

**SWISS
ROTORS**



SR-FI-A

Aluminum Fan Impellers

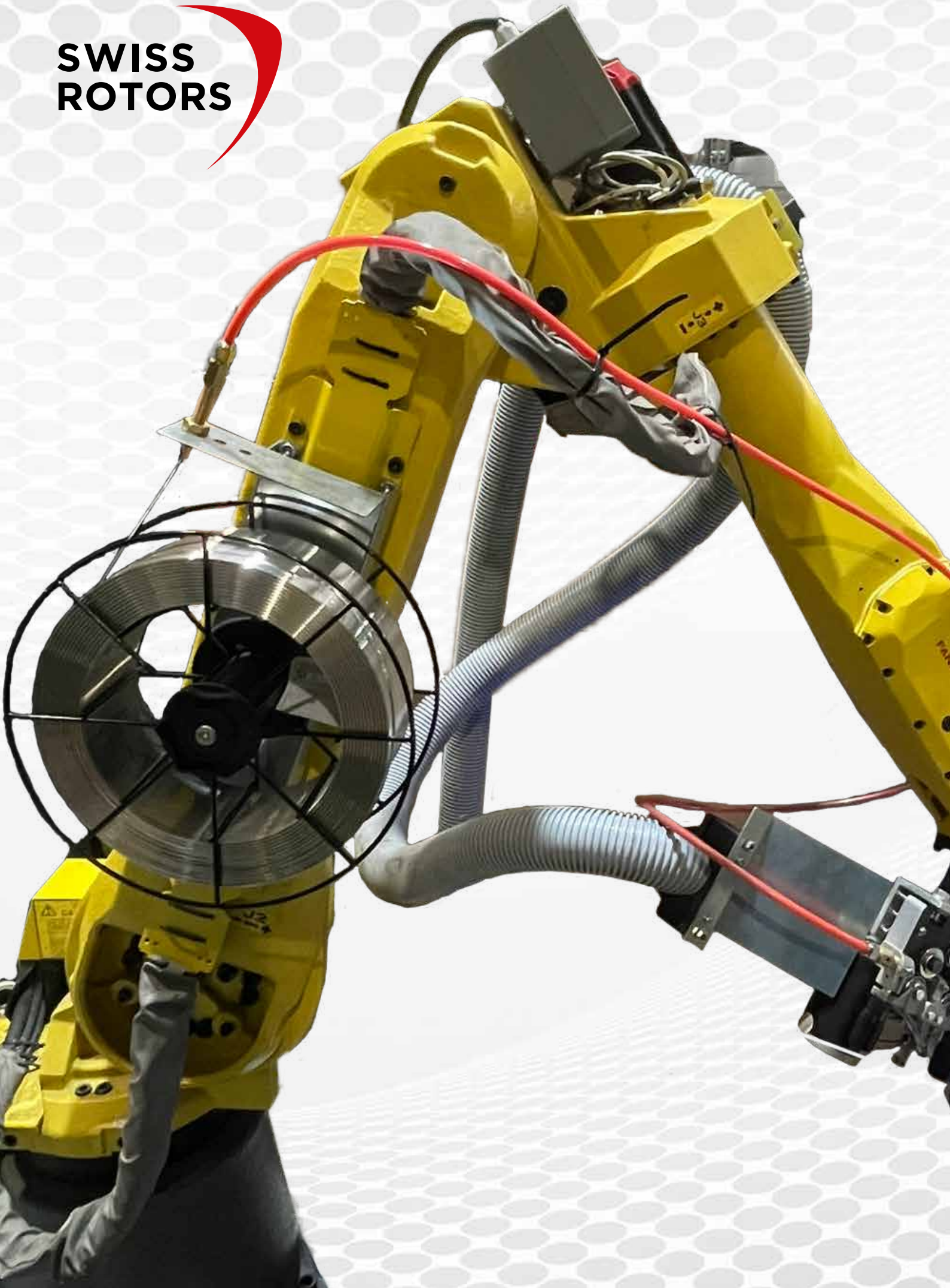
225-630 mm
for **NEMA & IEC Motors**



**Backward Curved
Single Inlet, Single Width**

Edition in Metric Units

**SWISS
ROTORS**



Laser Welded

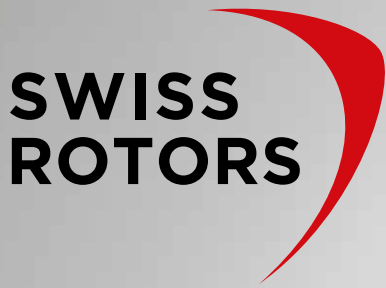
Aluminum Fan Impellers

SR-FI-A

... is a range of **Backward Curved, Single Inlet, Single Width Fan Impellers** made based on the latest technological solutions.

Thanks to this solution, we obtained welds connecting the fan plates with blades with a uniform structure and full repeatability of shape.





SR-FI-A

Aluminum Fan Impellers



Specification

Type: Radial, Backward-curved, Single Inlet

Static efficiency: up to 73%

Material: High Performance Aluminum (A)

Balance quality grade:

G 6,3 (ISO 1940-1)

BV-3 (ANSI S2.19-1989)



SR-FI-A7-225

6

SR-FI-A7-250

8

SR-FI-A7-315

10

SR-FI-A7-355

12

SR-FI-A7-400

14

SR-FI-A7-450

16

SR-FI-A7-500

18

SR-FI-A7-560

20

SR-FI-A5-630

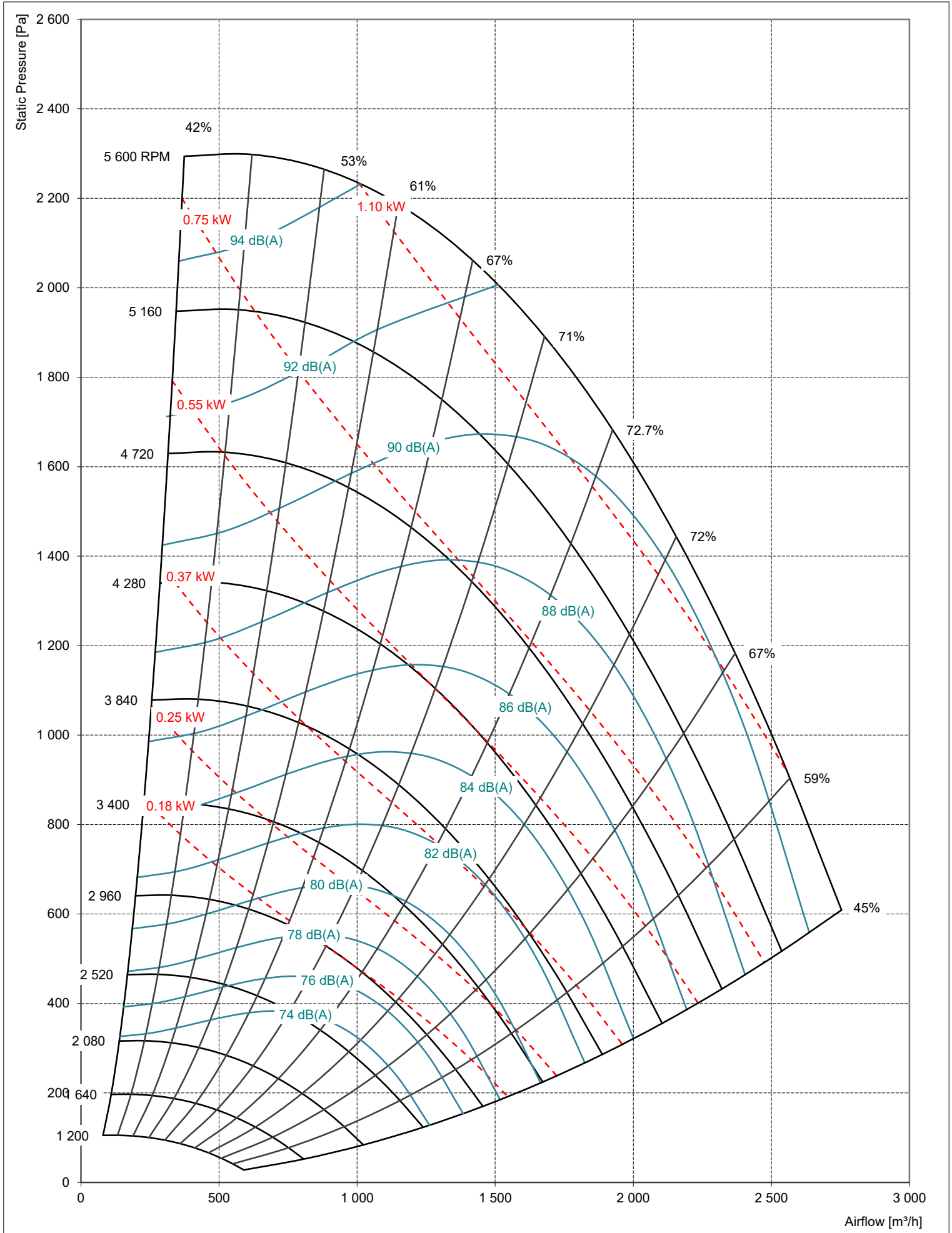
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SR-FI-##-###-####-#-####

Quick selection guide

24

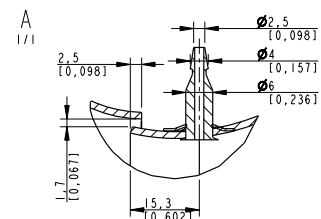
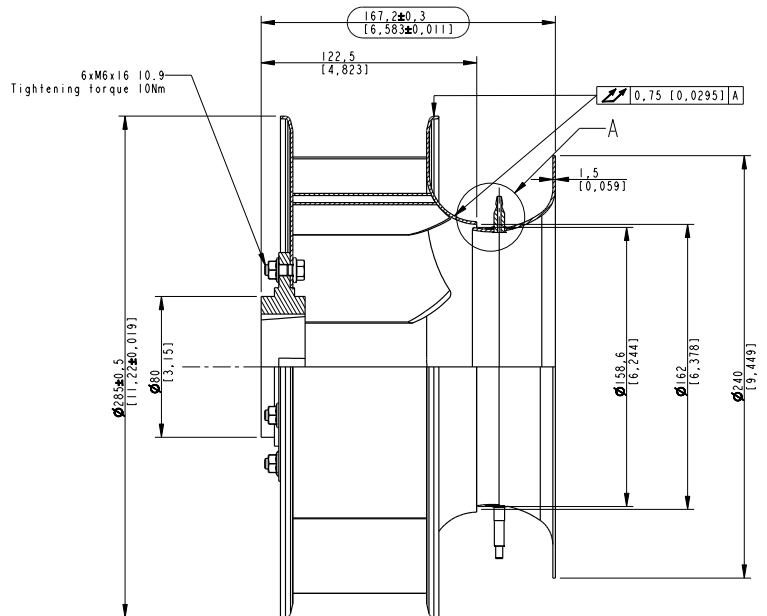
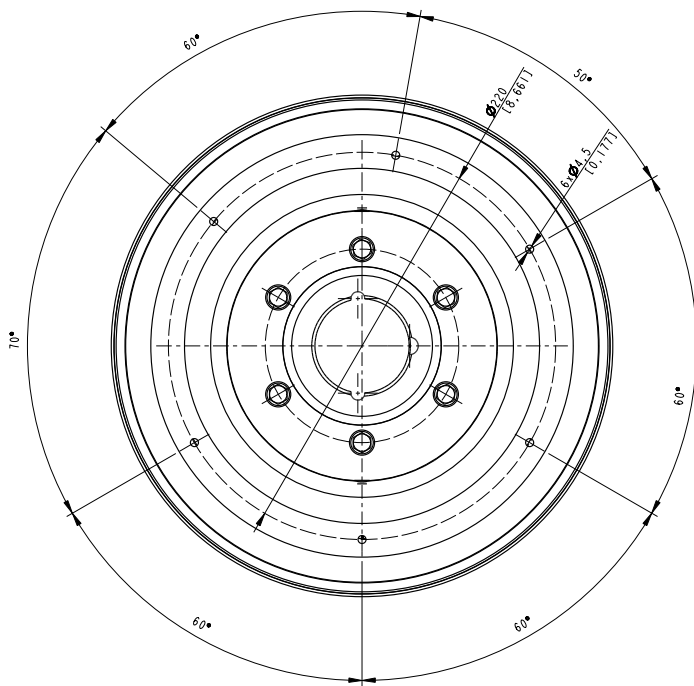
Performance Chart



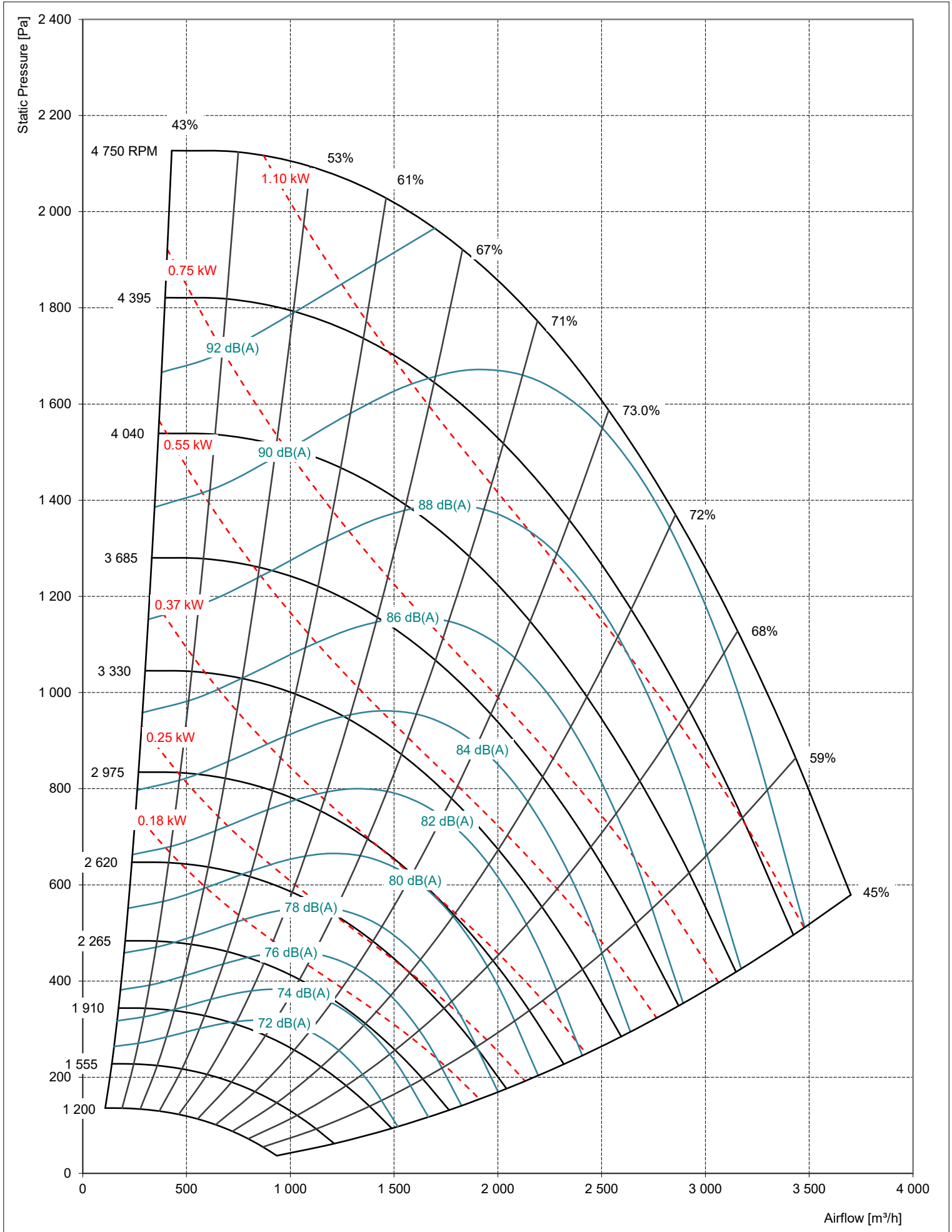
General specification

Fan Impeller Model	SR-FI-A7-250	Maximum rated revolutions	4 750 RPM
Fan Impeller Size	250 mm	Spinning direction	Clockwise, wiewed from air inlet
Impeller material	Aluminum	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Blade design / No of blades	Aerofoil / 7	Inlet Funnel Material	Hot-dip galvanized steel
Installation/Working position	Horizontal / Vertical shaft	Static pressure K-factor	64
Minimum airflow	108 m ³ /h	Number of static pressure probes	2
Maximum airflow	3 701 m ³ /h	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Maximum static pressure	2 127 Pa	System Mass (Impeller + inlet funnel)	2.43 kg

Apperance

Dimensions


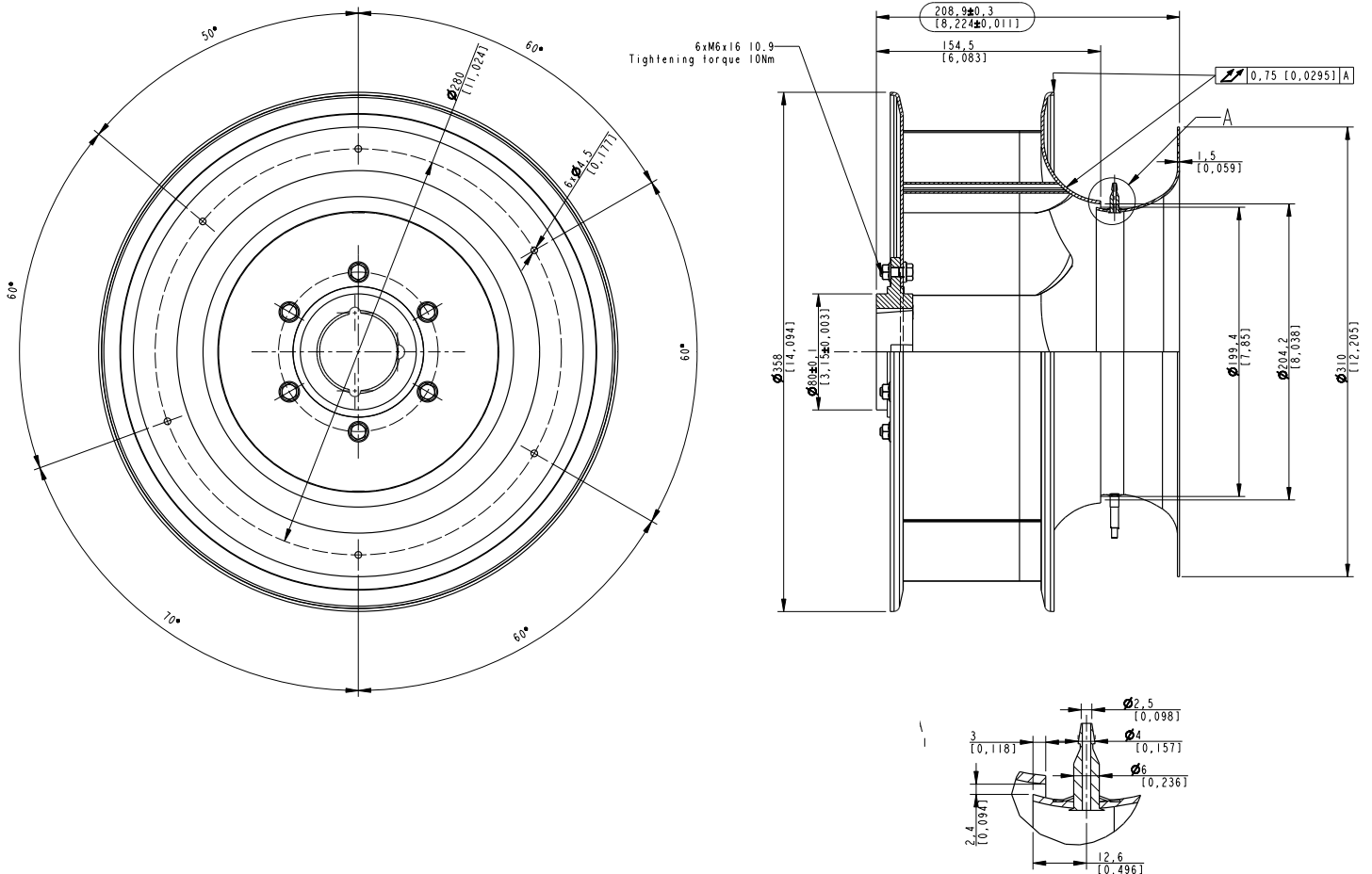
Performance Chart



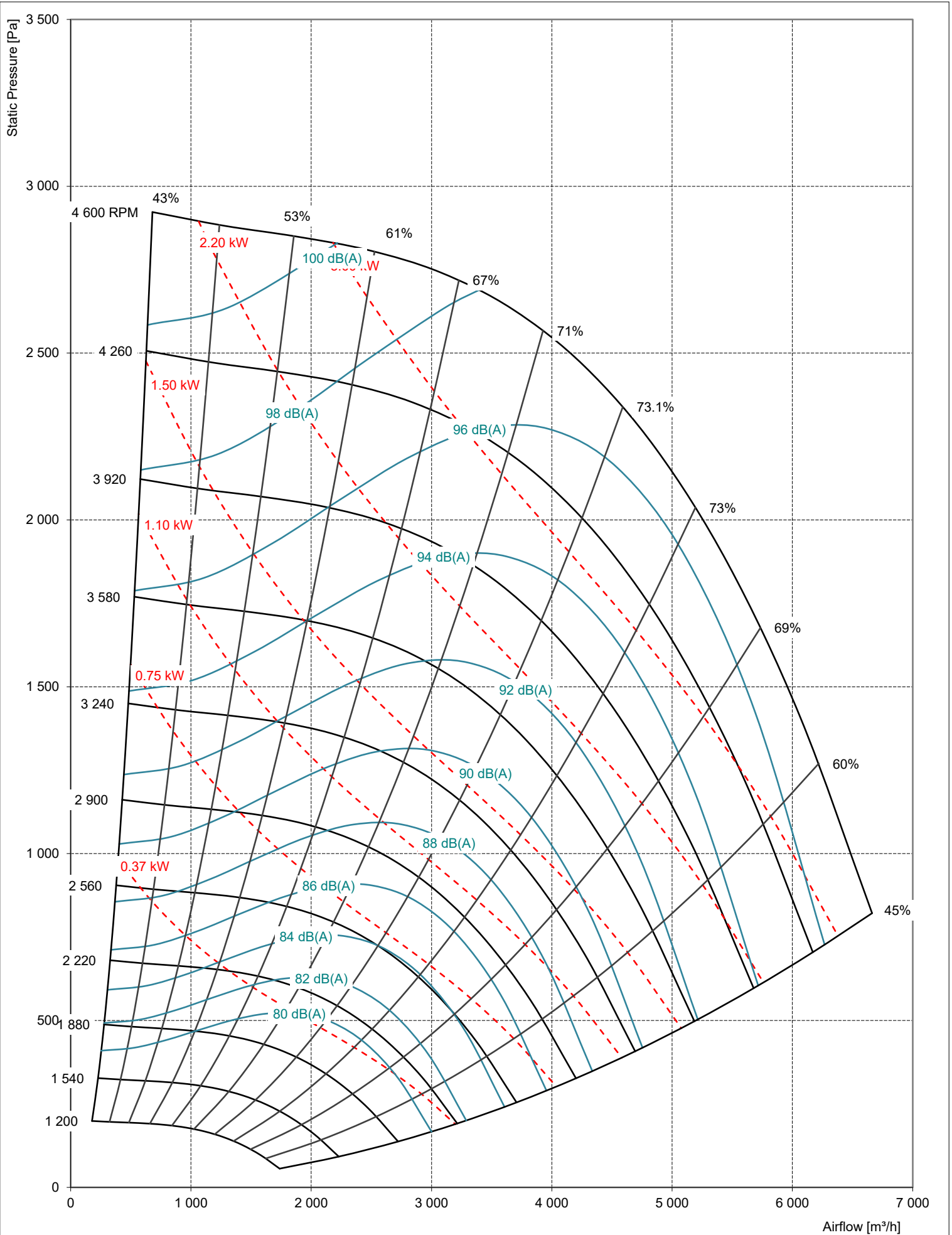
General specification

Fan Impeller Model	SR-FI-A7-315	Maximum rated revolutions	4 600 RPM
Fan Impeller Size	315 mm	Spinning direction	Clockwise, wiewed from air inlet
Impeller material	Aluminum	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Blade design / No of blades	Aerofoil / 7	Inlet Funnel Material	Hot-dip galvanized steel
Installation/Working position	Horizontal / Vertical shaft	Static pressure K-factor	96.5
Minimum airflow	177 m ³ /h	Number of static pressure probes	2
Maximum airflow	6 662 m ³ /h	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Maximum static pressure	2 923 Pa	System Mass (Impeller + inlet funnel)	3.60 kg

Apperance

Dimensions


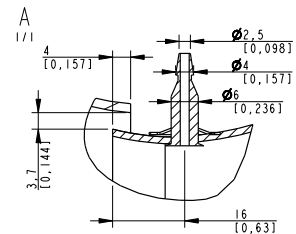
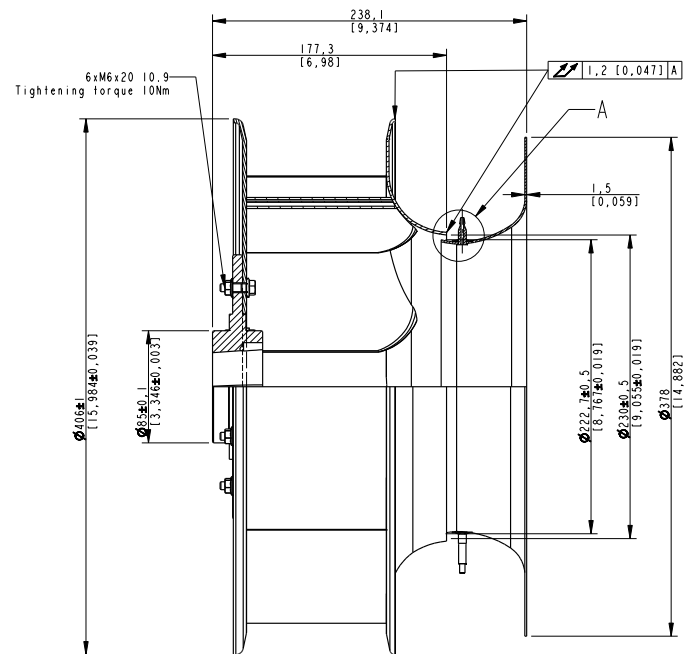
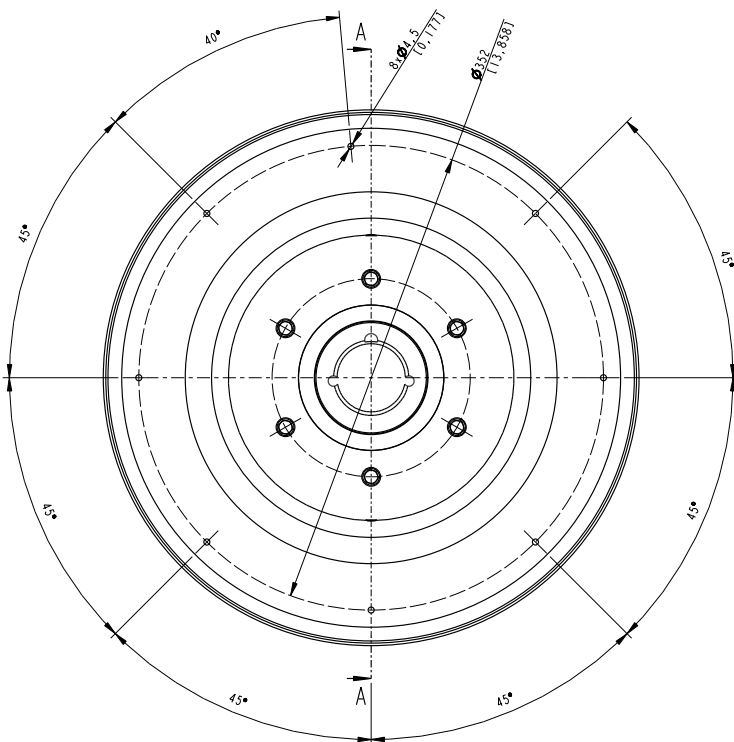
Performance Chart



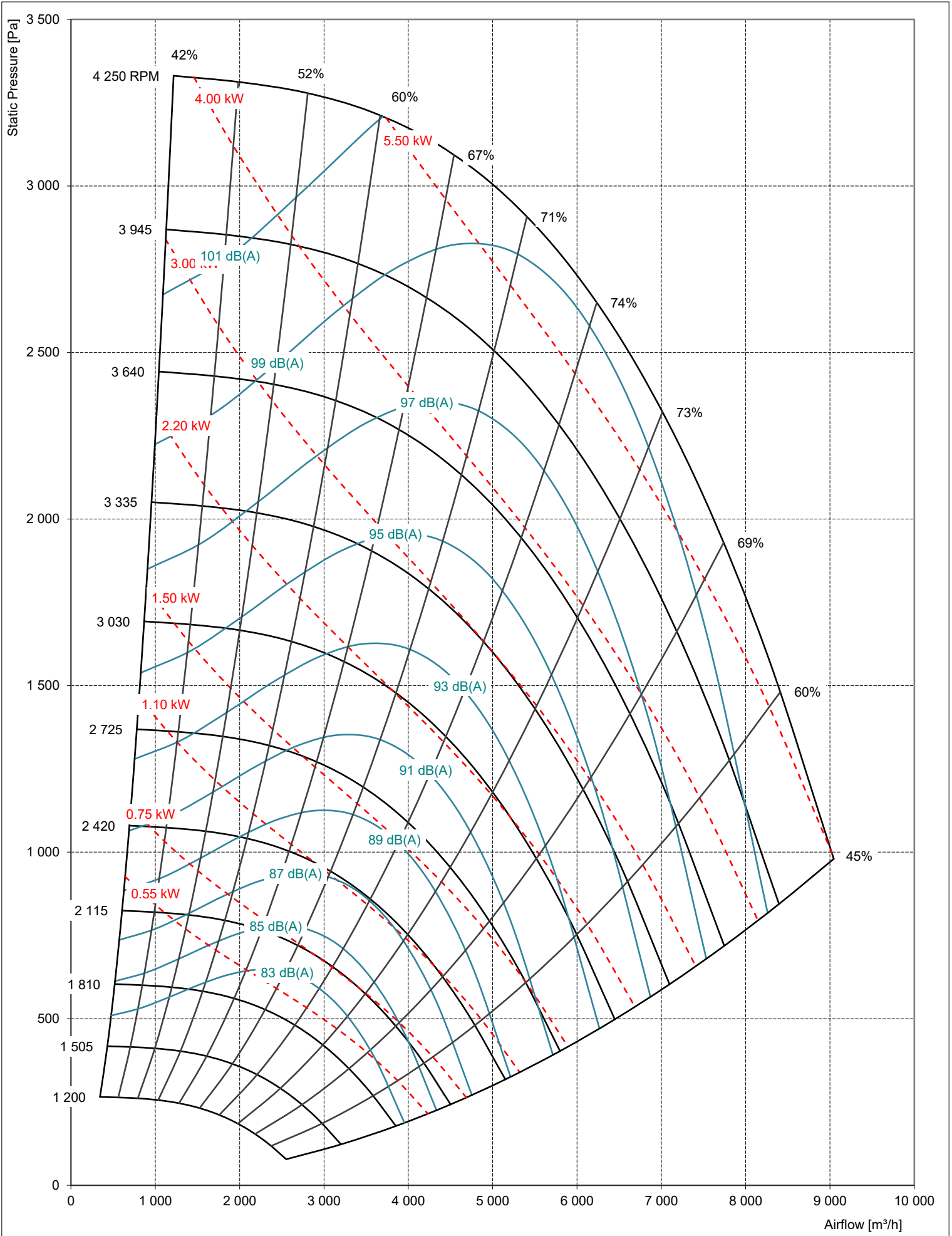
General specification

Fan Impeller Model	SR-FI-A7-355	Maximum rated revolutions	4 250 RPM
Fan Impeller Size	355 mm	Spinning direction	Clockwise, wiewed from air inlet
Impeller material	Aluminum	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Blade design / No of blades	Aerofoil / 7	Inlet Funnel Material	Hot-dip galvanized steel
Installation/Working position	Horizontal / Vertical shaft	Static pressure K-factor	128
Minimum airflow	343 m ³ /h	Number of static pressure probes	2
Maximum airflow	9 044 m ³ /h	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Maximum static pressure	3 331 Pa	System Mass (Impeller + inlet funnel)	6.42 kg

Apperance

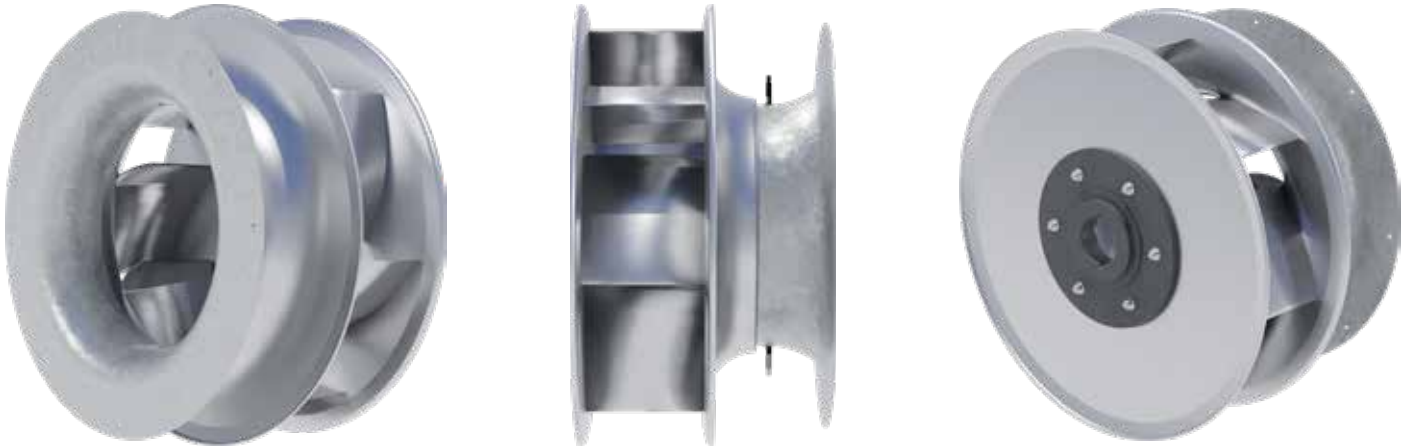
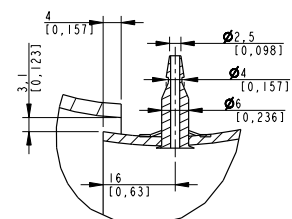
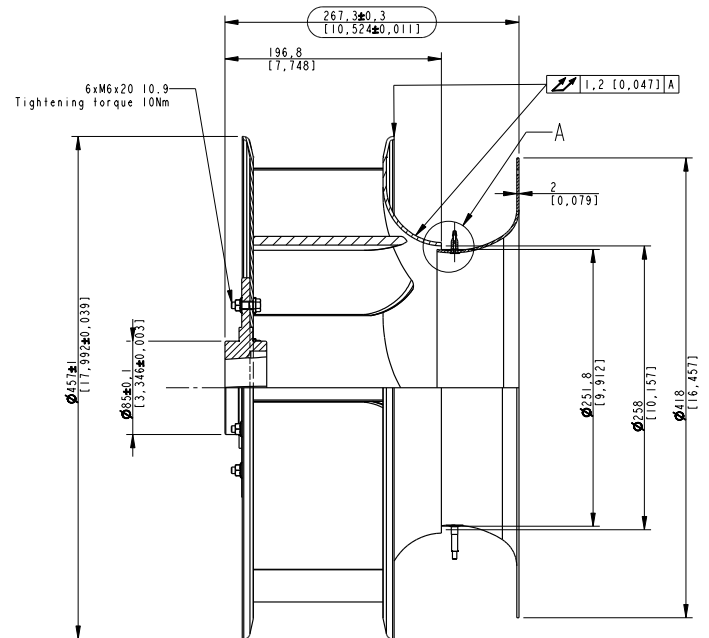
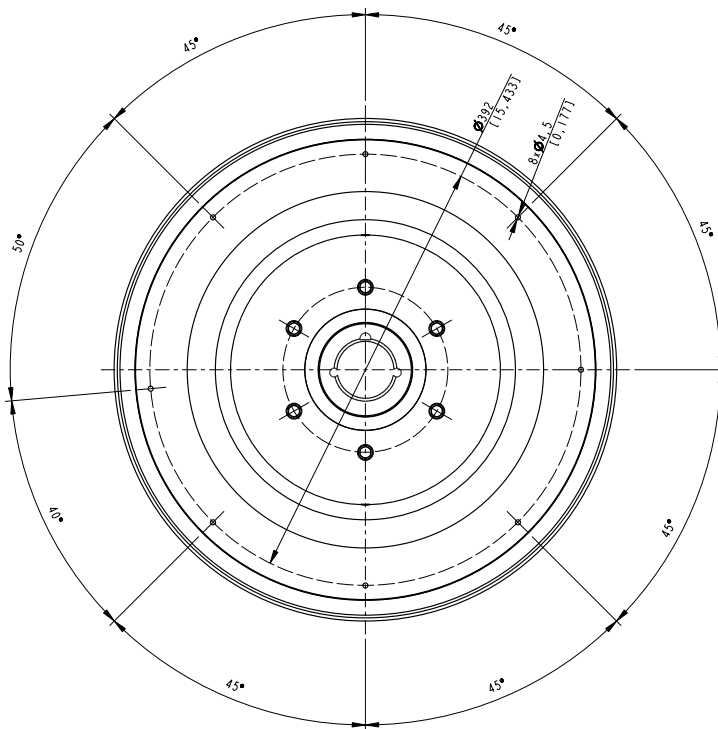
Dimensions


Performance Chart

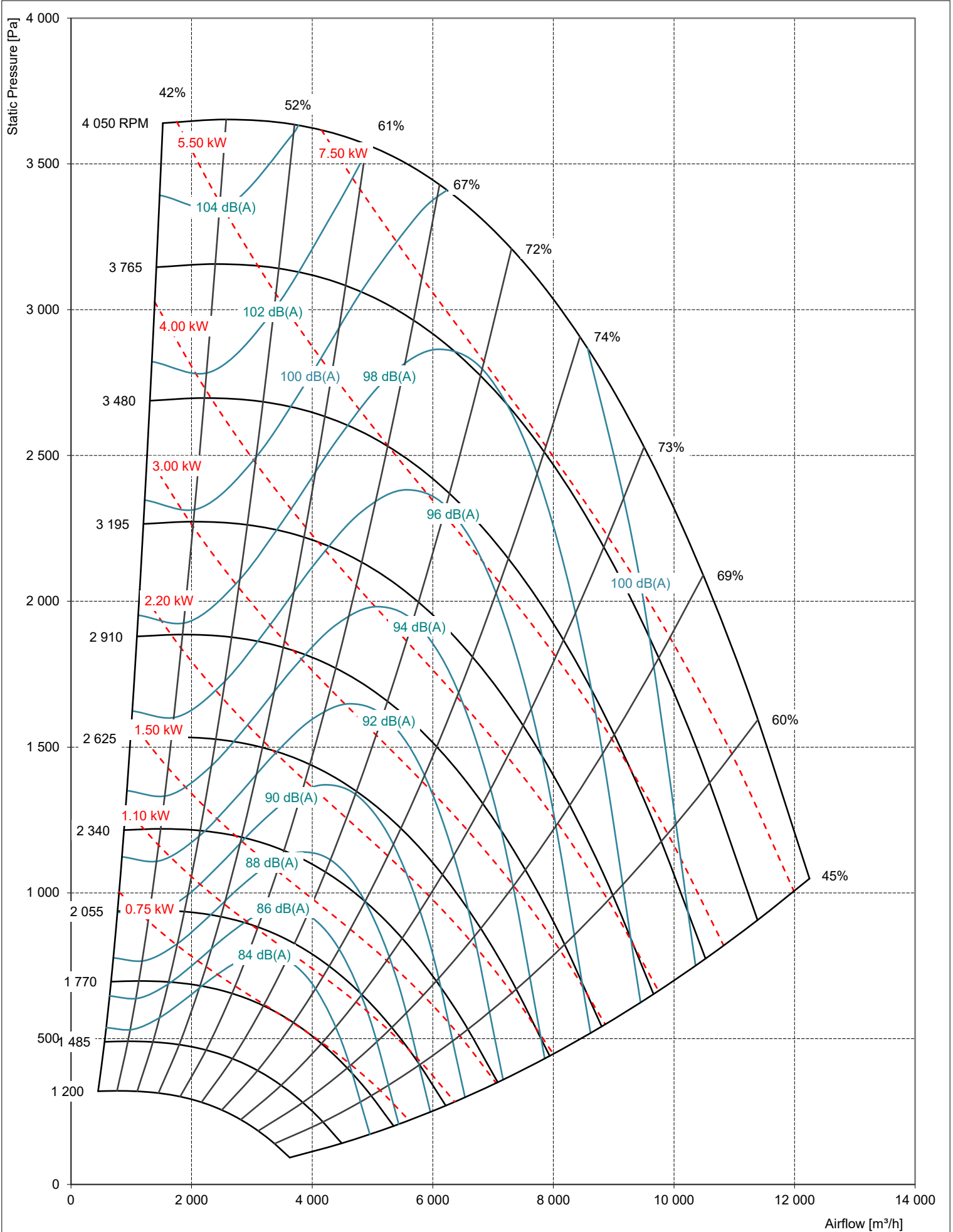


General specification

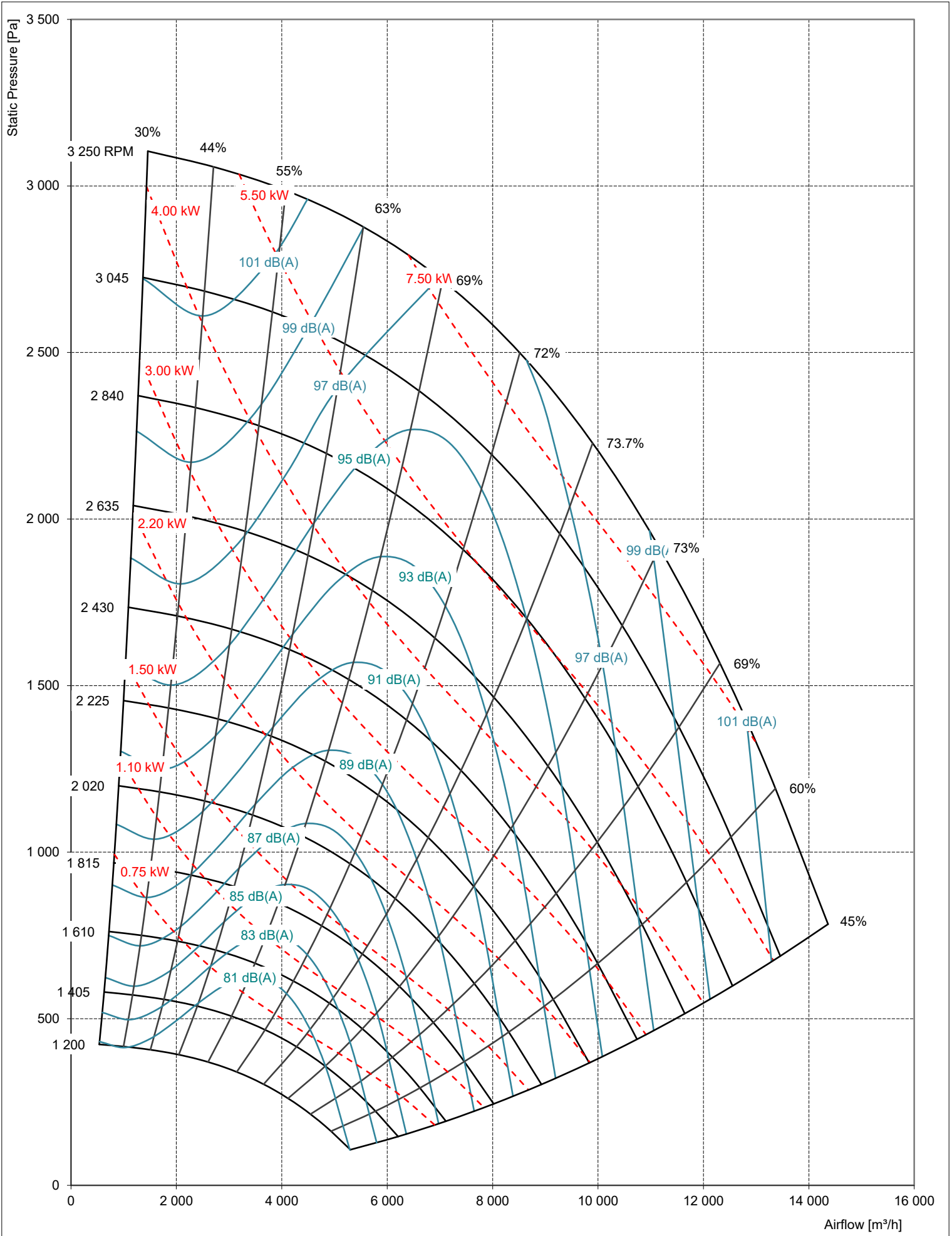
Fan Impeller Model	SR-FI-A7-400	Maximum rated revolutions	4 050 RPM
Fan Impeller Size	400 mm	Spinning direction	Clockwise, viewed from air inlet
Impeller material	Aluminum	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Blade design / No of blades	Aerofoil / 7	Inlet Funnel Material	Hot-dip galvanized steel
Installation/Working position	Horizontal / Vertical shaft	Static pressure K-factor	170
Minimum airflow	452 m ³ /h	Number of static pressure probes	2
Maximum airflow	12 248 m ³ /h	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Maximum static pressure	3 653 Pa	System Mass (Impeller + inlet funnel)	8.53 kg

Appearance

Dimensions


Performance Chart



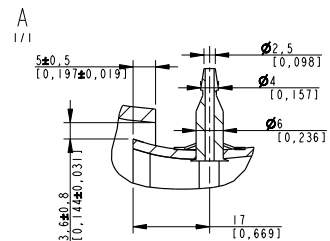
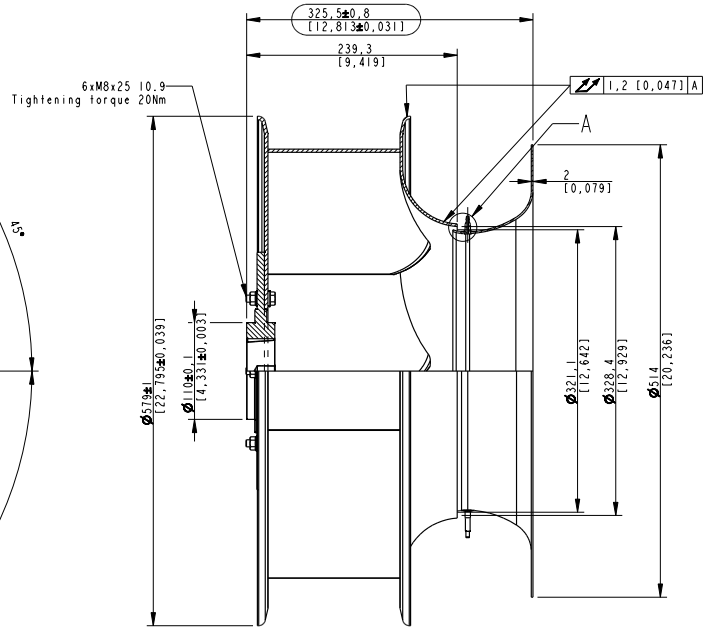
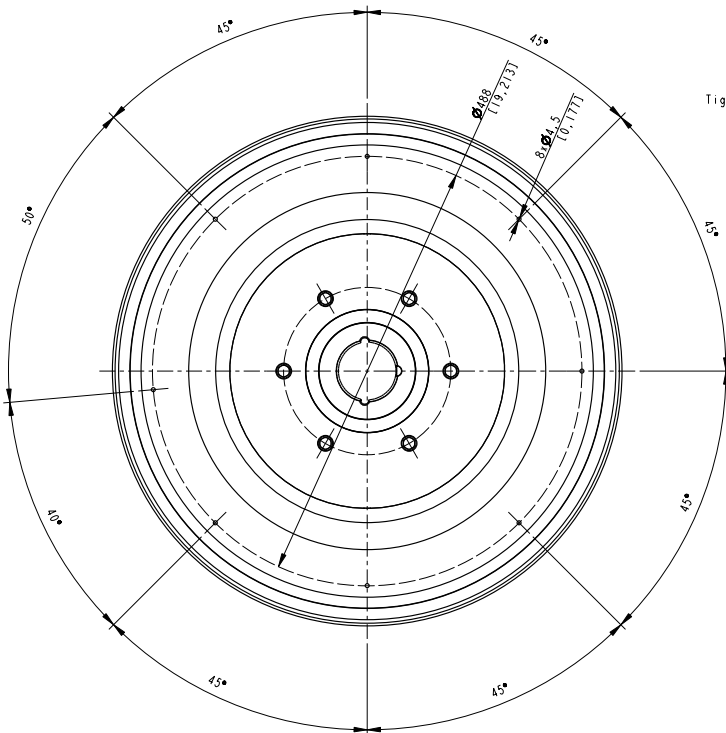
Performance Chart



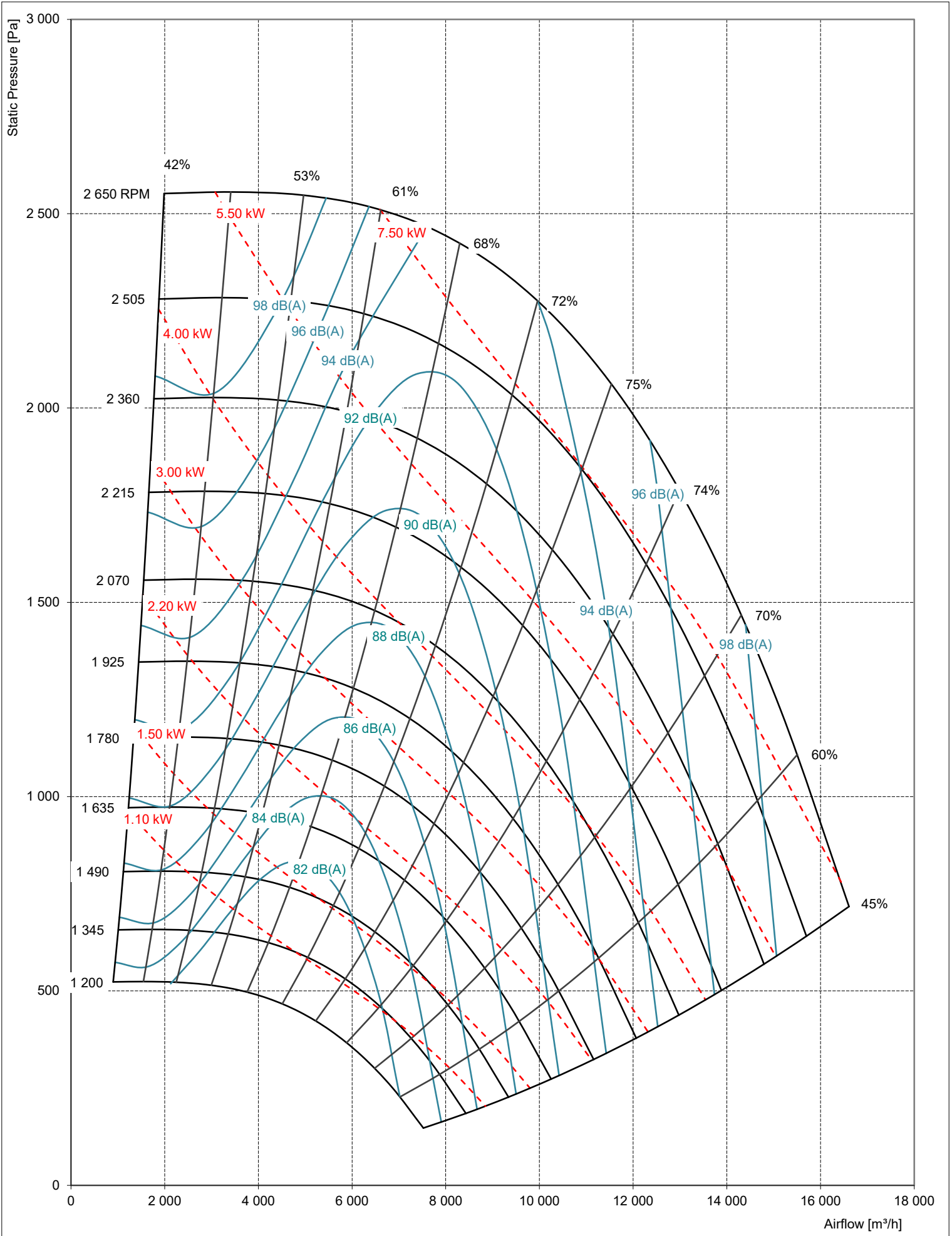
General specification

Fan Impeller Model	SR-FI-A7-500	Maximum rated revolutions	2 650 RPM
Fan Impeller Size	500 mm	Spinning direction	Clockwise, wiewed from air inlet
Impeller material	Aluminum	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Blade design / No of blades	Aerofoil / 7	Inlet Funnel Material	Hot-dip galvanized steel
Installation/Working position	Horizontal / Vertical shaft	Static pressure K-factor	252
Minimum airflow	900 m ³ /h	Number of static pressure probes	2
Maximum airflow	16 610 m ³ /h	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Maximum static pressure	2 556 Pa	System Mass (Impeller + inlet funnel)	12.15 kg

Apperance

Dimensions


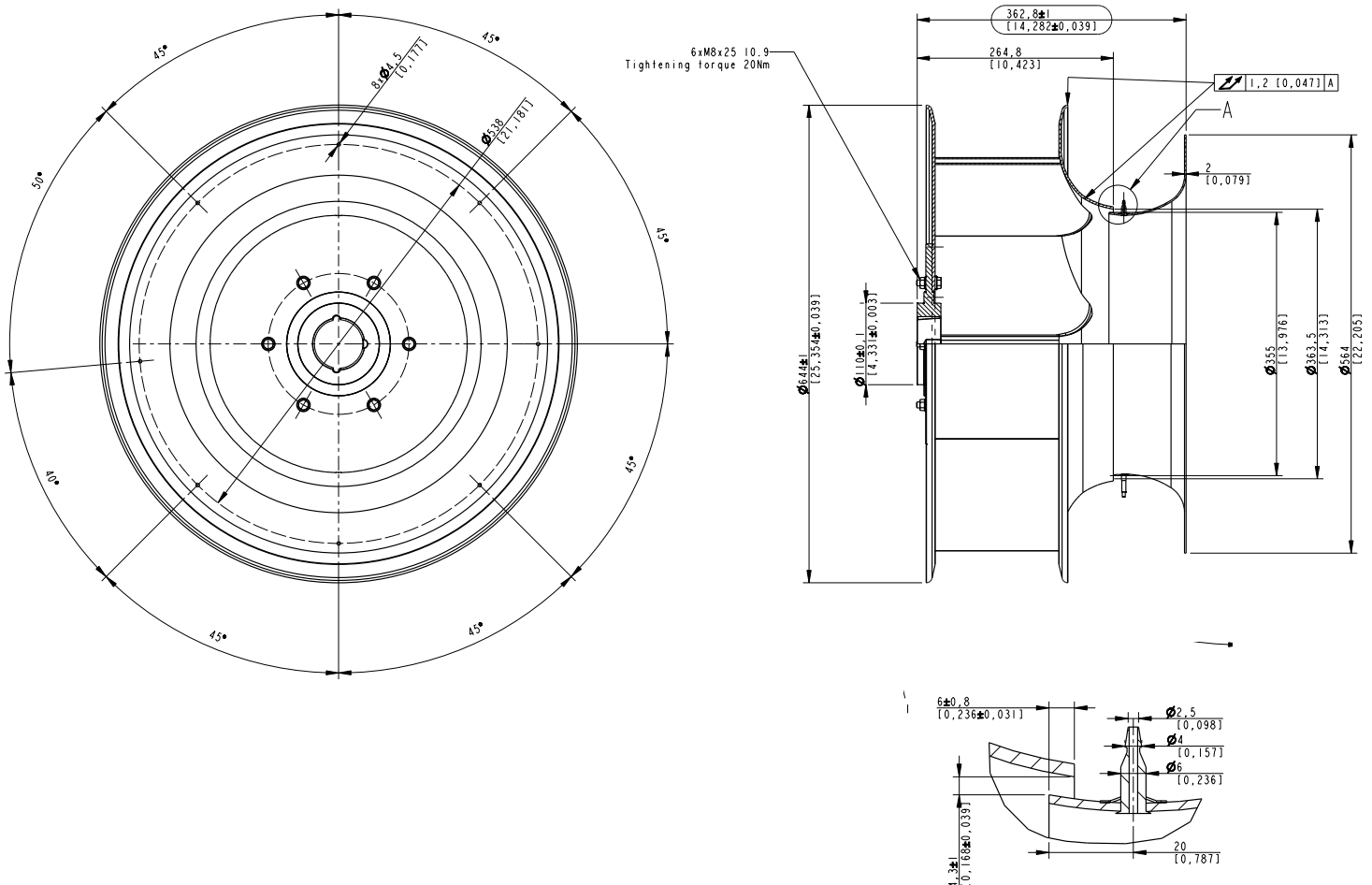
Performance Chart



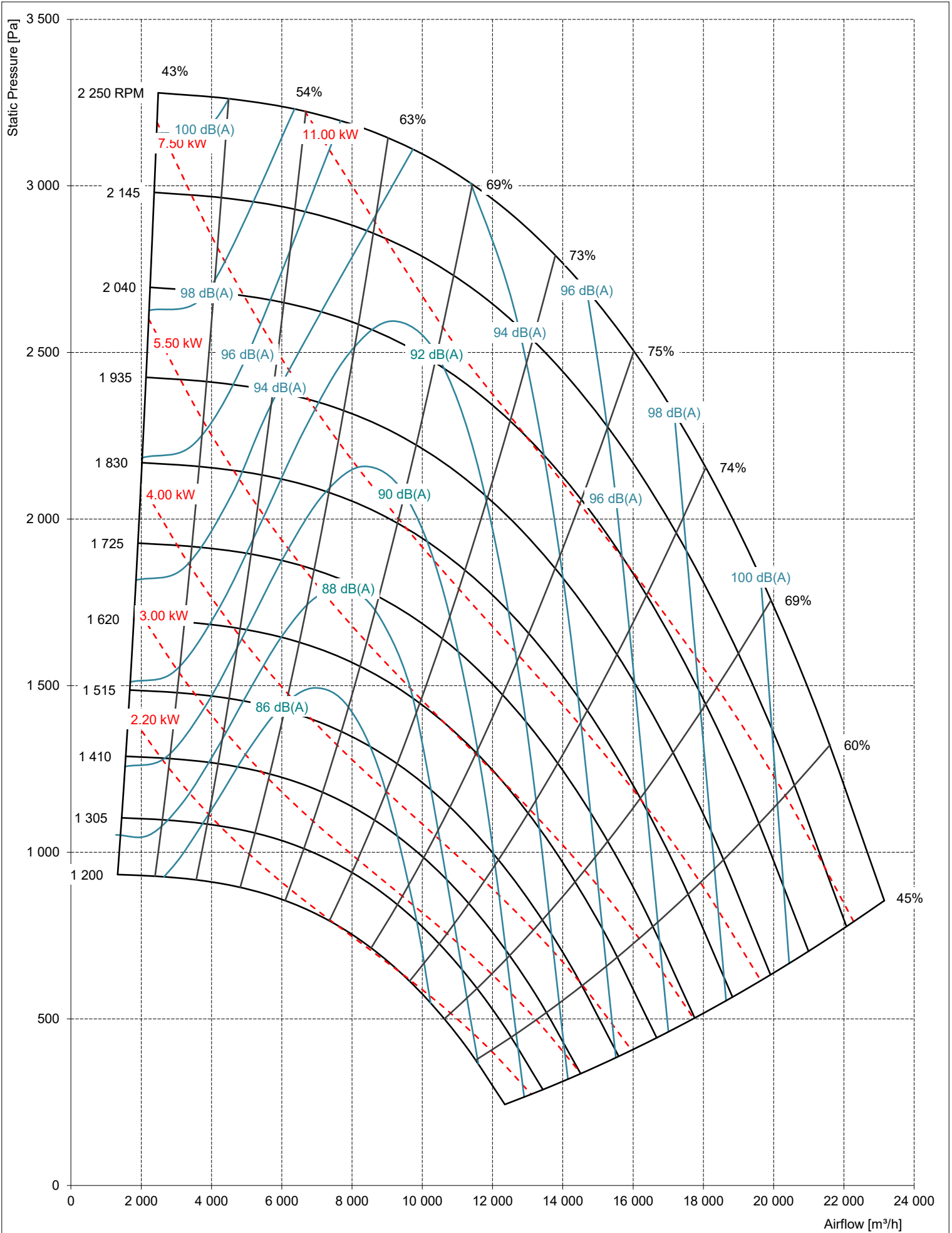
General specification

Fan Impeller Model	SR-FI-A7-560	Maximum rated revolutions	2 250 RPM
Fan Impeller Size	560 mm	Spinning direction	Clockwise, wiewed from air inlet
Impeller material	Aluminum	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Blade design / No of blades	Aerofoil / 7	Inlet Funnel Material	Hot-dip galvanized steel
Installation/Working position	Horizontal / Vertical shaft	Static pressure K-factor	330
Minimum airflow	1 326 m ³ /h	Number of static pressure probes	2
Maximum airflow	23 152 m ³ /h	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Maximum static pressure	3 279 Pa	System Mass (Impeller + inlet funnel)	14.36 kg

Apperance

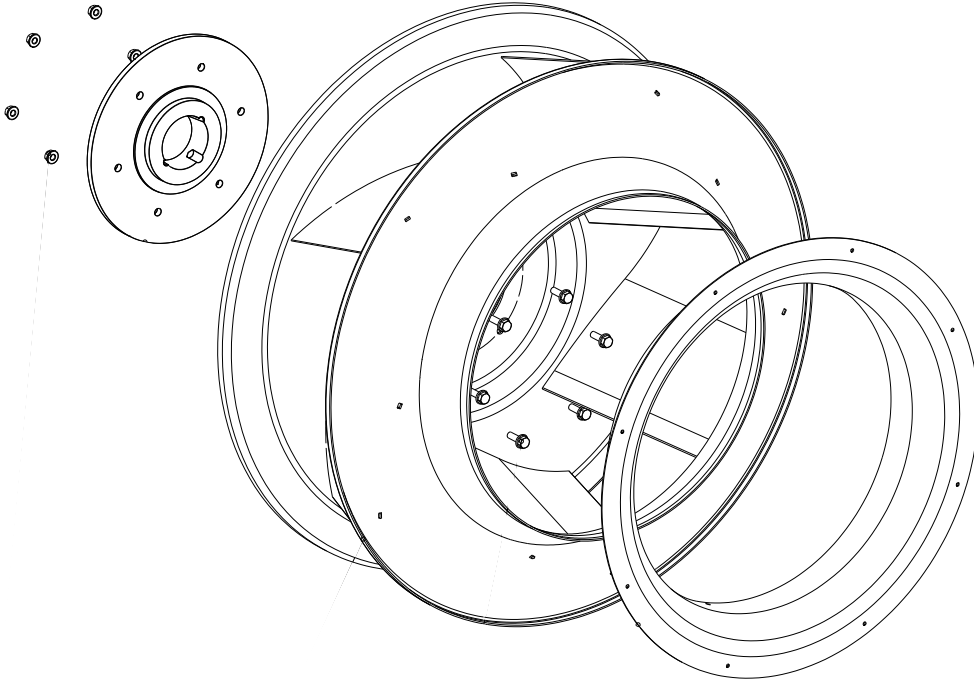
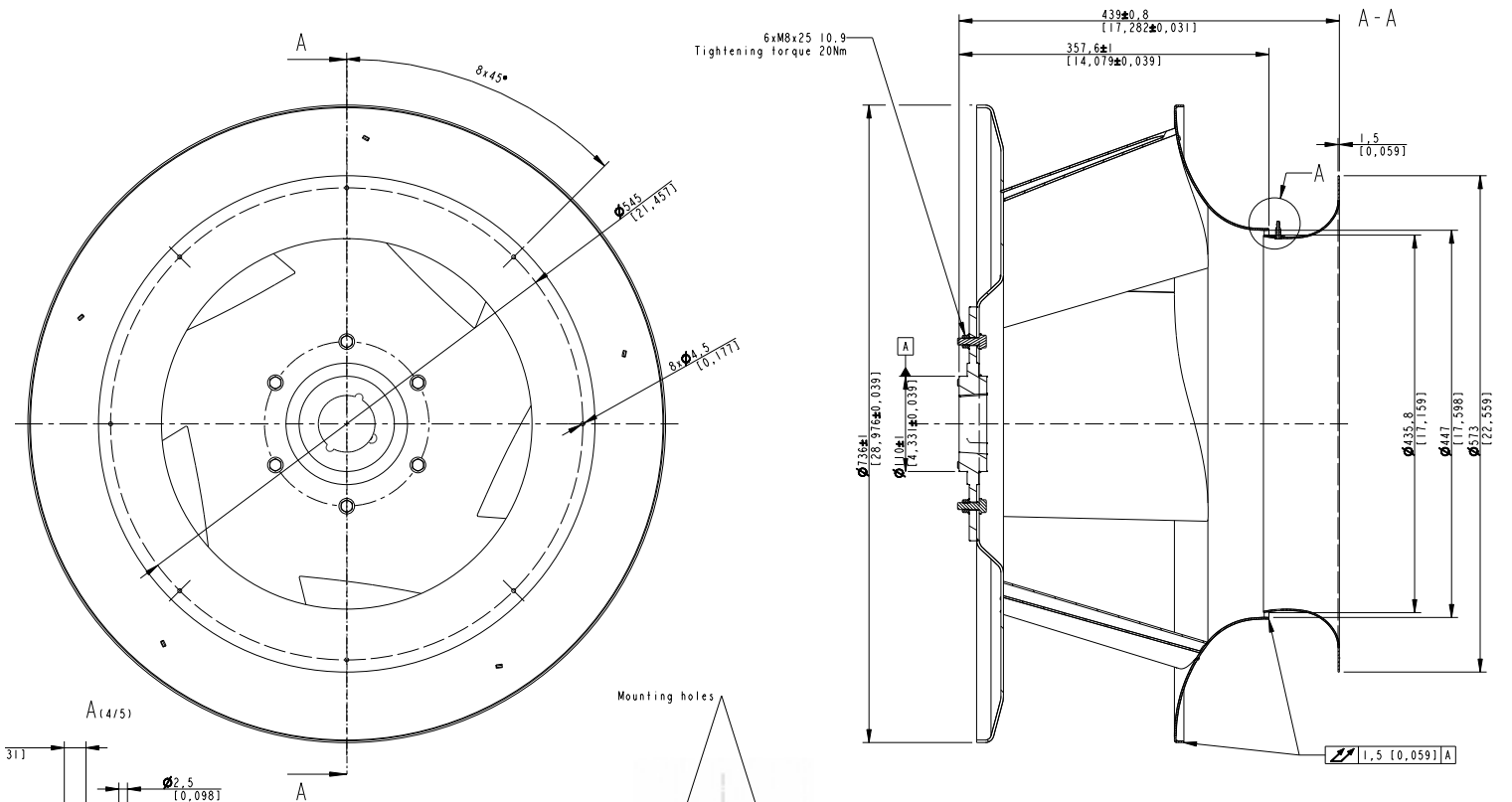
Dimensions


Performance Chart

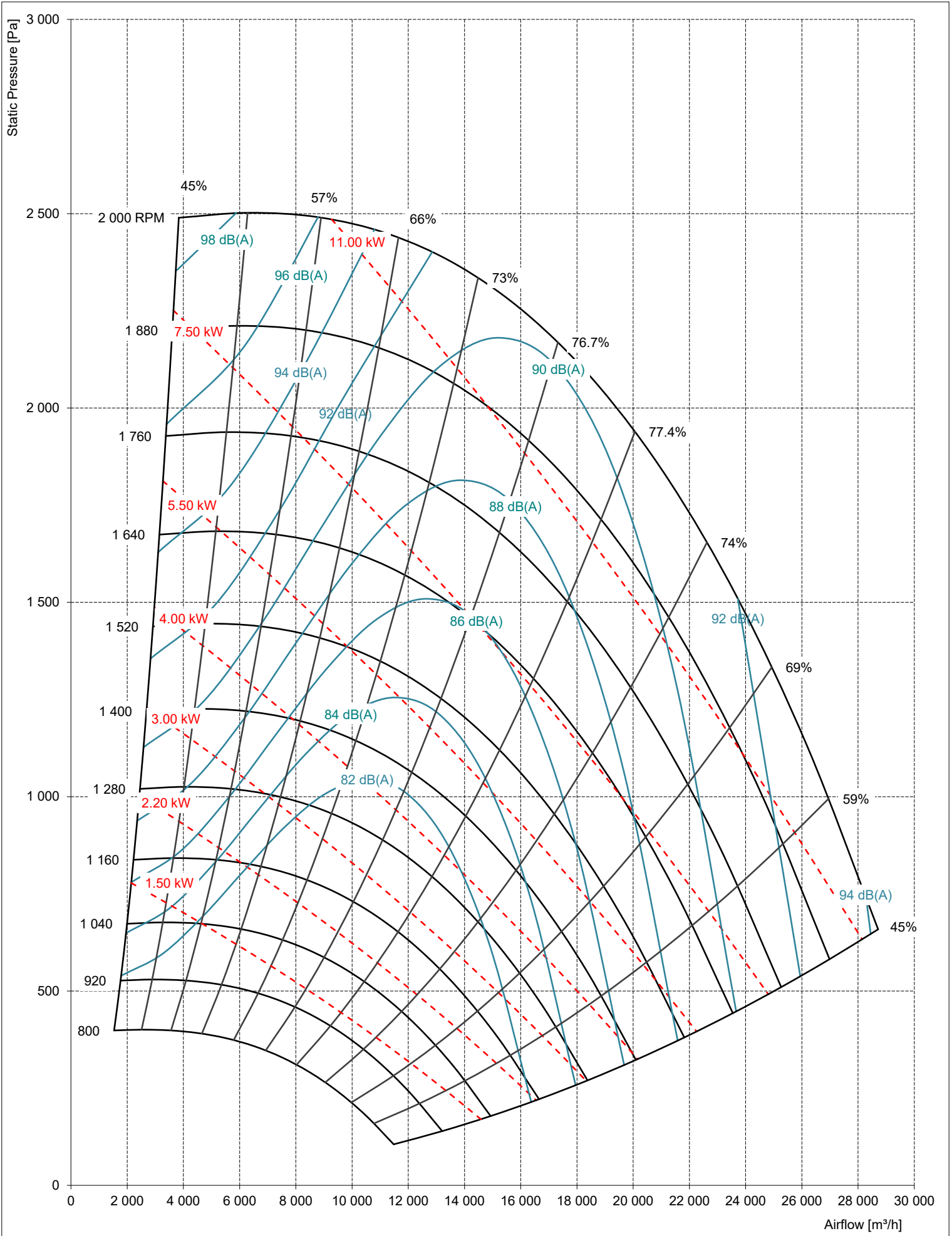


General specification

Fan Impeller Model	SR-FI-A5-630	Maximum rated revolutions	2 250 RPM
Fan Impeller Size	630 mm	Spinning direction	Clockwise, viewed from air inlet
Impeller material	Aluminum	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Blade design / No of blades	Aerofoil / 5	Inlet Funnel Material	Hot-dip galvanized steel
Installation/Working position	Horizontal / Vertical shaft	Static pressure K-factor	438
Minimum airflow	1 534 m ³ /h	Number of static pressure probes	2
Maximum airflow	28712 m ³ /h	Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Maximum static pressure	2 000 Pa	System Mass (Impeller + inlet funnel)	16,75 kg

Appearance

Dimensions


Performance Chart



Model Number

SR-FI-##-###-####-#-####

Taper Lock Bushing Bore diameter

NEMA Motors			IEC Motors	
0000	no Taper Lock bushing		0000	no Taper Lock bushing
0500	0.500"	1/2"	0014	14 mm
0625	0.625"	5/8"	0019	19 mm
0875	0.875"	7/8"	0024	24 mm
1125	1.125"	1-1/8"	0028	28 mm
1375	1.375"	1-3/8"	0038	38 mm
1625	1.625"	1-5/8"		

Motors Sizes system

0	No Motor System defined
N	NEMA Motors
I	IEC Motors

Bolt on Hub

0000	no Bolt on Hub
1610	BF16-1
1615	SM16-2
2012	SM20

Fan Impeller size

225	225 mm
250	250 mm
315	315 mm
355	355 mm
400	400 mm
450	450 mm
500	500 mm
560	560 mm
630	630 mm

Number of blades

5	Five Blades
7	Seven Blades

Fan Impeller material

A	Aluminum
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Fan Impeller range

SR-FI Swiss Rotors, Fan Impellers

Inlet Funnel with static pressure probes

Inlet Funnel	Application	Static Pressure Probes	Part No.
IF-FI-A-225	SR-FI-A7-225	2	1199586
IF-FI-A-250	SR-FI-A7-250	2	1199587
IF-FI-A-315	SR-FI-A7-315	2	1199588
IF-FI-A-355	SR-FI-A7-355	2	1206016
IF-FI-A-400	SR-FI-A7-400	2	1206017
IF-FI-A-450	SR-FI-A7-450	2	1206018
IF-FI-A-500	SR-FI-A7-500	2	1206019
IF-FI-A-560	SR-FI-A7-560	2	1206020
IF-FI-A-630	SR-FI-A5-630	2	1230898

Fan Impeller / No Bolt on Hub / No Taper Lock Bushing

Fan Impeller	Full Code	Part No.
SR-FI-A7-225	SR-FI-A7-225-0000-0-0000	1204493
SR-FI-A7-250	SR-FI-A7-250-0000-0-0000	1190920
SR-FI-A7-315	SR-FI-A7-315-0000-0-0000	1190930
SR-FI-A7-355	SR-FI-A7-355-0000-0-0000	1190940
SR-FI-A7-400	SR-FI-A7-400-0000-0-0000	1190950
SR-FI-A7-450	SR-FI-A7-450-0000-0-0000	1190960
SR-FI-A7-500	SR-FI-A7-500-0000-0-0000	1190970
SR-FI-A7-560	SR-FI-A7-560-0000-0-0000	1190980
SR-FI-A5-630	SR-FI-A5-630-0000-0-0000	1219246



Fan Impeller / Bolt on Hub / No Taper Lock Bushing

Fan Impeller	Bolt on Hub	Full Code	Part No.
SR-FI-A7-225	BF16-1	SR-FI-A7-225-1610-0-0000	1204512
SR-FI-A7-250	BF16-1	SR-FI-A7-250-1610-0-0000	1204563
SR-FI-A7-315	BF16-1	SR-FI-A7-315-1610-0-0000	1204608
SR-FI-A7-355	SM16-2	SR-FI-A7-355-1615-0-0000	1204630
SR-FI-A7-400	SM16-2	SR-FI-A7-400-1615-0-0000	1204640
SR-FI-A7-450	SM20	SR-FI-A7-450-2012-0-0000	1204642
SR-FI-A7-500	SM20	SR-FI-A7-500-2012-0-0000	1204661
SR-FI-A7-560	SM20	SR-FI-A7-560-2012-0-0000	1204672
SR-FI-A5-630	SM20	SR-FI-A5-630-2012-0-0000	1230895



*The Impeller - Taper Lock Bushings combinations shown below are standard. Combinations other than shown are available on request.

NEMA Motors



Fan Impeller / Bolt on Hub / Taper Lock Bushing

NEMA Motors					
Fan Impeller	Bolt on Hub	Bore Diameter	Taper Lock Bushing	Full Code	Part No.
SR-FI-A7-225	BF16-1	1/2"	1610-1/2" (0.500")	SR-FI-A7-225-1610-N-0500	1218186
		5/8"	1610-5/8" (0.625")	SR-FI-A7-225-1610-N-0625	1218187
		7/8"	1610-7/8" (0.875")	SR-FI-A7-225-1610-N-0875	1218188
		1-1/8"	1610-1-1/8" (1.125")	SR-FI-A7-225-1610-N-1125	1218189
SR-FI-A7-250	BF16-1	1/2"	1610-1/2" (0.500")	SR-FI-A7-250-1610-N-0500	1218190
		5/8"	1610-5/8" (0.625")	SR-FI-A7-250-1610-N-0625	1218191
		7/8"	1610-7/8" (0.875")	SR-FI-A7-250-1610-N-0875	1218192
SR-FI-A7-315	BF16-1	1/2"	1610-1/2" (0.500")	SR-FI-A7-315-1610-N-0500	1218193
		5/8"	1610-5/8" (0.625")	SR-FI-A7-315-1610-N-0625	1218194
		7/8"	1610-7/8" (0.875")	SR-FI-A7-315-1610-N-0875	1218195
		1-1/8"	1610-1-1/8" (1.125")	SR-FI-A7-315-1610-N-1125	1218196
SR-FI-A7-355	SM16-2	1/2"	1615-1/2" (0.500")	SR-FI-A7-355-1615-N-0500	1218197
		5/8"	1615-5/8" (0.625")	SR-FI-A7-355-1615-N-0625	1218198
		7/8"	1615-7/8" (0.875")	SR-FI-A7-355-1615-N-0875	1218199
		1-1/8"	1615-1-1/8" (1.125")	SR-FI-A7-355-1615-N-1125	1218200
		1-3/8"	1615-1-3/8" (1.375")	SR-FI-A7-355-1615-N-1375	1218201
SR-FI-A7-400	SM16-2	5/8"	1615-5/8" (0.625")	SR-FI-A7-400-1615-N-0625	1218202
		7/8"	1615-7/8" (0.875")	SR-FI-A7-400-1615-N-0875	1218203
		1-1/8"	1615-1-1/8" (1.125")	SR-FI-A7-400-1615-N-1125	1218204
		1-3/8"	1615-1-3/8" (1.375")	SR-FI-A7-400-1615-N-1375	1218205
		1-5/8"	1615-1-5/8" (1.625")	SR-FI-A7-400-1615-N-1625	1218206
SR-FI-A7-450	SM20	7/8"	2012-7/8" (0.875")	SR-FI-A7-450-2012-N-0875	1218207
		1-1/8"	2012-1-1/8" (1.125")	SR-FI-A7-450-2012-N-1125	1218208
		1-3/8"	2012-1-3/8" (1.375")	SR-FI-A7-450-2012-N-1375	1218209
		1-5/8"	2012-1-5/8" (1.625")	SR-FI-A7-450-2012-N-1625	1218210
SR-FI-A7-500	SM20	7/8"	2012-7/8" (0.875")	SR-FI-A7-500-2012-N-0875	1218211
		1-1/8"	2012-1-1/8" (1.125")	SR-FI-A7-500-2012-N-1125	1218212
		1-3/8"	2012-1-3/8" (1.375")	SR-FI-A7-500-2012-N-1375	1218213
		1-5/8"	2012-1-5/8" (1.625")	SR-FI-A7-500-2012-N-1625	1218214
SR-FI-A7-560	SM20	7/8"	2012-7/8" (0.875")	SR-FI-A7-560-2012-N-0875	1218215
		1-1/8"	2012-1-1/8" (1.125")	SR-FI-A7-560-2012-N-1125	1218216
		1-3/8"	2012-1-3/8" (1.375")	SR-FI-A7-560-2012-N-1375	1218217
		1-5/8"	2012-1-5/8" (1.625")	SR-FI-A7-560-2012-N-1625	1218218
SR-FI-A5-630	SM20	1-1/8"	2012-1-1/8" (1.125")	SR-FI-A5-630-2012-N-1125	1231240
		1-3/8"	2012-1-3/8" (1.375")	SR-FI-A5-630-2012-N-1375	1231241
		1-5/8"	2012-1-5/8" (1.625")	SR-FI-A5-630-2012-N-1625	1231242

Fan Impeller / Bolt on Hub / Taper Lock Bushing

IEC Motors



IEC Motors					
Fan Impeller	Bolt on Hub	Bore Diameter	Taper Lock Bushing	Full Code	Part No.
SR-FI-A7-225	BF16-1	14 mm	1610-14	SR-FI-A7-225-1610-I-0014	1218345
		19 mm	1610-19	SR-FI-A7-225-1610-I-0019	1218346
		24 mm	1610-24	SR-FI-A7-225-1610-I-0024	1218347
SR-FI-A7-250	BF16-1	14 mm	1610-14	SR-FI-A7-250-1610-I-0014	1218348
		19 mm	1610-19	SR-FI-A7-250-1610-I-0019	1218349
		24 mm	1610-24	SR-FI-A7-250-1610-I-0024	1218350
SR-FI-A7-315	BF16-1	14 mm	1610-14	SR-FI-A7-315-1610-I-0014	1218351
		19 mm	1610-19	SR-FI-A7-315-1610-I-0019	1218352
		24 mm	1610-24	SR-FI-A7-315-1610-I-0024	1218353
		28 mm	1610-28	SR-FI-A7-315-1610-I-0028	1218354
SR-FI-A7-355	SM16-2	14 mm	1615-14	SR-FI-A7-355-1615-I-0014	1218355
		19 mm	1615-19	SR-FI-A7-355-1615-I-0019	1218356
		24 mm	1615-24	SR-FI-A7-355-1615-I-0024	1218357
		28 mm	1615-28	SR-FI-A7-355-1615-I-0028	1218358
		38 mm	1615-38	SR-FI-A7-355-1615-I-0038	1218359
		42 mm	1615-42	SR-FI-A7-355-1615-I-0042	1218360
SR-FI-A7-400	SM16-2	19 mm	1615-19	SR-FI-A7-400-1615-I-0019	1218361
		24 mm	1615-24	SR-FI-A7-400-1615-I-0024	1218362
		28 mm	1615-28	SR-FI-A7-400-1615-I-0028	1218363
		38 mm	1615-38	SR-FI-A7-400-1615-I-0038	1218364
SR-FI-A7-450	SM20	42 mm	1615-42	SR-FI-A7-400-1615-I-0042	1218365
		19 mm	2012-19	SR-FI-A7-450-2012-I-0019	1218366
		24 mm	2012-24	SR-FI-A7-450-2012-I-0024	1218367
		28 mm	2012-28	SR-FI-A7-450-2012-I-0028	1218368
		38 mm	2012-38	SR-FI-A7-450-2012-I-0038	1218369
SR-FI-A7-500	SM20	42 mm	2012-42	SR-FI-A7-450-2012-I-0042	1218370
		24 mm	2012-24	SR-FI-A7-500-2012-I-0024	1218372
		28 mm	2012-28	SR-FI-A7-500-2012-I-0028	1218373
		38 mm	2012-38	SR-FI-A7-500-2012-I-0038	1218374
SR-FI-A7-560	SM20	42 mm	2012-42	SR-FI-A7-500-2012-I-0042	1218375
		28 mm	2012-28	SR-FI-A7-560-2012-I-0028	1218376
		38 mm	2012-38	SR-FI-A7-560-2012-I-0038	1218377
SR-FI-A5-630	SM20	42 mm	2012-42	SR-FI-A7-560-2012-I-0042	1218378
		28 mm	2012-28	SR-FI-A5-630-2012-I-0028	1231245
		38 mm	2012-38	SR-FI-A5-630-2012-I-0038	1231246
		42 mm	2012-42	SR-FI-A5-630-2012-I-0042	1231247

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