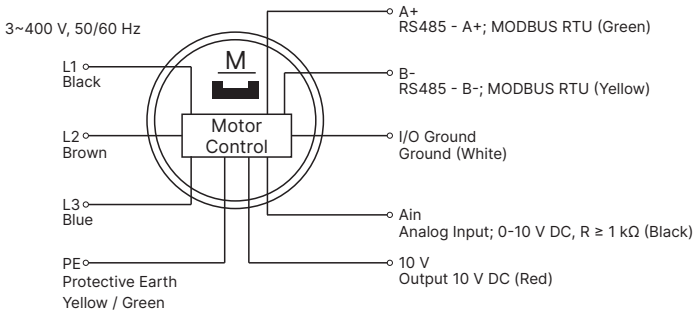
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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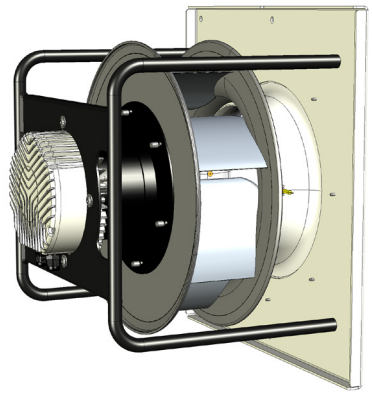
Apperance



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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-A-355-2.5
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	3.8 A
Nominal Input Power	2.6 kW
Revolutions: Min / Nominal	300 ÷ 3000 RPM
CAV K-factor	127.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	21.9 kg
Installation position	Horizontal / Vertical shaft

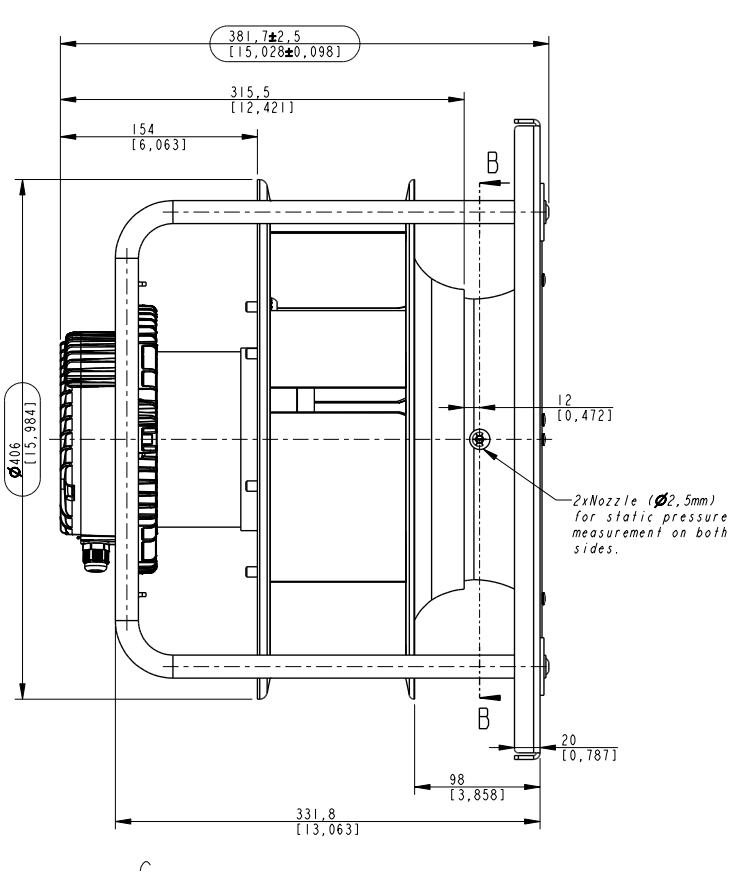
Motor

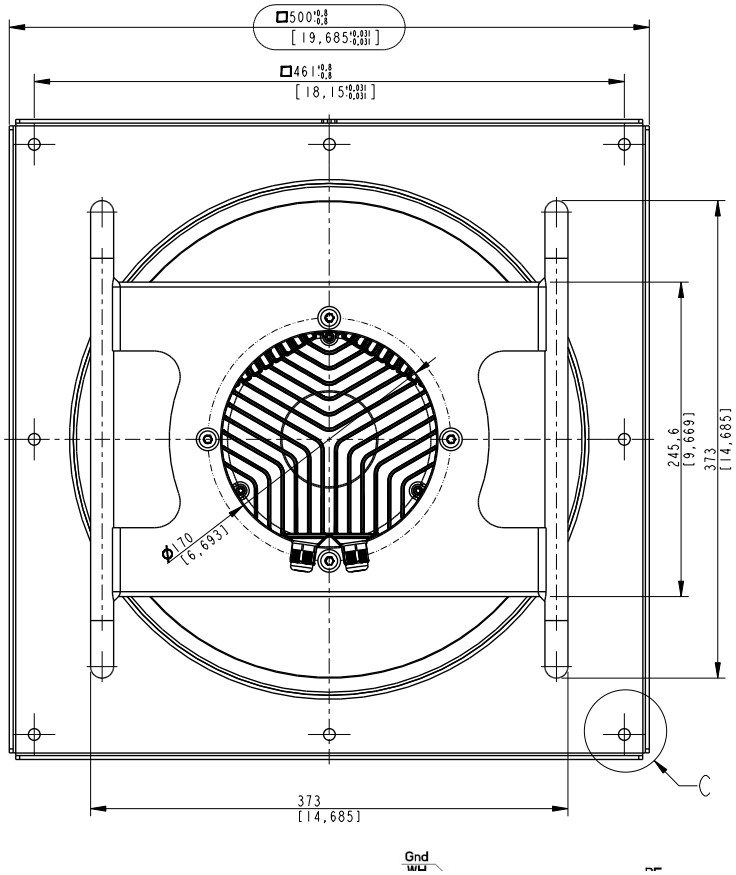
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	75 200 (40 °C) / 37 600 (max. work. temperature)

Impeller

Fan Impeller Size	355 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	69.9%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	72.2%
5	Variable speed drive	Yes
9	Power consumption Ped	2.50 kW
	Air flow qv	4 513 m³/h
	Pressure increase pfs	1 316.0
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
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AMCA Certification

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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).

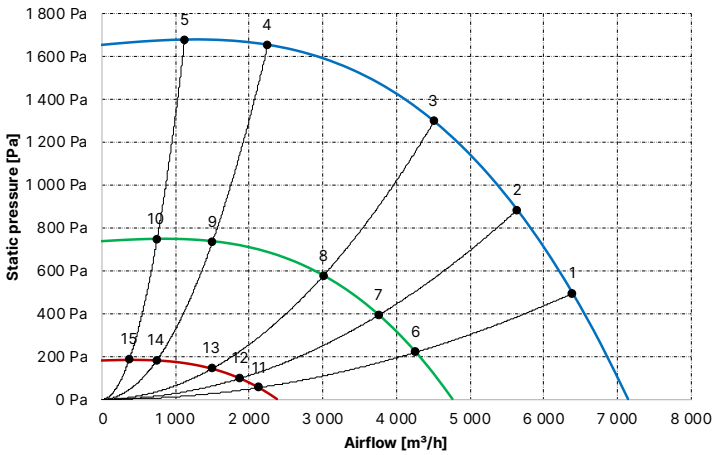
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	85

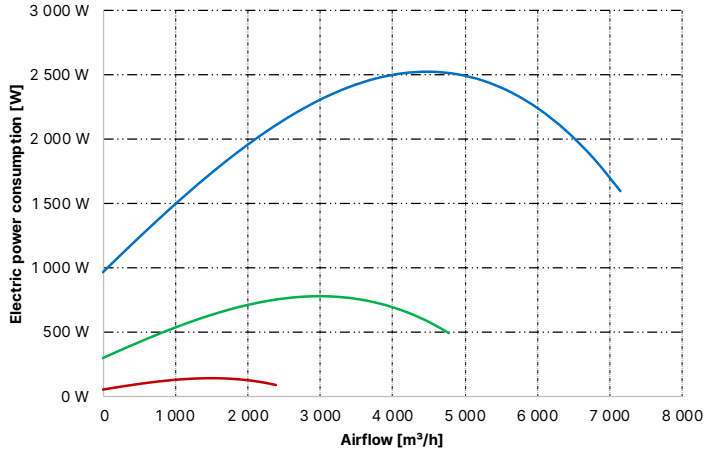
Measured Points

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	6 393	495	3.0	2.07	79.5	87.5	93.5	0.99
2	3 000	5 641	885	3.4	2.37	78.3	86.3	92.1	1.30
3	3 000	4 513	1 298	3.6	2.53	77.7	85.7	91.9	1.41
4	3 000	2 256	1 655	3.0	2.06	80.4	88.4	94.0	1.16
5	3 000	1 128	1 679	2.3	1.56	82.1	90.1	95.6	0.89
6	2 001	4 264	220	1.1	0.64	70.7	78.7	84.7	1.17
7	2 001	3 762	394	1.2	0.73	69.5	77.5	83.3	1.42
8	2 001	3 010	577	1.2	0.78	69.0	77.0	83.1	1.49
9	2 001	1 505	736	1.0	0.64	71.6	79.6	85.2	1.27
10	2 001	752	747	0.8	0.48	73.3	81.3	86.8	1.03
11	1 000	2 131	55	0.4	0.12	55.7	63.7	69.6	1.71
12	1 000	1 880	99	0.4	0.13	54.4	62.4	68.2	1.72
13	1 000	1 504	145	0.4	0.14	53.9	61.9	68.0	1.66
14	1 000	752	185	0.4	0.12	56.5	64.5	70.1	1.45
15	1 000	376	187	0.3	0.09	58.2	66.2	71.7	1.32

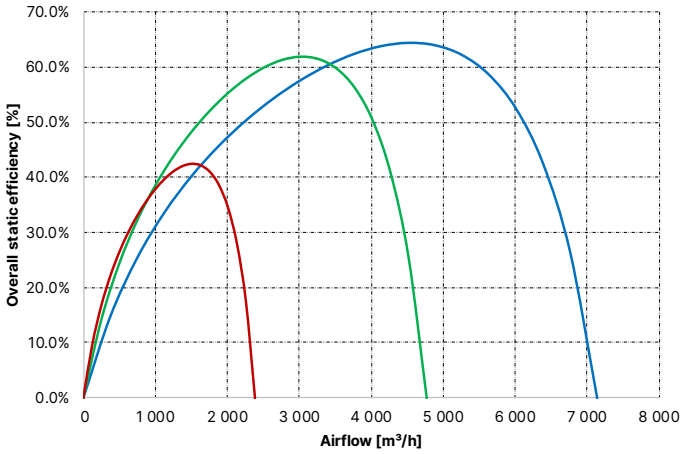
dP = f(V)



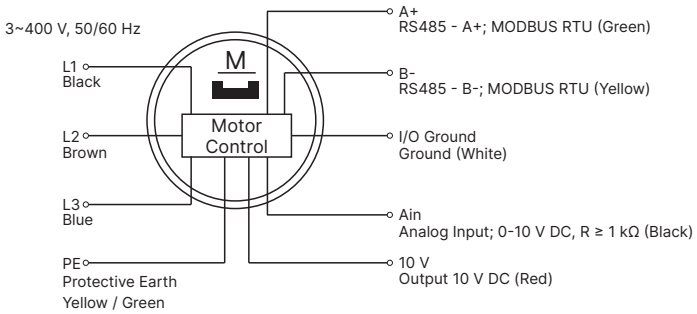
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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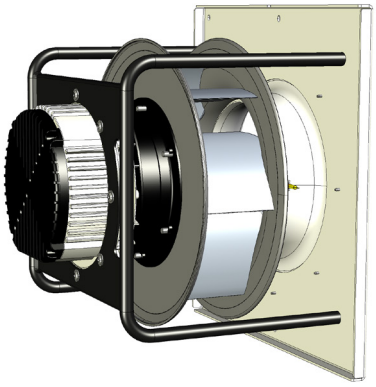
Apperance



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-A-355-3.7
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	5.8 A
Nominal Input Power	3.9 kW
Revolutions: Min / Nominal	340 ÷ 3400 RPM
CAV K-factor	127.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	30 kg
Installation position	Horizontal / Vertical shaft

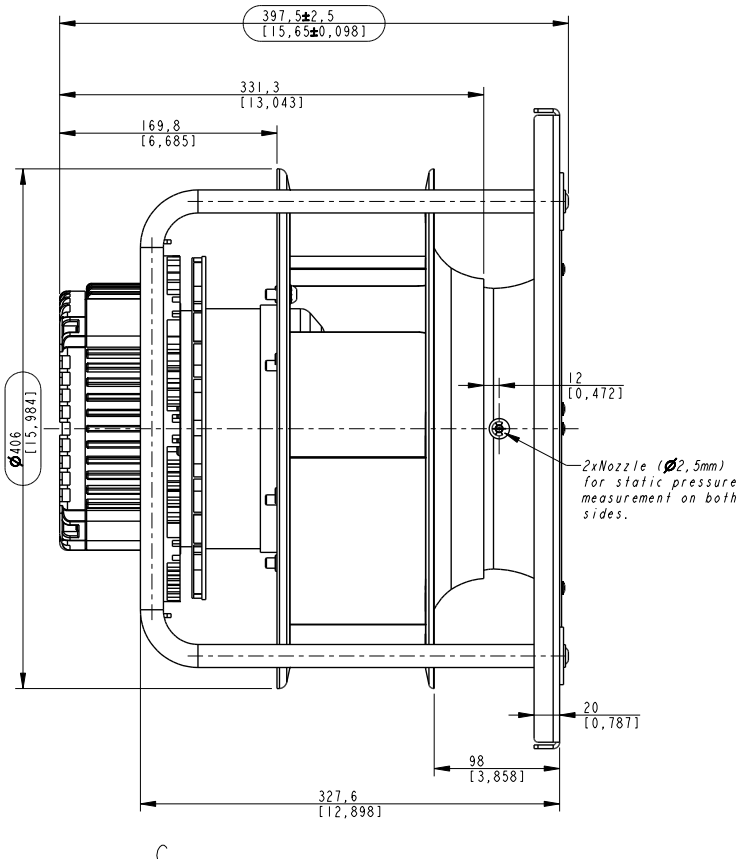
Motor

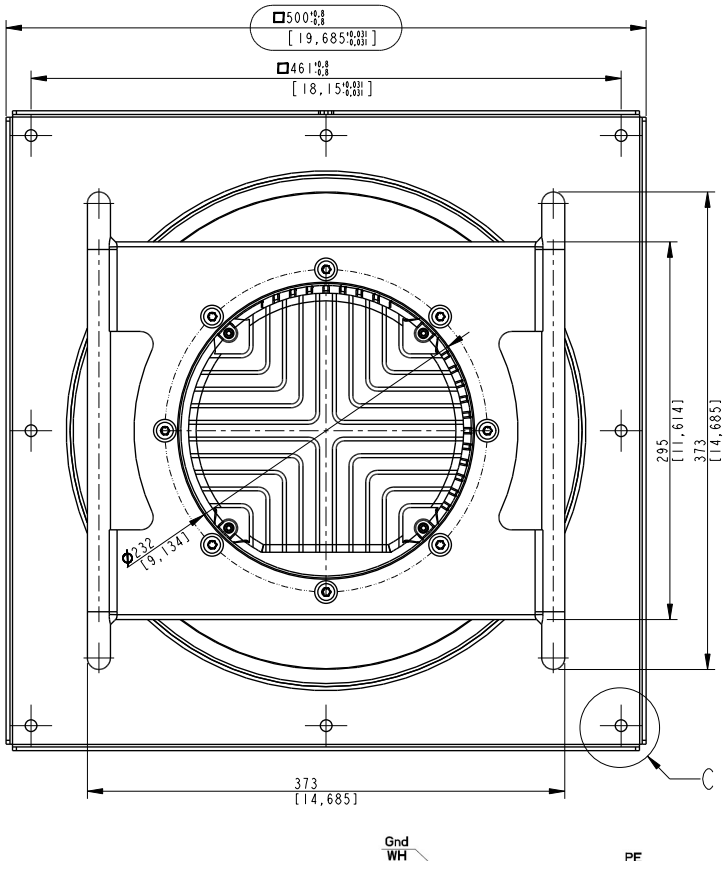
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	71 200 (40 °C) / 35 600 (max. work. temperature)

Impeller

Fan Impeller Size	355 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	66.9%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	68.4%
5	Variable speed drive	Yes
9	Power consumption Ped	3.57 kW
	Air flow qv	5 199 m³/h
	Pressure increase pfs	1 573.0
10	Speed (rpm) n	3 400
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-A-355-3.7 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).

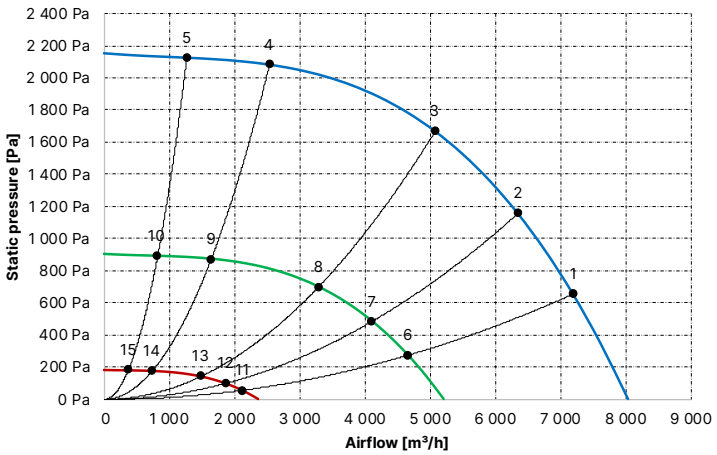
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	85

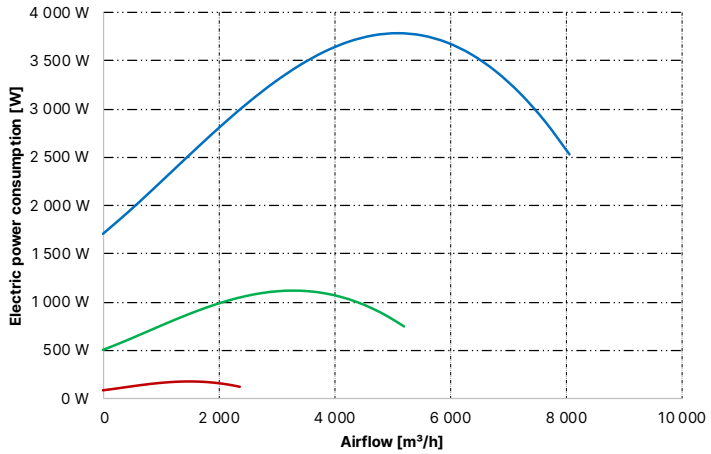
Measured Points

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	3 400	7 194	656	4.5	3.16	82.2	90.2	96.1	0.93
2	3 400	6 347	1 157	5.1	3.57	81.0	89.0	94.8	1.24
3	3 400	5 078	1 669	5.4	3.79	80.4	88.4	94.6	1.35
4	3 400	2 539	2 083	4.4	3.08	83.1	91.1	96.7	1.08
5	3 400	1 269	2 126	3.5	2.40	84.8	92.8	98.3	0.80
6	2 200	4 655	274	1.6	0.93	72.7	80.7	86.7	1.02
7	2 200	4 107	485	1.7	1.05	71.5	79.5	85.3	1.26
8	2 200	3 286	699	1.8	1.12	71.0	79.0	85.1	1.33
9	2 200	1 643	872	1.5	0.91	73.7	81.7	87.3	1.10
10	2 200	821	890	1.3	0.71	75.3	83.3	88.8	0.87
11	1 000	2 116	57	0.5	0.15	55.6	63.6	69.5	1.35
12	1 000	1 867	100	0.6	0.17	54.4	62.4	68.2	1.37
13	1 000	1 493	144	0.6	0.18	53.9	61.9	68.0	1.32
14	1 000	747	180	0.5	0.14	56.5	64.5	70.1	1.14
15	1 000	373	184	0.5	0.11	58.2	66.2	71.7	1.02

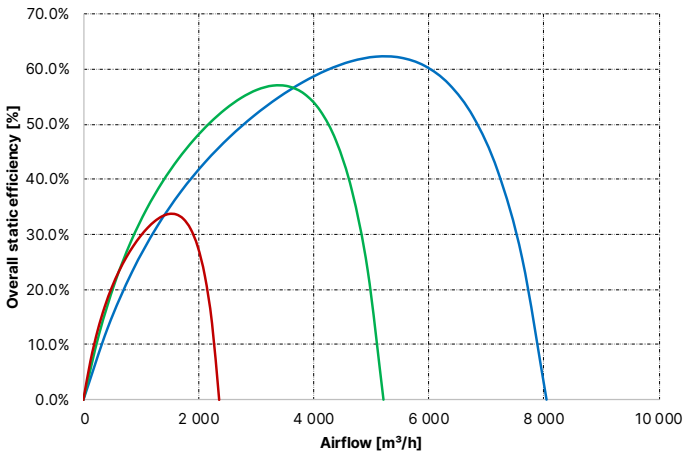
dP = f(V)



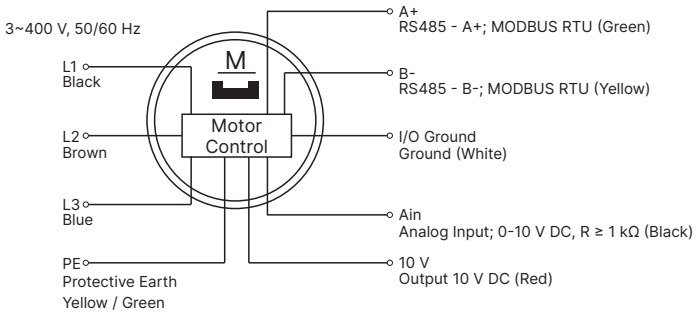
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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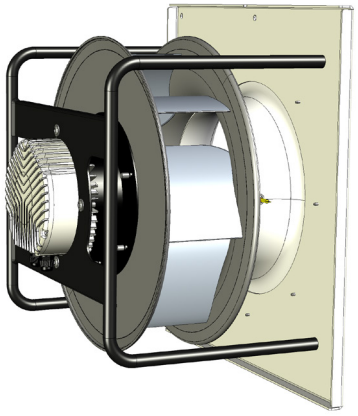
Apperance



Application

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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-A-400-1.6
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	2.9 A
Nominal Input Power	2.0 kW
Revolutions: Min / Nominal	300 ÷ 2250 RPM
CAV K-factor	165.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	24 kg
Installation position	Horizontal / Vertical shaft

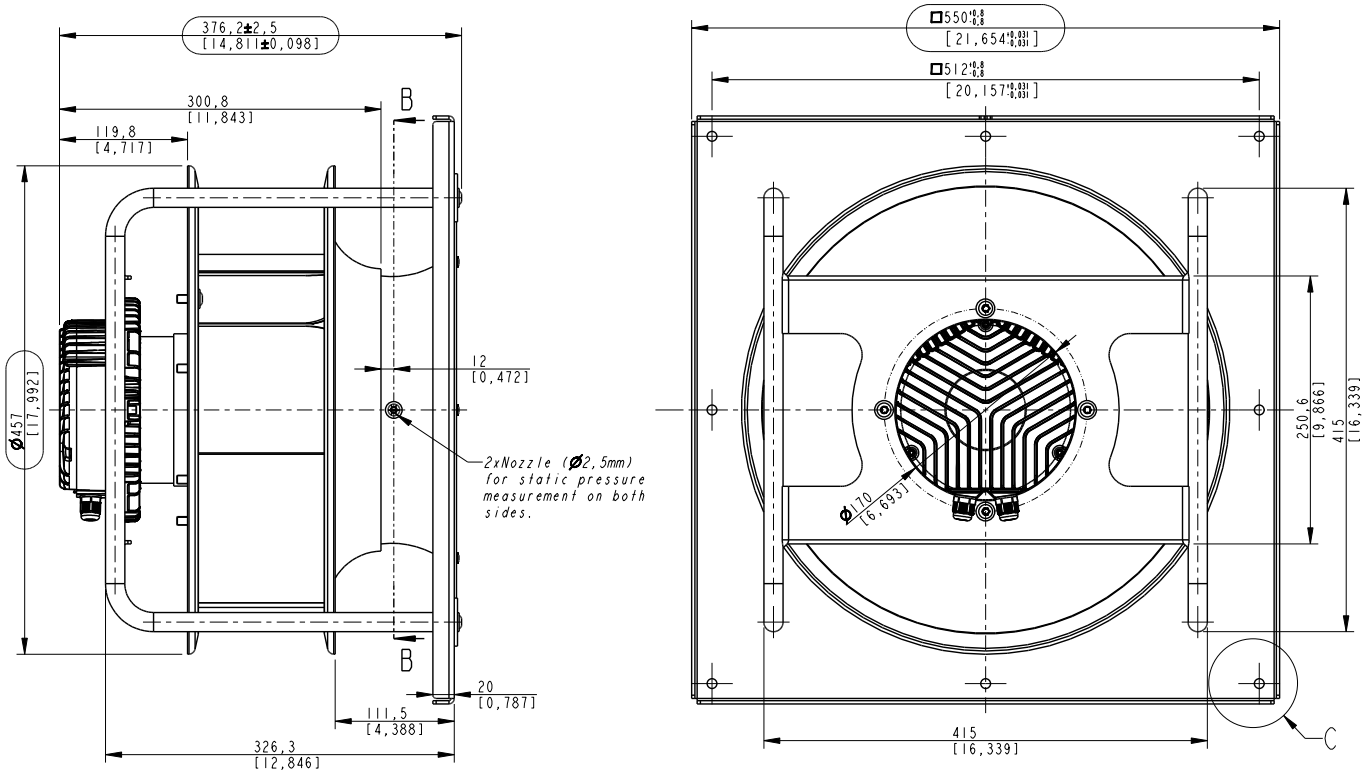
Motor

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}	75 200 (40 °C) / 37 600 (max. work. temperature)

Impeller

Fan Impeller Size	400 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	70.7%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	73.7%
5	Variable speed drive	Yes
9	Power consumption Ped	1.89 kW
	Air flow qv	4 876 m³/h
	Pressure increase pfs	920.3
10	Speed (rpm) n	2 250
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-A-400-1.6 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).

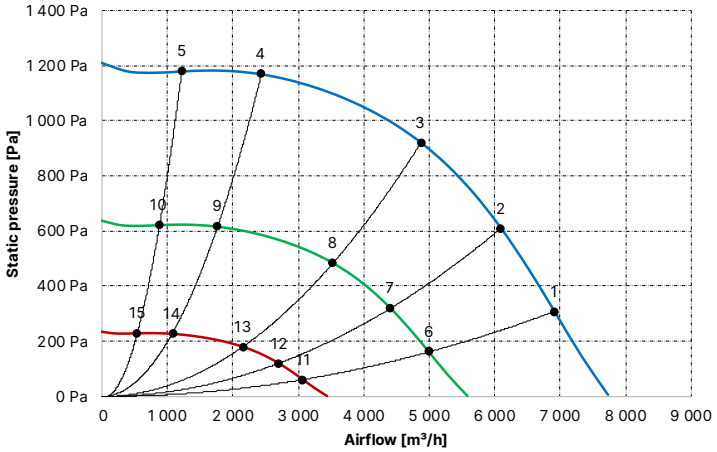
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

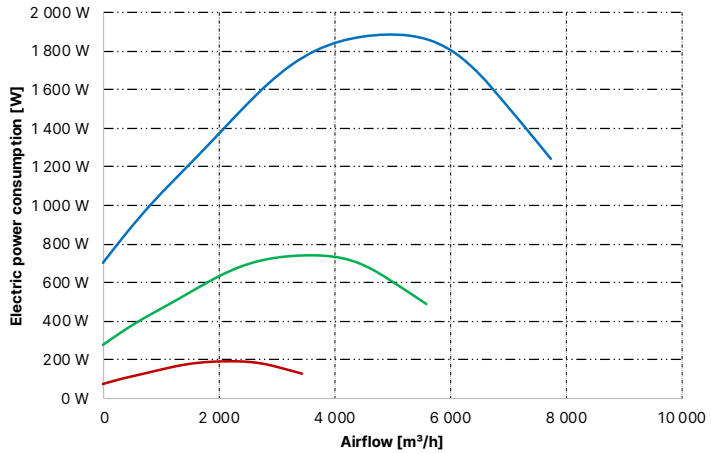
Measured Points

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	2 250	6 907	308	2.3	1.54	80.2	88.2	91.5	0.98
2	2 250	6 095	609	2.6	1.78	76.9	84.9	89.1	1.32
3	2 250	4 876	920	2.7	1.89	74.2	82.2	87.5	1.47
4	2 250	2 438	1 169	2.2	1.51	76.6	84.6	90.0	1.22
5	2 250	1 219	1 179	1.7	1.13	78.2	86.2	91.8	0.93
6	1 626	4 992	162	1.0	0.61	73.2	81.2	84.5	1.17
7	1 626	4 404	322	1.2	0.70	69.9	77.9	82.0	1.45
8	1 626	3 524	486	1.2	0.74	67.1	75.1	80.4	1.56
9	1 626	1 762	617	1.0	0.60	69.6	77.6	83.0	1.32
10	1 626	881	623	0.8	0.45	71.1	79.1	84.8	1.06
11	1 000	3 070	60	0.4	0.16	62.6	70.6	73.9	1.76
12	1 000	2 709	119	0.5	0.18	59.3	67.3	71.4	1.85
13	1 000	2 167	179	0.5	0.20	56.6	64.6	69.8	1.85
14	1 000	1 084	228	0.4	0.16	59.0	67.0	72.4	1.58
15	1 000	542	230	0.4	0.12	60.6	68.6	74.2	1.37

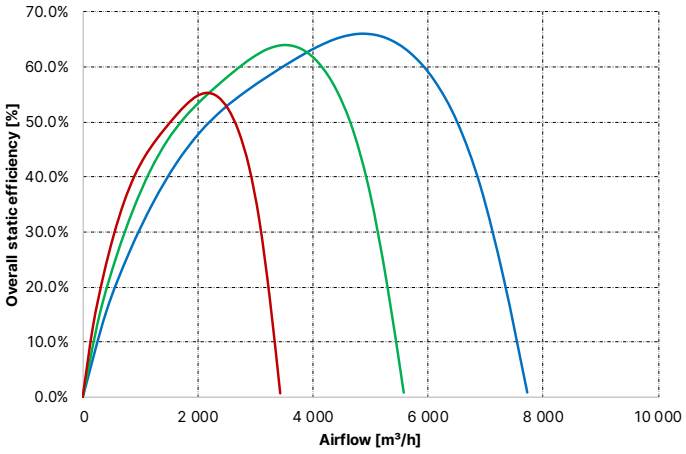
dP = f(V)



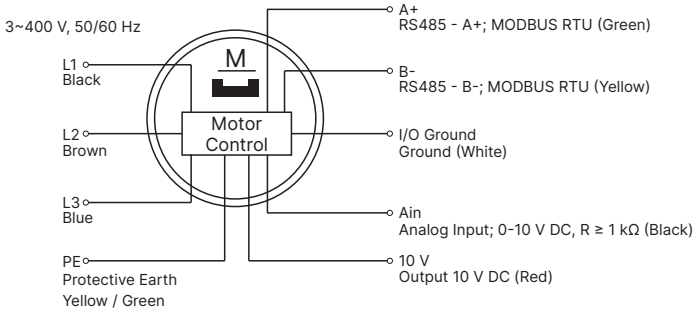
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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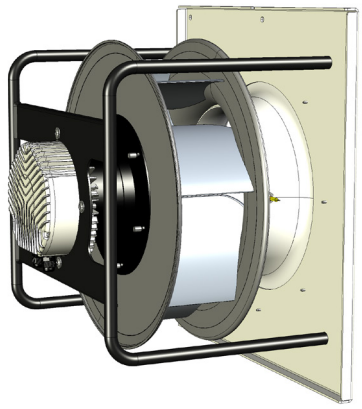
Apperance



Application

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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-A-400-2.5
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	3.5 A
Nominal Input Power	2.3 kW
Revolutions: Min / Nominal	300 ÷ 2400 RPM
CAV K-factor	167.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	26 kg
Installation position	Horizontal / Vertical shaft

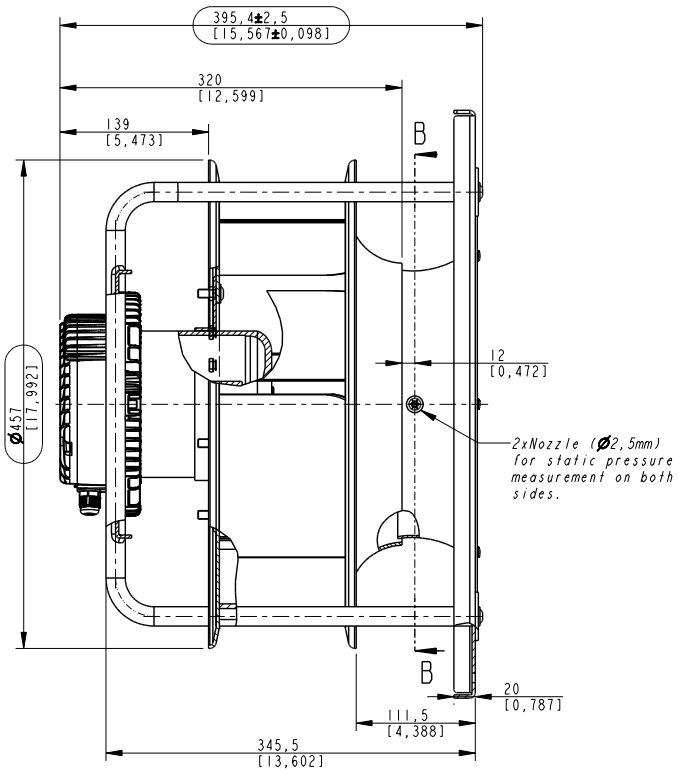
Motor

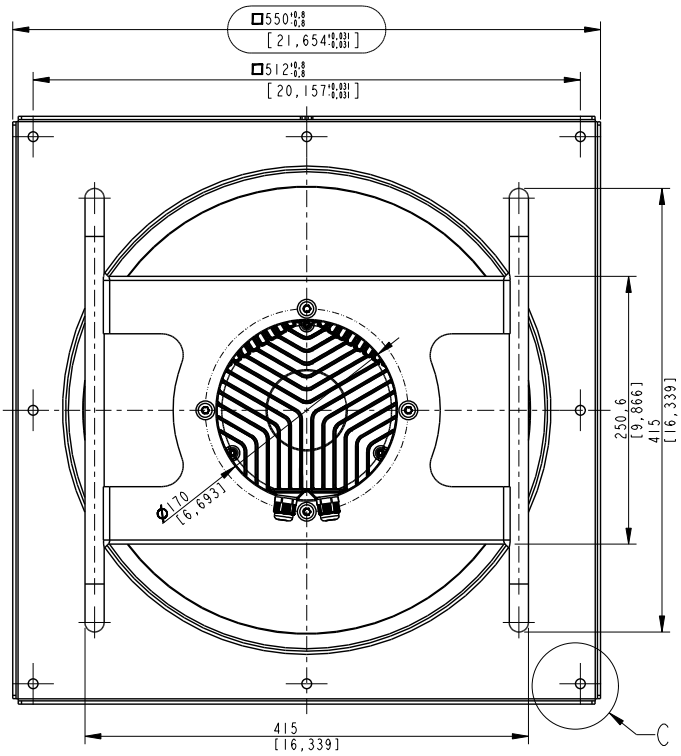
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	75 200 (40 °C) / 37 600 (max. work. temperature)

Impeller

Fan Impeller Size	400 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	68.4%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	71.0%
5	Variable speed drive	Yes
9	Power consumption Ped	2.41 kW
	Air flow qv	6 366 m³/h
	Pressure increase pfs	878.7
10	Speed (rpm) n	2 000
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-A-400-2.5 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).

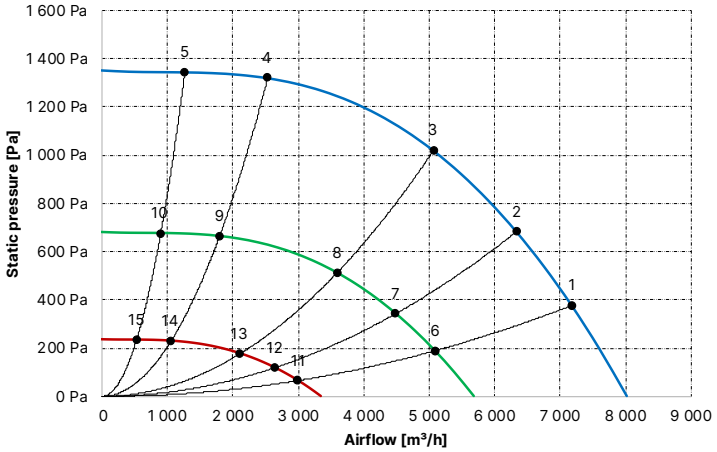
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

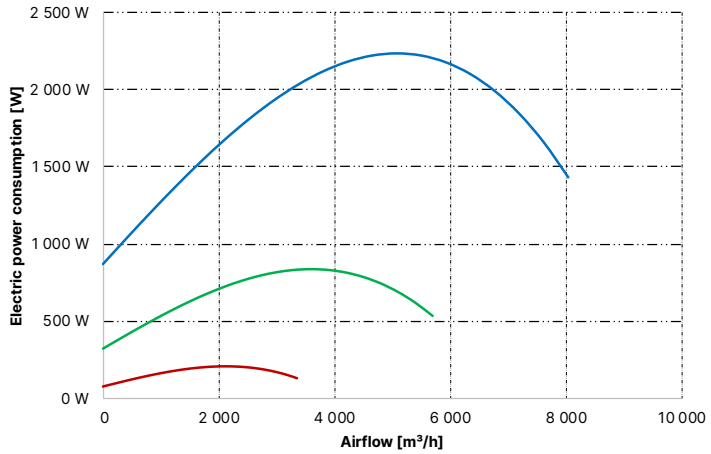
Measured Points

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	2 400	7 180	378	2.7	1.84	80.8	88.8	92.3	1.00
2	2 400	6 336	684	3.1	2.10	78.0	86.0	90.3	1.29
3	2 400	5 068	1 021	3.2	2.24	75.3	83.3	88.7	1.41
4	2 400	2 534	1 322	2.7	1.81	78.2	86.2	91.6	1.18
5	2 400	1 267	1 346	2.1	1.38	79.6	87.6	93.3	0.89
6	1 701	5 089	190	1.1	0.69	73.4	81.4	84.8	1.16
7	1 701	4 490	344	1.3	0.79	70.6	78.6	82.8	1.39
8	1 701	3 592	513	1.3	0.84	67.8	75.8	81.2	1.48
9	1 701	1 796	664	1.1	0.68	70.7	78.7	84.1	1.25
10	1 701	898	676	0.9	0.51	72.1	80.1	85.8	1.00
11	1 000	2 992	66	0.4	0.17	61.8	69.8	73.3	1.67
12	1 000	2 640	119	0.5	0.19	59.0	67.0	71.2	1.74
13	1 000	2 112	177	0.5	0.21	56.3	64.3	69.7	1.71
14	1 000	1 056	230	0.4	0.17	59.2	67.2	72.5	1.47
15	1 000	528	234	0.4	0.13	60.6	68.6	74.3	1.26

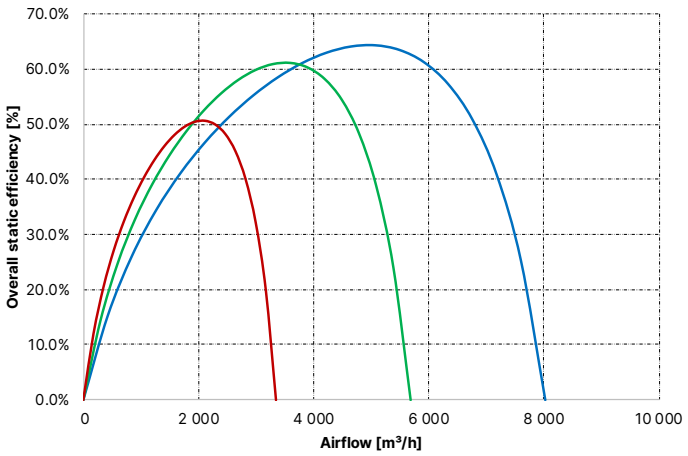
dP = f(V)



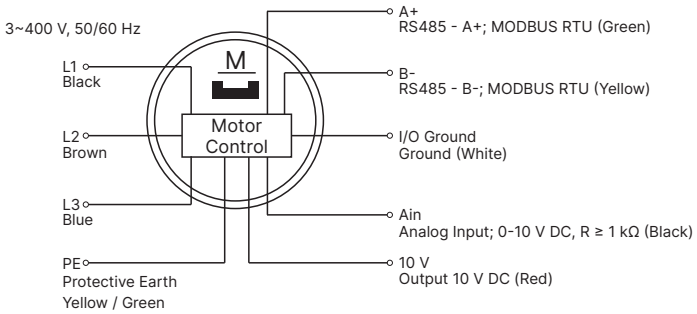
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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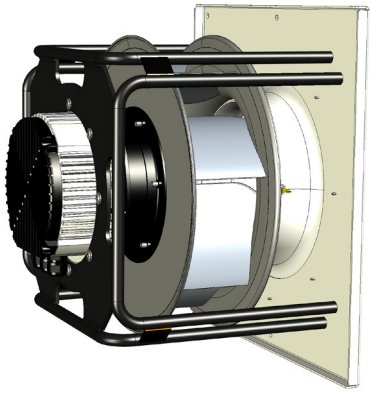
Apperance



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-A-400-3.7
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	5.7 A
Nominal Input Power	3.9 kW
Revolutions: Min / Nominal	300 ÷ 2850 RPM
CAV K-factor	163.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	38.2 kg
Installation position	Horizontal / Vertical shaft

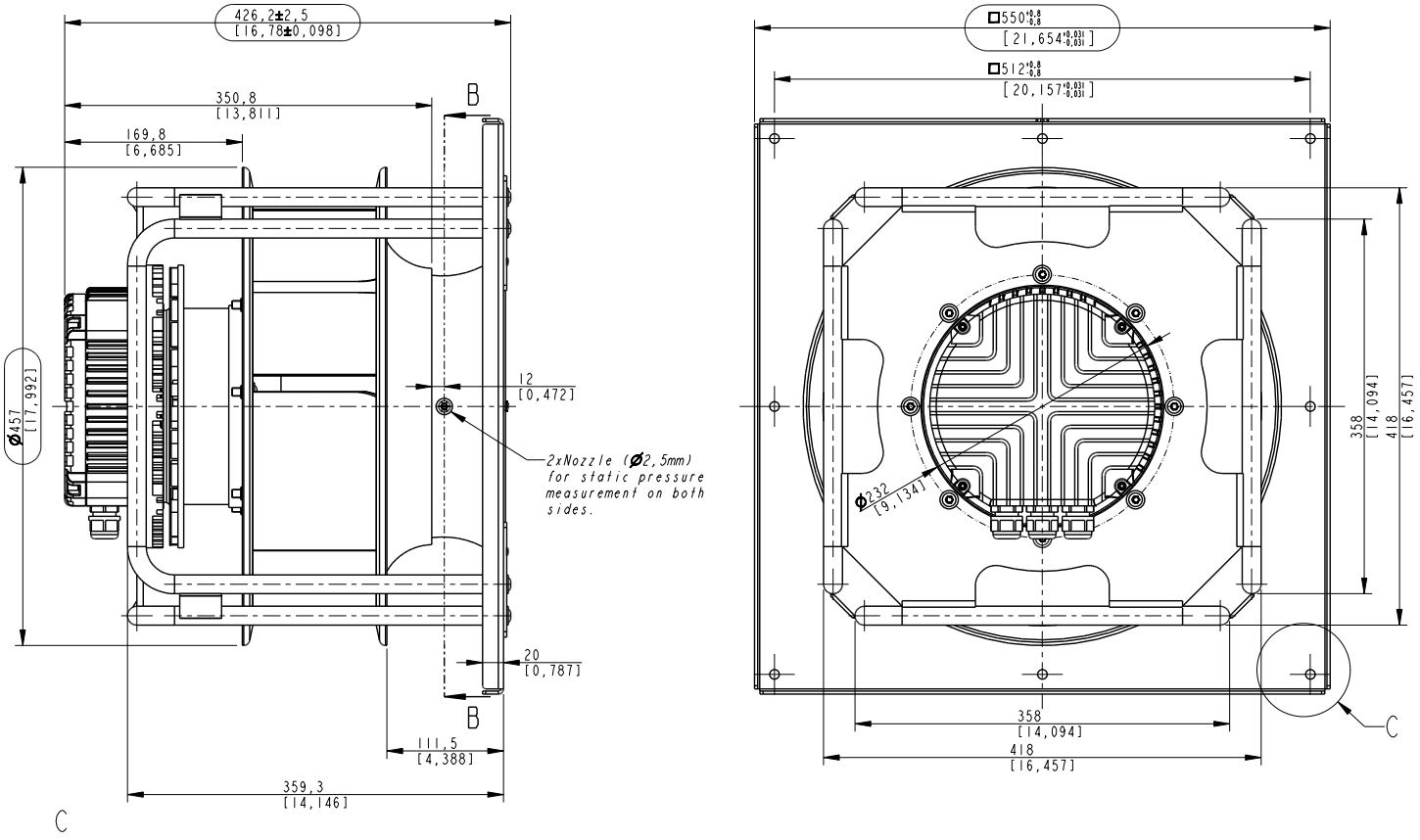
Motor

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}	71 200 (40 °C) / 35 600 (max. work. temperature)

Impeller

Fan Impeller Size	400 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	66.7%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	67.9%
5	Variable speed drive	Yes
9	Power consumption Ped	3.83 kW
	Air flow qv	5 836 m³/h
	Pressure increase pfs	1 499.2
10	Speed (rpm) n	2 850
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-A-400-3.7 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).

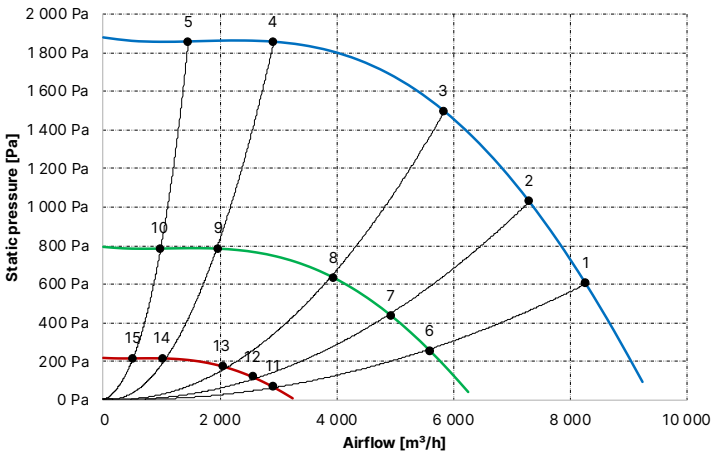
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

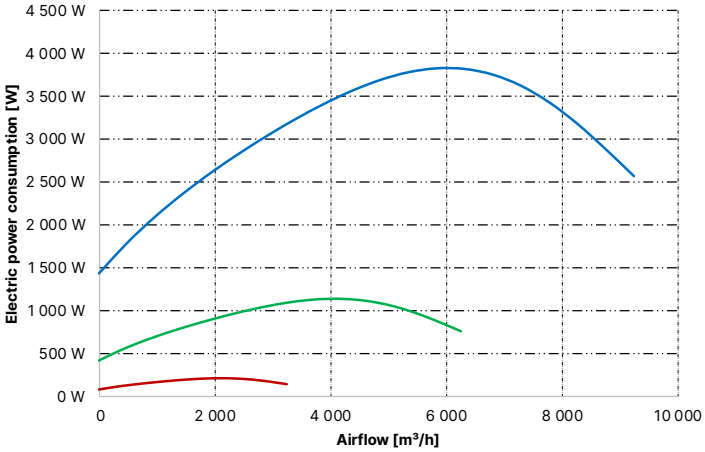
Measured Points

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	2 850	8 267	604	4.5	3.18	83.7	91.7	95.4	0.99
2	2 850	7 295	1 031	5.1	3.62	81.4	89.4	93.8	1.26
3	2 850	5 836	1 499	5.4	3.83	78.8	86.8	92.3	1.37
4	2 850	2 918	1 857	4.4	3.05	82.0	90.0	95.4	1.11
5	2 850	1 459	1 858	3.5	2.37	83.3	91.3	97.0	0.79
6	1 926	5 587	256	1.6	0.94	75.1	83.1	86.9	1.14
7	1 926	4 930	437	1.8	1.07	72.9	80.9	85.2	1.35
8	1 926	3 944	635	1.8	1.13	70.3	78.3	83.8	1.43
9	1 926	1 972	786	1.5	0.90	73.5	81.5	86.9	1.18
10	1 926	986	787	1.3	0.70	74.8	82.8	88.5	0.89
11	1 000	2 901	71	0.6	0.18	60.9	68.9	72.6	1.60
12	1 000	2 560	120	0.6	0.20	58.7	66.7	71.0	1.62
13	1 000	2 048	175	0.6	0.21	56.1	64.1	69.6	1.59
14	1 000	1 024	217	0.6	0.17	59.3	67.3	72.7	1.35
15	1 000	512	217	0.5	0.13	60.6	68.6	74.3	1.13

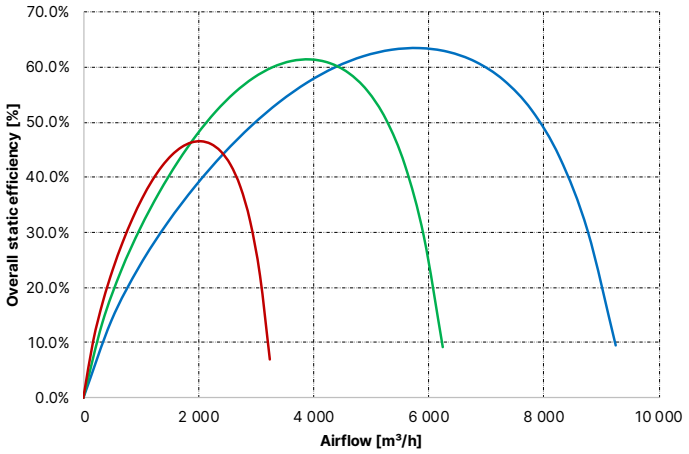
dP = f(V)



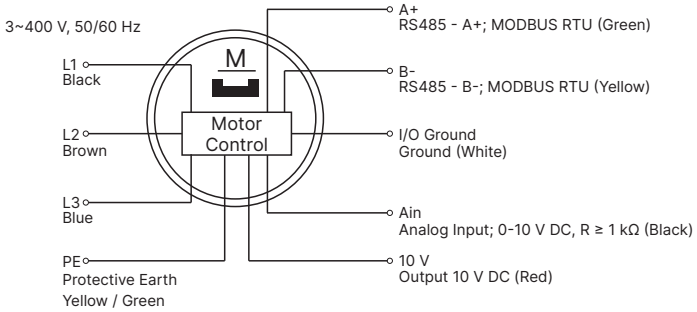
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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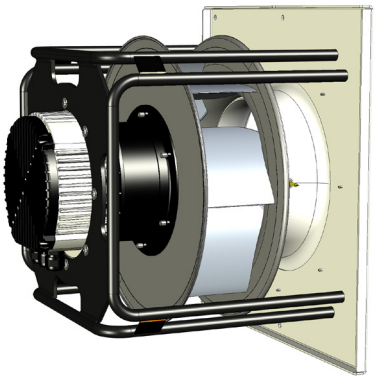
Apperance



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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-A-400-5.4
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	8.4 A
Nominal Input Power	5.8 kW
Revolutions: Min / Nominal	325 ÷ 3250 RPM
CAV K-factor	170.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	38.7 kg
Installation position	Horizontal / Vertical shaft

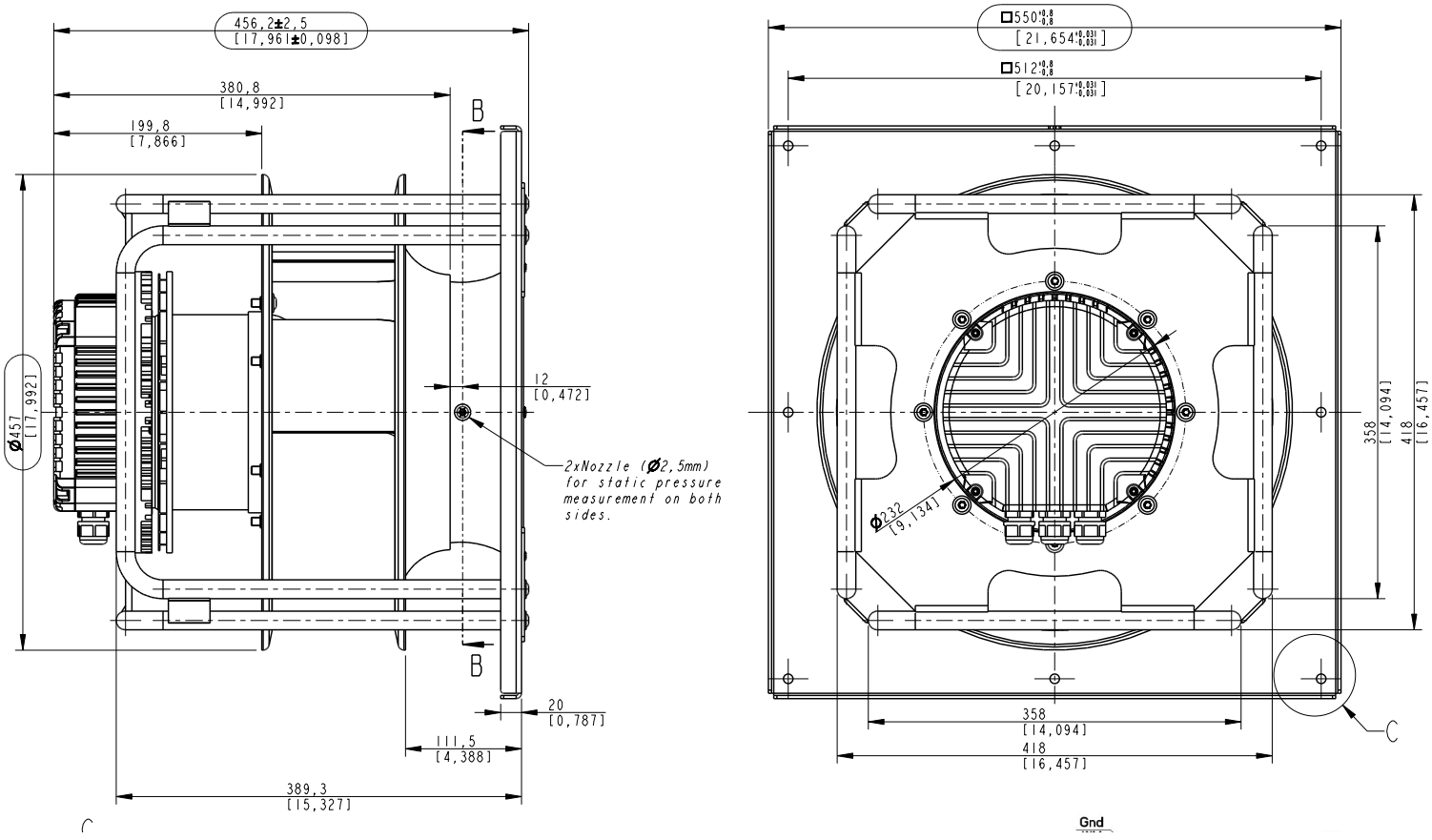
Motor

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}	71 200 (40 °C) / 35 600 (max. work. temperature)

Impeller

Fan Impeller Size	400 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	66.7%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	66.7%
5	Variable speed drive	Yes
9	Power consumption Ped	5.65 kW
	Air flow qv	6 802 m³/h
	Pressure increase pfs	1 915.7
10	Speed (rpm) n	3 250
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-A-400-5.4 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).

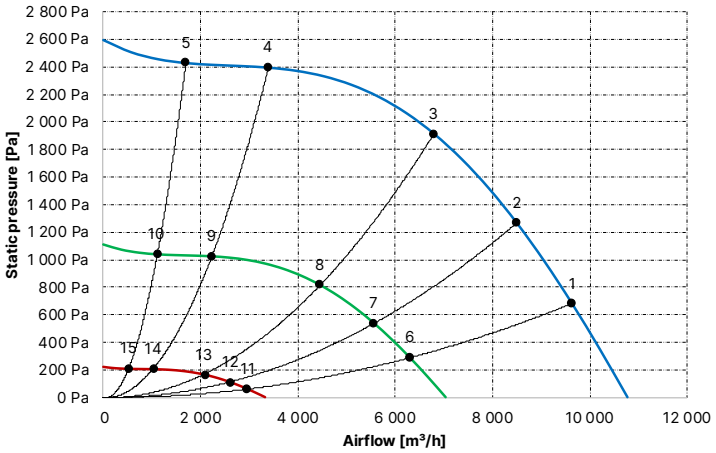
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

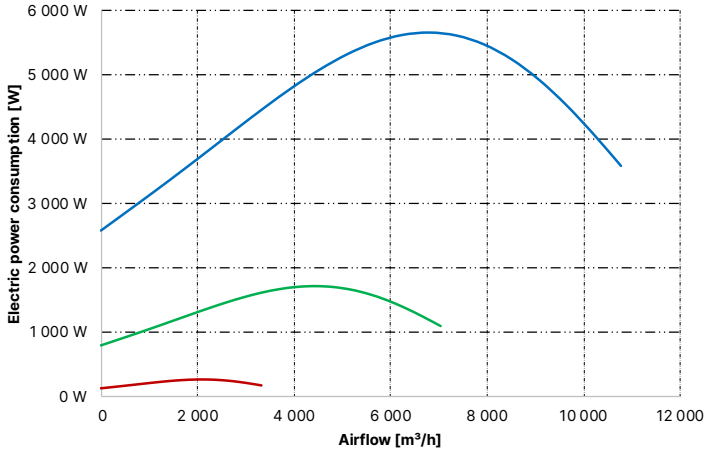
Measured Points

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	3 250	9 636	683	6.4	4.53	87.1	95.1	98.7	0.90
2	3 250	8 503	1 268	7.4	5.24	84.5	92.5	96.8	1.24
3	3 250	6 802	1 916	8.0	5.65	81.8	89.8	95.2	1.39
4	3 250	3 401	2 398	6.4	4.50	84.8	92.8	98.2	1.11
5	3 250	1 701	2 431	5.1	3.52	86.2	94.2	99.9	0.78
6	2 125	6 301	292	2.2	1.38	77.9	85.9	89.5	0.96
7	2 125	5 559	542	2.5	1.59	75.3	83.3	87.5	1.22
8	2 125	4 448	819	2.6	1.72	72.5	80.5	86.0	1.32
9	2 125	2 224	1 025	2.2	1.37	75.6	83.6	89.0	1.10
10	2 125	1 112	1 039	1.8	1.07	77.0	85.0	90.6	0.82
11	1 000	2 965	59	0.6	0.22	61.6	69.6	73.1	1.25
12	1 000	2 616	110	0.6	0.25	58.9	66.9	71.2	1.28
13	1 000	2 093	167	0.7	0.27	56.2	64.2	69.6	1.24
14	1 000	1 046	209	0.6	0.22	59.2	67.2	72.6	1.06
15	1 000	523	212	0.5	0.17	60.6	68.6	74.3	0.88

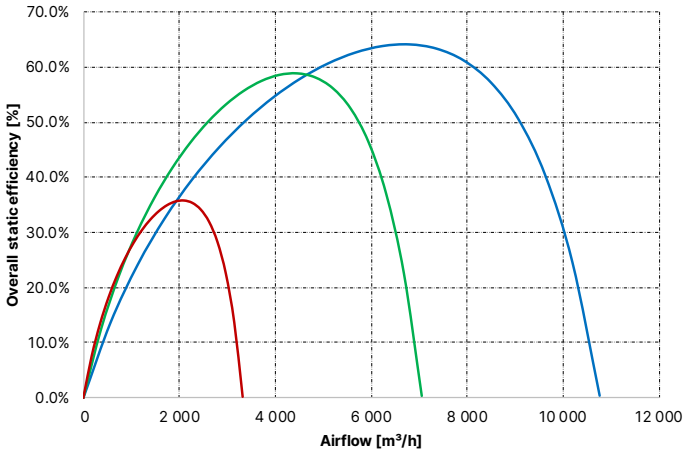
dP = f(V)



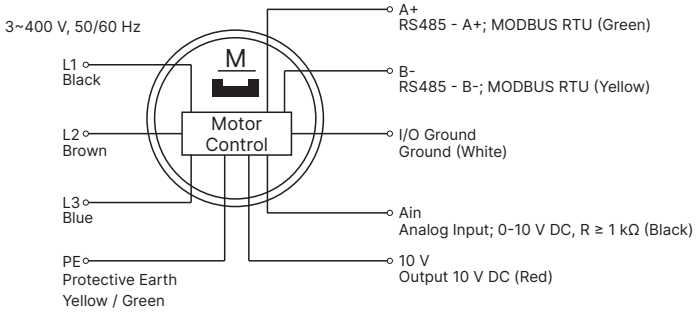
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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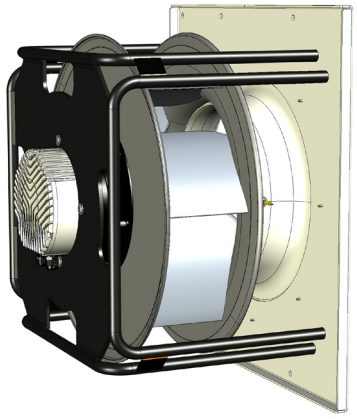
Apperance



Application

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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-A-450-1.6
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	2.8 A
Nominal Input Power	1.8 kW
Revolutions: Min / Nominal	300 ÷ 1800 RPM
CAV K-factor	206.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	35 kg
Installation position	Horizontal / Vertical shaft

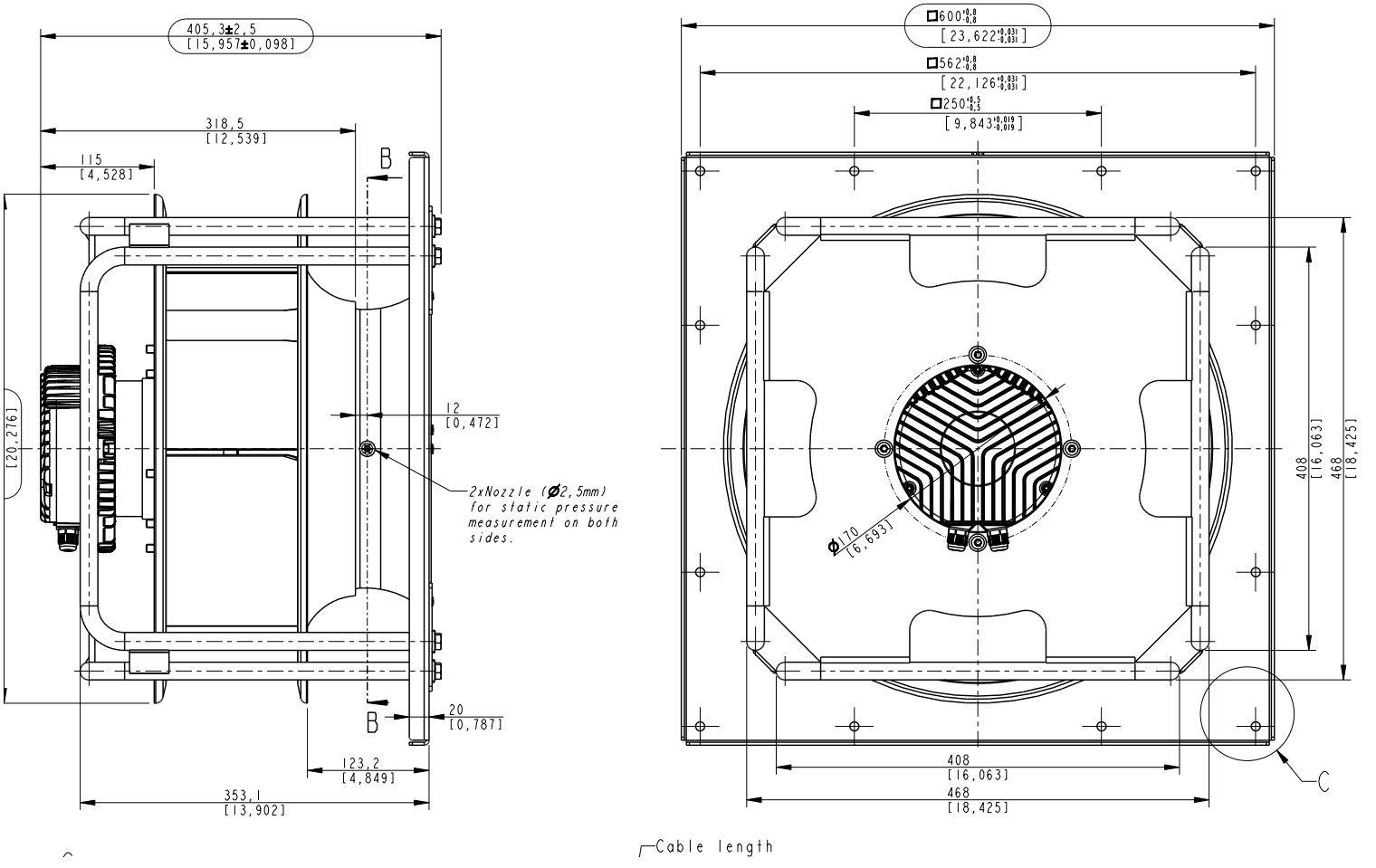
Motor

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}	75 200 (40 °C) / 37 600 (max. work. temperature)

Impeller

Fan Impeller Size	450 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	70.2%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	73.6%
5	Variable speed drive	Yes
9	Power consumption Ped	1.75 kW
	Air flow qv	5 176 m³/h
	Pressure increase pfs	797.8
10	Speed (rpm) n	1 800
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-A-450-1.6 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).

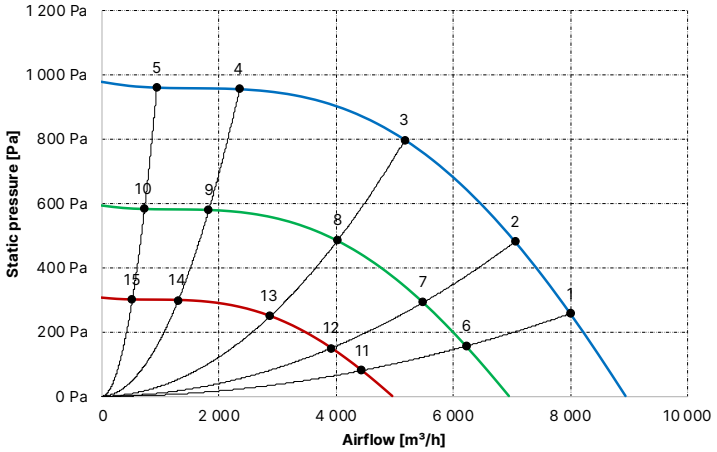
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

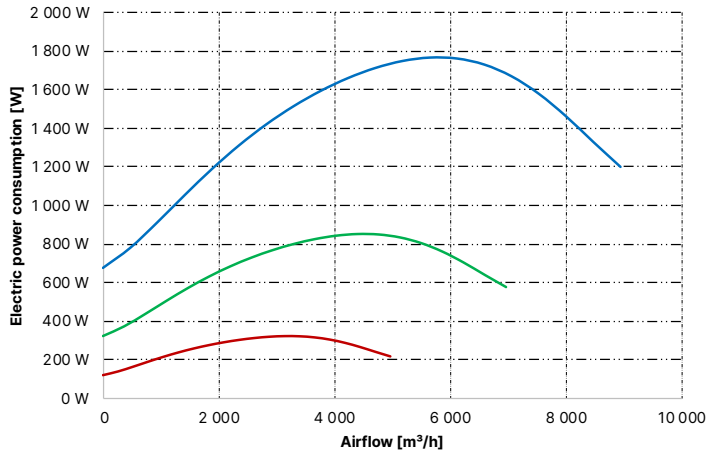
Measured Points

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	1 800	7 999	258	2.1	1.46	82.9	90.9	91.3	1.04
2	1 800	7 058	481	2.4	1.67	77.4	85.4	87.6	1.32
3	1 800	5 176	798	2.5	1.75	71.0	79.0	83.9	1.47
4	1 800	2 353	955	1.9	1.31	74.8	82.8	88.2	1.13
5	1 800	941	960	1.4	0.91	75.8	83.8	89.9	0.79
6	1 401	6 226	157	1.1	0.70	77.5	85.5	85.8	1.21
7	1 401	5 493	293	1.3	0.80	71.9	79.9	82.2	1.45
8	1 401	4 028	486	1.3	0.84	65.6	73.6	78.5	1.56
9	1 401	1 831	581	1.0	0.63	69.4	77.4	82.8	1.22
10	1 401	732	584	0.8	0.44	70.4	78.4	84.4	0.90
11	1 000	4 444	81	0.6	0.27	70.2	78.2	78.5	1.65
12	1 000	3 921	150	0.6	0.30	64.6	72.6	74.9	1.79
13	1 000	2 875	249	0.6	0.32	58.2	66.2	71.1	1.81
14	1 000	1 307	299	0.5	0.24	62.1	70.1	75.4	1.45
15	1 000	523	300	0.4	0.17	63.0	71.0	77.1	1.15

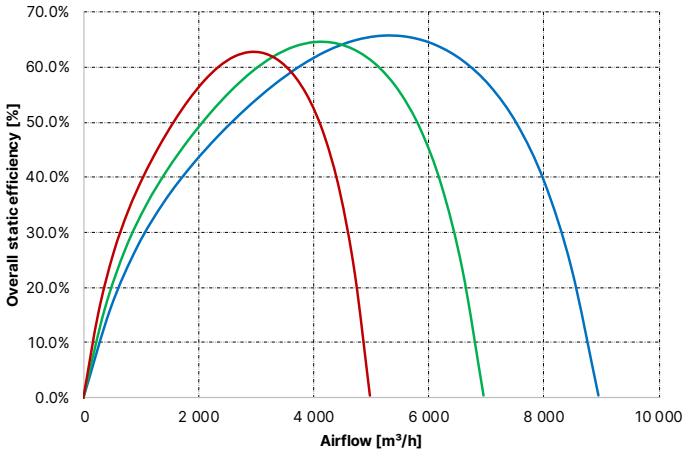
dP = f(V)



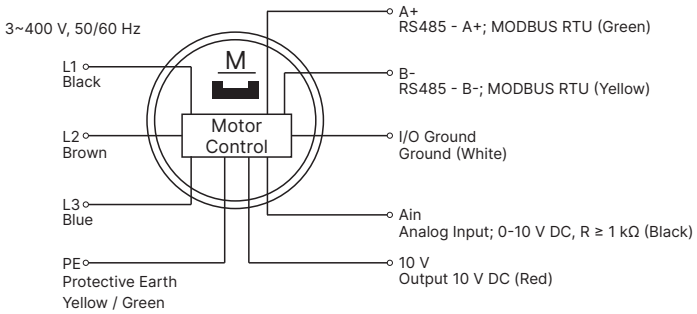
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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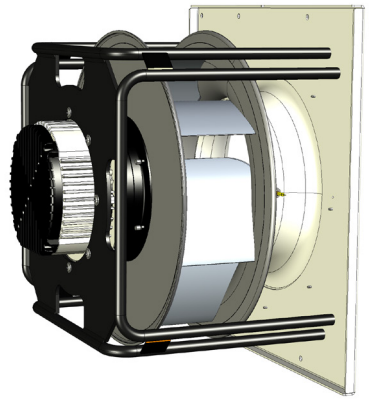

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Support to CAV/VAV systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

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

General specification

Fan Set Model	SR-FS-A-450-2.5
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	3.8 A
Nominal Input Power	2.5 kW
Revolutions: Min / Nominal	300 ÷ 2000 RPM
CAV K-factor	206.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	43 kg
Installation position	Horizontal / Vertical shaft

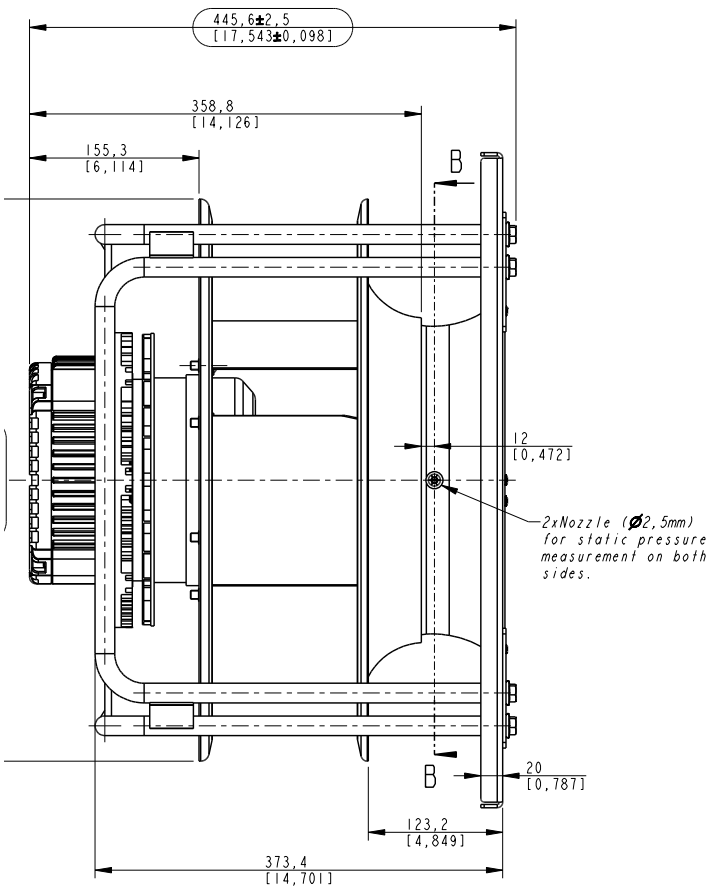
Motor

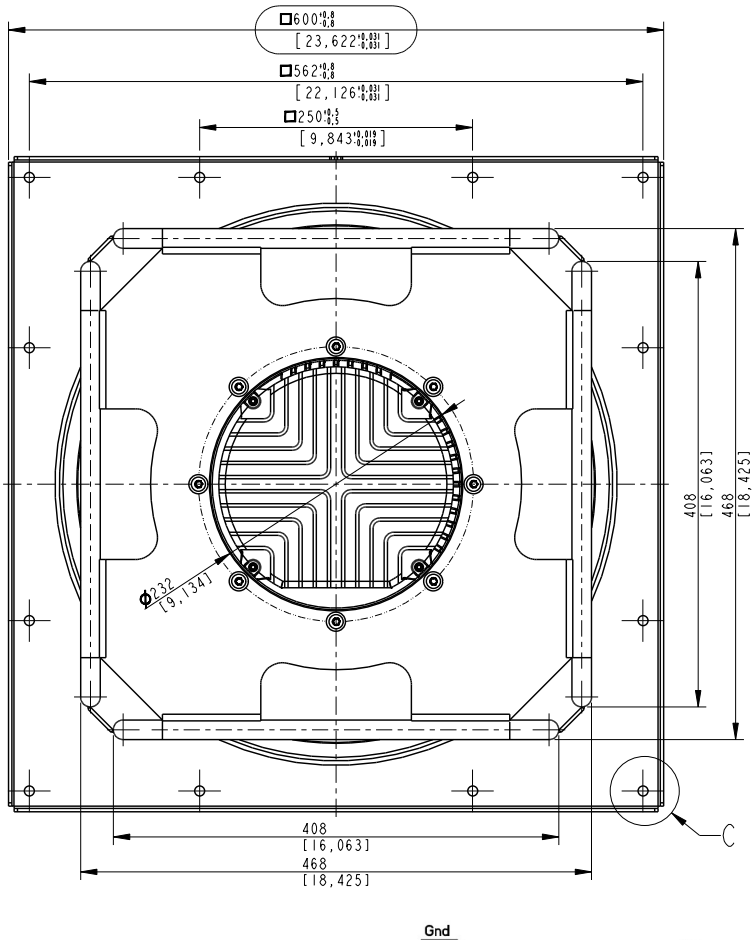
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	71 200 (40 °C) / 35 600 (max. work. temperature)

Impeller

Fan Impeller Size	450 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
Inlet funnel material	Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)

Installation Dimensions





Gnd

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}	68.1%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	71.0%
5	Variable speed drive	Yes
9	Power consumption Ped	2.24 kW
	Air flow qv	5 068 m³/h
	Pressure increase pfs	1 020.6
10	Speed (rpm) n	2 400
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-A-450-2.5 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).

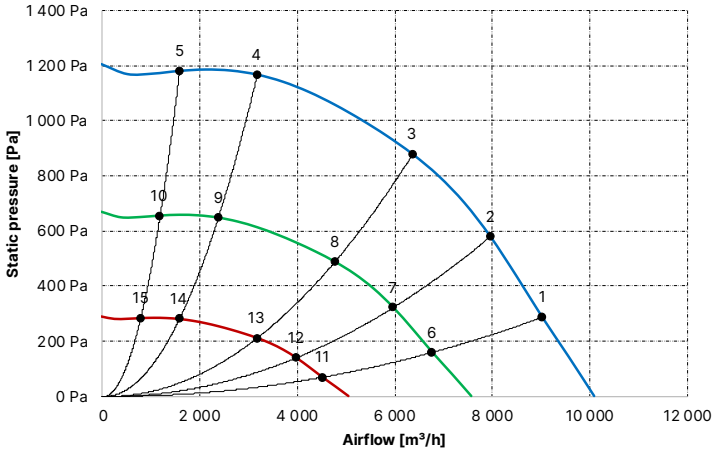
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

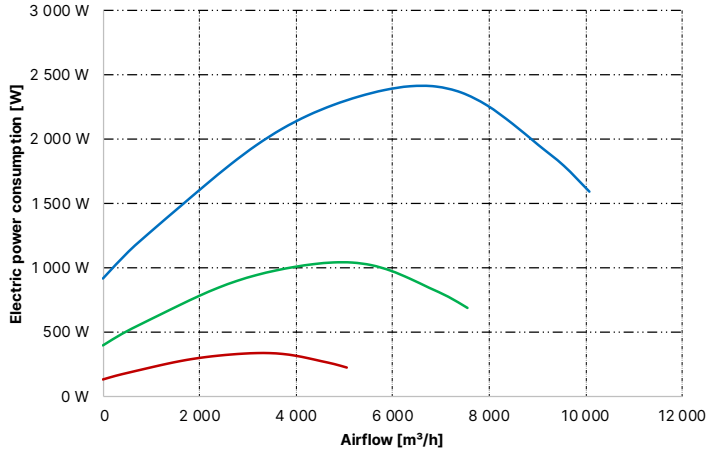
Measured Points

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	2 000	9 019	287	2.9	1.95	85.6	93.6	93.9	0.95
2	2 000	7 958	580	3.4	2.26	80.1	88.1	90.2	1.29
3	2 000	6 366	879	3.6	2.41	74.9	82.9	87.0	1.42
4	2 000	3 183	1 167	2.9	1.95	76.3	84.3	89.5	1.19
5	2 000	1 592	1 180	2.3	1.47	77.9	85.9	91.7	0.88
6	1 499	6 760	160	1.4	0.85	79.4	87.4	87.7	1.10
7	1 499	5 964	322	1.6	0.98	73.9	81.9	84.0	1.38
8	1 499	4 772	488	1.7	1.04	68.7	76.7	80.8	1.47
9	1 499	2 386	649	1.4	0.85	70.0	78.0	83.3	1.24
10	1 499	1 193	656	1.2	0.64	71.7	79.7	85.5	0.96
11	1 000	4 509	69	0.7	0.28	70.6	78.6	78.9	1.50
12	1 000	3 979	140	0.7	0.32	65.1	73.1	75.2	1.64
13	1 000	3 183	212	0.8	0.34	59.9	67.9	72.0	1.64
14	1 000	1 592	281	0.7	0.28	61.2	69.2	74.5	1.39
15	1 000	796	284	0.6	0.21	62.9	70.9	76.7	1.12

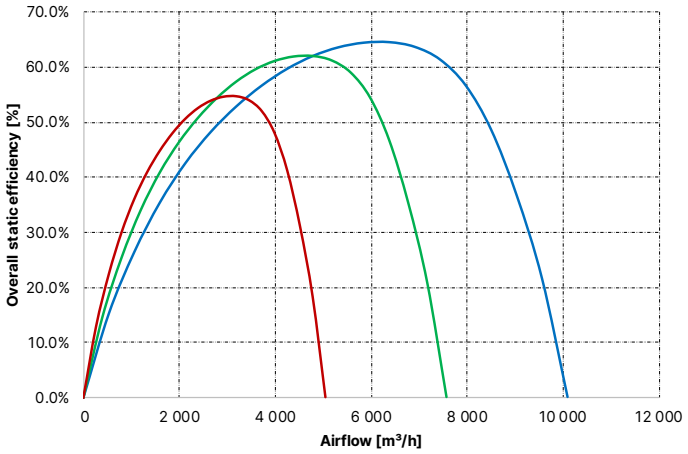
dP = f(V)



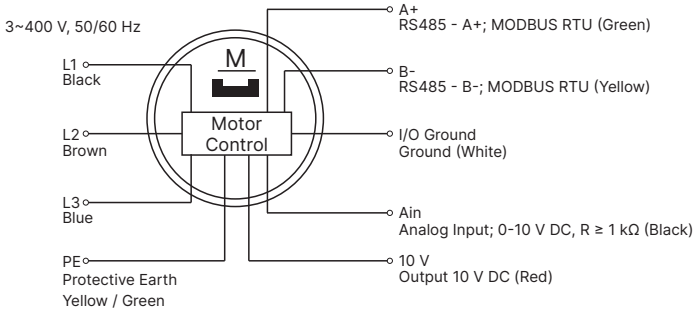
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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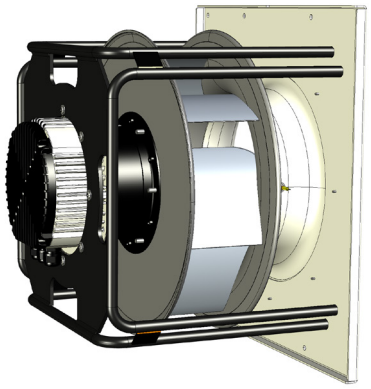
Apperance



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-A-450-3.7
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	5.7 A
Nominal Input Power	3.7 kW
Revolutions: Min / Nominal	300 ÷ 2300 RPM
CAV K-factor	205.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	45.6 kg
Installation position	Horizontal / Vertical shaft

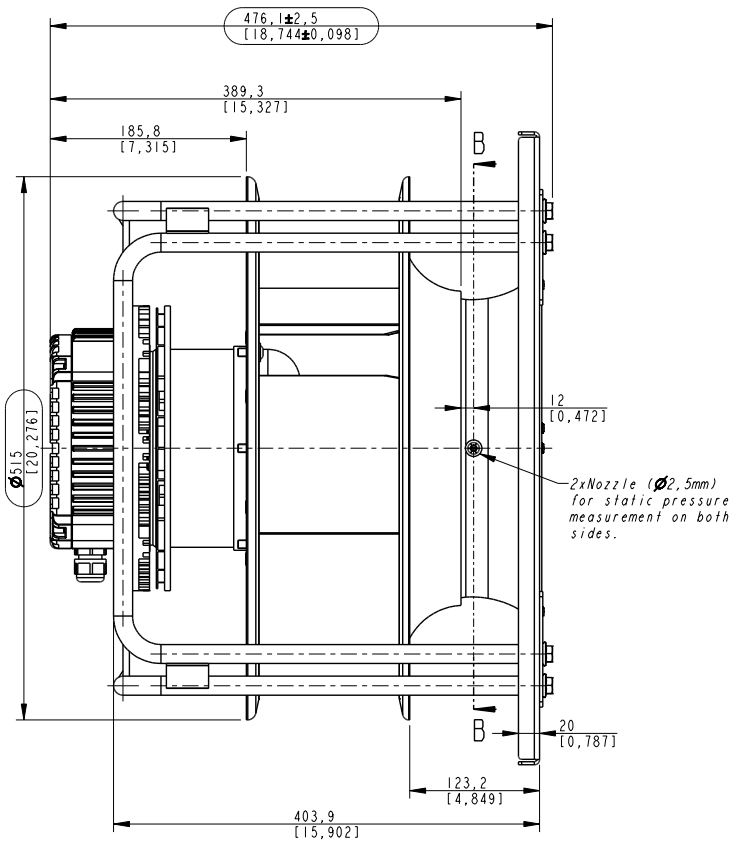
Motor

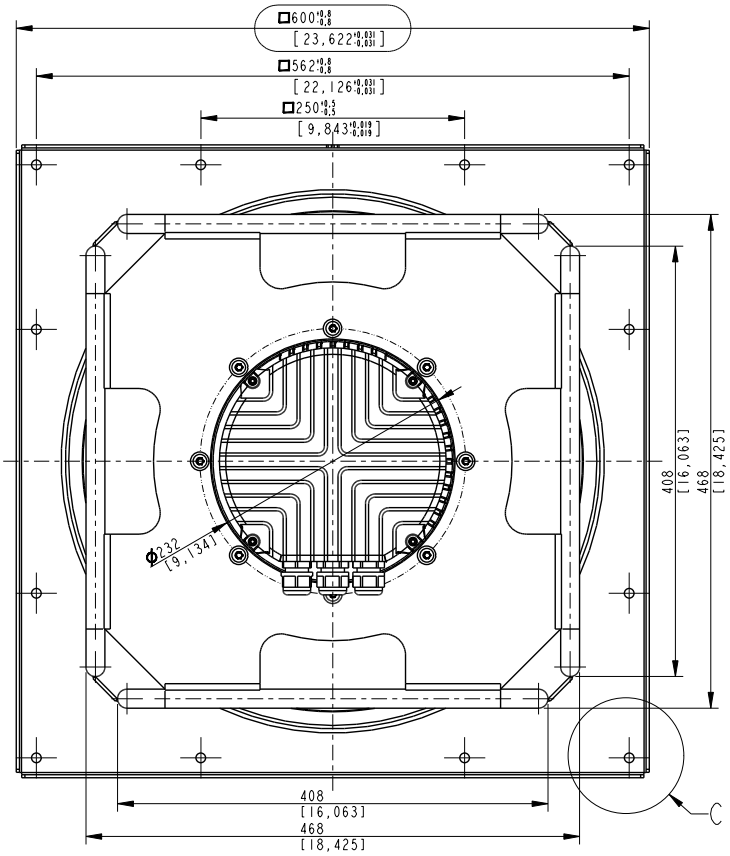
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	71 200 (40 °C) / 35 600 (max. work. temperature)

Impeller

Fan Impeller Size	450 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	67.7%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	69.2%
5	Variable speed drive	Yes
9	Power consumption Ped	3.57 kW
	Air flow qv	7 086 m³/h
	Pressure increase pfs	1 170.1
10	Speed (rpm) n	2 300
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-A-450-3.7 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).

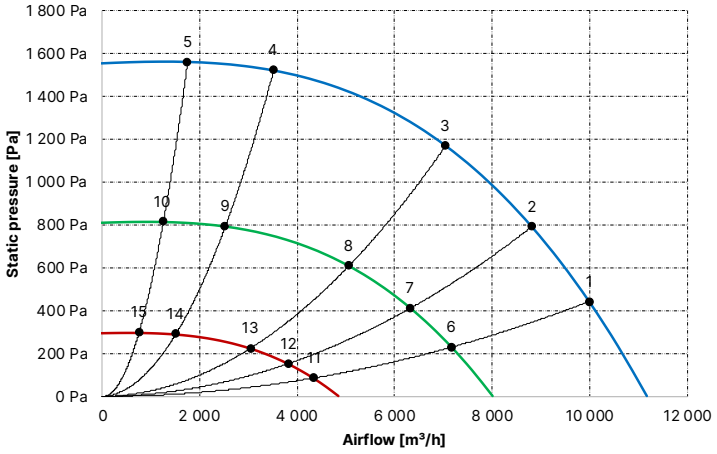
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

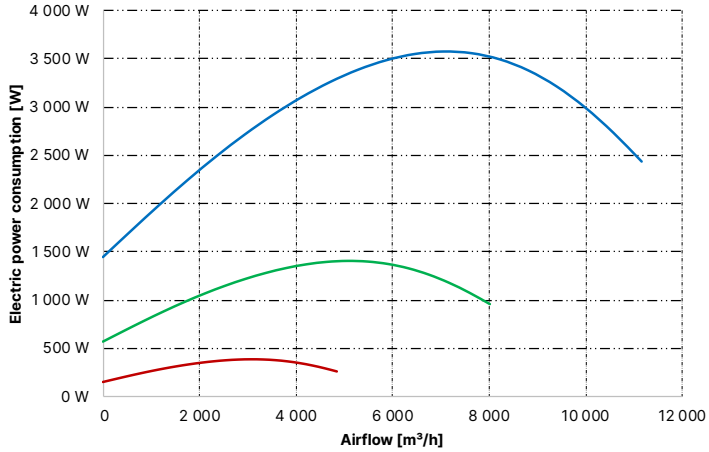
Measured Points

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	2 300	9 985	443	4.3	3.00	87.1	95.1	95.9	0.97
2	2 300	8 811	792	4.8	3.38	82.1	90.1	92.6	1.27
3	2 300	7 048	1 169	5.1	3.58	77.2	85.2	89.6	1.39
4	2 300	3 524	1 521	4.2	2.92	79.6	87.6	92.8	1.13
5	2 300	1 762	1 561	3.3	2.25	81.0	89.0	94.8	0.82
6	1 649	7 159	231	1.9	1.18	79.9	87.9	88.6	1.07
7	1 649	6 317	413	2.1	1.33	74.9	82.9	85.4	1.31
8	1 649	5 053	610	2.2	1.41	69.9	77.9	82.4	1.40
9	1 649	2 527	794	1.9	1.15	72.4	80.4	85.6	1.15
10	1 649	1 263	815	1.6	0.89	73.8	81.8	87.6	0.87
11	1 000	4 341	85	0.8	0.32	69.1	77.1	77.8	1.36
12	1 000	3 831	152	0.9	0.36	64.0	72.0	74.5	1.47
13	1 000	3 065	224	0.9	0.38	59.1	67.1	71.5	1.47
14	1 000	1 532	291	0.8	0.31	61.5	69.5	74.7	1.22
15	1 000	766	299	0.7	0.24	62.9	70.9	76.7	0.98

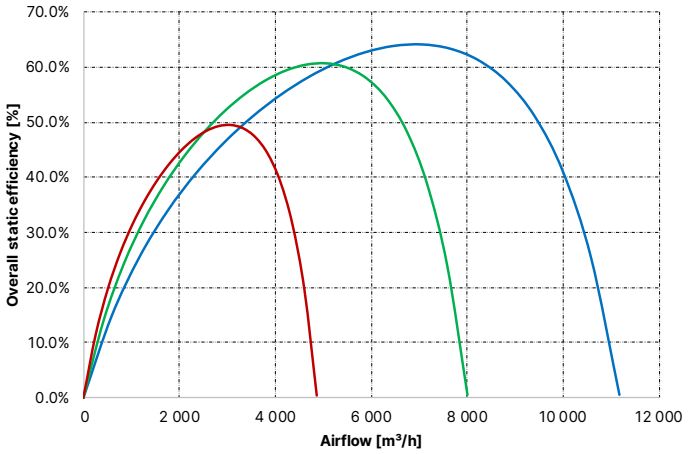
dP = f(V)



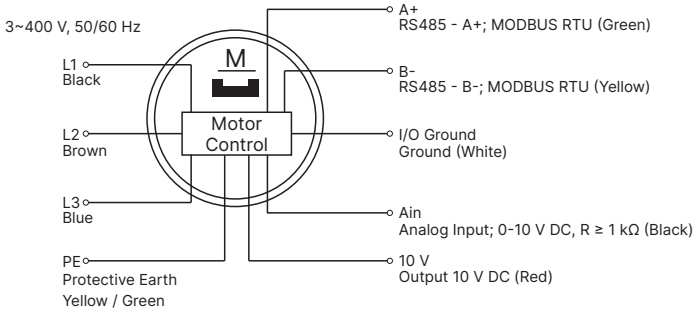
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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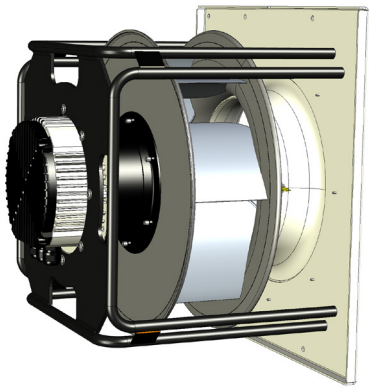
Apperance



Application

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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-A-450-5.4
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	8.1 A
Nominal Input Power	5.4 kW
Revolutions: Min / Nominal	325 ÷ 2600 RPM
CAV K-factor	206.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	47.7 kg
Installation position	Horizontal / Vertical shaft

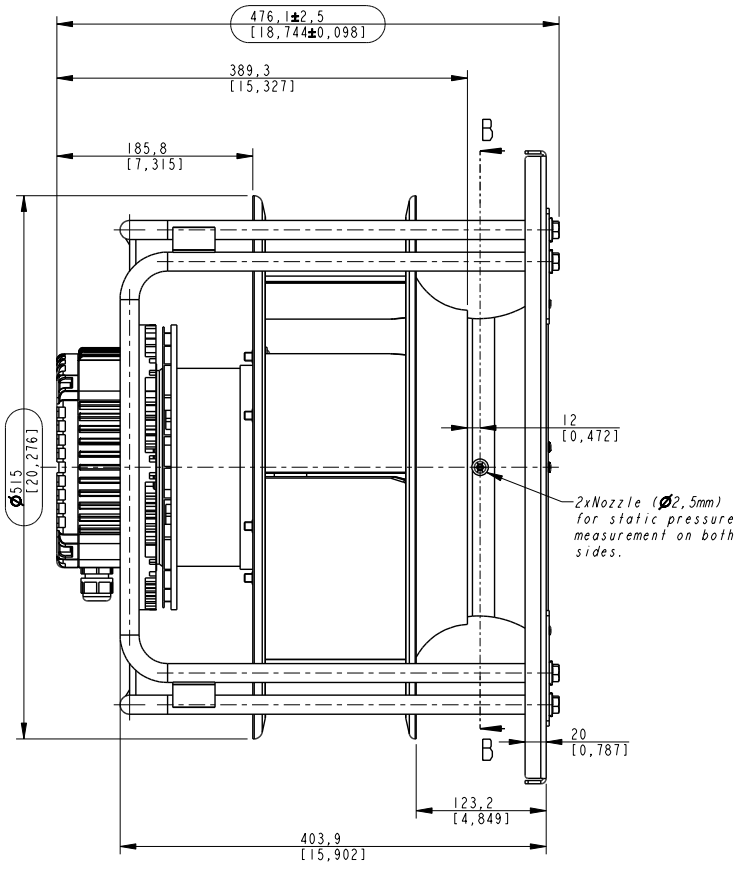
Motor

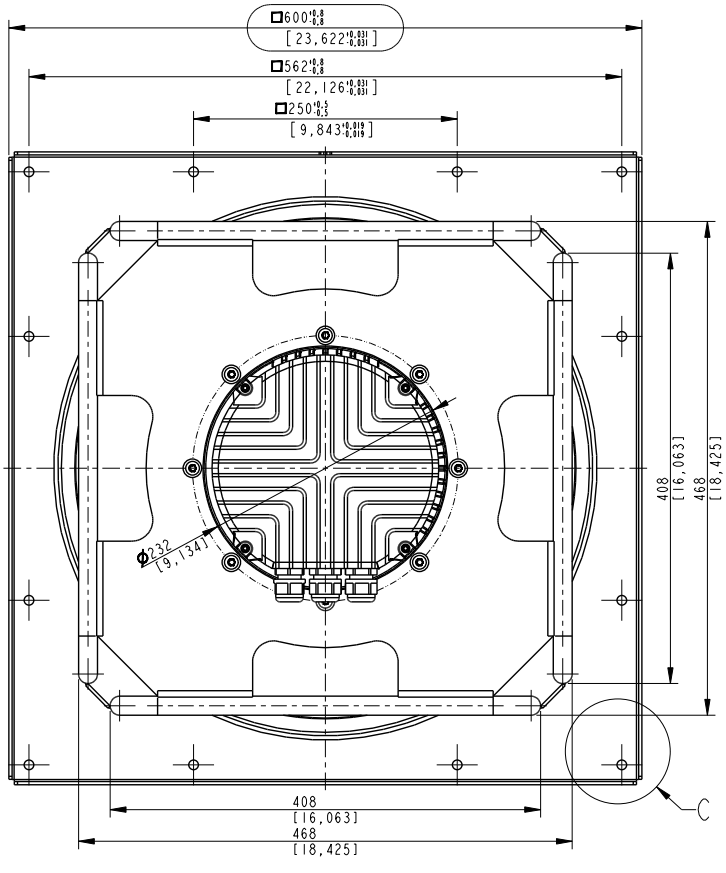
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	71 200 (40 °C) / 35 600 (max. work. temperature)

Impeller

Fan Impeller Size	450 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	66.8%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	67.1%
5	Variable speed drive	Yes
9	Power consumption Ped	5.29 kW
	Air flow qv	8 021 m³/h
	Pressure increase pfs	1 525.9
10	Speed (rpm) n	2 600
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-A-450-5.4 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).

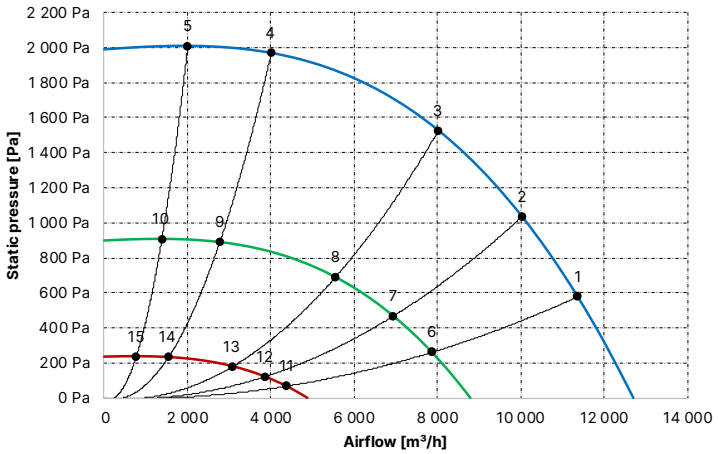
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

Measured Points

Point #	n RPM	V [m³/h]	dP [Pa] [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	2 600	11 363	579	6.5	4.41	90.1	98.1	98.7	0.94
2	2 600	10 026	1 036	7.3	5.00	84.9	92.9	95.4	1.26
3	2 600	8 021	1 526	7.7	5.29	80.0	88.0	92.4	1.39
4	2 600	4 011	1 967	6.3	4.28	82.2	90.2	95.5	1.12
5	2 600	2 005	2 007	4.8	3.22	83.6	91.6	97.5	0.81
6	1 799	7 862	262	2.3	1.45	82.1	90.1	90.7	1.04
7	1 799	6 937	469	2.5	1.64	77.0	85.0	87.4	1.29
8	1 799	5 550	691	2.7	1.74	72.0	80.0	84.4	1.38
9	1 799	2 775	891	2.2	1.41	74.2	82.2	87.5	1.14
10	1 799	1 387	909	1.7	1.06	75.6	83.6	89.5	0.86
11	1 000	4 370	69	0.6	0.24	69.4	77.4	78.0	1.68
12	1 000	3 856	123	0.6	0.27	64.2	72.2	74.6	1.75
13	1 000	3 085	181	0.6	0.29	59.2	67.2	71.6	1.71
14	1 000	1 543	233	0.6	0.23	61.5	69.5	74.7	1.41
15	1 000	771	238	0.5	0.18	62.9	70.9	76.7	1.15

dP = f(V)



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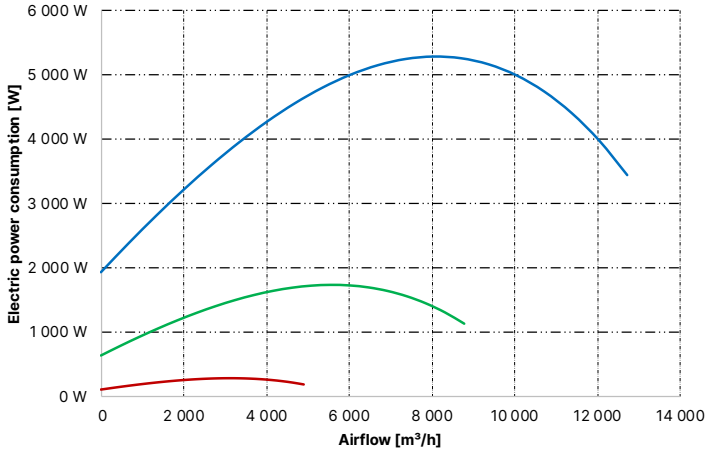
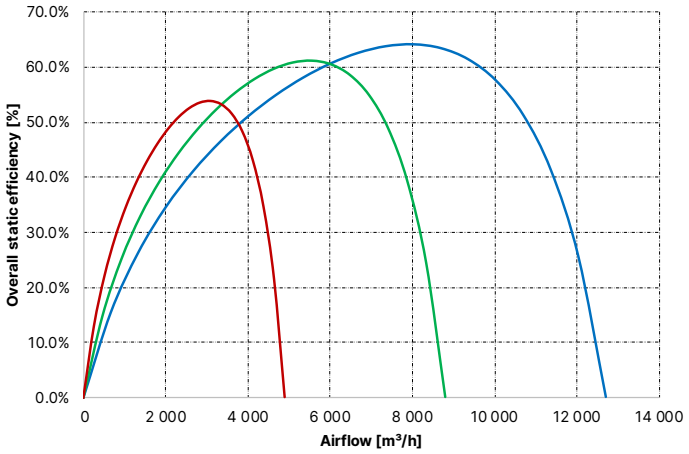
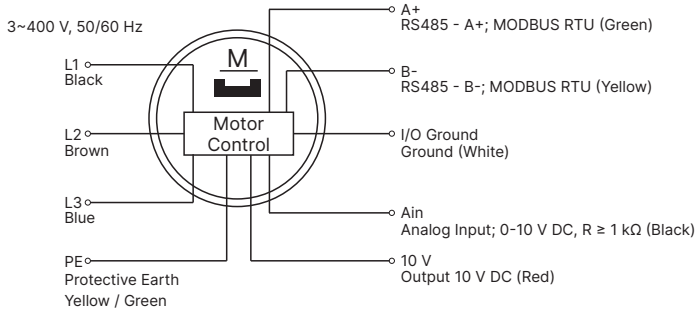


η_{es} = f(V)



Power supply and control connections



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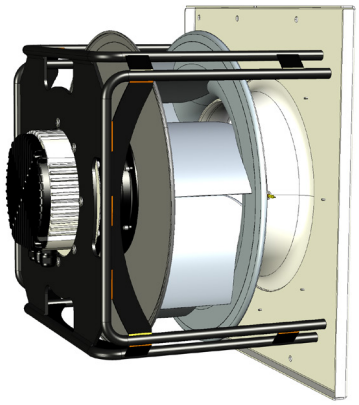
Apperance



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

General specification

Fan Set Model	SR-FS-A-500-3.7
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	5.5 A
Nominal Input Power	3.7 kW
Revolutions: Min / Nominal	300 ÷ 1900 RPM
CAV K-factor	250.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	53.2 kg
Installation position	Horizontal / Vertical shaft

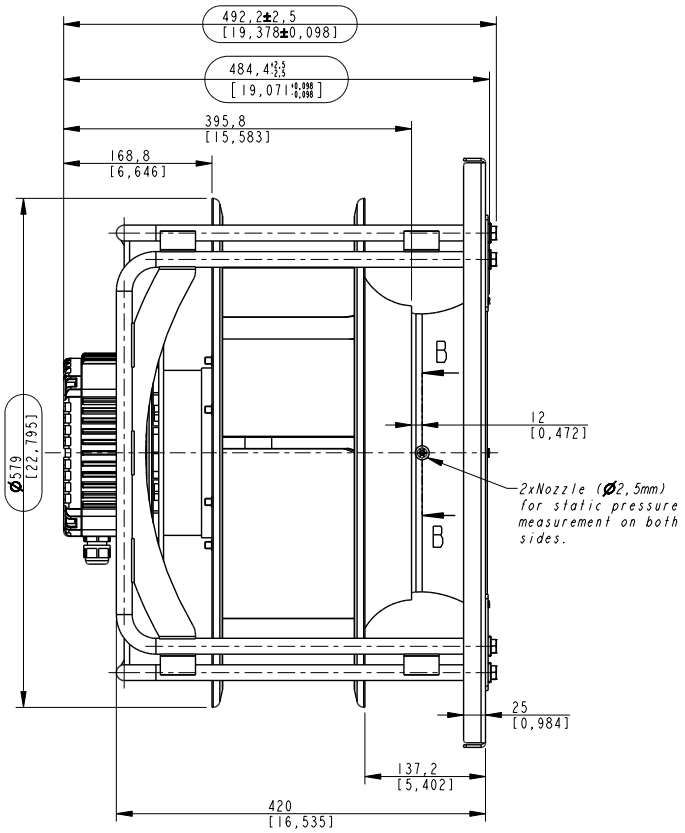
Motor

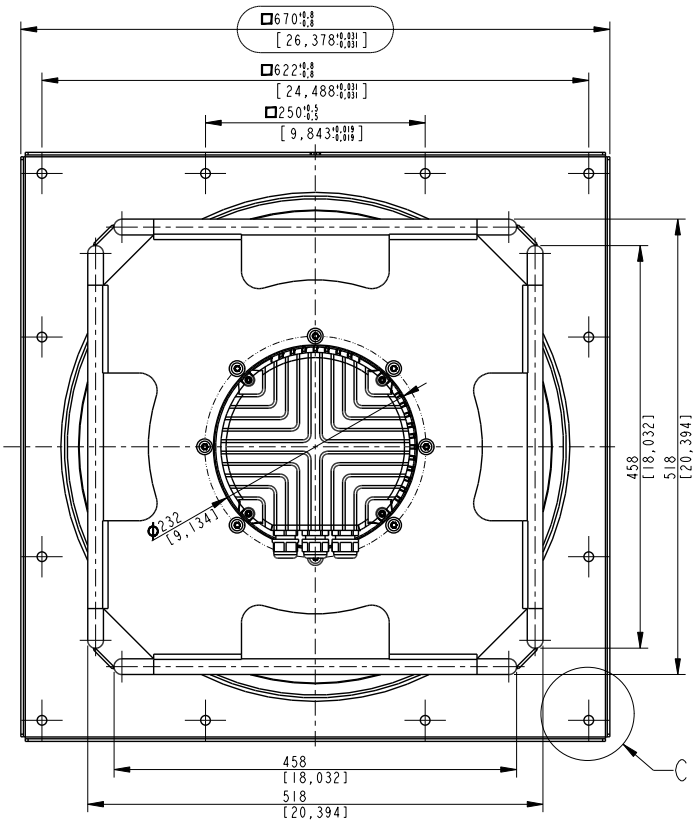
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	71 200 (40 °C) / 35 600 (max. work. temperature)

Impeller

Fan Impeller Size	500 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
Inlet funnel material	Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)

Installation Dimensions





Gnd

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Commission Regulation (EU) 327/2011	Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

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3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	71.2%
5	Variable speed drive	Yes
9	Power consumption Ped	3.59 kW
	Air flow qv	8 577 m³/h
	Pressure increase pfs	1 001.0
10	Speed (rpm) n	1 900
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-A-500-3.7 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).

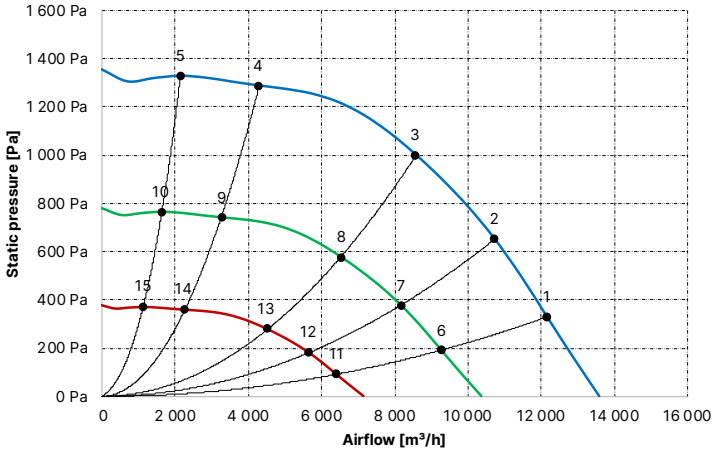
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

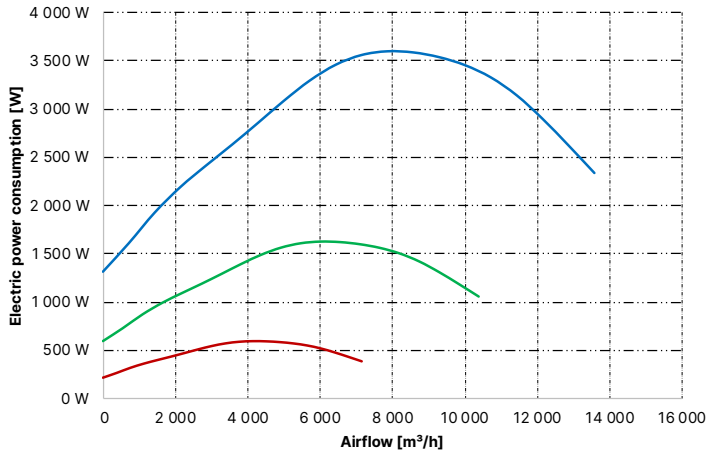
Measured Points

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	1 900	12 151	330	4.2	2.90	88.3	96.3	96.8	0.96
2	1 900	10 721	653	4.8	3.33	82.3	90.3	92.3	1.31
3	1 900	8 577	1 001	5.1	3.59	75.1	83.1	87.7	1.45
4	1 900	4 288	1 287	4.2	2.86	76.8	84.8	90.1	1.18
5	1 900	2 144	1 327	3.3	2.19	78.8	86.8	92.7	0.85
6	1 450	9 273	190	2.1	1.31	82.4	90.4	91.0	1.08
7	1 450	8 182	376	2.3	1.51	76.4	84.4	86.4	1.38
8	1 450	6 545	576	2.5	1.62	69.2	77.2	81.8	1.48
9	1 450	3 273	741	2.1	1.29	70.9	78.9	84.3	1.21
10	1 450	1 636	764	1.7	0.99	72.9	80.9	86.8	0.90
11	1 000	6 395	93	1.0	0.47	74.3	82.3	82.9	1.39
12	1 000	5 643	184	1.0	0.54	68.4	76.4	78.4	1.58
13	1 000	4 514	281	1.1	0.59	61.1	69.1	73.7	1.61
14	1 000	2 257	362	0.9	0.47	62.9	70.9	76.2	1.33
15	1 000	1 129	373	0.8	0.36	64.9	72.9	78.8	1.02

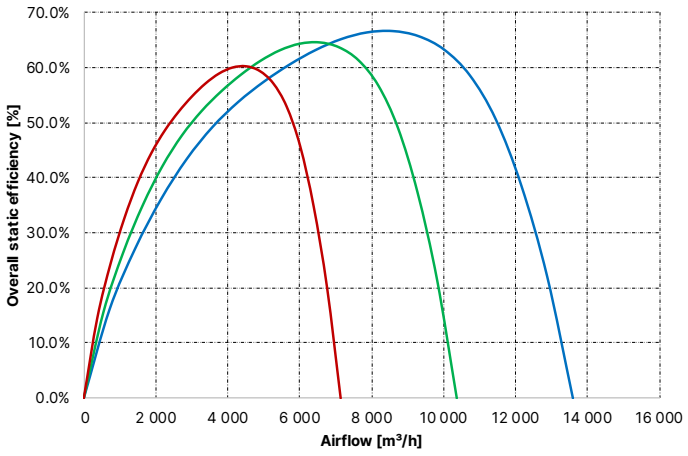
dP = f(V)



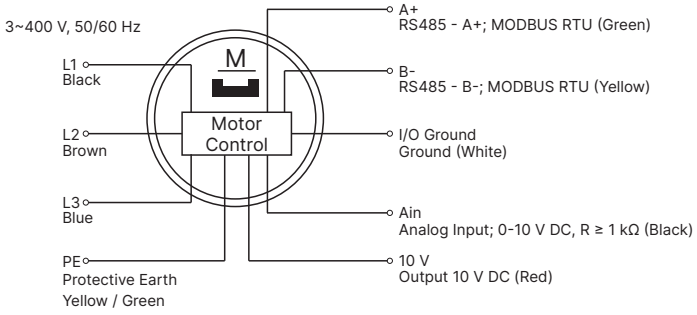
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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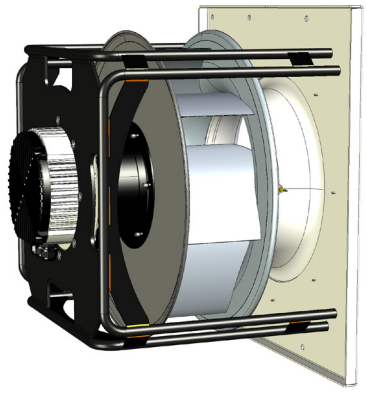
Apperance



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-A-500-5.4
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	7.6 A
Nominal Input Power	5.2 kW
Revolutions: Min / Nominal	300 ÷ 2130 RPM
CAV K-factor	252.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	58.2 kg
Installation position	Horizontal / Vertical shaft

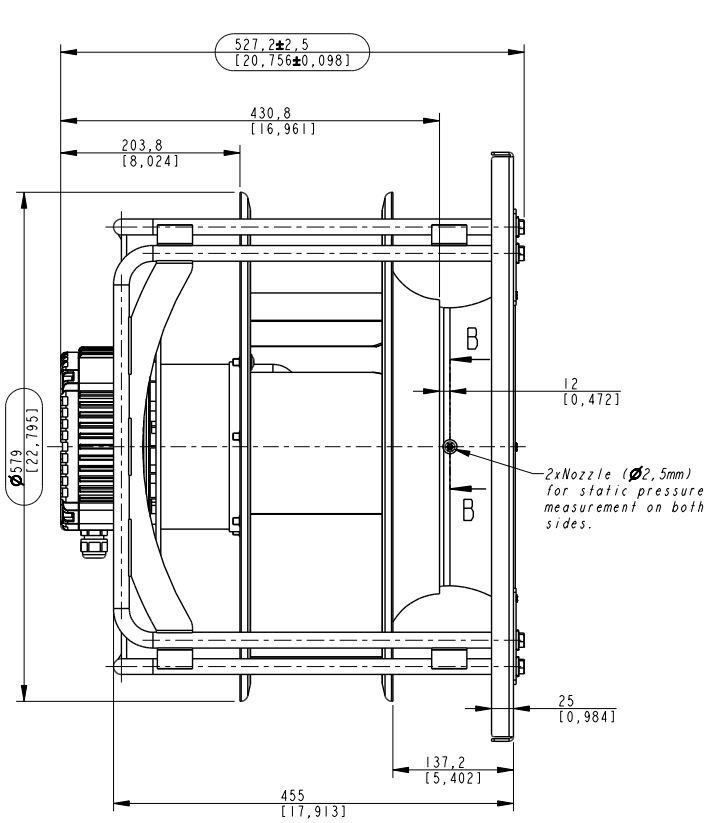
Motor

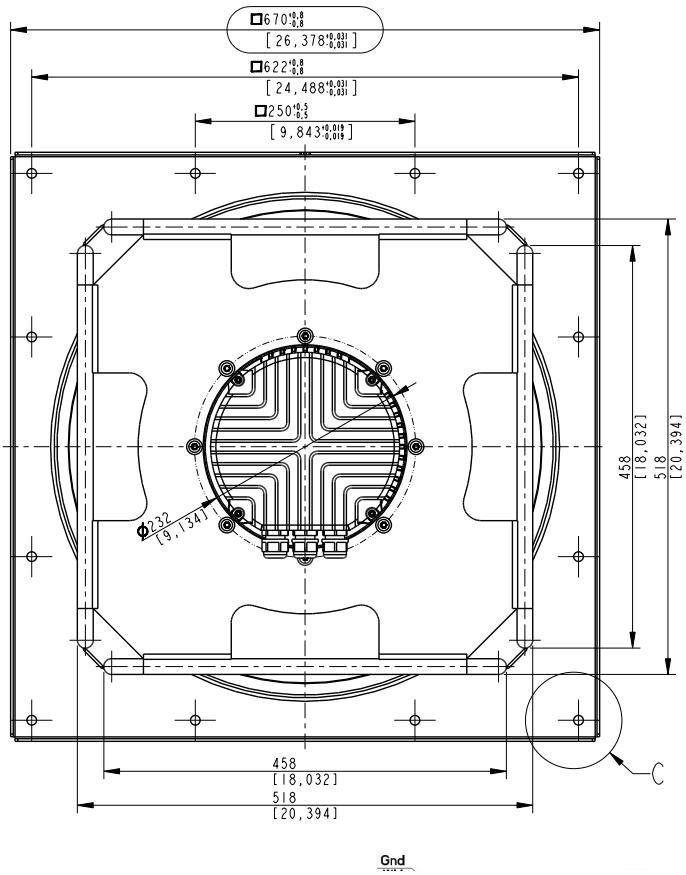
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	71 200 (40 °C) / 35 600 (max. work. temperature)

Impeller

Fan Impeller Size	500 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	70.1%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	70.5%
5	Variable speed drive	Yes
9	Power consumption Ped	5.06 kW
	Air flow qv	9 562 m³/h
	Pressure increase pfs	1 283.7
10	Speed (rpm) n	2 130
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-A-500-5.4 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).

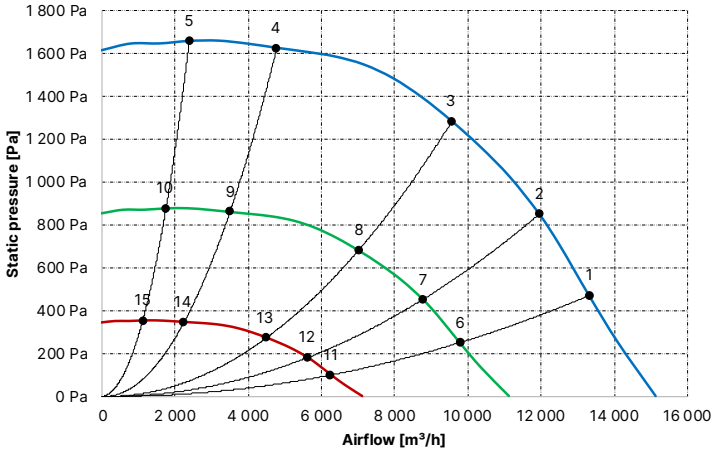
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

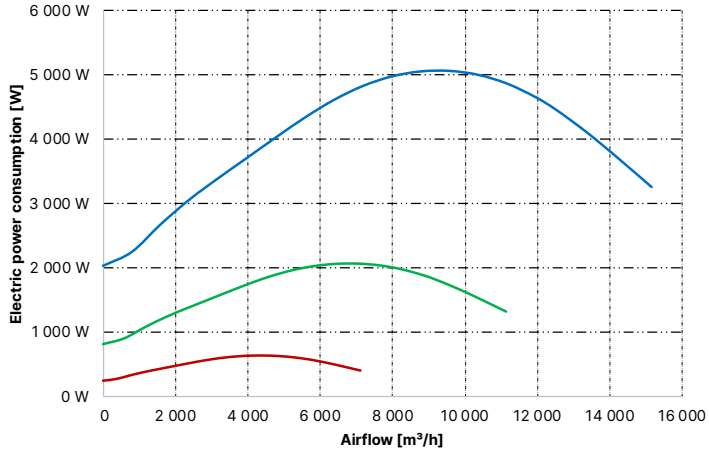
Measured Points

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	2 130	13 315	471	6.0	4.12	89.9	97.9	98.6	0.99
2	2 130	11 953	852	6.8	4.64	84.6	92.6	94.6	1.35
3	2 130	9 562	1 284	7.3	5.06	77.4	85.4	90.1	1.47
4	2 130	4 781	1 624	5.9	4.02	79.3	87.3	92.7	1.17
5	2 130	2 391	1 656	4.6	3.06	81.3	89.3	95.2	0.83
6	1 566	9 789	250	2.6	1.68	83.3	91.3	91.9	1.08
7	1 566	8 788	452	2.9	1.89	77.9	85.9	88.0	1.37
8	1 566	7 030	681	3.2	2.06	70.7	78.7	83.4	1.45
9	1 566	3 515	862	2.6	1.64	72.7	80.7	86.0	1.17
10	1 566	1 758	879	2.0	1.24	74.6	82.6	88.5	0.86
11	1 000	6 251	101	1.0	0.51	73.5	81.5	82.2	1.31
12	1 000	5 612	182	1.1	0.58	68.1	76.1	78.2	1.47
13	1 000	4 489	275	1.2	0.63	61.0	69.0	73.6	1.46
14	1 000	2 245	348	1.0	0.50	62.9	70.9	76.2	1.19
15	1 000	1 122	355	0.8	0.38	64.9	72.9	78.8	0.92

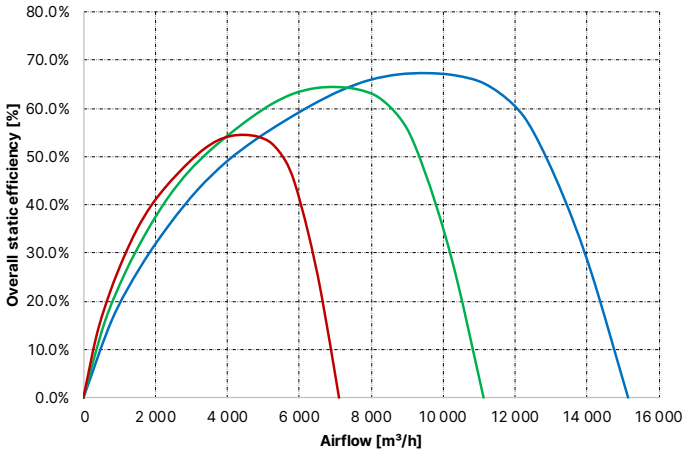
dP = f(V)



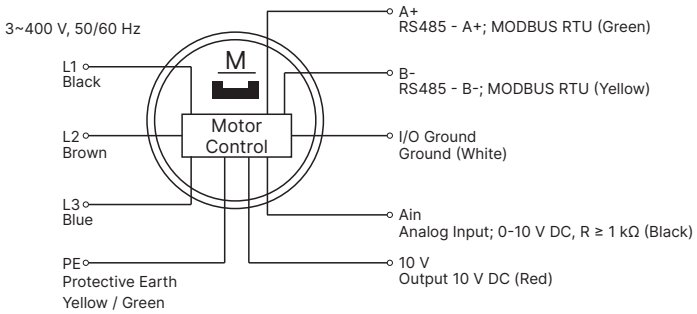
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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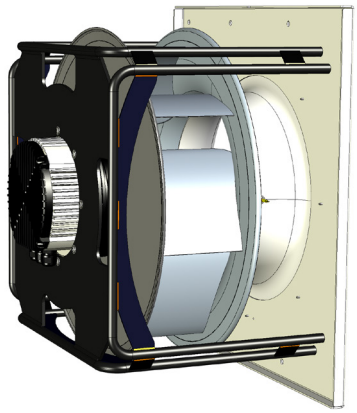
Apperance



Application

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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-A-560-3.7
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	5.5 A
Nominal Input Power	3.7 kW
Revolutions: Min / Nominal	300 ÷ 1600 RPM
CAV K-factor	330.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	60.1 kg
Installation position	Horizontal / Vertical shaft

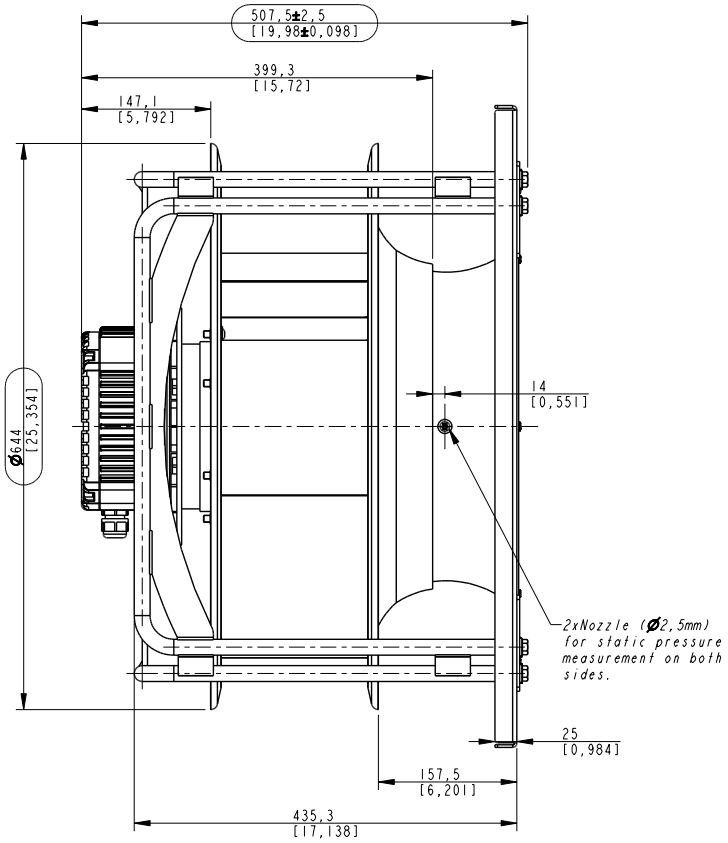
Motor

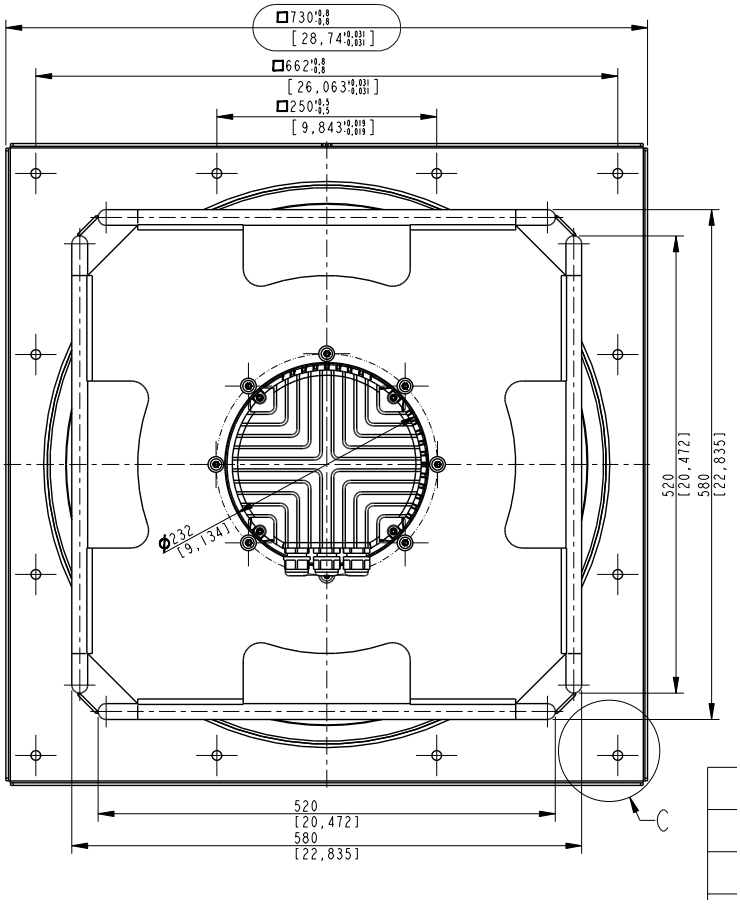
Type	Electronically Comutated, Brushless DC
Housing	Die-cast aluminum
Protection Degree	IP 54
Overload protection	Inbuilt thermal limit
Speed Control	0~10VDC / Modbus RTU
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L_{10}	71 200 (40 °C) / 35 600 (max. work. temperature)

Impeller

Fan Impeller Size	560 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	69.0%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	70.4%
5	Variable speed drive	Yes
9	Power consumption Ped	3.58 kW
	Air flow qv	9 486 m³/h
	Pressure increase pfs	892.5
10	Speed (rpm) n	1 600
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

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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).

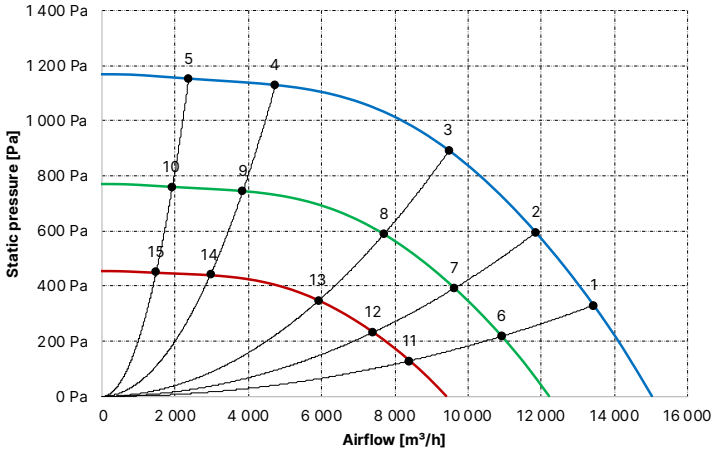
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

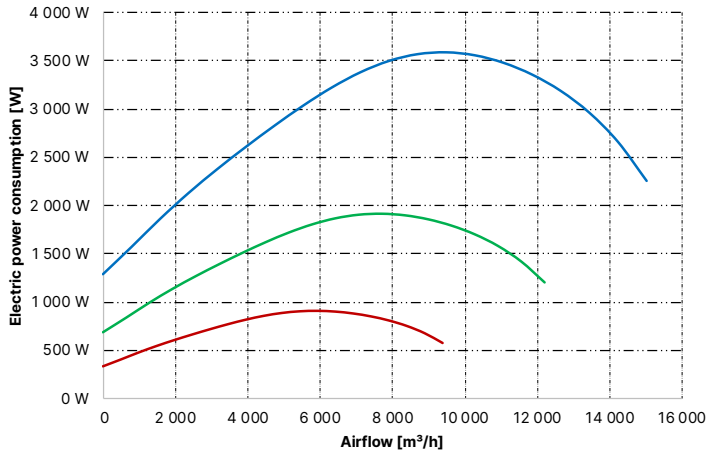
Measured Points

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	1 600	13 439	331	4.5	2.96	84.7	92.7	93.9	1.04
2	1 600	11 858	595	5.1	3.35	79.4	87.4	90.3	1.33
3	1 600	9 486	893	5.4	3.58	73.2	81.2	86.4	1.44
4	1 600	4 743	1 130	4.3	2.82	77.0	85.0	90.4	1.16
5	1 600	2 372	1 153	3.3	2.13	78.5	86.5	92.5	0.83
6	1 300	10 919	218	2.6	1.58	80.2	88.2	89.4	1.15
7	1 300	9 635	393	2.9	1.79	74.9	82.9	85.8	1.41
8	1 300	7 708	589	3.0	1.92	68.7	76.7	81.9	1.50
9	1 300	3 854	746	2.5	1.51	72.5	80.5	85.9	1.21
10	1 300	1 927	761	1.9	1.14	74.0	82.0	88.0	0.89
11	1 000	8 399	129	1.4	0.75	74.5	82.5	83.7	1.34
12	1 000	7 411	232	1.5	0.85	69.2	77.2	80.1	1.53
13	1 000	5 929	349	1.6	0.91	63.0	71.0	76.2	1.57
14	1 000	2 964	441	1.3	0.72	66.8	74.8	80.2	1.28
15	1 000	1 482	450	1.1	0.54	68.3	76.3	82.3	0.97

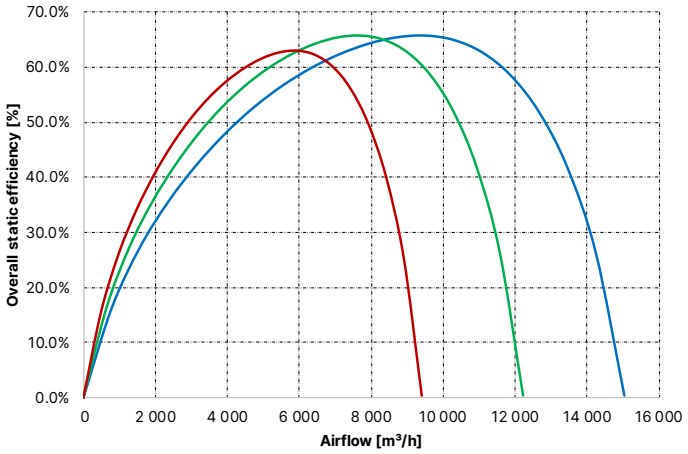
dP = f(V)



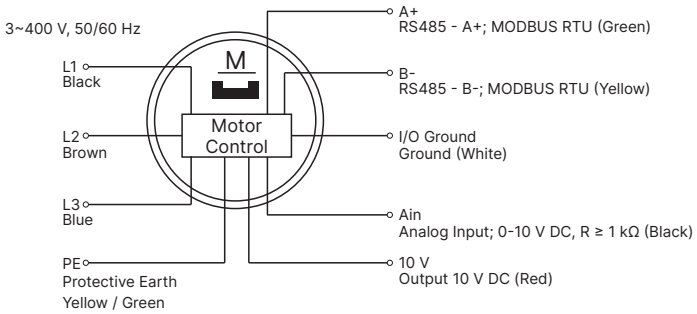
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



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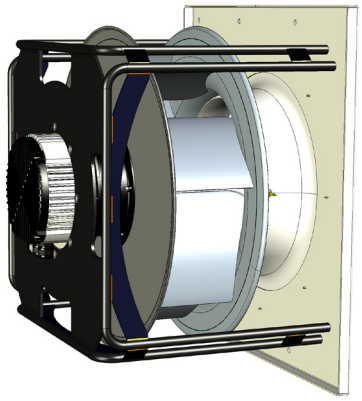

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Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Fan Set Model	SR-FS-A-560-5.4
Rated Voltage	3×380-480 VAC / 50-60 Hz
Rated Current	8.2 A
Nominal Input Power	5.7 kW
Revolutions: Min / Nominal	300 ÷ 1830 RPM
CAV K-factor	330.0
Storage temperature range	-30°C to 50°C
Operating temperatures range	-25°C to 40°C
Support plate material	Galvanized steel
Support brackets material	Black painted steel
Mass	64.7 kg
Installation position	Horizontal / Vertical shaft

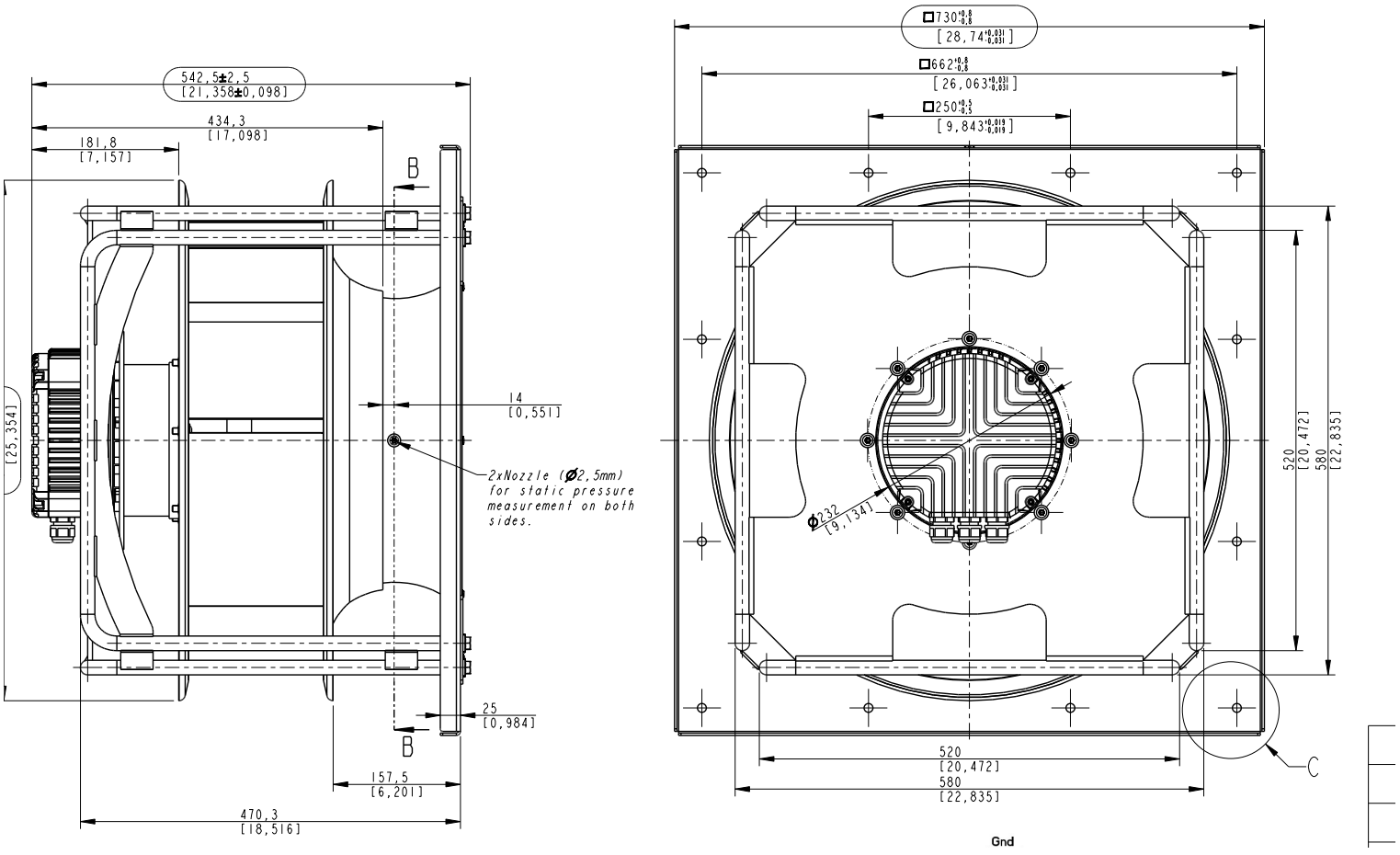
Motor

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}	71 200 (40 °C) / 35 600 (max. work. temperature)

Impeller

Fan Impeller Size	560 mm
Blade design / No of blades	Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller material	Aluminum
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}	69.0%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	69.0%
5	Variable speed drive	Yes
9	Power consumption Ped	5.52 kW
	Air flow qv	11 192 m³/h
	Pressure increase pfs	1 175.8
10	Speed (rpm) n	1 830
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
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AMCA Certification

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Performance ratings do not include the effects of appurtenances.

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

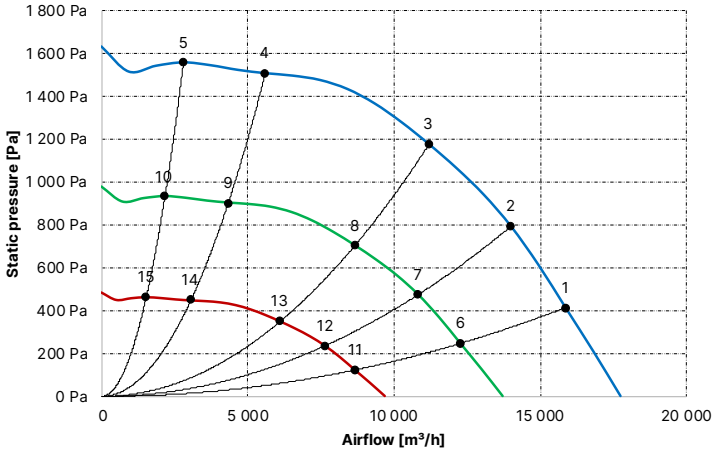
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

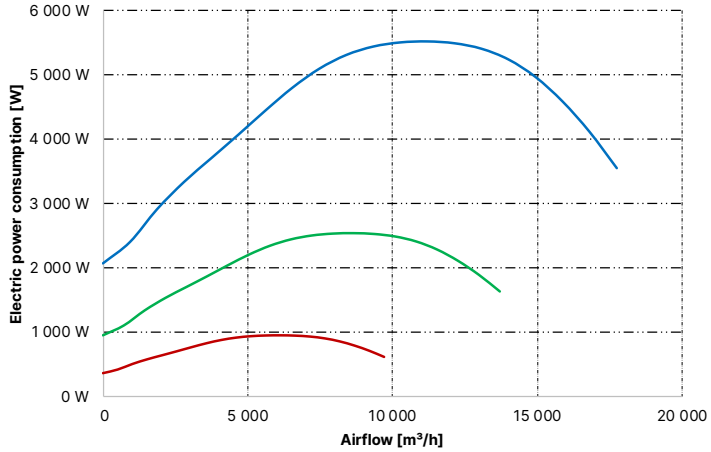
Measured Points

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	1 830	15 855	414	6.5	4.58	89.3	97.3	98.1	0.95
2	1 830	13 989	793	7.4	5.24	83.5	91.5	94.0	1.31
3	1 830	11 192	1 176	7.8	5.52	76.9	84.9	89.8	1.45
4	1 830	5 596	1 507	6.3	4.44	79.7	87.7	93.1	1.14
5	1 830	2 798	1 557	4.8	3.34	81.4	89.4	95.4	0.82
6	1 416	12 268	248	3.1	2.11	83.7	91.7	92.6	1.06
7	1 416	10 825	475	3.6	2.41	77.9	85.9	88.4	1.38
8	1 416	8 660	704	3.7	2.54	71.3	79.3	84.2	1.49
9	1 416	4 330	902	3.1	2.04	74.2	82.2	87.5	1.19
10	1 416	2 165	932	2.4	1.53	75.9	83.9	89.8	0.88
11	1 000	8 664	124	1.4	0.79	76.2	84.2	85.0	1.28
12	1 000	7 645	237	1.5	0.91	70.4	78.4	80.9	1.51
13	1 000	6 116	351	1.6	0.96	63.7	71.7	76.6	1.55
14	1 000	3 058	450	1.3	0.77	66.6	74.6	80.0	1.25
15	1 000	1 529	465	1.1	0.58	68.3	76.3	82.3	0.95

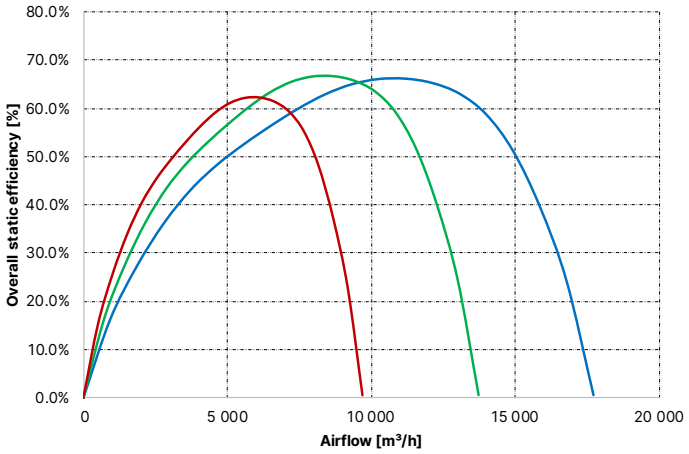
dP = f(V)



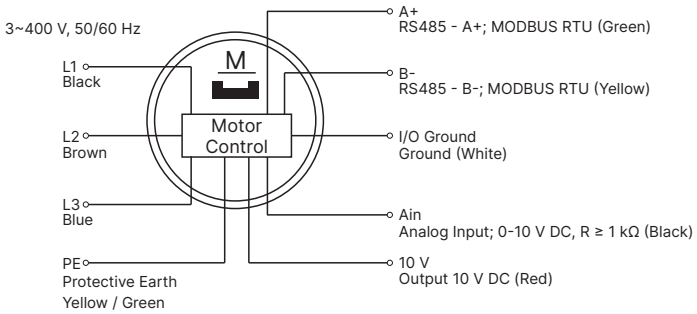
EPC = f(V)



η_{es} = f(V)



Power supply and control connections



*In the interest of continuous product improvement in the field of design, performance and reliability, Swiss Rotors Company reserves the right to make changes to this specification without prior notice.

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