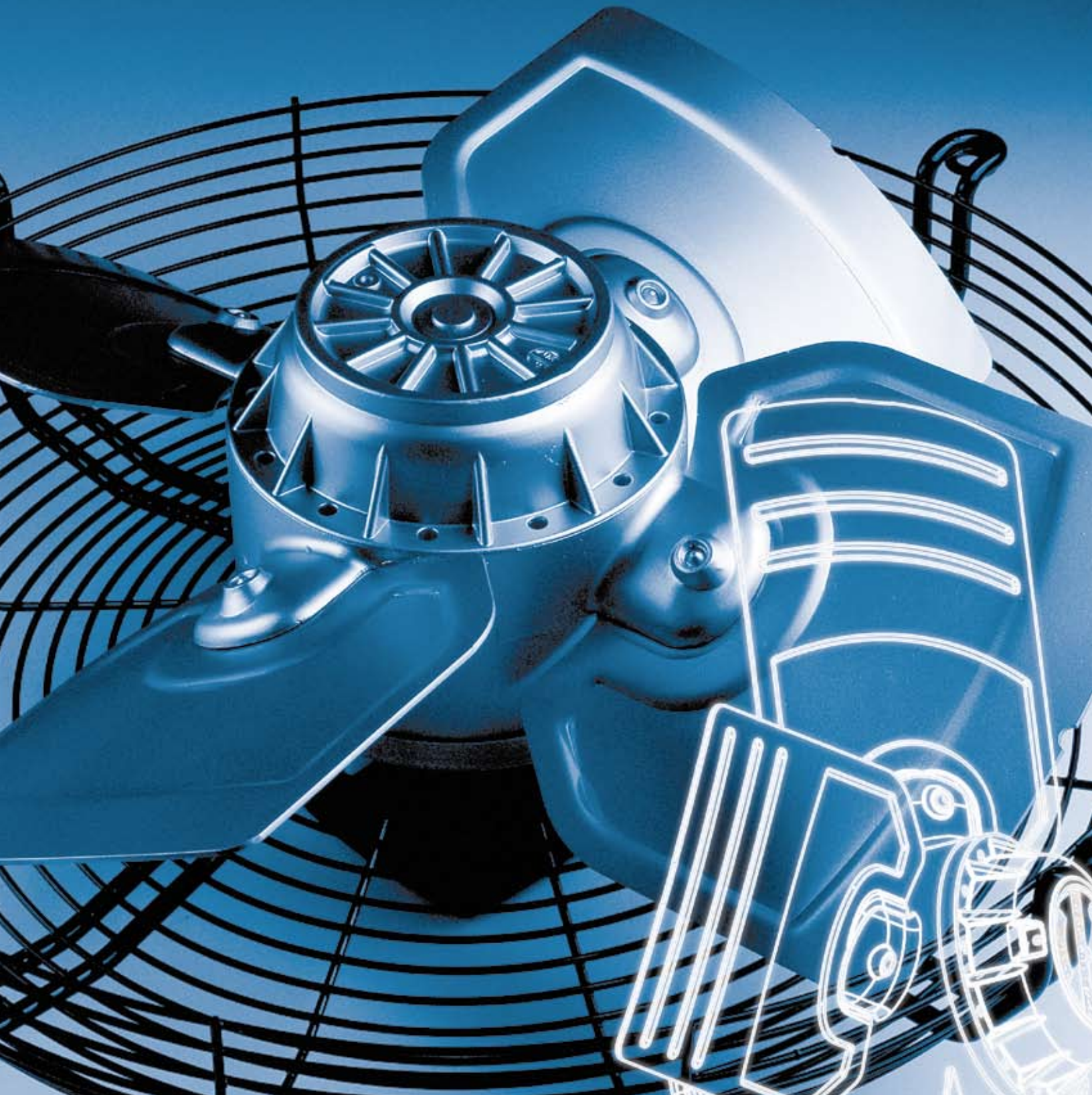
Technical data

Axial fans
Series FB



Axial fans
Design FB

Contents of delivery

Standard version

Voltage
1~ 115 V
3~ 265/460 V Δ/Y

Frequency
60 Hz

Thermal insulation class
155 (previous: insulation class F)

Protection
IP 54

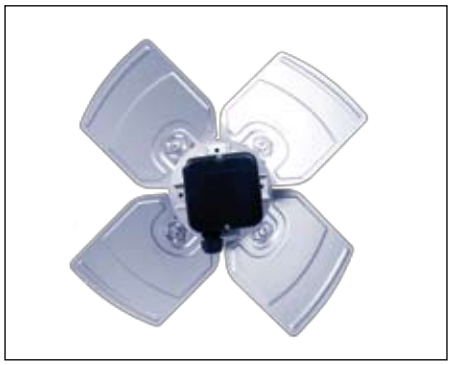
Motor protection
Thermostat switch (TB)

Paint finish
Standard design without paint finish

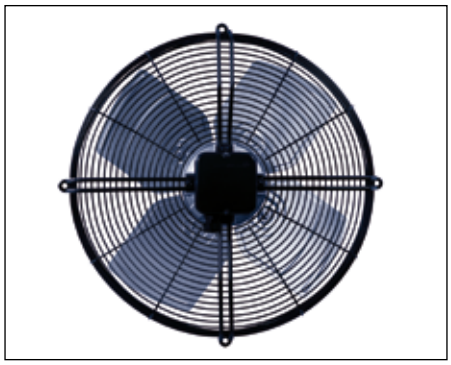
Accessories
See section Accessories

Necessary order data
Article no., Type

On request, at extra charge
- Different voltage to 115 resp. 460 V
- 50 Hz
- Paint finish, RAL 9005, black



FB... design A

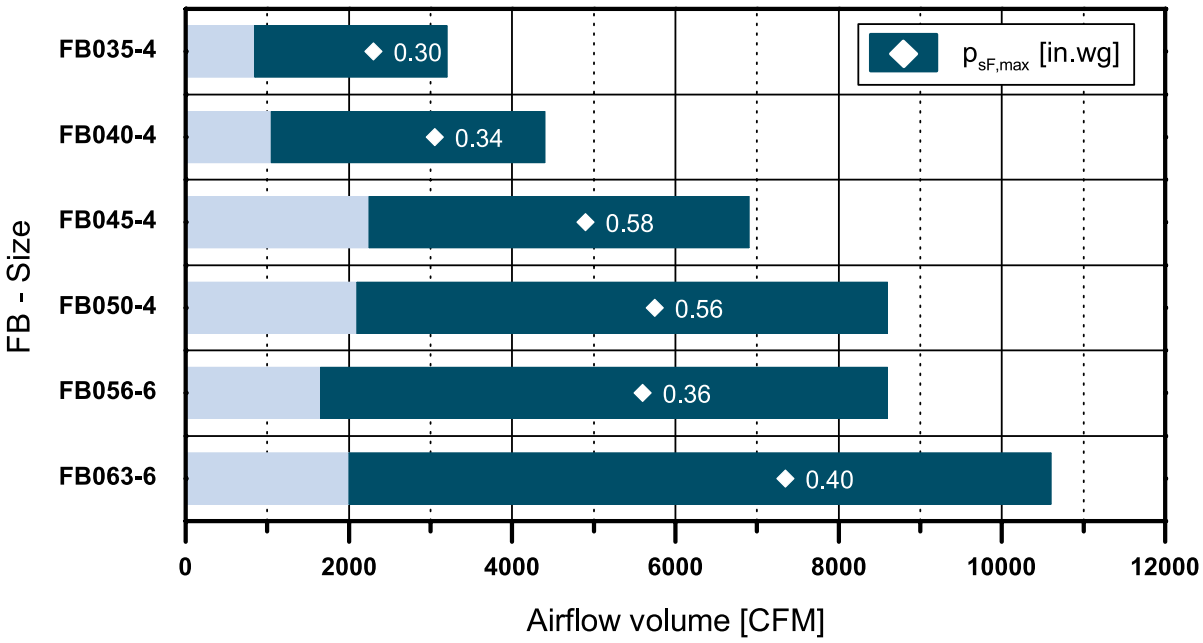


FB... design K

FB

ZIEHL-ABEGG

Quick selection



FB

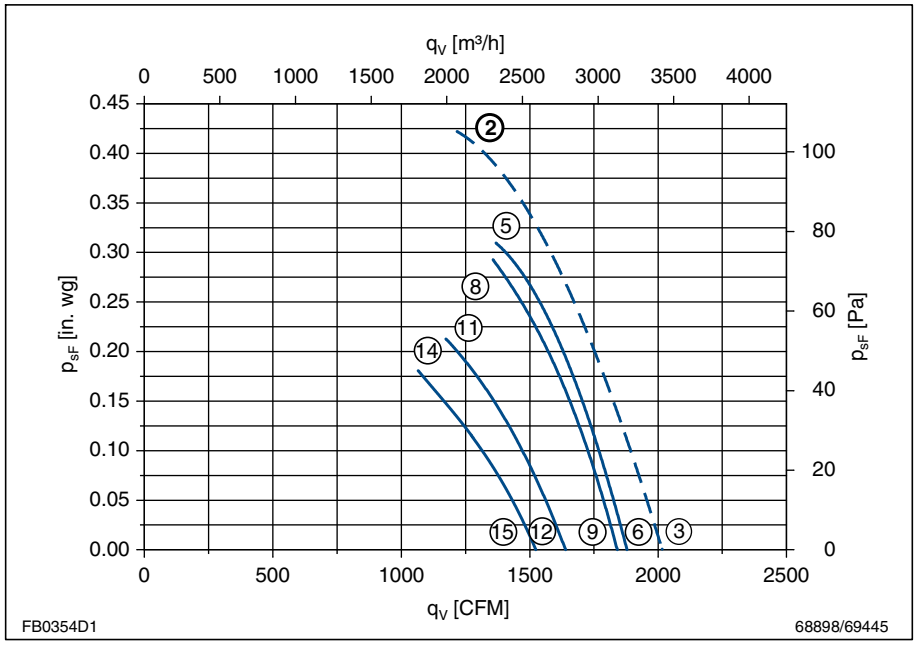
FB035-4D_.2C._4P

Performance data

3 ~ 460V 60Hz

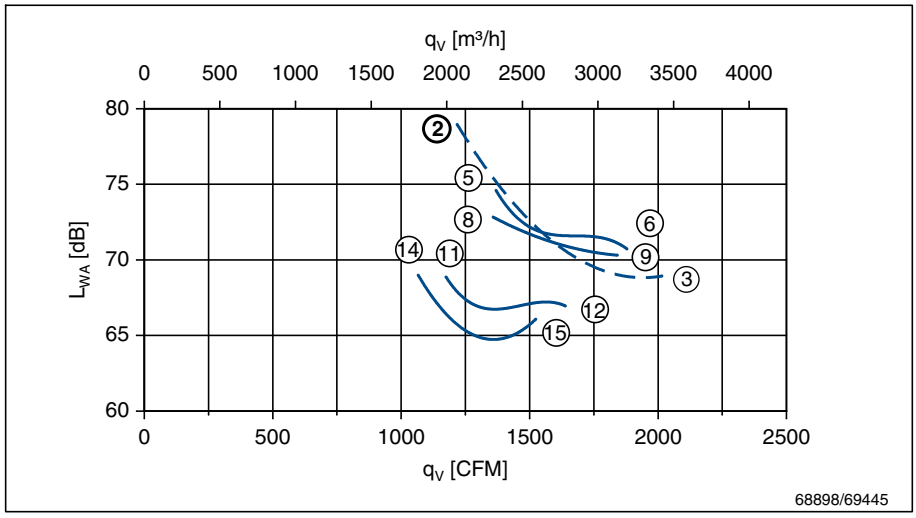
P_1	**0.21**	**kW**
I	**0.39**	**A**
n	**1660**	**rpm**
I_A	1.5	A
ΔI	0	%
t_R②	**70/158**	**°C/°F**
t_R⑤	70/158	°C/°F

Characteristic data



	U	I	P_1	n
	V	A	W	rpm
②	**460**	**0.39**	**210**	**1660**
③		0.34	150	1710
⑤	460	0.38	200	1670
⑥		0.36	175	1690
⑧	400	0.36	190	1620
⑨		0.32	160	1660
⑪	265	0.37	155	1390
⑫		0.32	130	1470
⑭	230	0.38	135	1270
⑮		0.33	120	1370

$p_{d2} = 4.7 \cdot 10^{-6} \cdot q_V^2$



···· measured in full bell mouth without guard grille in installation type A according to ISO 5801

— measured in short bell mouth with guard grille on the pressure side

Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg	Weight lbs.	Connection diagram	Dimension sheet	Page
FB035-4DW.2C.A4P	**141 506**	**W**	A	4.5	9.9	106XB	L-KL-2693	130
FB035-4DK.2C.V4P	**141 507**	**K**	V	4.8	11	106XA	L-KL-2694	134

ZIEHL-ABEGG

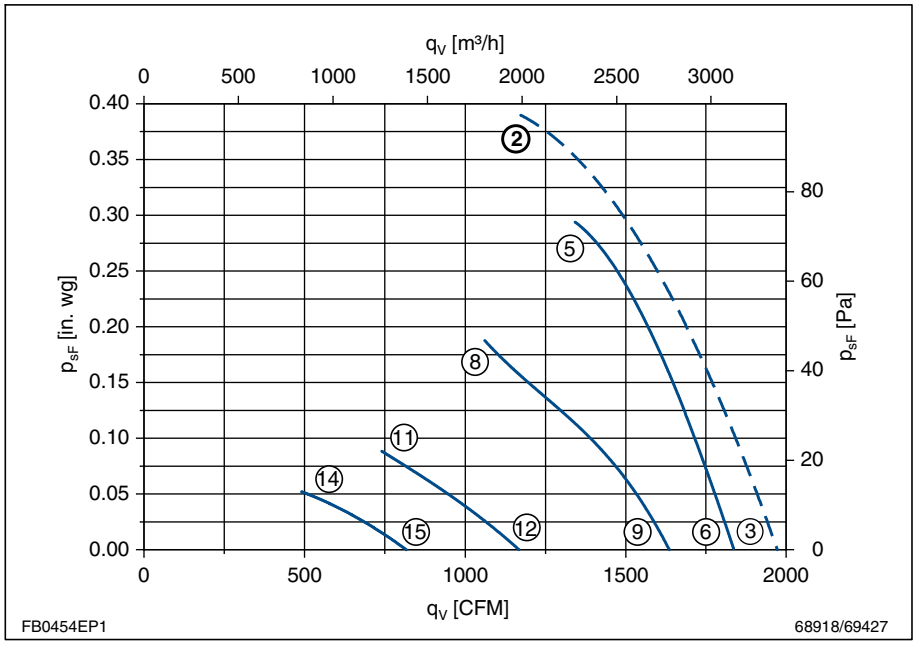
FB035-4E_.2C._4P

Performance data

1 ~ 115V 60Hz

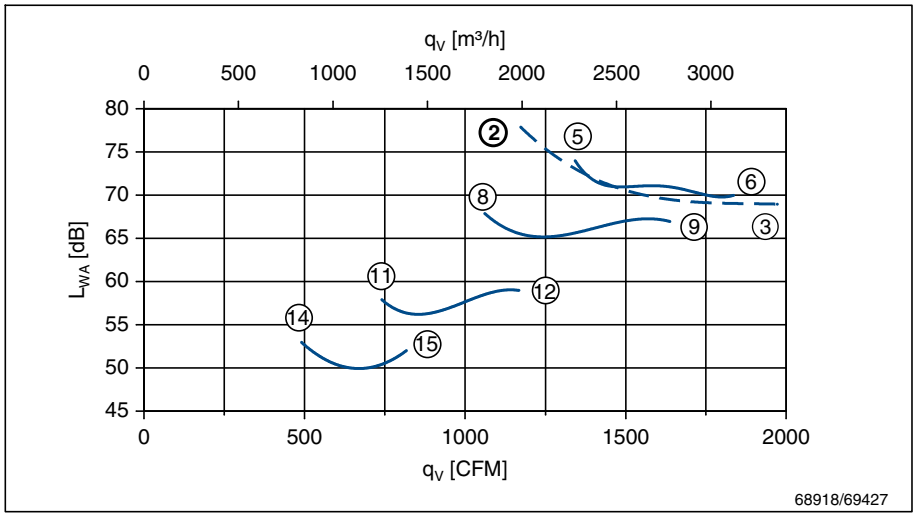
P_1	**0.24**	**kW**
I	**2.1**	**A**
n	**1600**	**rpm**
I_A	2.7	A
ΔI	0	%
C_{230V}	20	µF
t_R②	**70/158**	**°C/°F**
t_R⑤	70/158	°C/°F

Characteristic data



	U	I	P_1	n
	V	A	W	rpm
②	**115**	**2.10**	**240**	**1600**
③		1.75	200	1690
⑤	115	2.00	230	1620
⑥		1.90	220	1660
⑧	85	1.85	150	1290
⑨		1.75	145	1480
⑪	68	1.50	94	880
⑫		1.50	94	1050
⑭	55	1.20	59	670
⑮		1.20	60	750

$p_{d2} = 4.7 \cdot 10^{-6} \cdot q_V^2$



···· measured in full bell mouth without guard grille in installation type A according to ISO 5801

— measured in short bell mouth with guard grille on the pressure side

FB

Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg	Weight lbs.	Connection diagram	Dimension sheet	Page
FB035-4EW.2C.A4P	**141 508**	**W**	A	4.5	9.9	118XB	L-KL-2695	131
FB035-4EK.2C.V4P	**141 509**	**K**	V	4.8	11	117XA	L-KL-2696	135

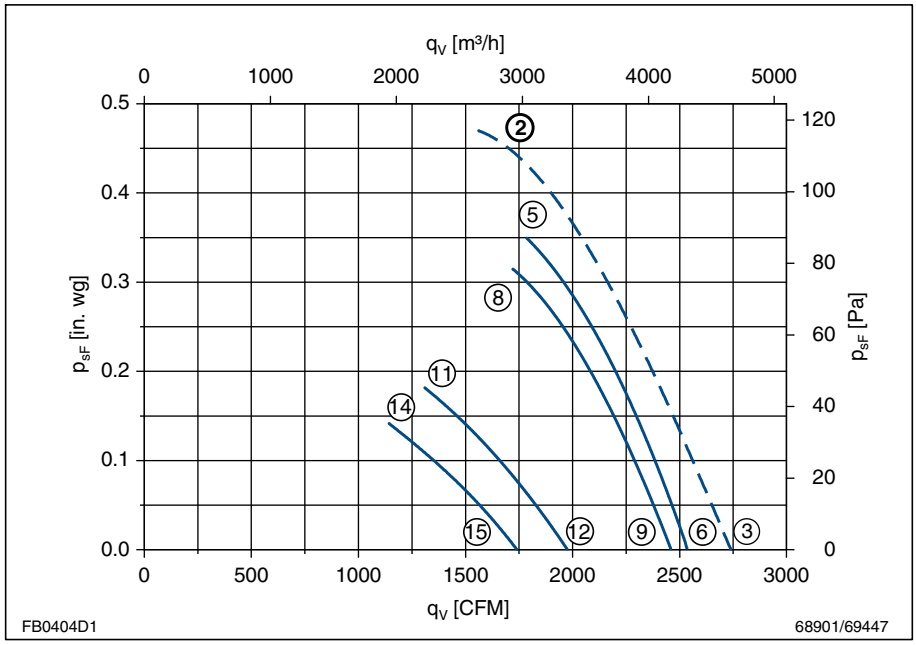
FB040-4D_.2C._4P

Performance data

3 ~ 460V 60Hz

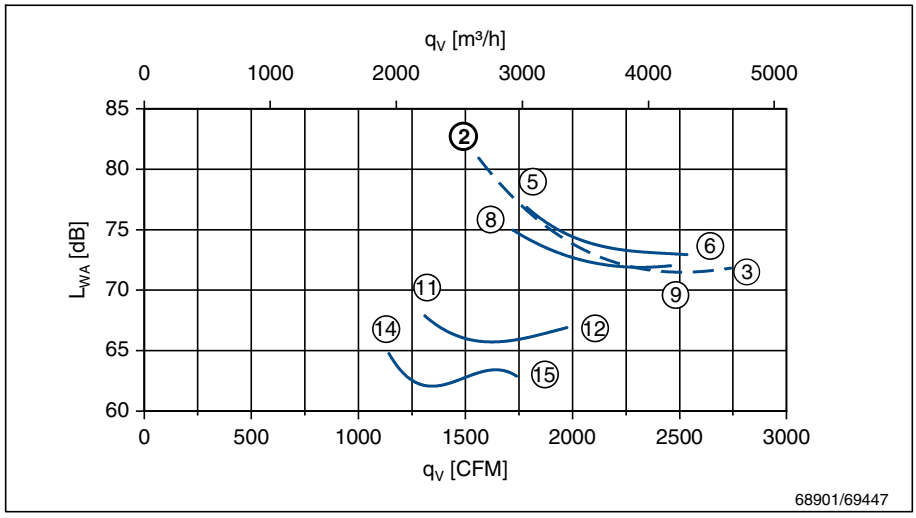
P_1	**0.33**	**kW**
I	**0.49**	**A**
n	**1550**	**rpm**
I_A	1.5	A
ΔI	0	%
t_R②	**70/158**	**°C/°F**
t_R⑤	70/158	°C/°F

Characteristic data



	U	I	P_1	n
	V	A	W	rpm
②	**460**	**0.49**	**330**	**1550**
③		0.38	220	1660
⑤	460	0.47	310	1570
⑥		0.42	260	1620
⑧	400	0.48	290	1500
⑨		0.42	240	1560
⑪	265	0.50	210	1130
⑫		0.45	185	1240
⑭	230	0.48	175	990
⑮		0.44	160	1100

$p_{d2} = 2.9 \cdot 10^{-6} \cdot q_V^2$



···· measured in full bell mouth without guard grille in installation type A according to ISO 5801

— measured in short bell mouth with guard grille on the pressure side

Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg	Weight lbs.	Connection diagram	Dimension sheet	Page
FB040-4DW.2C.A4P	**141 510**	**W**	A	5.9	13	106XB	L-KL-2693	130
FB040-4DK.2C.V4P	**141 511**	**K**	V	5.9	13	106XA	L-KL-2694	134

ZIEHL-ABEGG

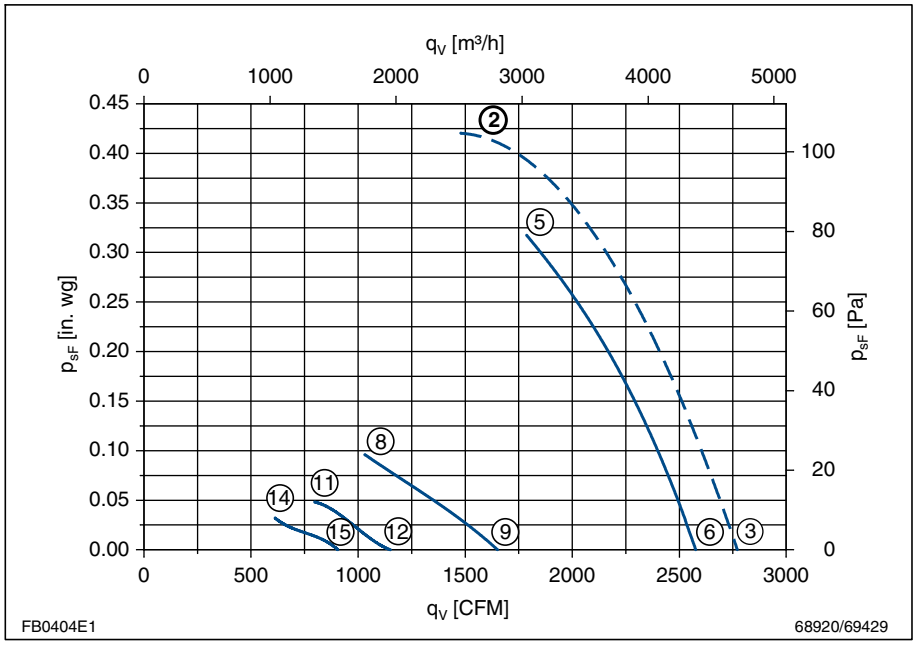
FB040-4E_.2F._4P

Performance data

1 ~ 115V 60Hz

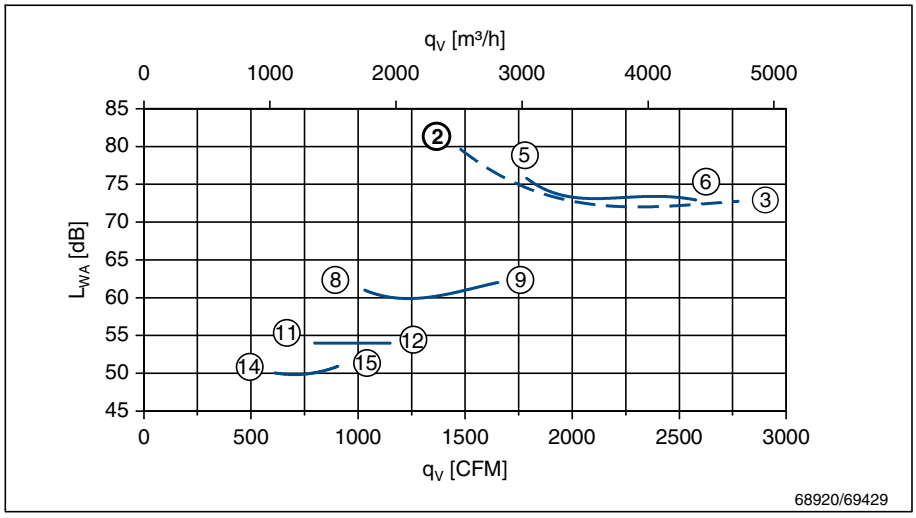
P_1	**0.34**	**kW**
I	**3.1**	**A**
n	**1460**	**rpm**
I_A	5.5	A
ΔI	0	%
C_{230V}	20	µF
t_R②	**60/140**	**°C/°F**
t_R⑤	60/140	°C/°F

Characteristic data



	U	I	P_1	n
	V	A	W	rpm
②	**115**	**3.1**	**340**	**1460**
③		2.4	270	1670
⑤	115	3.0	320	1530
⑥		2.6	290	1630
⑧	85	2.5	180	850
⑨		2.5	180	1030
⑪	68	1.95	110	630
⑫		1.95	110	720
⑭	55	1.55	70	490
⑮		1.55	70	560

$p_{d2} = 4.7 \cdot 10^{-6} \cdot q_V^2$



···· measured in full bell mouth without guard grille in installation type A according to ISO 5801

— measured in short bell mouth with guard grille on the pressure side

FB

Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg	Weight lbs.	Connection diagram	Dimension sheet	Page
FB040-4EW.2F.A4P	**141 512**	**W**	A	6.1	13	118XB	L-KL-2695	131
FB040-4EK.2F.V4P	**141 513**	**K**	V	6.1	13	117XA	L-KL-2696	135

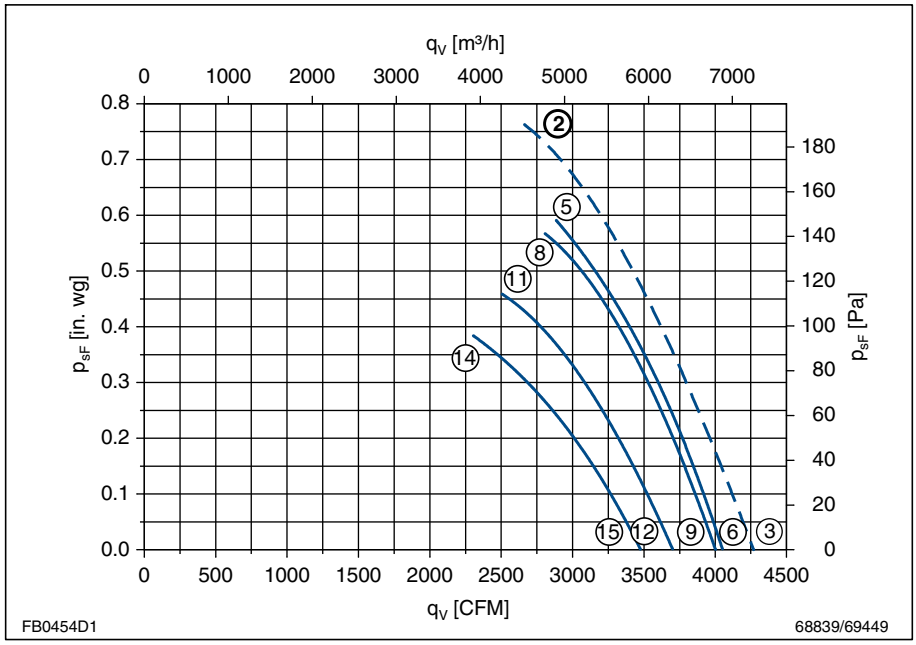
FB045-4D_.4I._4P

Performance data

3 ~ 460V 60Hz

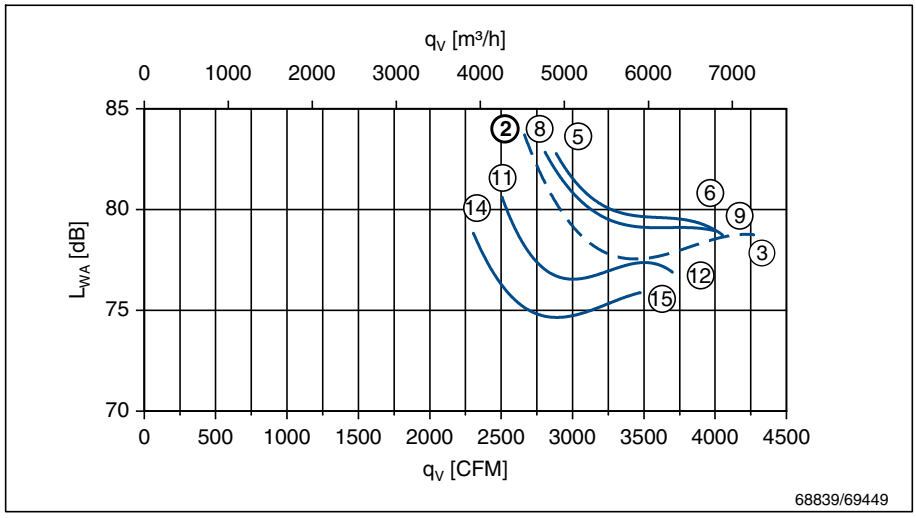
P_1	**0.69**	**kW**
I	**1.30**	**A**
n	**1720**	**rpm**
I_A	4	A
ΔI	25	%
t_R②	**60/140**	**°C/°F**
t_R⑤	60/140	°C/°F

Characteristic data



	U	I	P_1	n
	V	A	W	rpm
②	**460**	**1.30**	**690**	**1720**
③		1.10	470	1760
⑤	460	1.30	670	1720
⑥		1.15	550	1740
⑧	400	1.20	640	1690
⑨		1.05	520	1720
⑪	265	1.45	570	1520
⑫		1.20	470	1590
⑭	230	1.60	520	1400
⑮		1.35	450	1490

$p_{d2} = 1.8 \cdot 10^{-6} \cdot q_V^2$



···· measured in full bell mouth without guard grille in installation type A according to ISO 5801

— measured in short bell mouth with guard grille on the pressure side

Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg	Weight lbs.	Connection diagram	Dimension sheet	Page
FB045-4DW.4I.A4P	**141 514**	**W**	A	11	24	106XB	L-KL-2697	132
FB045-4DK.4I.V4P	**141 515**	**K**	V	11	24	106XA	L-KL-2698	136

ZIEHL-ABEGG

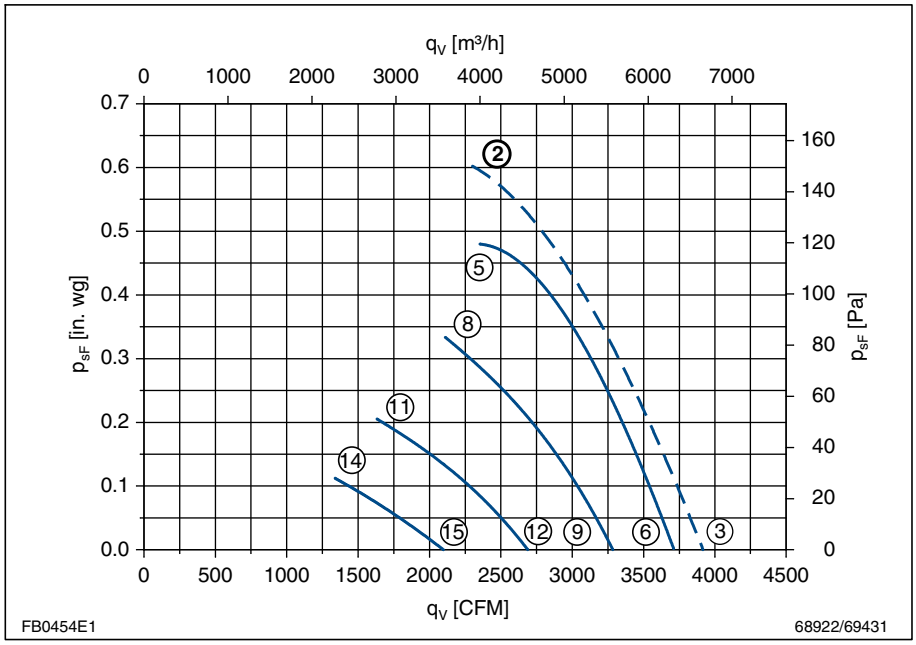
FB045-4E_.4I._4P

Performance data

1 ~ 115V 60Hz

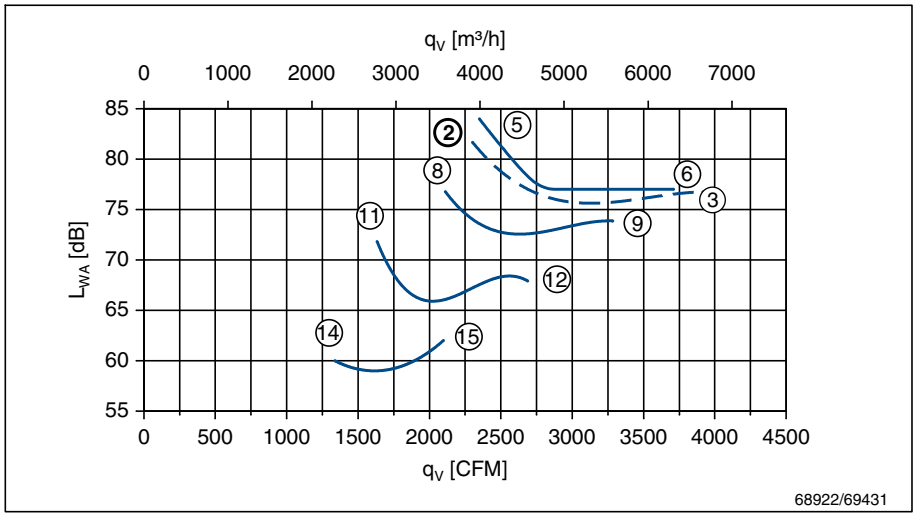
P_1	**0.63**	**kW**
I	**5.40**	**A**
n	**1530**	**rpm**
I_A	15.5	A
ΔI	5	%
C_{230V}	40	µF
t_R②	**70/158**	**°C/°F**
t_R⑤	70/158	°C/°F

Characteristic data



	U	I	P_1	n
	V	A	W	rpm
②	**115**	**5.4**	**630**	**1530**
③		4.3	490	1620
⑤	115	5.1	590	1550
⑥		4.7	530	1600
⑧	85	5.5	460	1310
⑨		4.9	410	1410
⑪	68	5.3	340	1030
⑫		4.9	320	1150
⑭	55	4.7	240	770
⑮		4.5	240	890

$p_{d2} = 1.8 \cdot 10^{-6} \cdot q_V^2$



···· measured in full bell mouth without guard grille in installation type A according to ISO 5801

— measured in short bell mouth with guard grille on the pressure side

FB

Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg	Weight lbs.	Connection diagram	Dimension sheet	Page
FB045-4EW.4I.A4P	**141 516**	**W**	A	11	24	118XB	L-KL-2699	133
FB045-4EK.4I.V4P	**141 517**	**K**	V	11	24	117XA	L-KL-2700	137

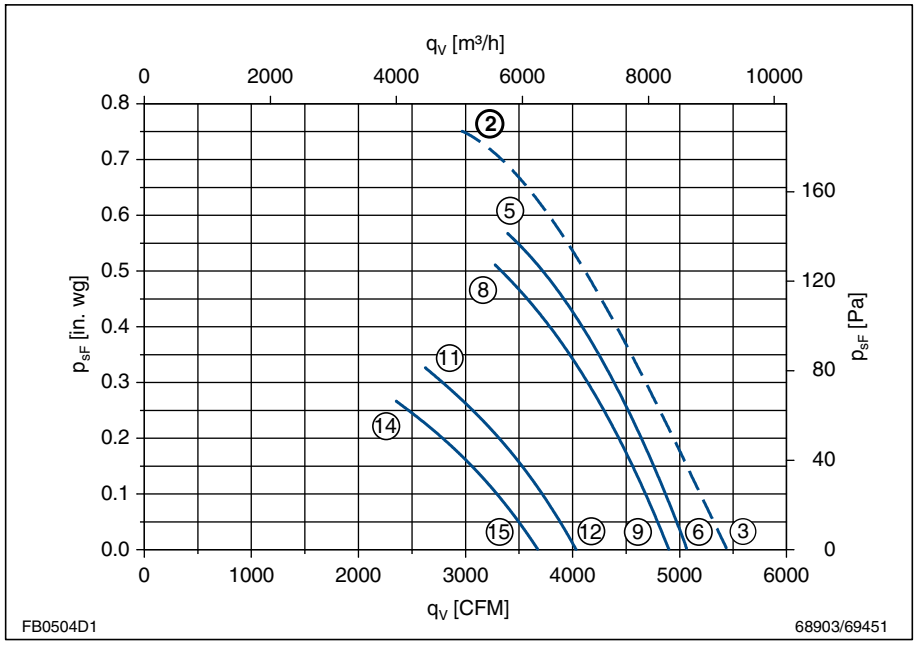
FB050-4D_.4I._4P

Performance data

3 ~ 460V 60Hz

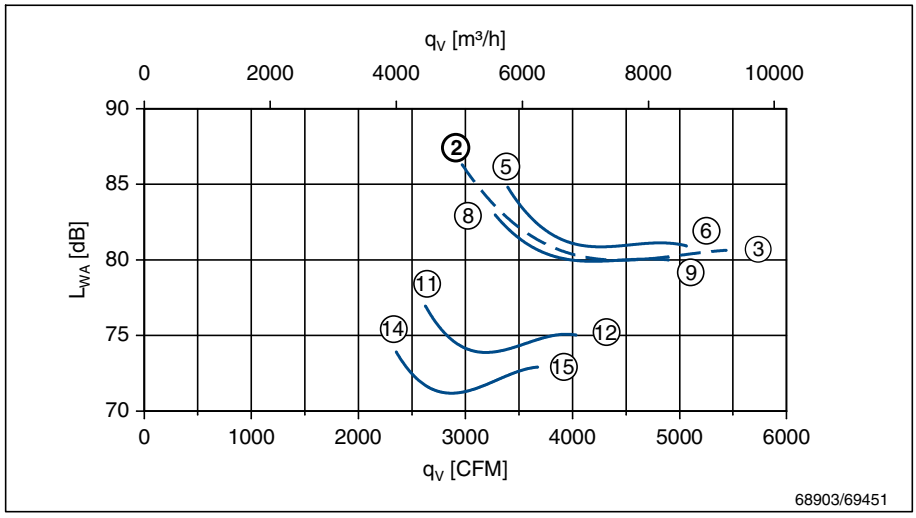
P_1	**0.93**	**kW**
I	**1.65**	**A**
n	**1510**	**rpm**
I_A	5.5	A
ΔI	0	%
t_R②	**70/158**	**°C/°F**
t_R⑤	70/158	°C/°F

Characteristic data



	U	I	P_1	n
	V	A	W	rpm
②	**460**	**1.65**	**930**	**1510**
③		1.30	640	1620
⑤	460	1.55	880	1530
⑥		1.40	730	1580
⑧	400	1.55	800	1460
⑨		1.35	670	1530
⑪	265	1.45	550	1160
⑫		1.30	490	1260
⑭	230	1.40	450	1050
⑮		1.25	410	1150

$p_{d2} = 1.2 \cdot 10^{-6} \cdot q_V^2$



···· measured in full bell mouth without guard grille in installation type A according to ISO 5801

— measured in short bell mouth with guard grille on the pressure side

FB

Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg	Weight lbs.	Connection diagram	Dimension sheet	Page
FB050-4DW.4I.A4P	**141 518**	**W**	A	11	25	106XB	L-KL-2697	132
FB050-4DK.4I.V4P	**141 519**	**K**	V	11	25	106XA	L-KL-2698	136

ZIEHL-ABEGG

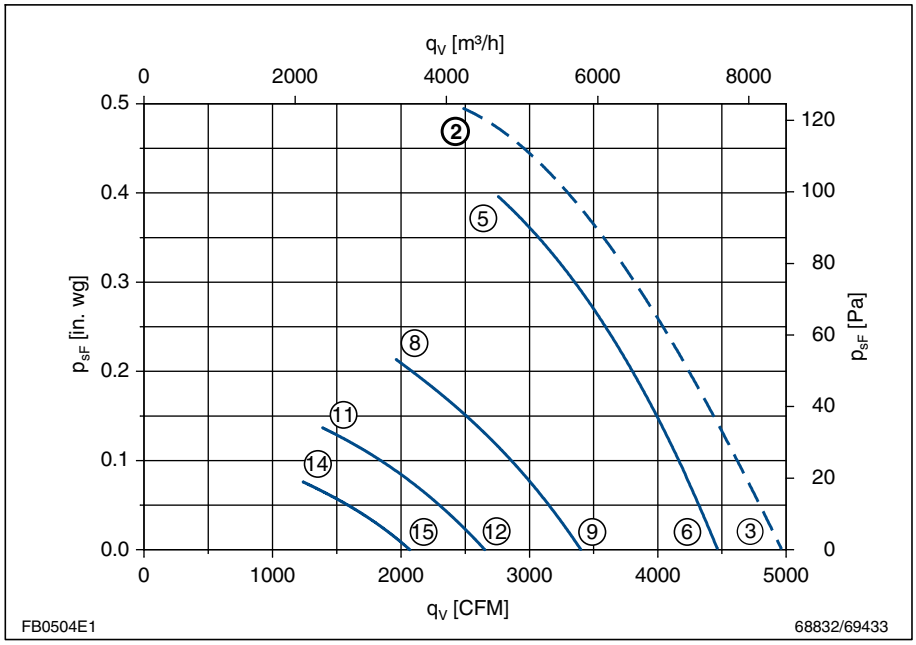
FB050-4E_.4I._4P

Performance data

1 ~ 115V 60Hz

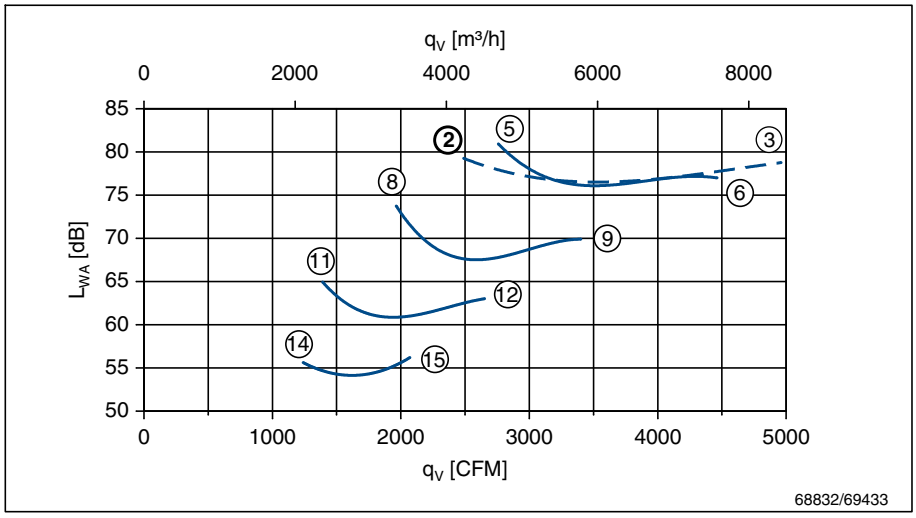
P_1	**0.75**	**kW**
I	**6.6**	**A**
n	**1220**	**rpm**
I_A	14.2	A
ΔI	0	%
C_{230V}	40	µF
t_R②	**60/140**	**°C/°F**
t_R⑤	60/140	°C/°F

Characteristic data



	U	I	P_1	n
	V	A	W	rpm
②	**115**	**6.6**	**750**	**1220**
③		5.3	610	1470
⑤	115	6.3	720	1280
⑥		5.7	660	1400
⑧	85	5.5	460	940
⑨		5.3	430	1060
⑪	68	5.0	300	700
⑫		4.6	300	820
⑭	55	3.9	200	550
⑮		3.9	200	640

$p_{d2} = 1.2 \cdot 10^{-6} \cdot q_V^2$



···· measured in full bell mouth without guard grille in installation type A according to ISO 5801

— measured in short bell mouth with guard grille on the pressure side

FB

Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg	Weight lbs.	Connection diagram	Dimension sheet	Page
FB050-4EW.4I.A4P	**141 520**	**W**	A	11	25	118XB	L-KL-2699	133
FB050-4EK.4I.V4P	**141 521**	**K**	V	11	25	117XA	L-KL-2700	137

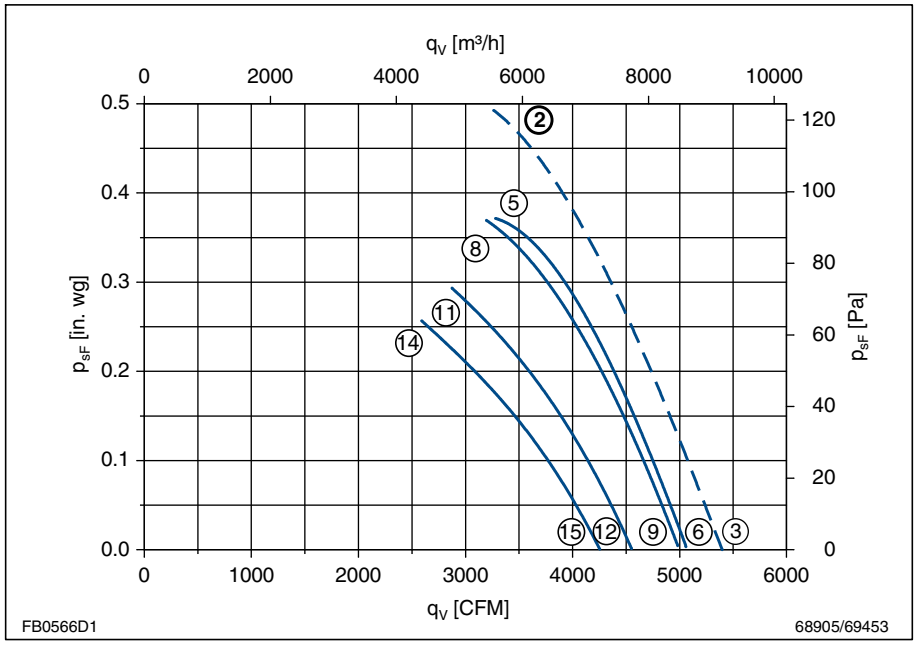
FB056-6D_.4I._4P

Performance data

3 ~ 460V 60Hz

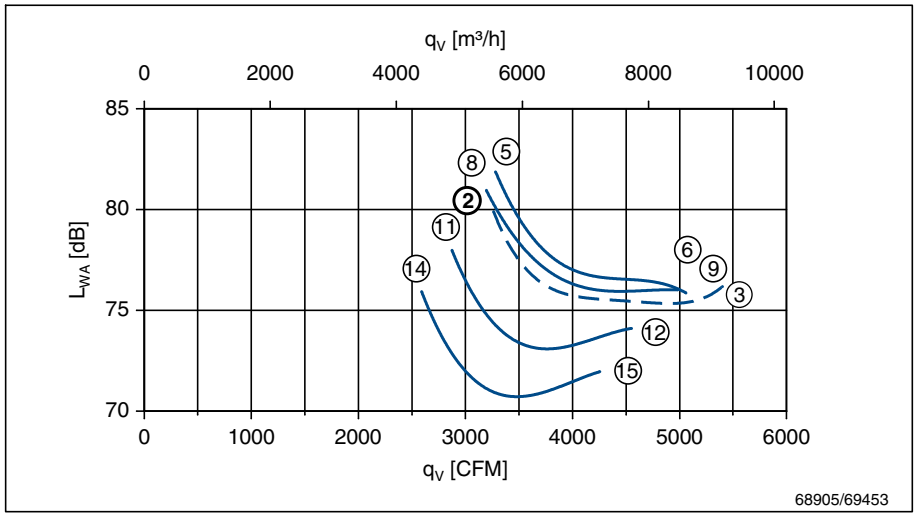
P_1	**0.59**	**kW**
I	**1.10**	**A**
n	**1120**	**rpm**
I_A	4.5	A
ΔI	10	%
t_R②	**70/158**	**°C/°F**
t_R⑤	70/158	°C/°F

Characteristic data



	U	I	P_1	n
	V	A	W	rpm
②	**460**	**1.10**	**590**	**1120**
③		0.96	410	1150
⑤	460	1.10	540	1130
⑥		1.00	460	1150
⑧	400	1.00	510	1110
⑨		0.91	430	1130
⑪	265	1.10	430	990
⑫		0.94	360	1130
⑭	230	1.10	390	910
⑮		0.98	340	960

$p_{d2} = 7.7 \cdot 10^{-7} \cdot q_V^2$



···· measured in full bell mouth without guard grille in installation type A according to ISO 5801

— measured in short bell mouth with guard grille on the pressure side

FB

Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg	Weight lbs.	Connection diagram	Dimension sheet	Page
FB056-6DW.4I.A4P	**141 522**	**W**	A	12	27	106XB	L-KL-2697	132
FB056-6DK.4I.V4P	**141 523**	**K**	V	12	27	106XA	L-KL-2698	136

ZIEHL-ABEGG

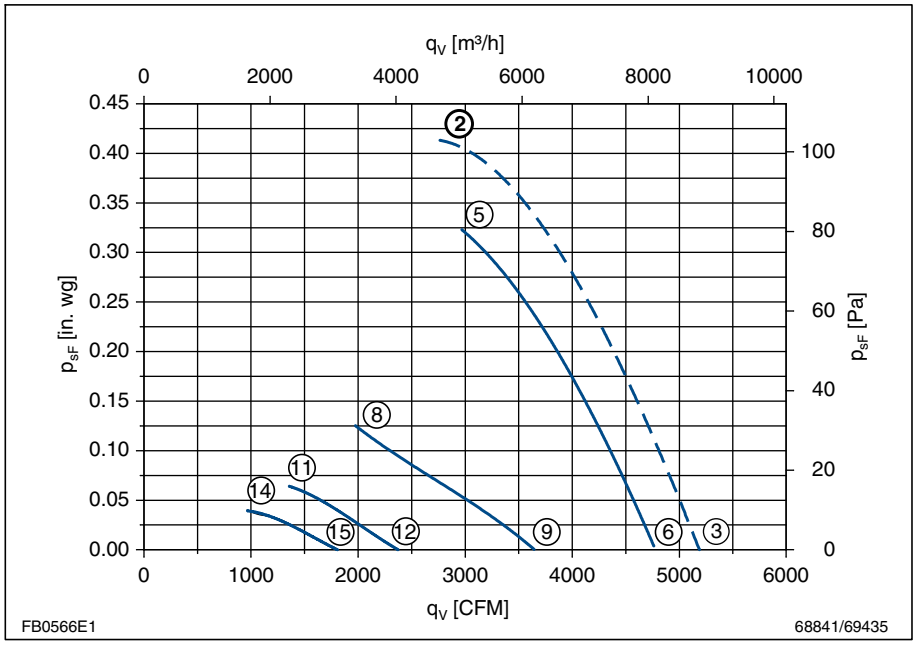
FB056-6E_.4I._4P

Performance data

1 ~ 115V 60Hz

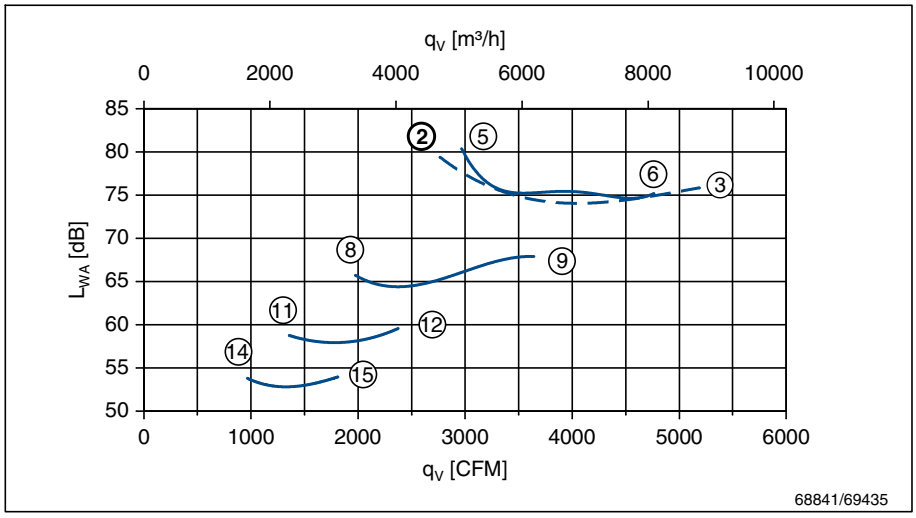
P_1	**0.55**	**kW**
I	**4.80**	**A**
n	**1020**	**rpm**
I_A	6	A
ΔI	0	%
C_{230V}	55	µF
t_R②	**65/149**	**°C/°F**
t_R⑤	65/149	°C/°F

Characteristic data



	U	I	P_1	n
	V	A	W	rpm
②	**115**	**4.8**	**550**	**1020**
③		4.1	440	1110
⑤	115	4.5	520	1050
⑥		4.2	470	1090
⑧	85	4.0	330	650
⑨		3.9	330	830
⑪	68	3.2	210	470
⑫		3.2	210	540
⑭	55	2.6	135	350
⑮		2.6	135	410

$p_{d2} = 7.7 \cdot 10^{-7} \cdot q_V^2$



···· measured in full bell mouth without guard grille in installation type A according to ISO 5801

— measured in short bell mouth with guard grille on the pressure side

FB

Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg	Weight lbs.	Connection diagram	Dimension sheet	Page
FB056-6EW.4I.A4P	**141 524**	**W**	A	12	27	118XB	L-KL-2699	133
FB056-6EK.4I.V4P	**141 525**	**K**	V	12	27	117XA	L-KL-2700	137

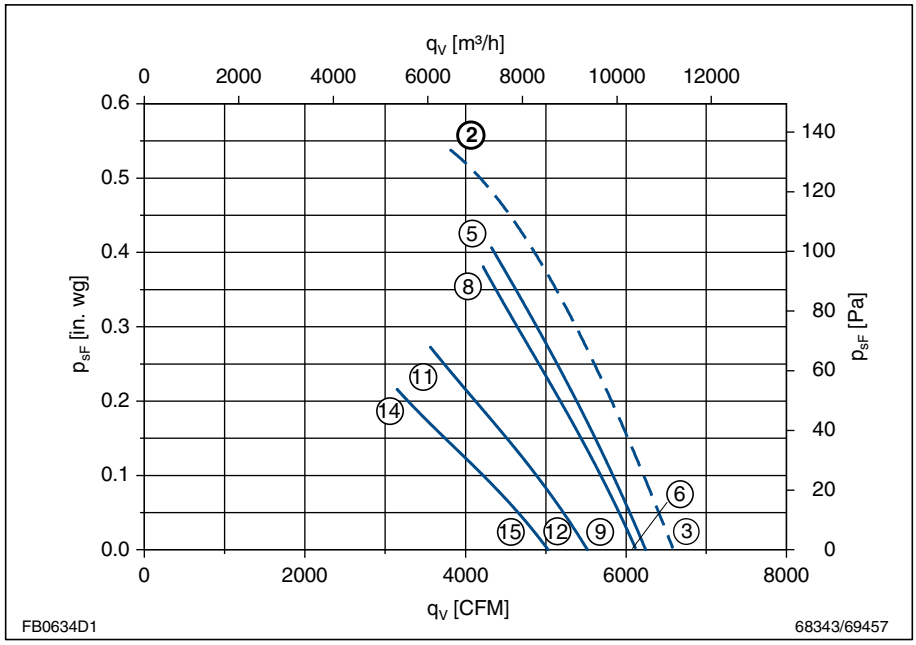
FB063-6D_.4I._4L

Performance data

3 ~ 460V 60Hz

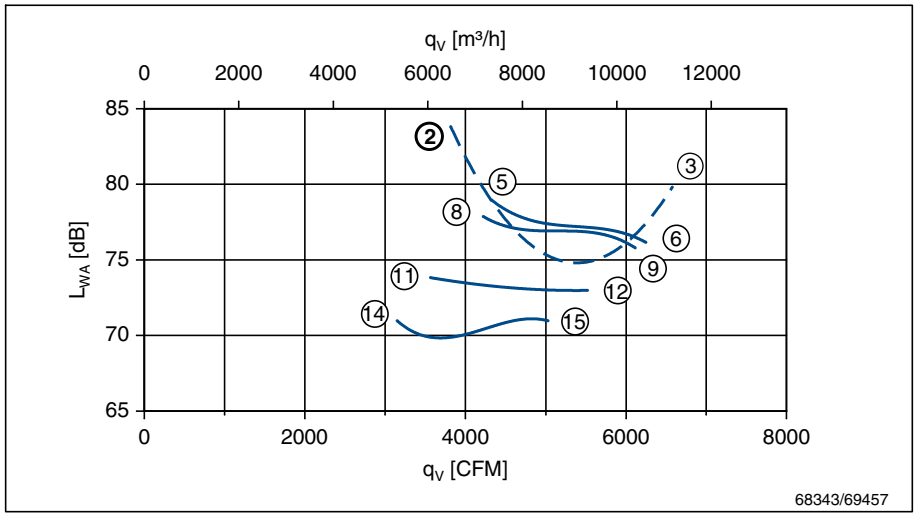
P_1	**0.71**	**kW**
I	**1.20**	**A**
n	**1090**	**rpm**
I_A	5	A
ΔI	15	%
t_R②	**65/149**	**°C/°F**
t_R⑤	65/149	°C/°F

Characteristic data



	U	I	P_1	n
	V	A	W	rpm
②	**460**	**1.20**	**710**	**1090**
③		0.98	470	1140
⑤	460	1.20	690	1100
⑥		1.00	520	1130
⑧	400	1.15	650	1060
⑨		0.97	500	1100
⑪	265	1.30	520	890
⑫		1.05	420	990
⑭	230	1.30	450	790
⑮		1.10	380	900

$p_{d2} = 4.6 \cdot 10^{-7} \cdot q_V^2$



···· measured in full bell mouth without guard grille in installation type A according to ISO 5801

— measured in short bell mouth with guard grille on the pressure side

FB

Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg	Weight lbs.	Connection diagram	Dimension sheet	Page
FB063-6DW.4I.A4L	**141 529**	**W**	A	12	27	106XB	L-KL-2697	132
FB063-6DK.4I.V4L	**141 530**	**K**	V	13	28	106XA	L-KL-2698	136

ZIEHL-ABEGG

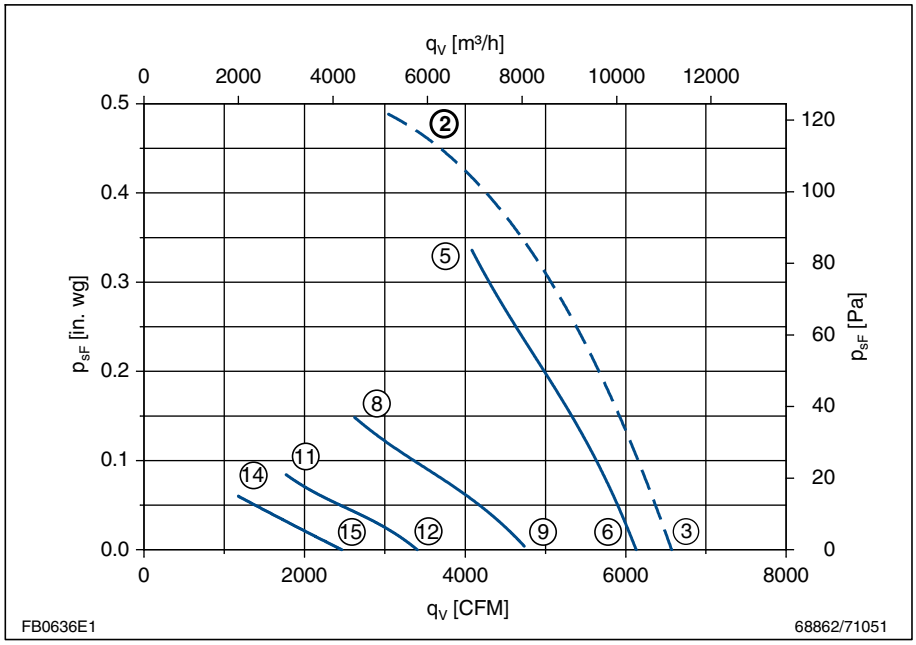
FB063-6E_.4I._4L

Performance data

1 ~ 115V 60Hz

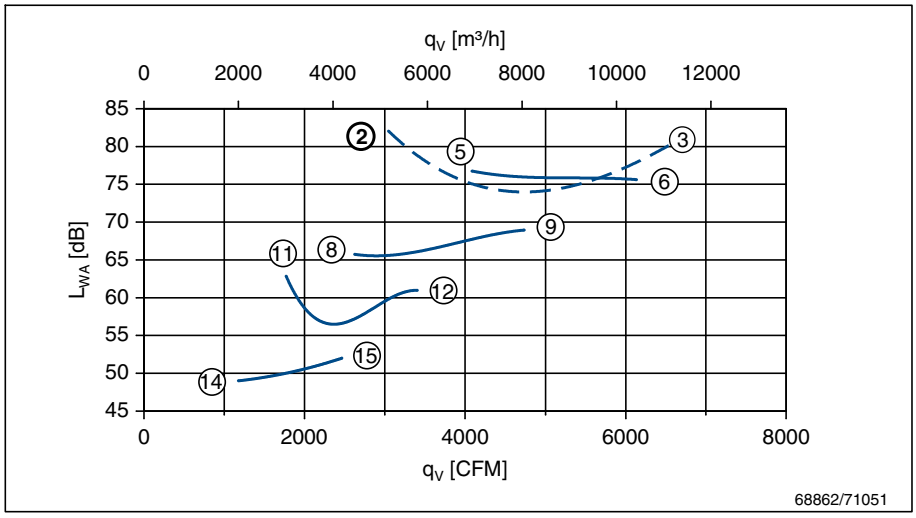
P_1	**0.75**	**kW**
I	**6.70**	**A**
n	**970**	**rpm**
I_A	12.5	A
ΔI	0	%
C_{230V}	40	µF
t_R②	**70/158**	**°C/°F**
t_R⑤	70/158	°C/°F

Characteristic data



	U	I	P_1	n
	V	A	W	rpm
②	**115**	**6.7**	**750**	**970**
③		4.5	510	1110
⑤	115	6.0	660	1010
⑥		4.7	540	1090
⑧	85	5.7	430	660
⑨		5.2	410	850
⑪	68	4.7	280	500
⑫		4.6	280	600
⑭	55	3.9	180	350
⑮		3.8	180	440

$p_{d2} = 4.6 \cdot 10^{-7} \cdot q_V^2$



···· measured in full bell mouth without guard grille in installation type A according to ISO 5801

— measured in short bell mouth with guard grille on the pressure side

FB

Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg	Weight lbs.	Connection diagram	Dimension sheet	Page
FB063-6EW.4I.A4L	**141 569**	**W**	A	12	27	118XB	L-KL-2699	133
FB063-6EK.4I.V4L	**141 570**	**K**	V	13	28	117XA	L-KL-2700	137