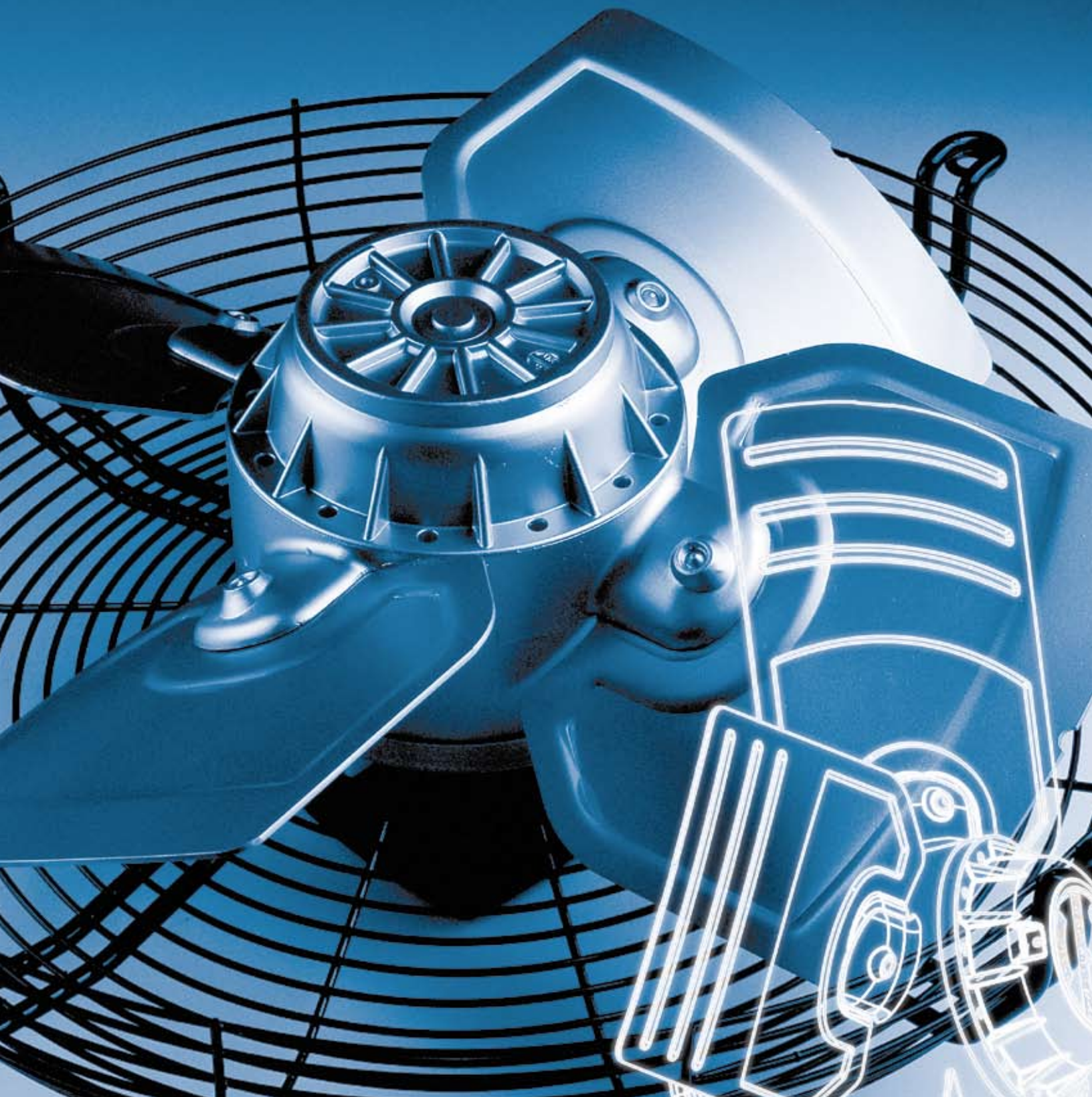


Technical data

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

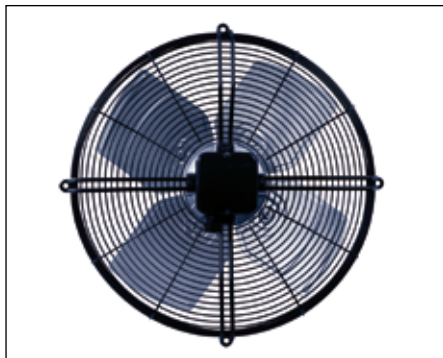
Article no., Type

On request, at extra charge

- Different voltage to 115 resp. 460 V
- 50 Hz
- Paint finish, RAL 9005, black



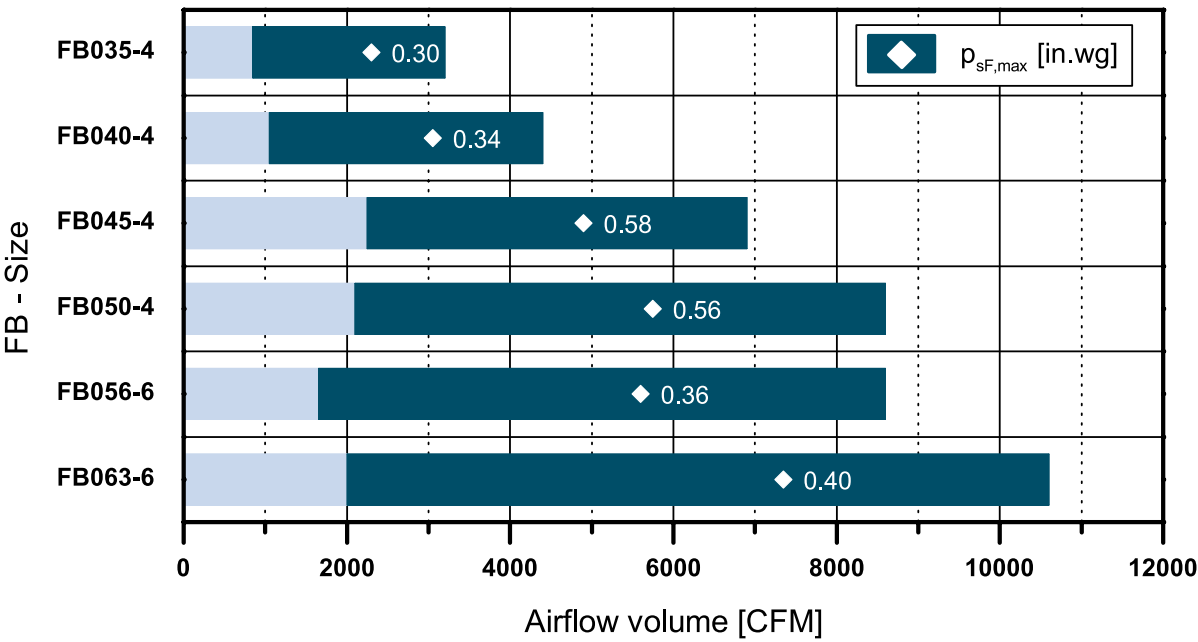
FB... design A



FB... design K

FB

Quick selection



FB

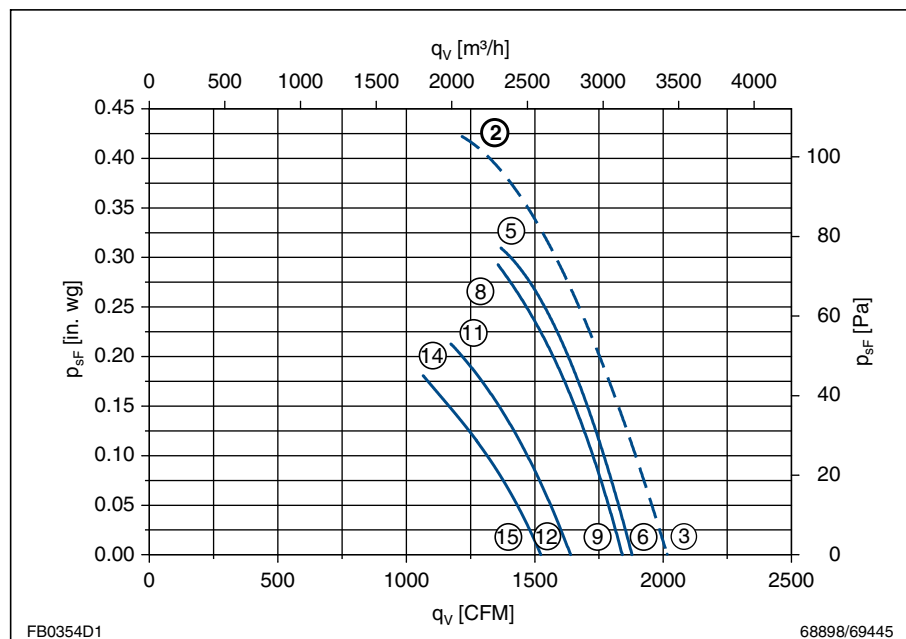
FB035-4D_.2C_.4P

Performance data

3 ~ 460V 60Hz

P_1	0.21	kW
I_1	0.39	A
n	1660	rpm
I_A	1.5	A
ΔI	0	%
$t_R^{(2)}$	70/158	°C/°F
$t_R^{(5)}$	70/158	°C/°F

Characteristic data

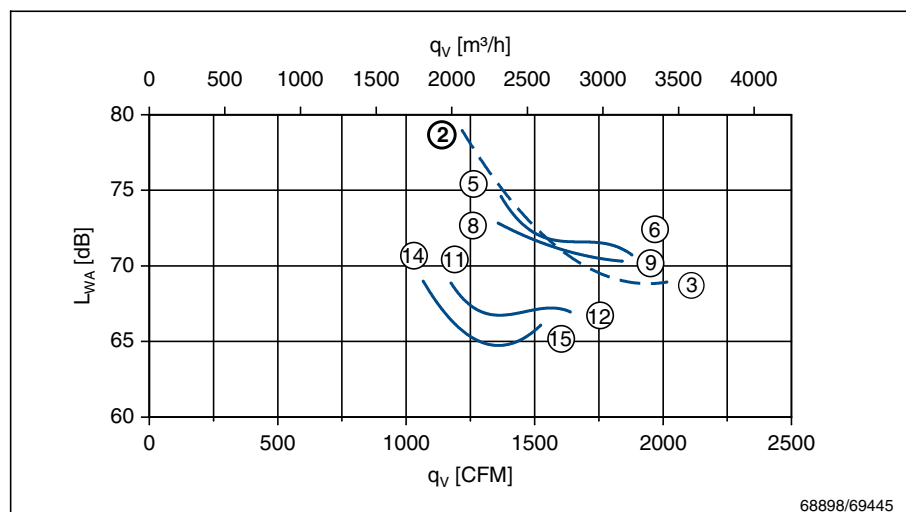


	U	I	P ₁	n
	V	A	W	rpm
②	460	0.39	210	1660
③		0.34	150	1710
⑤	460	0.38	200	1670
⑥		0.36	175	1690
⑧	400	0.36	190	1620
⑨		0.32	160	1660
⑪	265	0.37	155	1390
⑫		0.32	130	1470
⑭	230	0.38	135	1270
⑮		0.33	120	1370

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

... 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 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

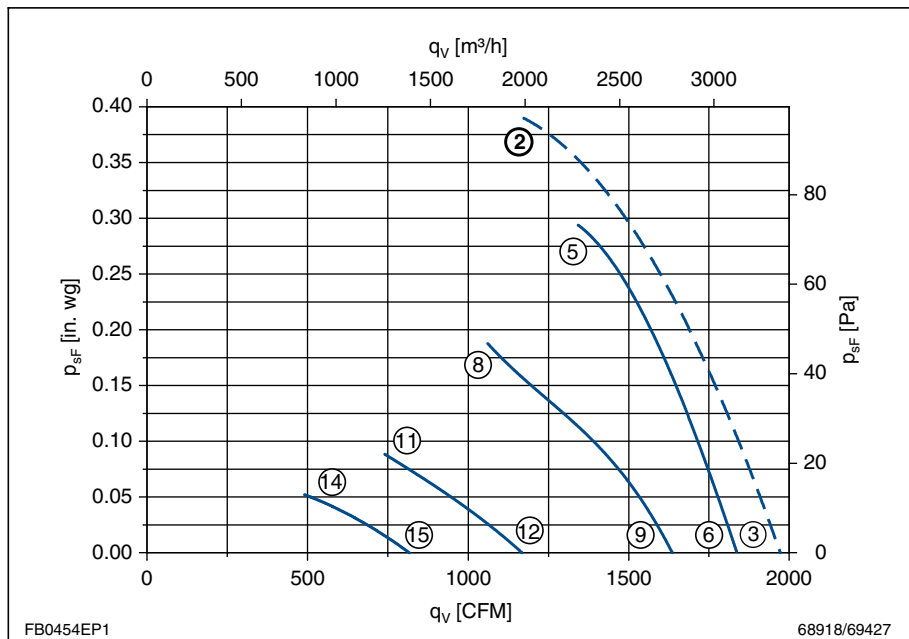
FB035-4E_.2C_.4P

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
$t_R^{(2)}$	70/158	$^{\circ}C/^{\circ}F$
$t_R^{(5)}$	70/158	$^{\circ}C/^{\circ}F$

Characteristic data

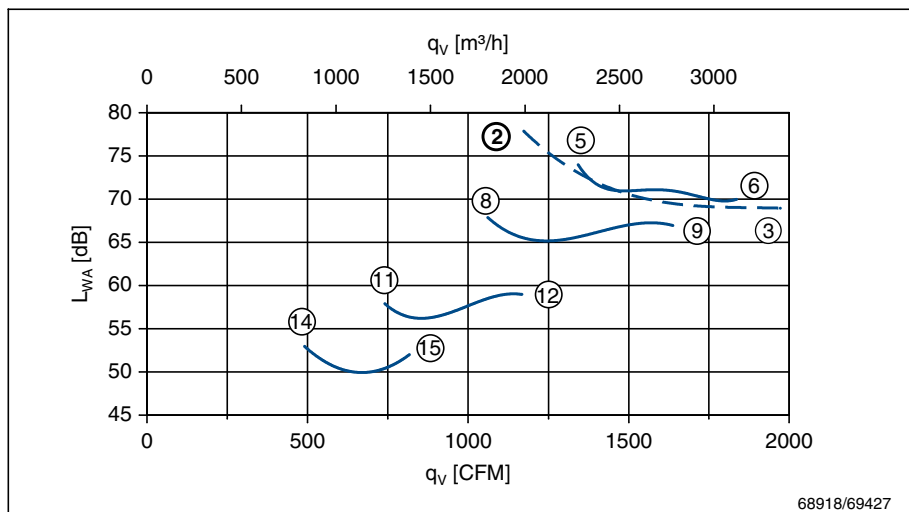


	U	I	P_1	n
	V	A	W	rpm
②	115	2.10	240	1600
③		1.75	200	1690
⑤	115	2.00	230	1620
⑥		1.90	220	1660
⑧	85	1.85	150	1290
⑨		1.75	145	1480
⑪	68	1.50	94	880
⑫		1.50	94	1050
⑭	55	1.20	59	670
⑮		1.20	60	750

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

..... 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



Dimension sheet

Type	Article no.	Design	Airflow direction	Weight		Connection diagram	Dimension sheet	Page
				kg	lbs.			
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

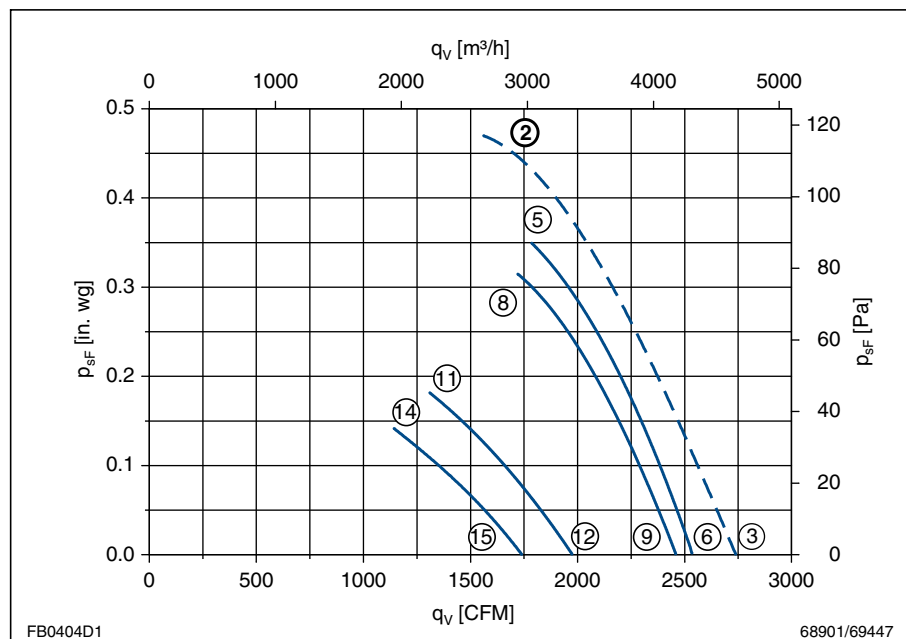
FB040-4D_.2C_.4P

Performance data

3 ~ 460V 60Hz

P_1	0.33	kW
I	0.49	A
n	1550	rpm
I_A	1.5	A
ΔI	0	%
$t_R^{(2)}$	70/158	°C/°F
$t_R^{(5)}$	70/158	°C/°F

Characteristic data

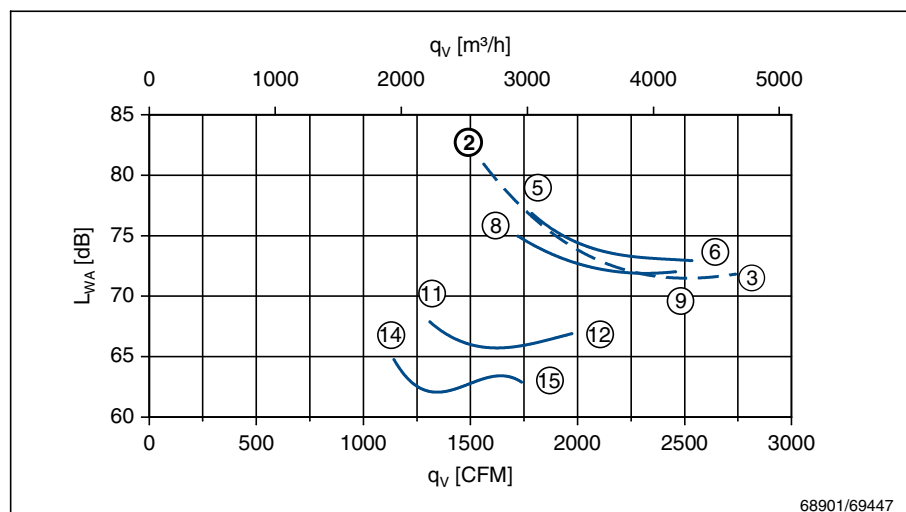


	U	I	P ₁	n
	V	A	W	rpm
②	460	0.49	330	1550
③		0.38	220	1660
⑤	460	0.47	310	1570
⑥		0.42	260	1620
⑧	400	0.48	290	1500
⑨		0.42	240	1560
⑪	265	0.50	210	1130
⑫		0.45	185	1240
⑭	230	0.48	175	990
⑮		0.44	160	1100

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

... 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 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

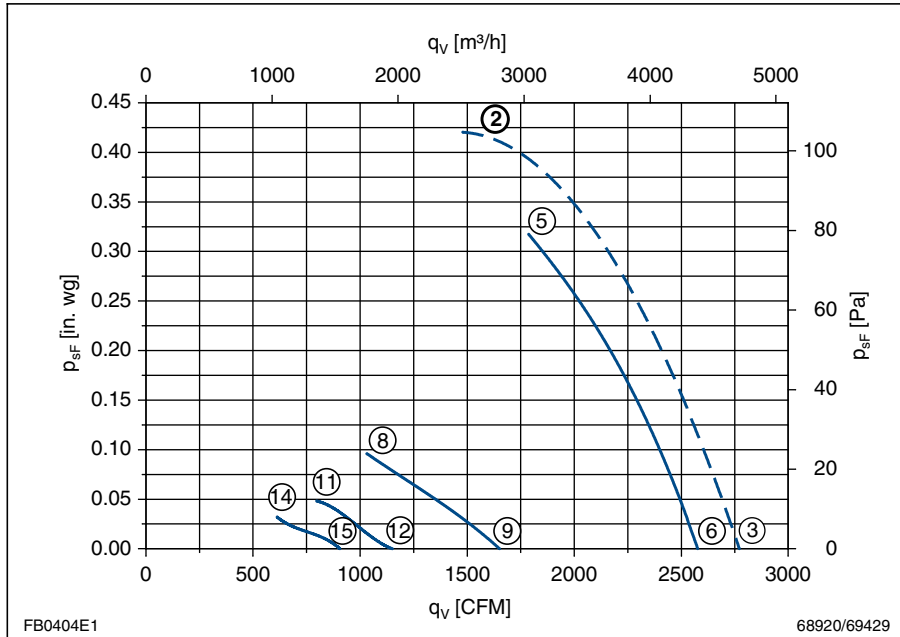
FB040-4E_.2F_.4P

Performance data

1 ~ 115V 60Hz

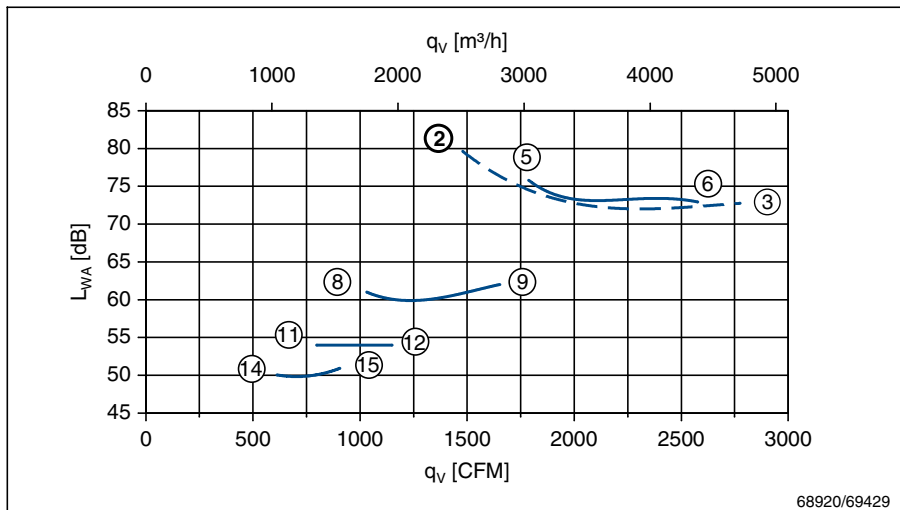
P_1	0.34	kW
I	3.1	A
n	1460	rpm
I_A	5.5	A
ΔI	0	%
C_{230V}	20	μF
$t_R^{(2)}$	60/140	$^{\circ}C/^{\circ}F$
$t_R^{(5)}$	60/140	$^{\circ}C/^{\circ}F$

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 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

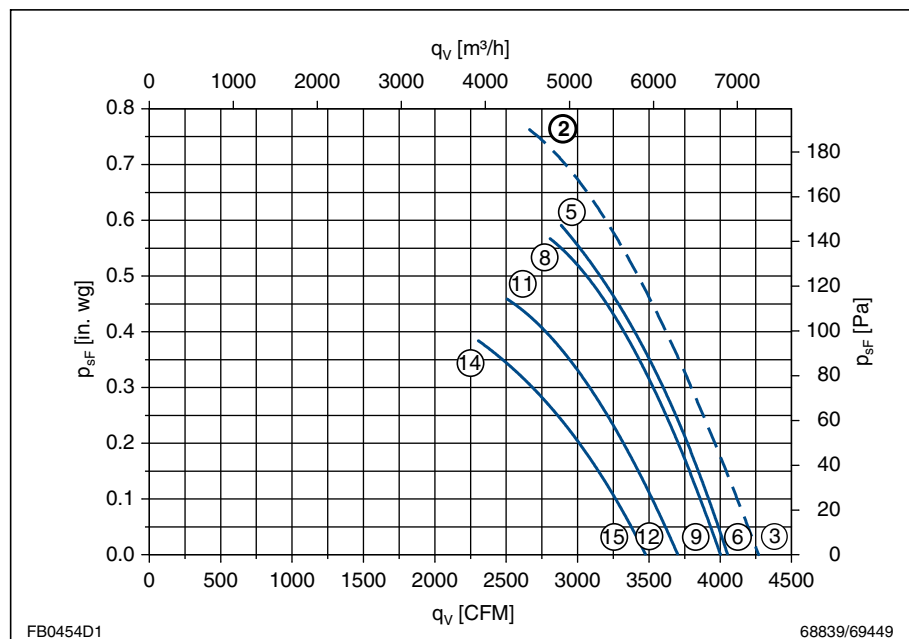
FB045-4D_.4I_.4P

Performance data

3 ~ 460V 60Hz

P_1	0.69	kW
I_1	1.30	A
n	1720	rpm
I_A	4	A
ΔI	25	%
$t_R^{(2)}$	60/140	°C/°F
$t_R^{(5)}$	60/140	°C/°F

Characteristic data

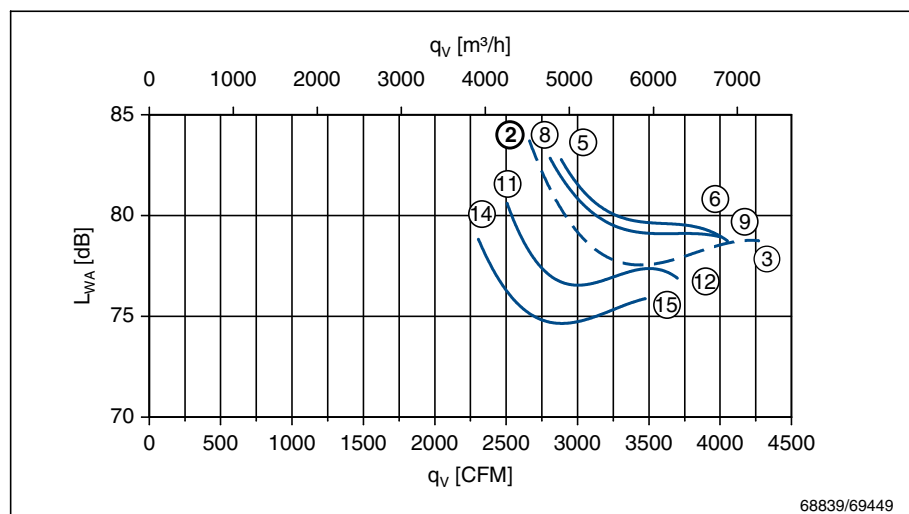


	U V	I A	P ₁ W	n rpm
②	460	1.30	690	1720
③		1.10	470	1760
⑤	460	1.30	670	1720
⑥		1.15	550	1740
⑧	400	1.20	640	1690
⑨		1.05	520	1720
⑪	265	1.45	570	1520
⑫		1.20	470	1590
⑭	230	1.60	520	1400
⑮		1.35	450	1490

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

... 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 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

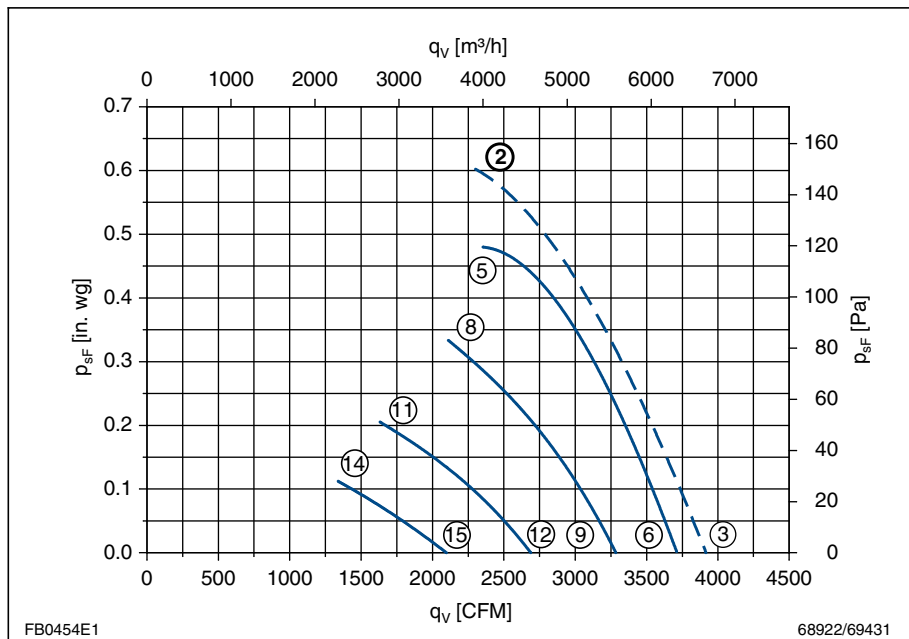
FB045-4E_.4I_.4P

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
$t_R^{(2)}$	70/158	$^{\circ}C/^{\circ}F$
$t_R^{(5)}$	70/158	$^{\circ}C/^{\circ}F$

Characteristic data

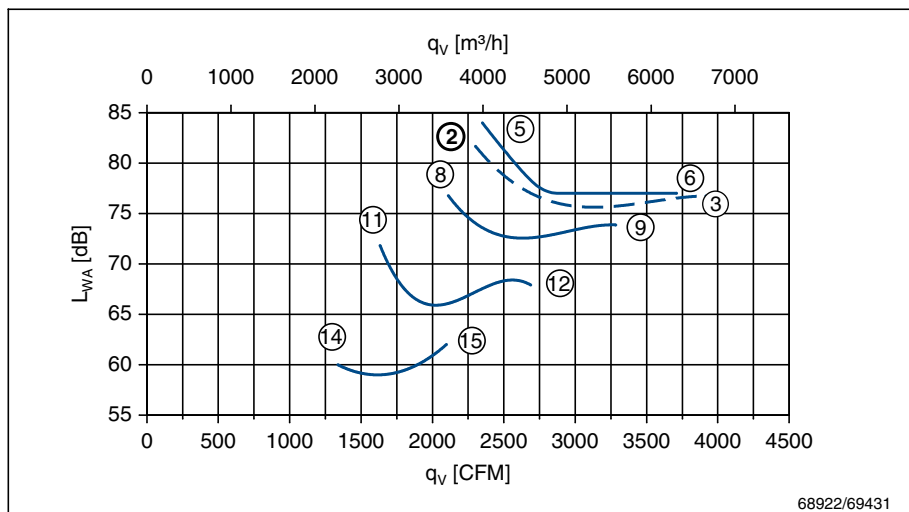


	U	I	P_1	n
	V	A	W	rpm
②	115	5.4	630	1530
③		4.3	490	1620
⑤	115	5.1	590	1550
⑥		4.7	530	1600
⑧	85	5.5	460	1310
⑨		4.9	410	1410
⑪	68	5.3	340	1030
⑫		4.9	320	1150
⑭	55	4.7	240	770
⑮		4.5	240	890

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

..... 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



Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg 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

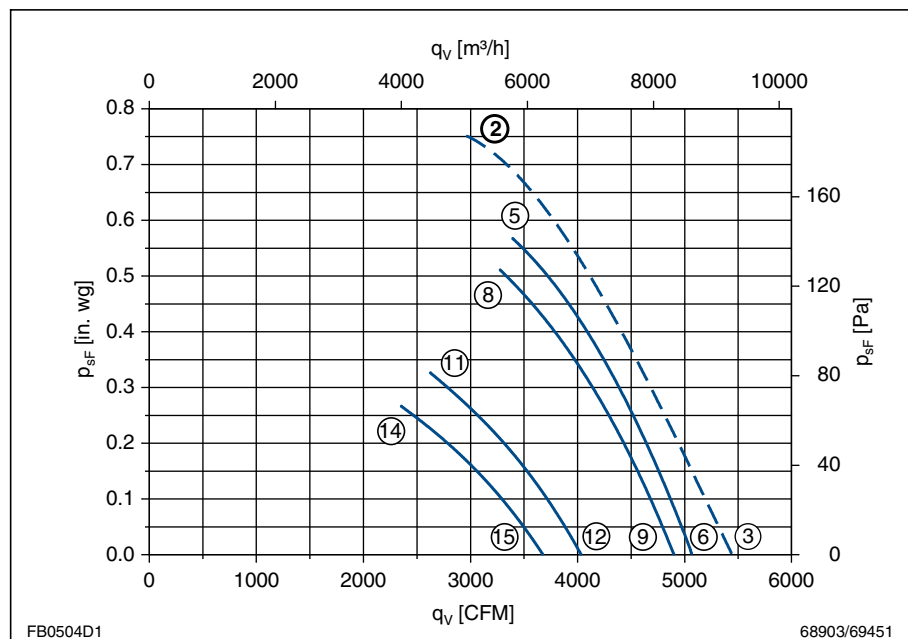
FB050-4D_.4I_.4P

Performance data

3 ~ 460V 60Hz

P_1	0.93	kW
I_1	1.65	A
n	1510	rpm
I_A	5.5	A
ΔI	0	%
$t_R^{(2)}$	70/158	°C/°F
$t_R^{(5)}$	70/158	°C/°F

Characteristic data

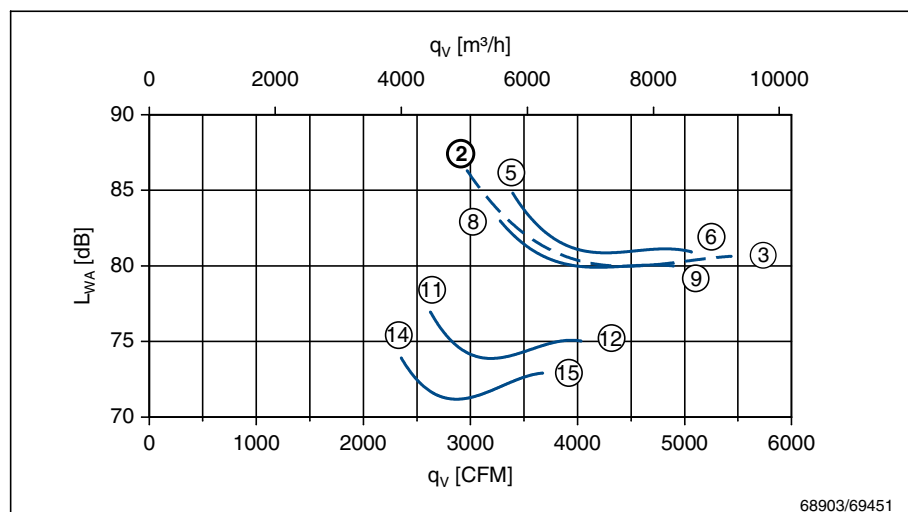


	U	I	P ₁	n
	V	A	W	rpm
②	460	1.65	930	1510
③		1.30	640	1620
⑤	460	1.55	880	1530
⑥		1.40	730	1580
⑧	400	1.55	800	1460
⑨		1.35	670	1530
⑪	265	1.45	550	1160
⑫		1.30	490	1260
⑭	230	1.40	450	1050
⑮		1.25	410	1150

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

... 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



Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg 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

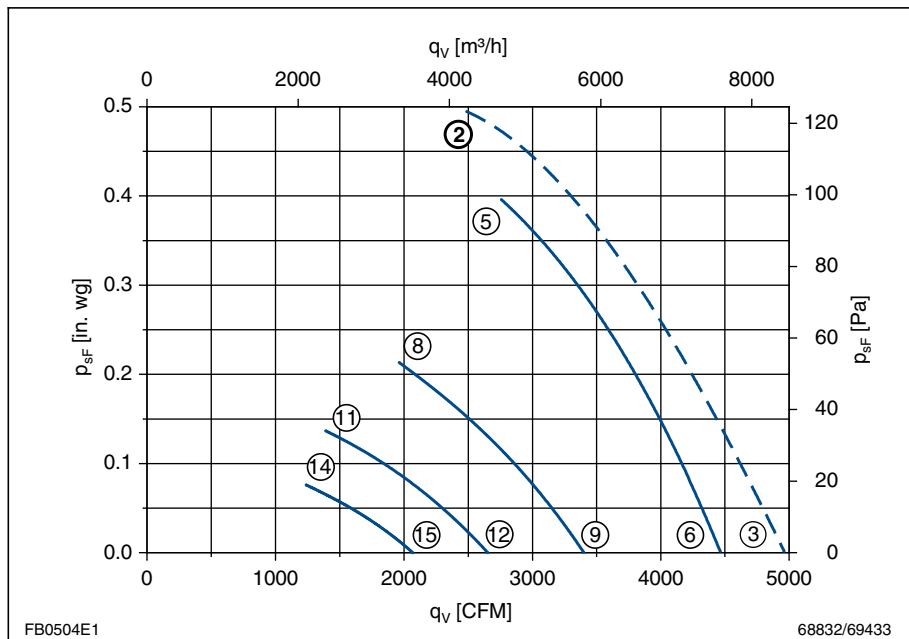
FB050-4E_.4I_.4P

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
$t_R^{(2)}$	60/140	$^{\circ}C/^{\circ}F$
$t_R^{(5)}$	60/140	$^{\circ}C/^{\circ}F$

Characteristic data

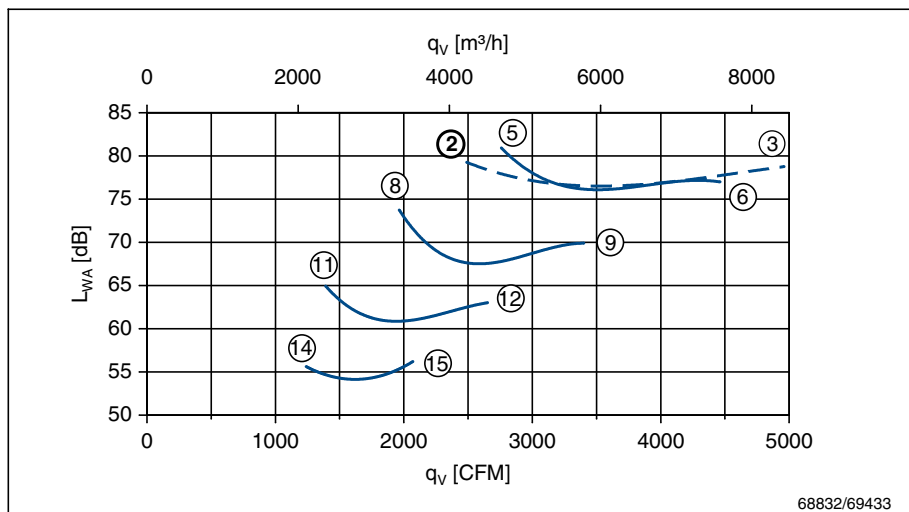


	U	I	P_1	n
	V	A	W	rpm
②	115	6.6	750	1220
③		5.3	610	1470
⑤	115	6.3	720	1280
⑥		5.7	660	1400
⑧	85	5.5	460	940
⑨		5.3	430	1060
⑪	68	5.0	300	700
⑫		4.6	300	820
⑭	55	3.9	200	550
⑮		3.9	200	640

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

..... 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



Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg 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

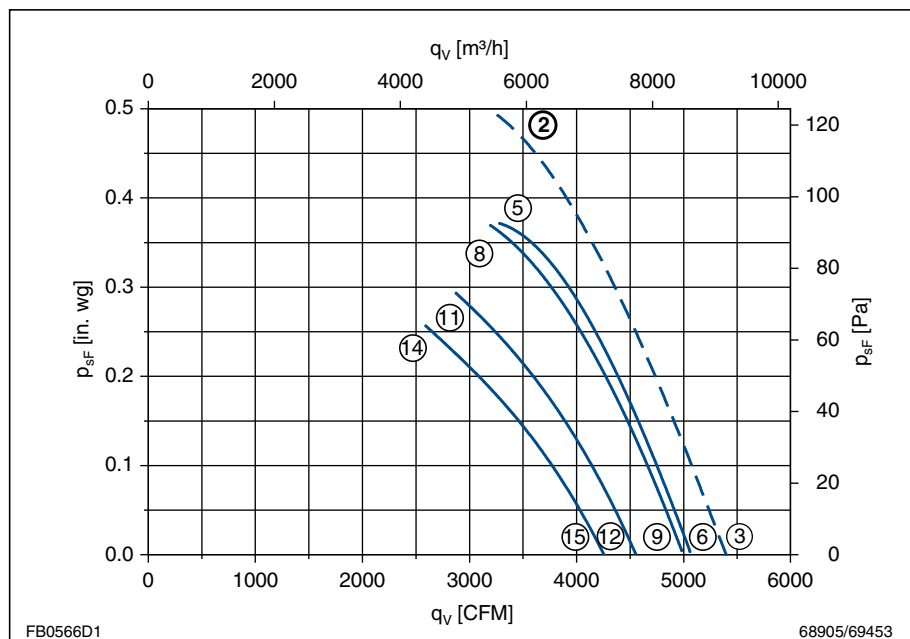
FB056-6D_.4I_.4P

Performance data

3 ~ 460V 60Hz

P_1	0.59	kW
I	1.10	A
n	1120	rpm
I_A	4.5	A
ΔI	10	%
$t_R^{(2)}$	70/158	°C/°F
$t_R^{(5)}$	70/158	°C/°F

Characteristic data

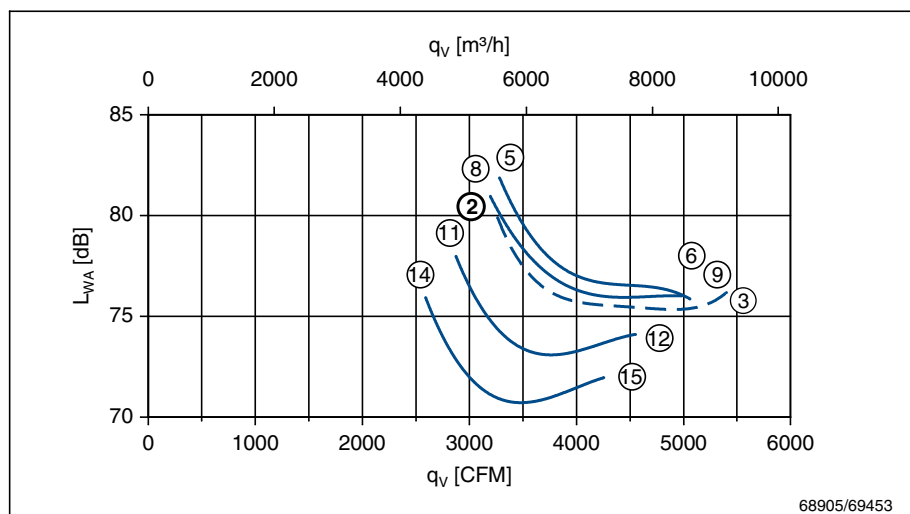


	U V	I A	P ₁ W	n rpm
②	460	1.10	590	1120
③		0.96	410	1150
⑤	460	1.10	540	1130
⑥		1.00	460	1150
⑧	400	1.00	510	1110
⑨		0.91	430	1130
⑪	265	1.10	430	990
⑫		0.94	360	1130
⑭	230	1.10	390	910
⑮		0.98	340	960

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

... 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



Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg 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

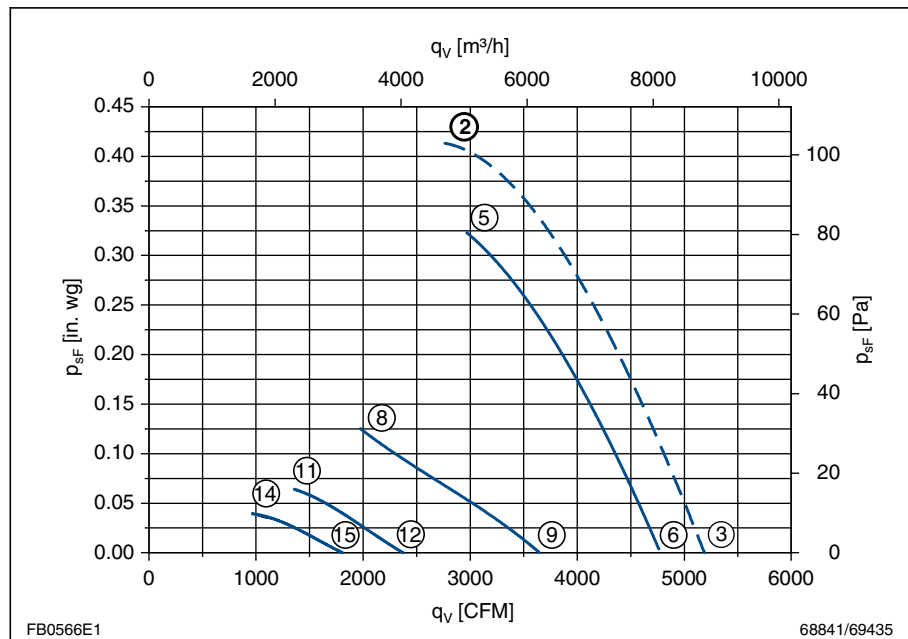
FB056-6E_.4I_.4P

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
$t_R^{(2)}$	65/149	$^{\circ}C/^{\circ}F$
$t_R^{(5)}$	65/149	$^{\circ}C/^{\circ}F$

Characteristic data

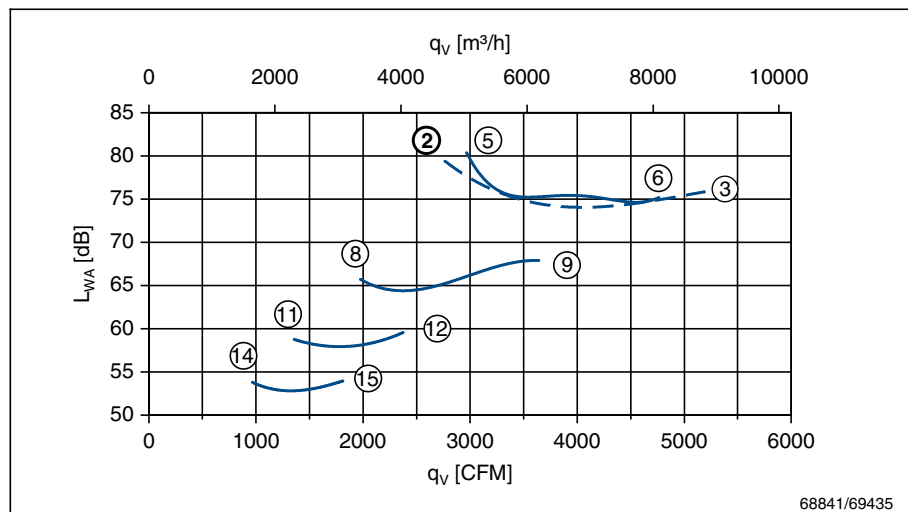


	U	I	P_1	n
	V	A	W	rpm
②	115	4.8	550	1020
③		4.1	440	1110
⑤	115	4.5	520	1050
⑥		4.2	470	1090
⑧	85	4.0	330	650
⑨		3.9	330	830
⑪	68	3.2	210	470
⑫		3.2	210	540
⑭	55	2.6	135	350
⑮		2.6	135	410

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

..... 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



Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg 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

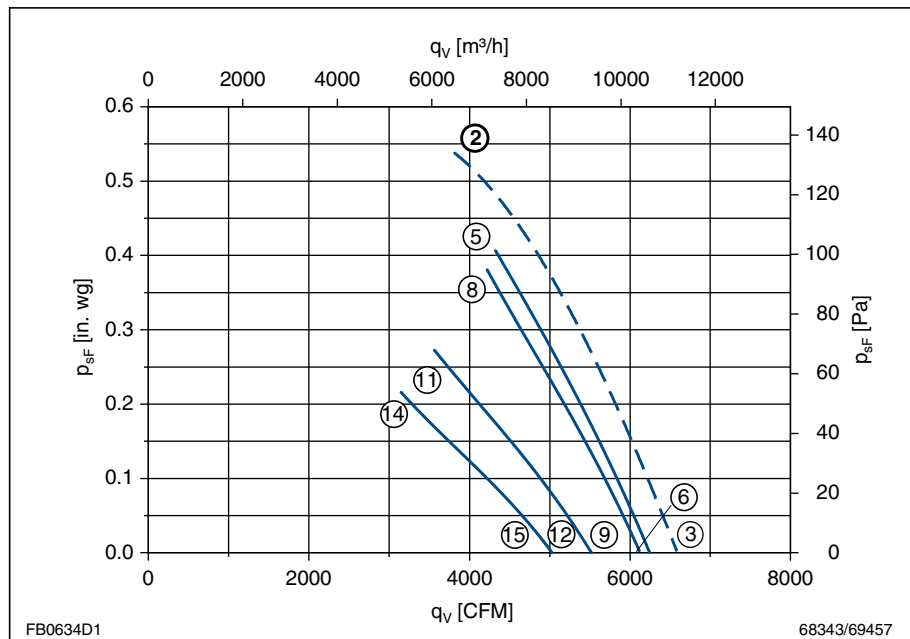
FB063-6D_.4I_.4L

Performance data

3 ~ 460V 60Hz

P_1	0.71	kW
I	1.20	A
n	1090	rpm
I_A	5	A
ΔI	15	%
$t_R^{(2)}$	65/149	°C/°F
$t_R^{(5)}$	65/149	°C/°F

Characteristic data

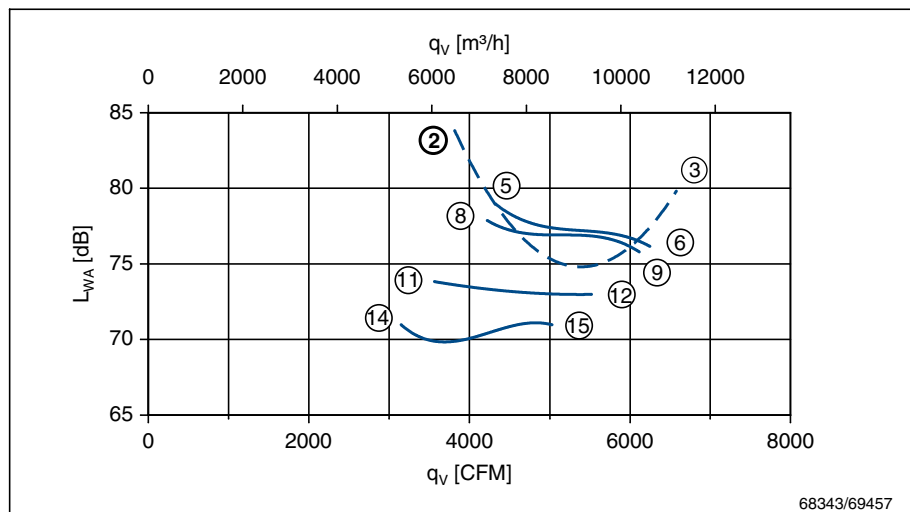


	U	I	P ₁	n
	V	A	W	rpm
②	460	1.20	710	1090
③		0.98	470	1140
⑤	460	1.20	690	1100
⑥		1.00	520	1130
⑧	400	1.15	650	1060
⑨		0.97	500	1100
⑪	265	1.30	520	890
⑫		1.05	420	990
⑭	230	1.30	450	790
⑮		1.10	380	900

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

... 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



Dimension sheet

Type	Article no.	Design	Airflow direction	Weight kg 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

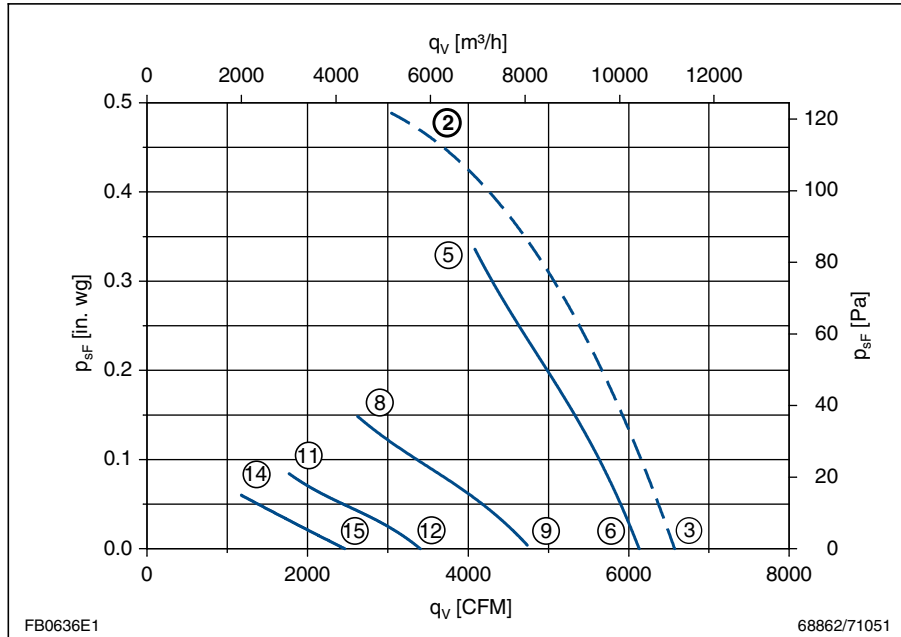
FB063-6E_.4l_.4L

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
$t_R^{(2)}$	70/158	$^{\circ}C/^{\circ}F$
$t_R^{(5)}$	70/158	$^{\circ}C/^{\circ}F$

Characteristic data

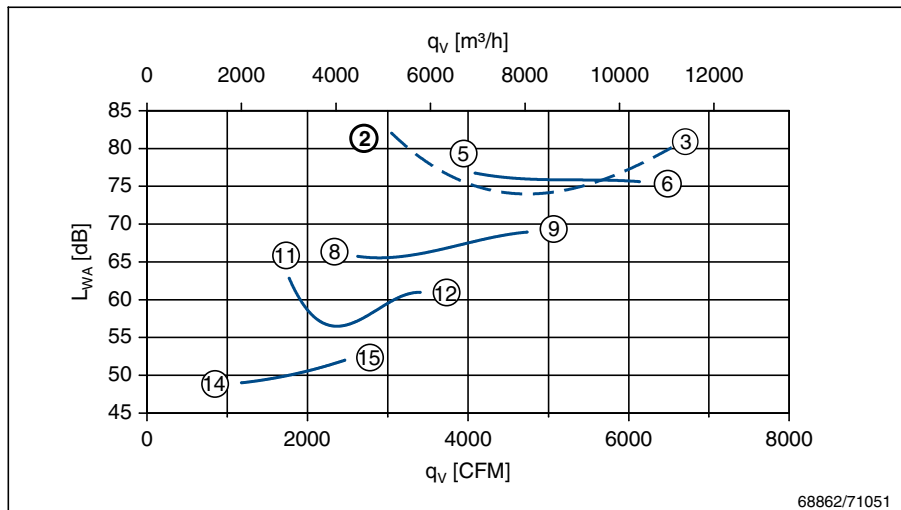


	U	I	P_1	n
	V	A	W	rpm
②	115	6.7	750	970
③		4.5	510	1110
⑤	115	6.0	660	1010
⑥		4.7	540	1090
⑧	85	5.7	430	660
⑨		5.2	410	850
⑪	68	4.7	280	500
⑫		4.6	280	600
⑭	55	3.9	180	350
⑮		3.8	180	440

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

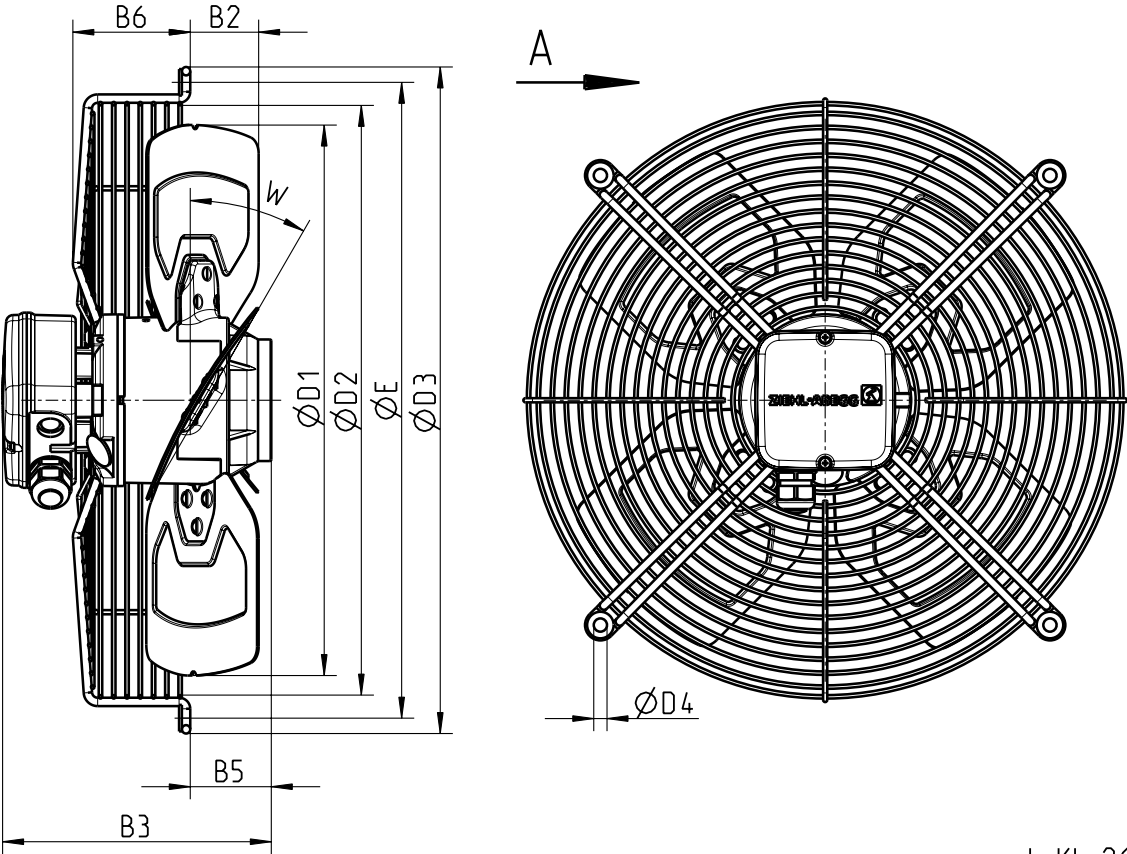
..... measured in full bell mouth
without guard grille in installation
type A according to ISO 5801

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



Dimension sheet

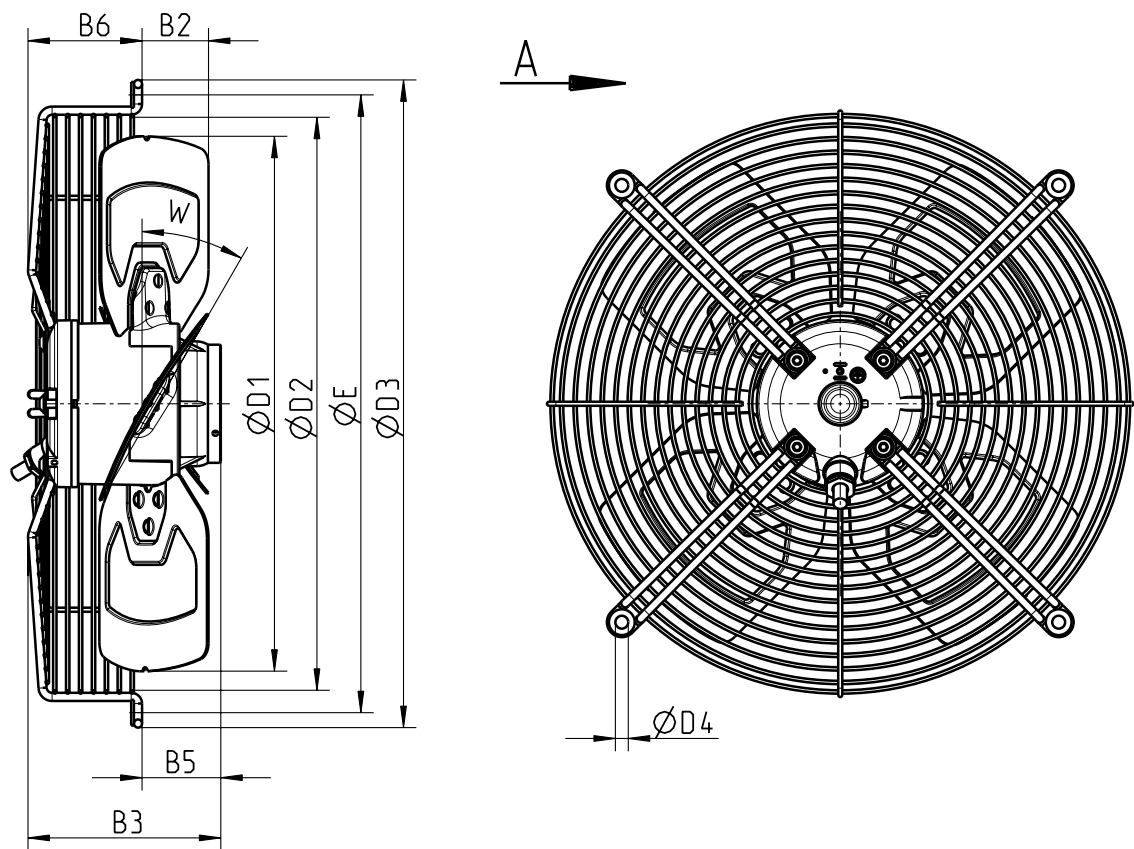
Type	Article no.	Design	Airflow direction	Weight		Connection diagram	Dimension sheet	Page
				kg	lbs.			
FB063-6EW.4l.A4L	141 569	W	A	12	27	118XB	L-KL-2699	133
FB063-6EK.4l.V4L	141 570	K	V	13	28	117XA	L-KL-2700	137



L-KL-2693

Type	Article no.	B2		B3		B5		B6		D1		D2		D3		D4		E		W
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
FB035-4DW.2C.A4P	141 506	78	3.07	178	7.01	72	2.83	40	1.57	351	13.82	372	14.65	440	17.32	9.5	0.37	420	16.54	P
FB040-4DW.2C.A4P	141 510	50	1.97	178	7.01	44	1.73	84	3.31	395	15.55	422	16.61	477	18.78	9.5	0.37	455	17.91	P

L-KL-2693



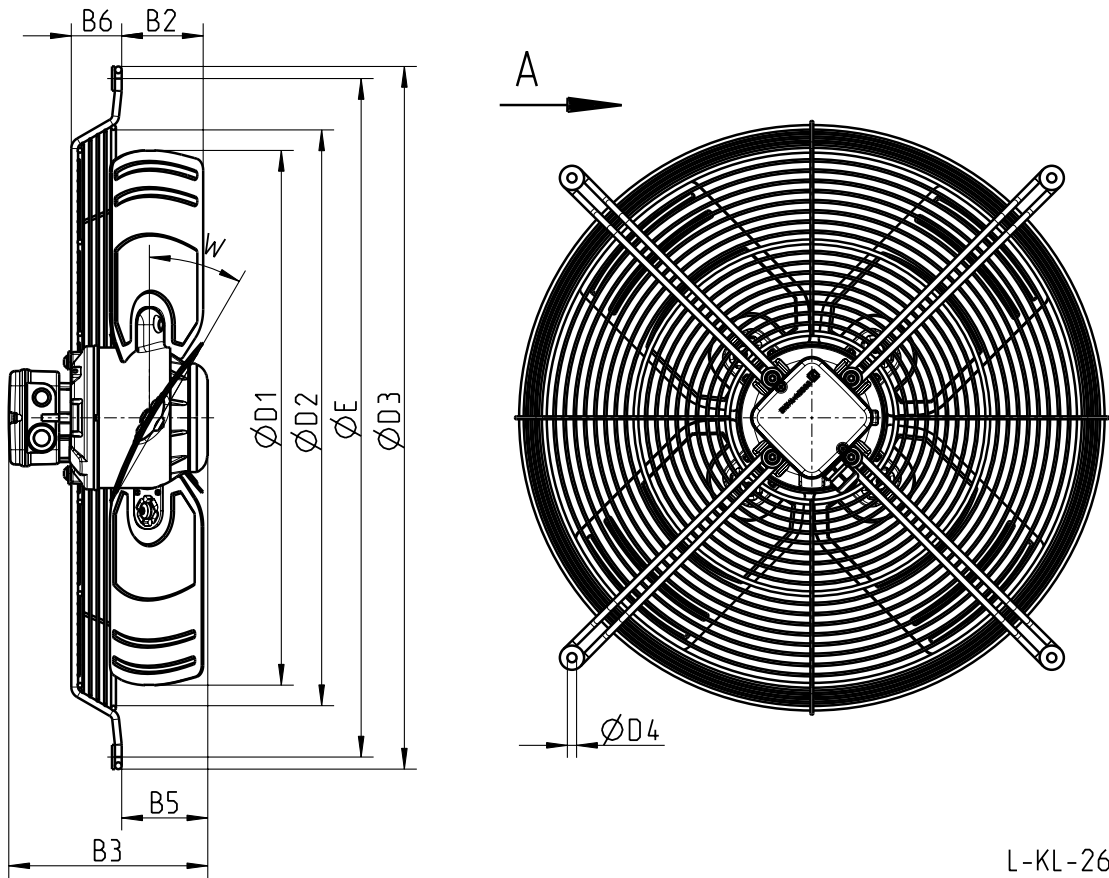
L-KL-2695

Type	Article no.	B2		B3		B5		B6		D1		D2		D3		D4		E		W
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
FB035-4EW.2C.A4P	141 508	78	3.07	113	4.45	72	2.83	40	1.57	351	13.82	372	14.65	440	17.32	9.5	0.37	420	16.54	P
FB040-4EW.2F.A4P	141 512	50	1.97	143	5.63	59	2.32	84	3.31	395	15.55	422	16.61	477	18.78	9.5	0.37	455	17.91	P

L-KL-2695

Electrical connection
Connection cable





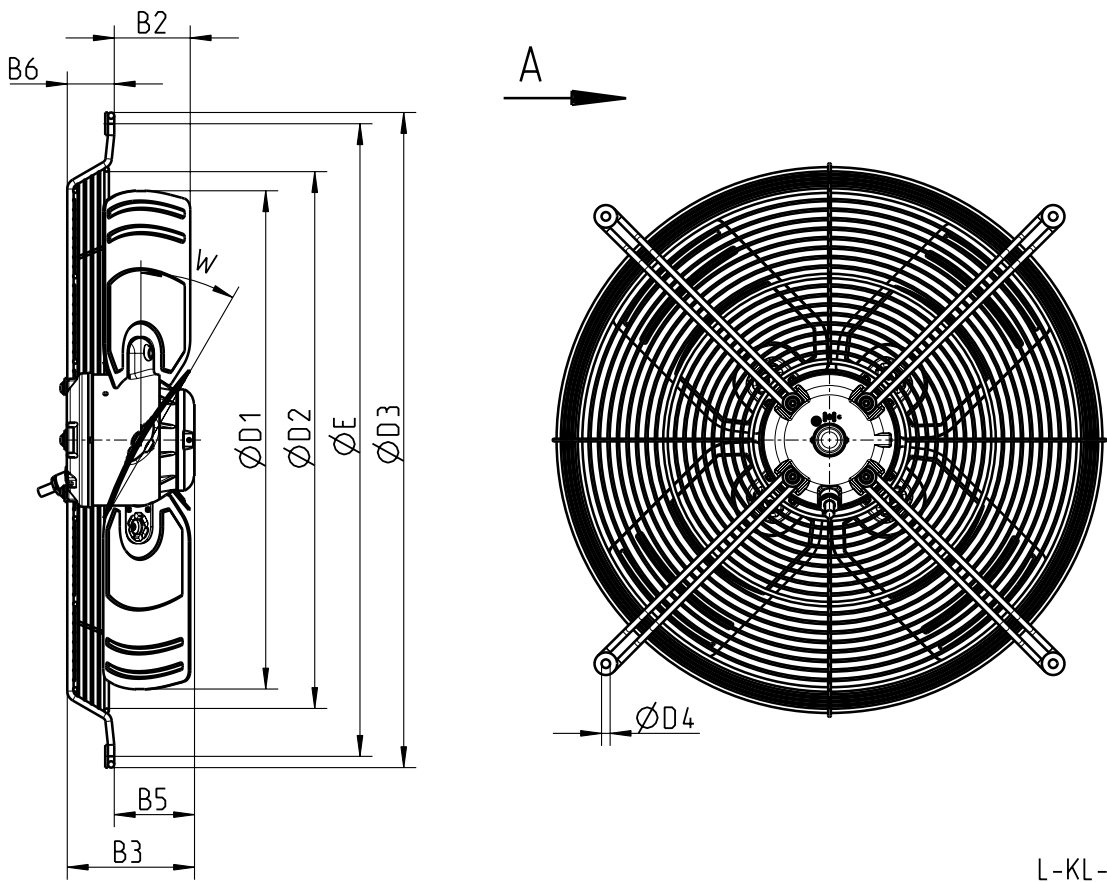
L-KL-2697

Type	Article no.	B2		B3		B5		B6		D1		D2		D3		D4		E		W
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
FB045-4DW.4I.A4P	141 514	89	3.5	225	8.86	114	4.49	46	1.81	445	17.52	481	18.94	582	22.91	9.5	0.37	560	22.05	P
FB050-4DW.4I.A4P	141 518	62	2.44	225	8.86	84	3.31	97	3.82	497	19.57	524	20.63	589	23.19	9.5	0.37	565	22.24	P
FB056-6DW.4I.A4P	141 522	84	3.31	225	8.86	109	4.29	52	2.05	552	21.73	594	23.39	725	28.54	9.5	0.37	700	27.56	P
FB063-6DW.4I.A4L	141 529	66	2.6	225	8.86	100	3.94	62	2.44	627	24.69	696	27.4	775	30.51	9.5	0.37	750	29.53	L

L-KL-2697

FB

Electrical connection
Terminal box K62

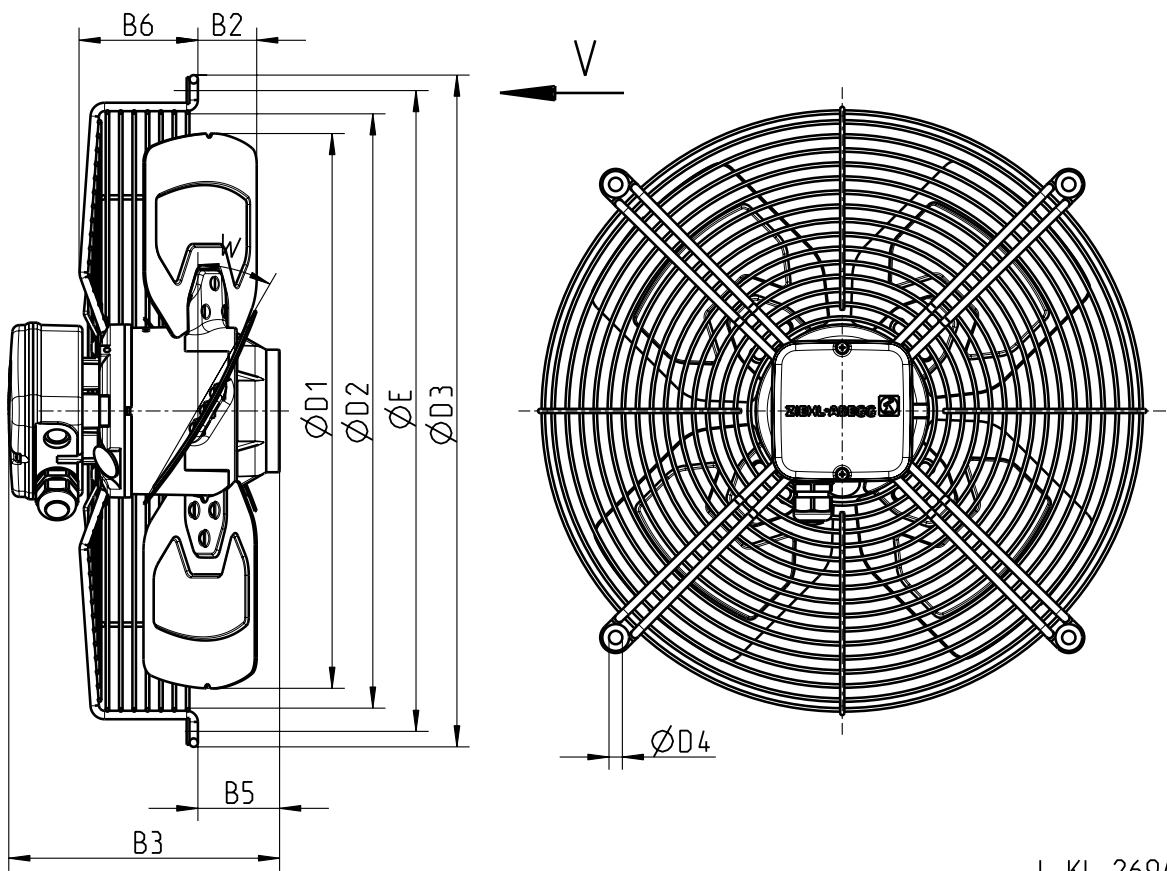


L-KL-2699

Type	Article no.	B2		B3		B5		B6		D1		D2		D3		D4		E		W
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
FB045-4EW.4I.A4P	141 516	89	3.5	161	6.34	114	4.49	46	1.81	445	17.52	481	18.94	582	22.91	9.5	0.37	560	22.05	P
FB050-4EW.4I.A4P	141 520	62	2.44	181	7.13	84	3.31	97	3.82	497	19.57	524	20.63	589	23.19	9.5	0.37	565	22.24	P
FB056-6EW.4I.A4P	141 524	84	3.31	161	6.34	109	4.29	52	2.05	552	21.73	594	23.39	725	28.54	9.5	0.37	700	27.56	P
FB063-6EW.4I.A4L	141 569	68	2.68	161	6.34	100	3.94	97	3.82	627	24.69	696	27.4	782	30.79	9.5	0.37	750	29.53	L

L-KL-2699

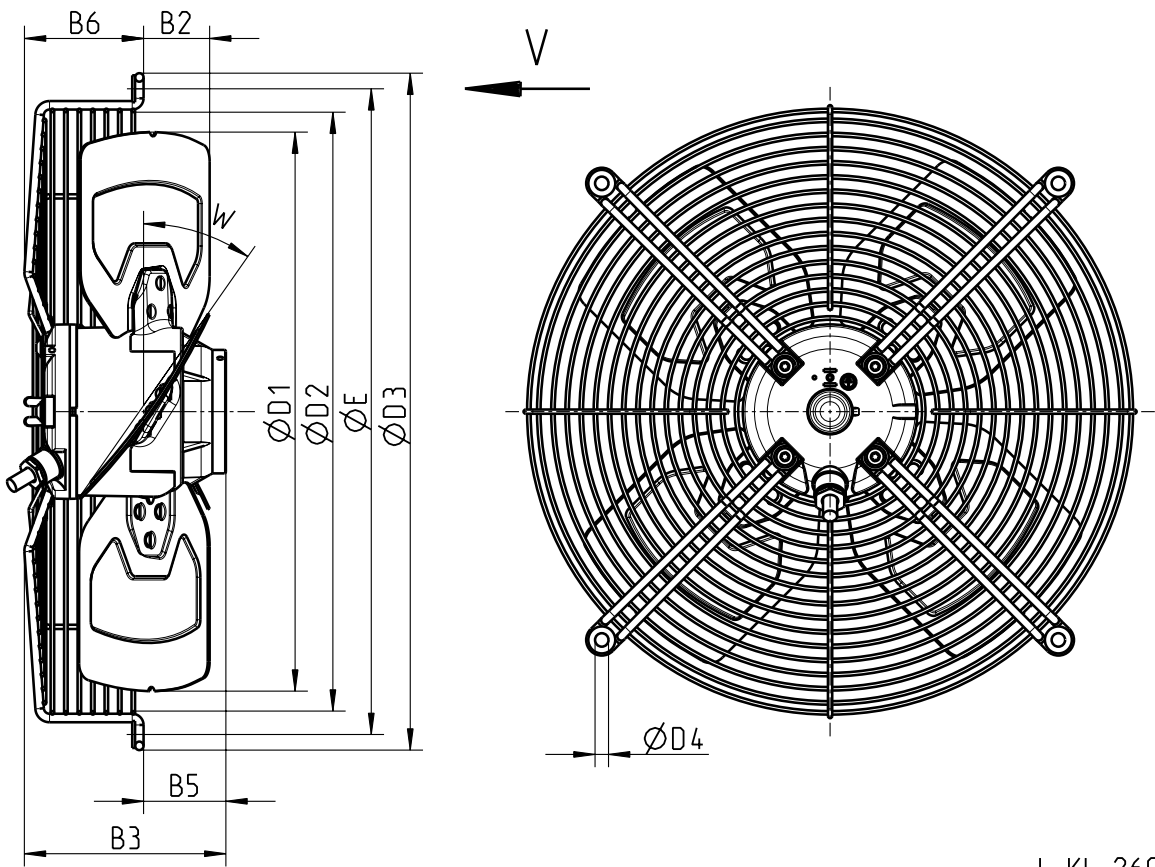
Electrical connection
Connection cable



L-KL-2694

Type	Article no.	B2		B3		B5		B6		D1		D2		D3		D4		E	W
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
FB035-4DK.2C.V4P	141 507	46	1.81	178	7.01	43	1.69	84	3.31	351	13.82	369	14.53	413	16.26	9.5	0.37	395	15.55
FB040-4DK.2C.V4P	141 511	42	1.65	178	7.01	43	1.69	84	3.31	395	15.55	422	16.61	477	18.78	9.5	0.37	455	17.91

L-KL-2694

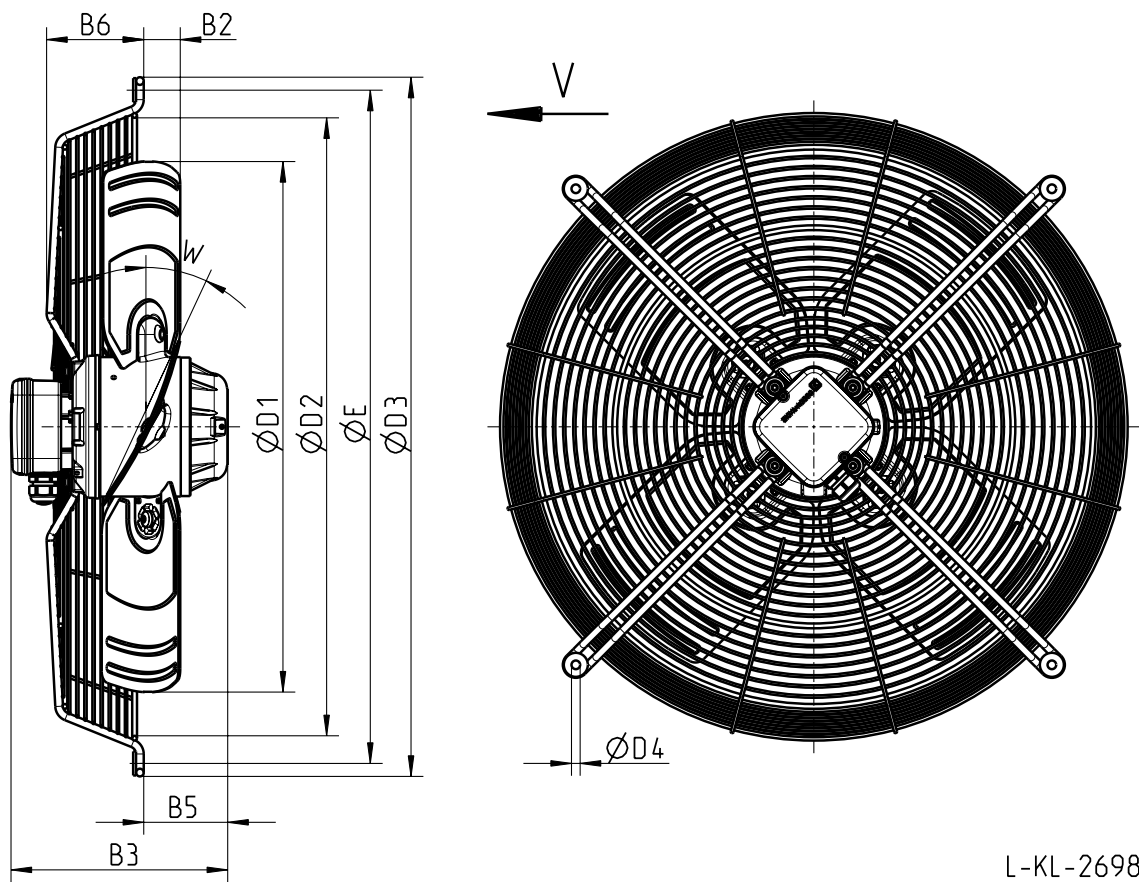


L-KL-2696

Type	Article no.	B2		B3		B5		B6		D1		D2		D3		D4		E		W
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
FB035-4EK.2C.V4P	141 509	46	1.81	127	5	43	1.69	84	3.31	351	13.82	369	14.53	413	16.26	9.5	0.37	395	15.55	P
FB040-4EK.2F.V4P	141 513	42	1.65	142	5.59	58	2.28	84	3.31	395	15.55	422	16.61	477	18.78	9.5	0.37	455	17.91	P

L-KL-2696

Electrical connection
Connection cable



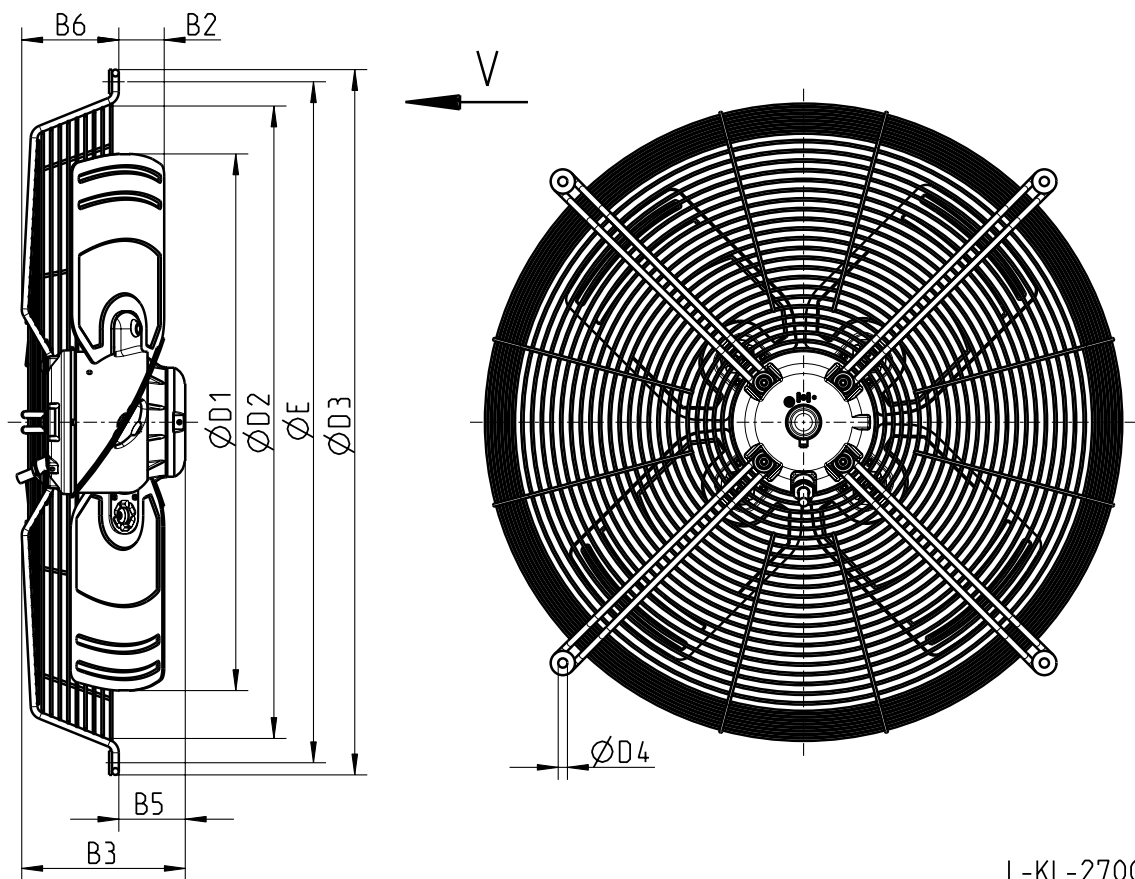
L-KL-2698

Type	Article no.	B2		B3		B5		B6		D1		D2		D3		D4		E		W
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
FB045-4DK.4I.V4P	141 515	46	1.81	225	8.86	88	3.46	96	3.78	445	17.52	474	18.66	539	21.22	9.5	0.37	515	20.28	P
FB050-4DK.4I.V4P	141 519	46	1.81	225	8.86	88	3.46	96	3.78	497	19.57	524	20.63	590	23.23	9.5	0.37	565	22.24	P
FB056-6DK.4I.V4P	141 523	48	1.89	225	8.86	88	3.46	100	3.94	552	21.73	647	25.47	725	28.54	9.5	0.37	700	27.56	P
FB063-6DK.4I.V4L	141 530	42	1.65	225	8.86	88	3.46	100	3.94	627	24.69	697	27.44	778	30.63	9.5	0.37	750	29.53	L

L-KL-2698

FB

Electrical connection
Terminal box K62



L-KL-2700

Type	Article no.	B2		B3		B5		B6		D1		D2		D3		D4		E		W
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
FB045-4EK.4I.V4P	141 517	46	1.81	184	7.24	88	3.46	96	3.78	445	17.52	474	18.66	539	21.22	9.5	0.37	515	20.28	P
FB050-4EK.4I.V4P	141 521	46	1.81	184	7.24	88	3.46	96	3.78	497	19.57	524	20.63	590	23.23	9.5	0.37	565	22.24	P
FB056-6EK.4I.V4P	141 525	48	1.89	188	7.4	88	3.46	100	3.94	552	21.73	647	25.47	725	28.54	9.5	0.37	700	27.56	P
FB063-6EK.4I.V4L	141 570	42	1.65	188	7.4	88	3.46	100	3.94	627	24.69	697	27.44	778	30.63	9.5	0.37	750	29.53	L

L-KL-2700

Electrical connection
Connection cable

