

FB

for single phase alternating current, 2 pole

FBO20-2E



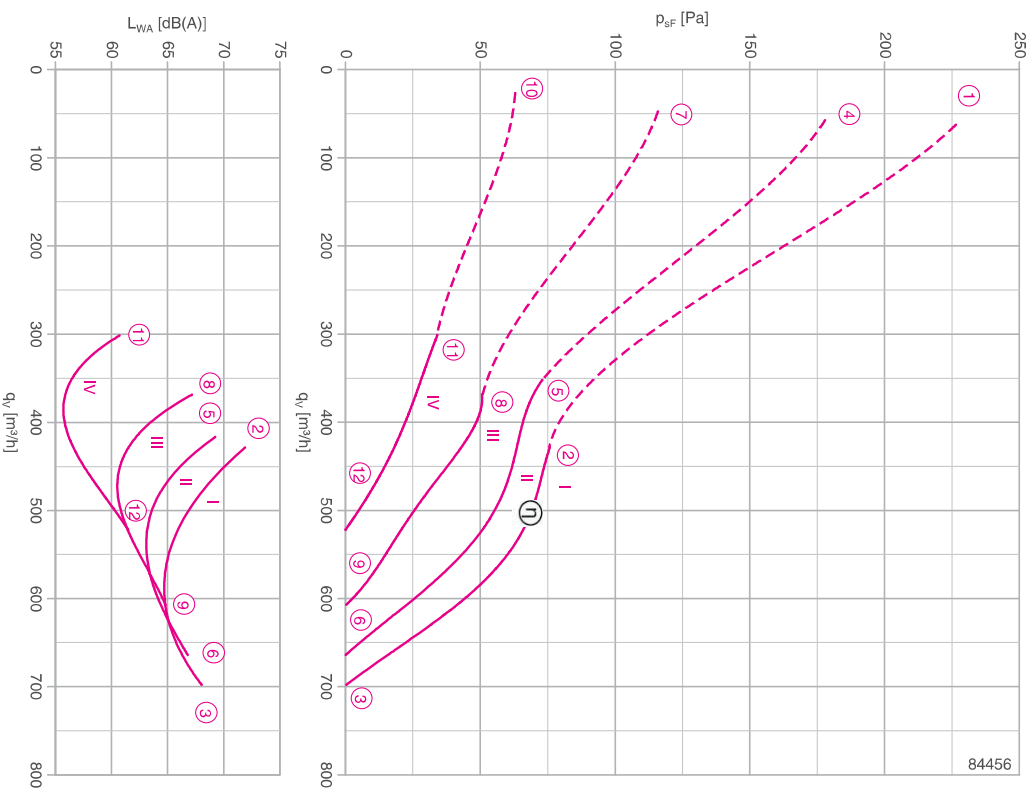
Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 0.05 kW*
 Rated current I_N : 0.26 A*
 Rated speed n_N : 2730 min⁻¹*
 Starting current I_A : 0.62 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 1.5 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{a(min)}$: -40 °C
 Max. permitted ambient temperature $t_{a(max)}$: 80 °C
 Electrical connection: Supply cable variable 45 cm
 Number of blades: 5
 Motor protection: thermal contact
 Blades: Steel, powder-coated, jet black
 Rotor: Aluminium, 1 coat paint; ultramarine blue
 Conformity: CE
ErP-data
 Not subject to the regulations of ErP directive ($P_1 < 125$ W)
 * Rated data

Connection diagram

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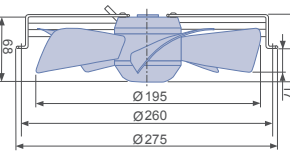
Characteristic curve



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

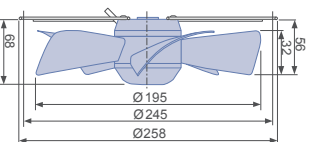
Airflow direction A

Design W - axial bolted, mounting for short bell mouth, guard grille suction side



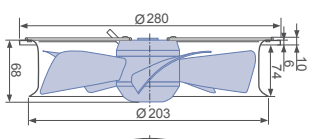
L-KL-2876-1

Design D - axial bolted, suspension for full bell mouth, guard grille suction side



L-KL-2872-1

Design L - round full bell mouth, guard grille suction side



L-KL-2874-1

Performance data



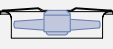


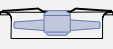
Type	Characteristic curve	Voltage U	Operating point	Current I	Input power P ₁	Speed n	Suction side sound power level L _{WAS}
		V		A	W	min ⁻¹	dB(A)
FB020-2E..W8..5	I	230	①	0.29	65	2600	72
		230*	②	0.26*	55*	2730*	68
		230	③	0.25	50	2770	68
		170	④	0.27	46	2300	69
		170	⑤	0.22	36	2550	69
		170	⑥	0.20	32	2640	67
		135	⑦	0.28	36	1850	67
		135	⑧	0.23	30	2260	67
		135	⑨	0.20	26	2420	65
		110	⑩	0.25	28	1350	61
110	⑪	0.23	24	1830	61		
110	⑫	0.21	22	2070	62		

*rated data

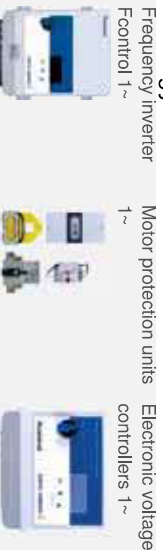
Fan ordering information

Airflow direction A

Airflow direction V

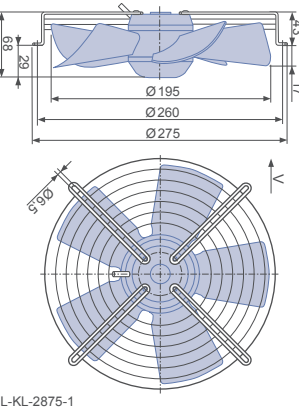
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
						
Type	FB020-2EW.W8.A5	FB020-2ED.W8.A5	FB020-2EL.W8.A5	FB020-2EK.W8.V5	FB020-2EI.W8.V5	FB020-2EH.W8.V5
Article no.	140543	139667	139674	138870	139688	139695
Weight kg	1.90	1.60	2.40	1.90	1.60	2.40

Control technology



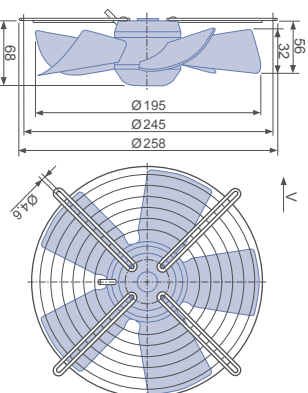
Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



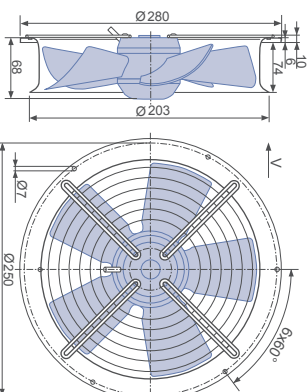
L-KL-2875-1

Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



L-KL-2871-1

Design H - pipe sockets with a flange, guard grille pressure side



L-KL-2873-1

FB

for single phase alternating current, 4 pole

FBO20-4E



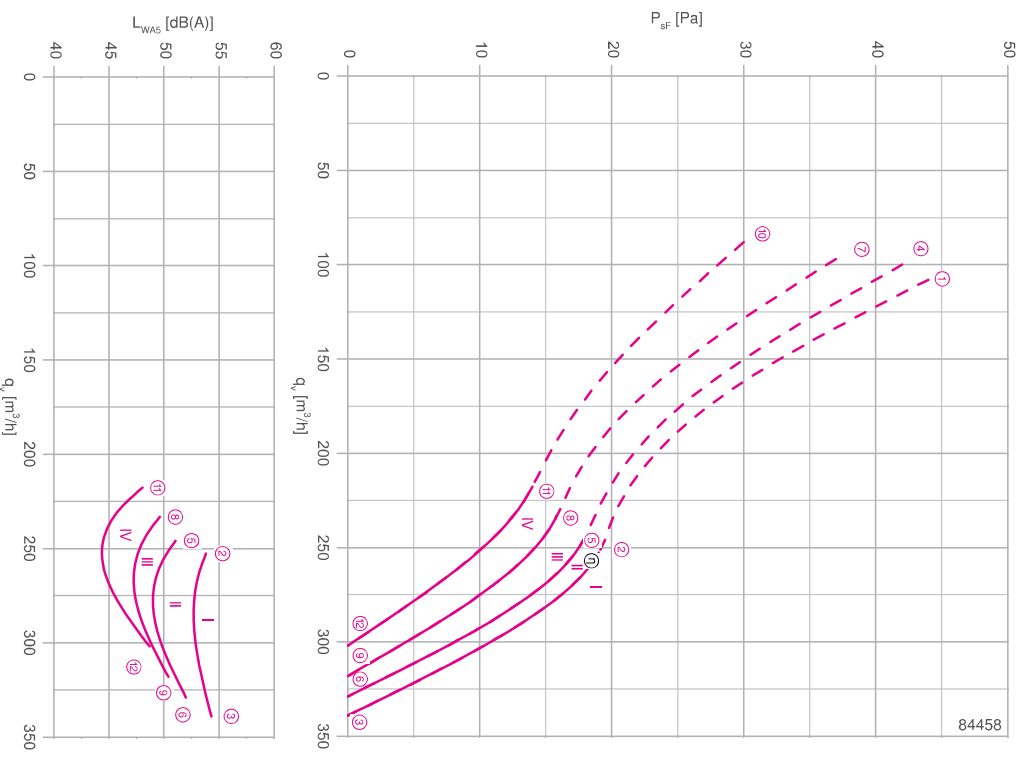
Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 0.03 kW*
 Rated current I_N : 0.15 A*
 Rated speed n_N : 1400 min⁻¹*
 Starting current I_s : 0.24 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 1.0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{a(min)}$: -40 °C
 Max. permitted ambient temperature $t_{a(max)}$: 70 °C
 Electrical connection: Supply cable variable 45 cm
 Number of blades: 5
 Motor protection: thermal contact
 Blades: Steel, powder-coated, jet black
 Rotor: Aluminium, 1 coat paint; ultramarine blue
 Conformity: CE
ERP-data
 Not subject to the regulations of ERP directive ($P_1 < 125$ W)
 * Rated data

Connection diagram

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Characteristic curve

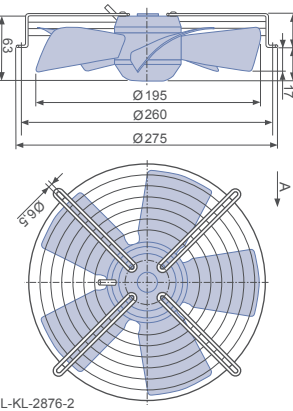


Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

Dimensions mm

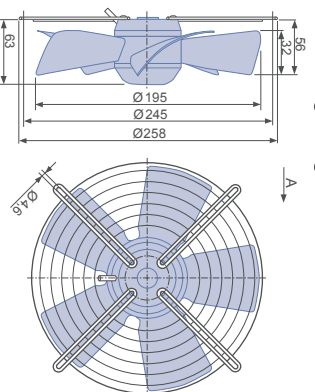
Airflow direction A

Design W - axial bolted, mounting for short bell mouth, guard grille suction side



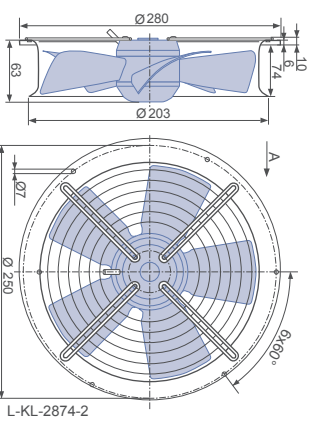
L-KL-2876-2

Design D - axial bolted, suspension for full bell mouth, guard grille suction side



L-KL-2872-2

Design L - round full bell mouth, guard grille suction side



L-KL-2874-2

Performance data

Type	Characteristic curve	Voltage U	Operating point	Current I	Input power P ₁	Speed n	Suction side sound power level L _{WAS}
		V		A	W	min ⁻¹	dB(A)
FB020-4E..W6..5	I	230	①	0.15	30	1390	54
		230*	②	0.15*	30*	1400*	54
		230	③	0.15	28	1410	54
		170	④	0.11	16	1340	51
		170	⑤	0.10	16	1360	51
		170	⑥	0.10	15	1380	52
		135	⑦	0.09	12	1260	50
		135	⑧	0.09	11	1300	50
		135	⑨	0.08	10	1330	50
		110	⑩	0.08	8	1130	48
		110	⑪	0.08	8	1200	48
		110	⑫	0.07	8	1260	49

*rated data

Fan ordering information

Airflow direction A

Airflow direction V

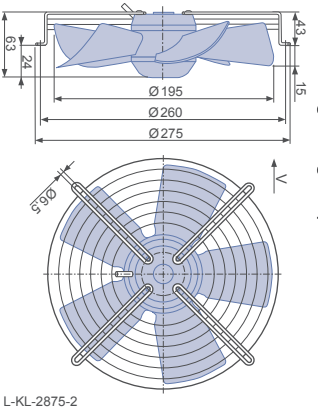
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
Type	FB020-4EW.W6.A5	FB020-4ED.W6.A5	FB020-4EL.W6.A5	FB020-4EK.W6.V5	FB020-4EI.W6.V5	FB020-4EH.W6.V5
Article no.	140544	139668	139675	138871	139689	139696
Weight kg	1.70	1.40	2.20	1.70	1.40	2.20

Control technology



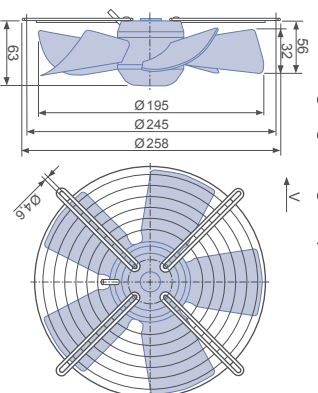
Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



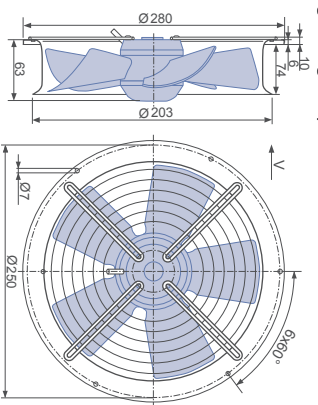
L-KL-2875-2

Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



L-KL-2871-2

Design H - pipe sockets with a flange, guard grille pressure side



L-KL-2873-2

FB

for single phase alternating current, 2 pole

FBO25-2E



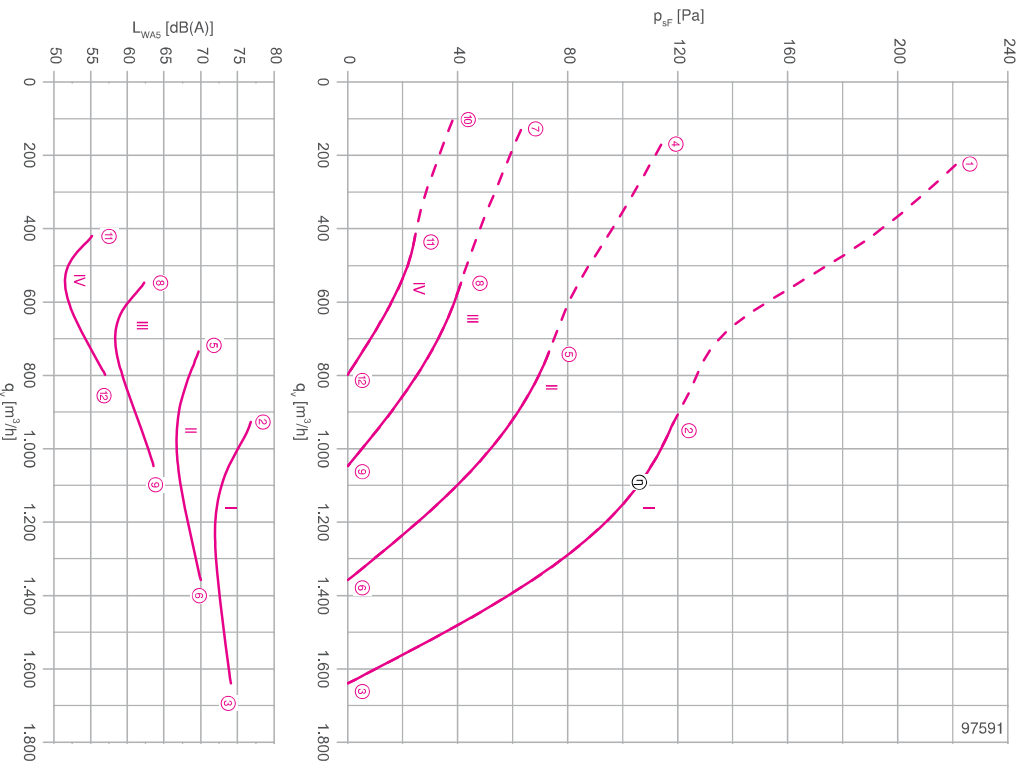
Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 0.12 kW*
 Rated current I_N : 0.54 A*
 Rated speed n_N : 2380 min⁻¹*
 Starting current I_s : 0.95 A
 Service capacitor C_{400V} : 4.0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -40 °C
 Max. permitted ambient temperature $t_{(max)}$: 75 °C
 Electrical connection: Supply cable variable 45 cm
 Number of blades: 5
 Motor protection: thermal contact
 Blades: Steel, powder-coated, jet black
 Rotor: Aluminium, 1 coat paint, ultramarine blue
 Conformity: CE
ERP-data
 Not subject to the regulations of ERP directive ($P_1 < 125$ W)
 * Rated data

Connection diagram

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Characteristic curve

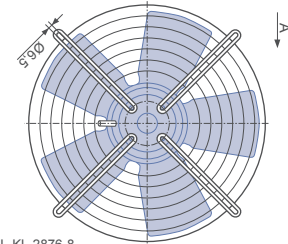
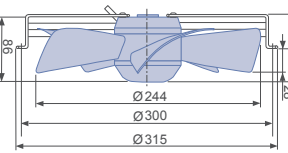


Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

Dimensions mm

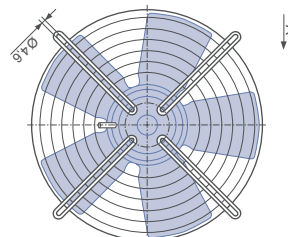
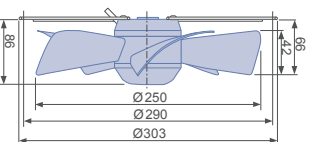
Airflow direction A

Design W - axial bolted, mounting for short bell mouth, guard grille suction side



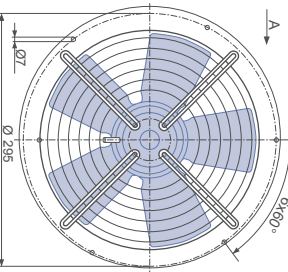
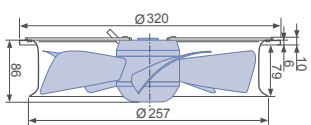
L-KL-2876-8

Design D - axial bolted, suspension for full bell mouth, guard grille suction side



L-KL-2872-8

Design L - round full bell mouth, guard grille suction side



L-KL-2874-8

Performance data



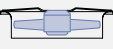


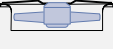
Type	Characteristic curve	Voltage U	Operating point	Current I _A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WAS} dB(A)
FB025-2E..WC..5	I	230	①	0.62	140	2140	77
			②	0.54*	120*	2400*	74
			③	0.48	110	2530	74
			④	0.56	95	1550	70
			⑤	0.52	90	1880	70
			⑥	0.48	80	2120	70
			⑦	0.46	65	1150	63
			⑧	0.46	60	1410	63
			⑨	0.44	60	1630	64
			⑩	0.39	42	900	55
			⑪	0.38	42	1080	55
			⑫	0.38	42	1250	57

*rated data

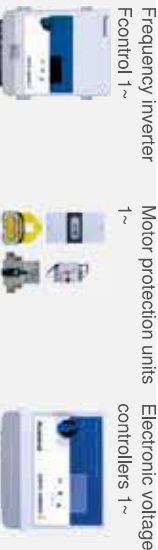
Fan ordering information

Airflow direction A

Airflow direction V

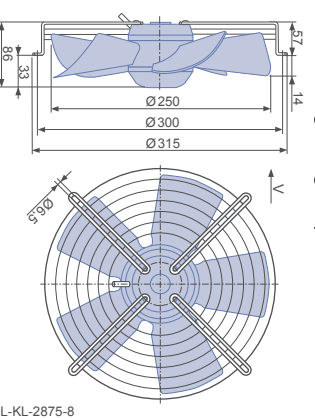
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
						
Type	FB025-2EW.WC.A5	FB025-2ED.WC.A5	FB025-2EL.WC.A5	FB025-2EK.WC.V5	FB025-2EI.WC.V5	FB025-2EH.WC.V5
Article no.	162800	162798	162799	162796	162794	162795
Weight kg	2.90	2.60	3.60	3.00	2.60	3.50

Control technology

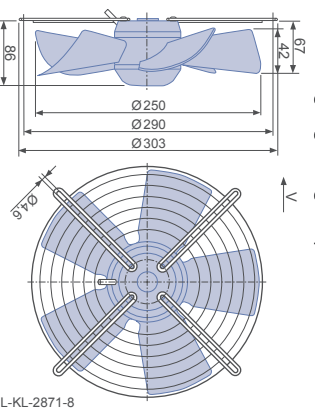


Airflow direction V

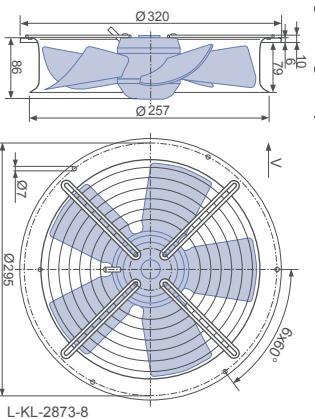
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side



FB

for single phase alternating current, 4 pole

FBO25-4E

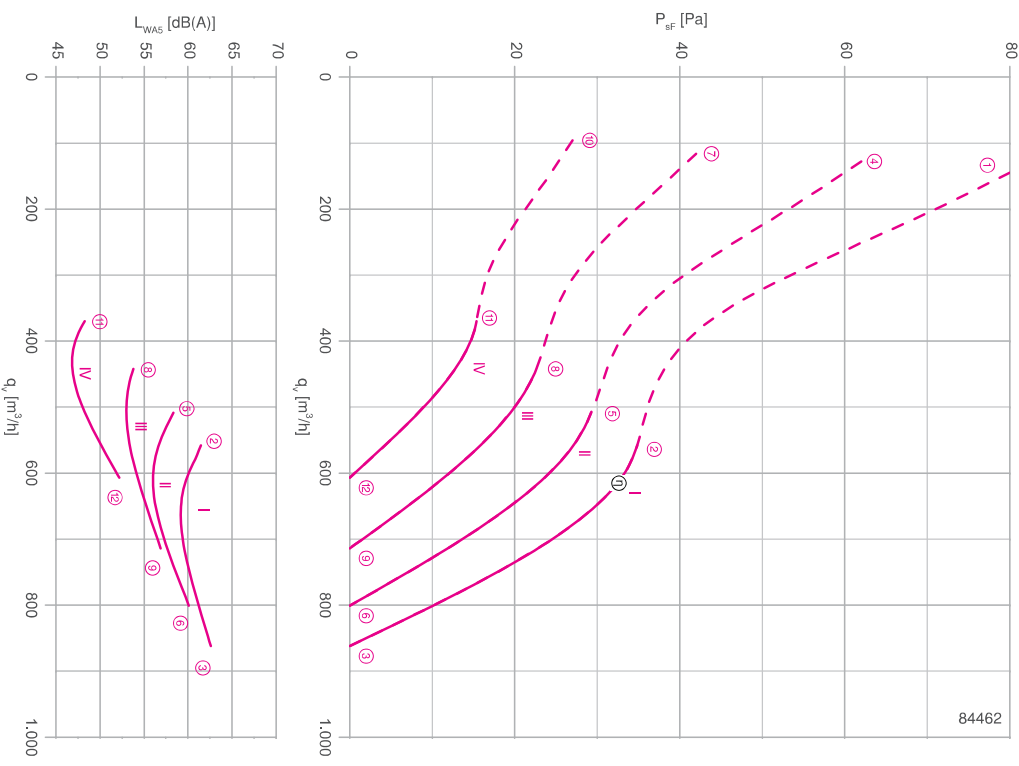


Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 0.04 kW*
 Rated current I_N : 0.16 A*
 Rated speed n_N : 1340 min⁻¹*
 Starting current I_A : 0.30 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 1.5 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{a(min)}$: -40 °C
 Max. permitted ambient temperature $t_{a(max)}$: 80 °C
 Electrical connection: Supply cable variable 45 cm
 Number of blades: 5
 Motor protection: thermal contact
 Blades: Steel, powder-coated, jet black
 Rotor: Aluminium, 1 coat paint; ultramarine blue
 Conformity: CE
ErP-data
 Not subject to the regulations of ErP directive ($P_1 < 125$ W)
 * Rated data

Connection diagram
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Characteristic curve

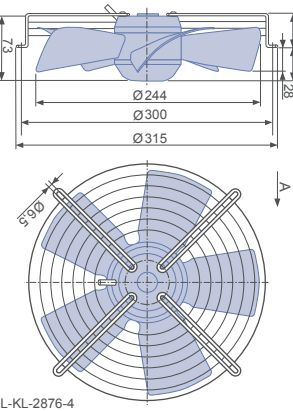


Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

Dimensions mm

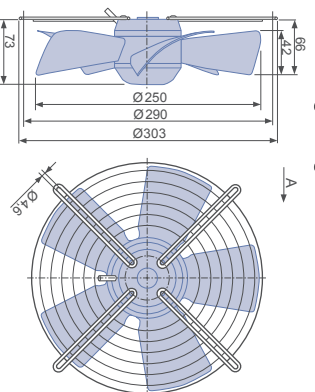
Airflow direction A

Design W - axial bolted, mounting for short bell mouth, guard grille suction side



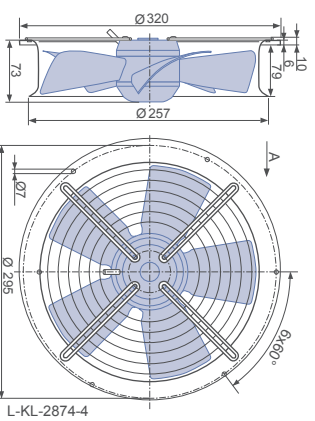
L-KL-2876-4

Design D - axial bolted, suspension for full bell mouth, guard grille suction side



L-KL-2872-4

Design L - round full bell mouth, guard grille suction side



L-KL-2874-4

Performance data



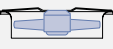


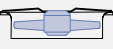
Type	Characteristic curve	Voltage U	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)
FB025-4E-WA..5	I	230	①	0.17	40	1300	62
			②	0.16*	36*	1340*	63
			③	0.16	36	1370	63
			④	0.15	26	1140	59
			⑤	0.14	24	1220	59
			⑥	0.14	22	1270	60
			⑦	0.14	19	950	54
			⑧	0.13	18	1060	54
			⑨	0.12	17	1130	57
			⑩	0.13	14	760	48
			⑪	0.12	13	880	48
			⑫	0.11	12	950	52

*rated data

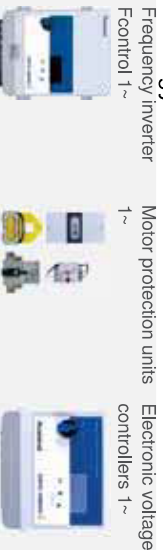
Fan ordering information

Airflow direction A

Airflow direction V

Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
						
Type	FB025-4EW.WA.A5	FB025-4ED.WA.A5	FB025-4EL.WA.A5	FB025-4EK.WA.V5	FB025-4EI.WA.V5	FB025-4EH.WA.V5
Article no.	140546	139670	139677	138873	139691	139698
Weight kg	2.40	2.10	3.10	2.50	2.10	3.10

Control technology

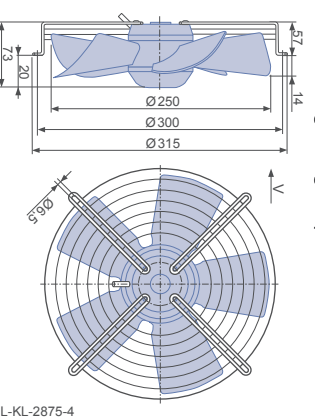


Airflow direction V

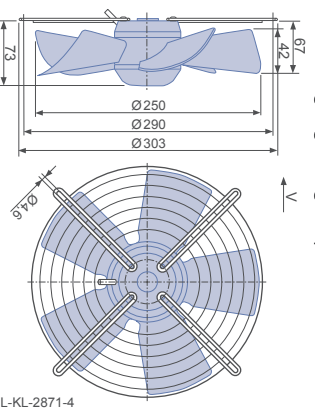
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side

Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side

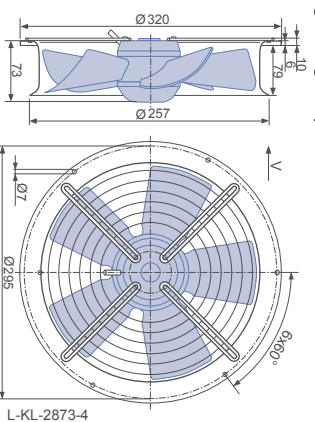
Design H - pipe sockets with a flange, guard grille pressure side



L-KL-2875-4



L-KL-2871-4



L-KL-2873-4

FB

for single phase alternating current, 4 pole

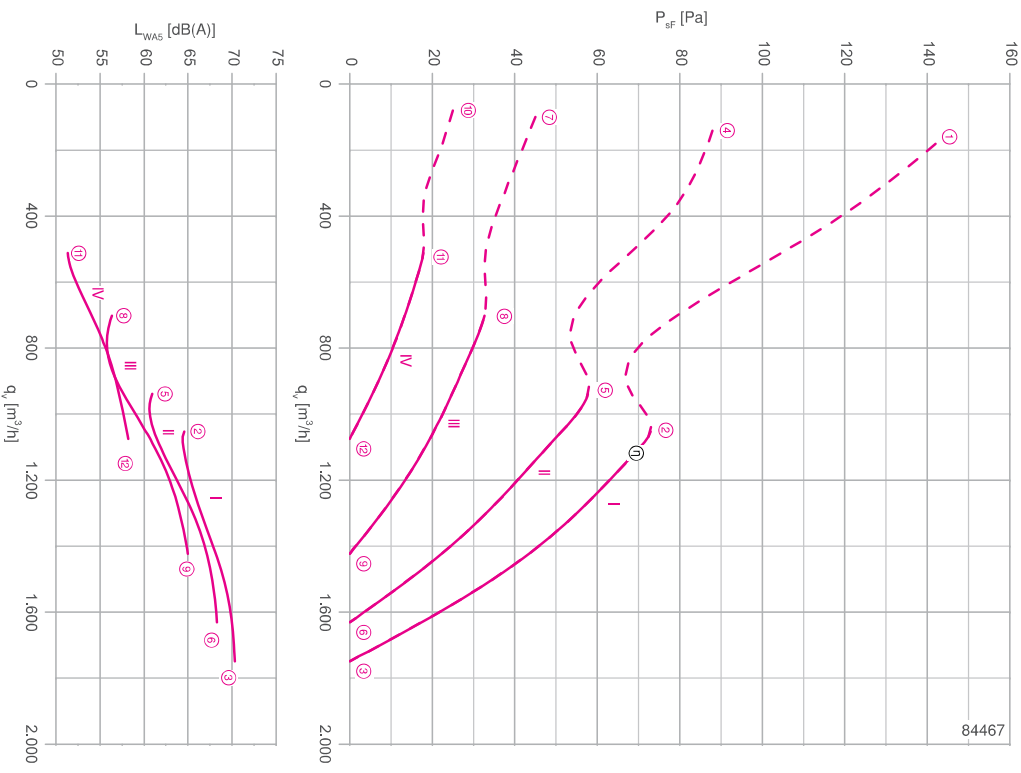
FB030-4E



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 0.09 kW*
 Rated current I_N : 0.39 A*
 Rated speed n_N : 1360 min⁻¹*
 Starting current I_A : 0.77 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 3.0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{a(min)}$: -40 °C
 Max. permitted ambient temperature $t_{a(max)}$: 65 °C
 Electrical connection: Supply cable variable 45 cm
 Number of blades: 5
 Motor protection: thermal contact
 Blades: Steel, powder-coated, jet black
 Rotor: Aluminium, 1 coat paint, ultramarine blue
 Conformity: CE
ErP-data
 Not subject to the regulations of ErP directive ($P_1 < 125$ W)
 * Rated data

Characteristic curve



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

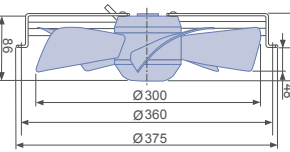
Connection diagram

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Dimensions mm

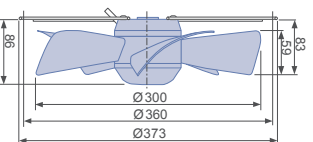
Airflow direction A

Design W - axial bolted, mounting for short bell mouth, guard grille suction side



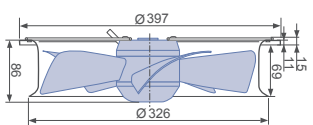
L-KL-2876-6

Design D - axial bolted, suspension for full bell mouth, guard grille suction side



L-KL-2872-6

Design L - round full bell mouth, guard grille suction side



L-KL-2874-6

Performance data

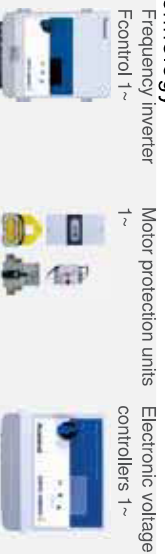
Type	Characteristic curve	Voltage U	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WAS} dB(A)
FB030-4E.WC.V5	I	230	①	0.44	100	1300	65
		230*	②	0.39*	90*	1360*	65
		230	③	0.35	80	1400	70
		170	④	0.44	75	1030	61
		170	⑤	0.38	65	1200	61
		170	⑥	0.32	55	1320	68
		135	⑦	0.39	50	730	56
		135	⑧	0.37	50	910	56
		135	⑨	0.32	44	1150	65
		110	⑩	0.33	36	540	51
		110	⑪	0.33	34	650	51
		110	⑫	0.31	34	870	58

*rated data

Fan ordering information

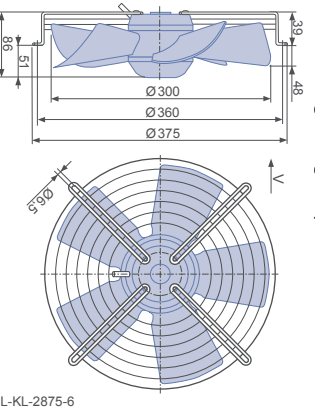
Airflow direction A		Airflow direction V				
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
Type	FB030-4EW.WC.A5	FB030-4ED.WC.A5	FB030-4EL.WC.A5	FB030-4EK.WC.V5	FB030-4EI.WC.V5	FB030-4EH.WC.V5
Article no.	141627	141625	141626	141625	141628	141629
Weight kg	3.30	3.00	4.50	3.30	3.00	4.60

Control technology

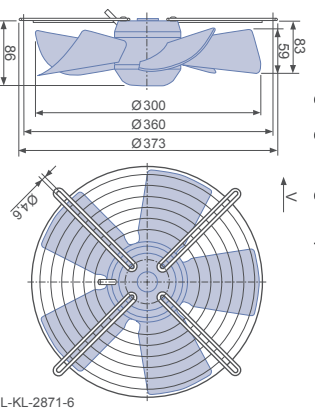


Airflow direction V

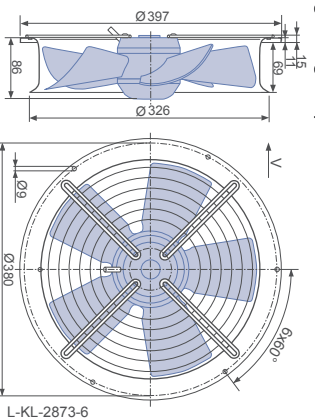
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side



FB

for single phase alternating current, 4 pole

FBO35-4E

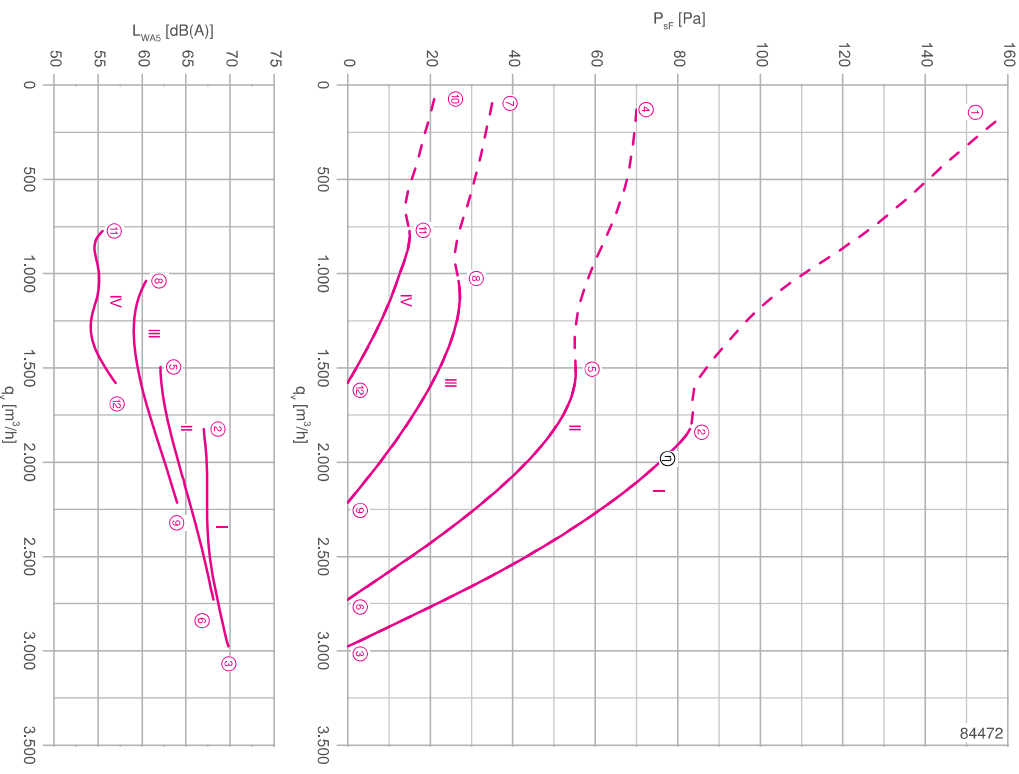


Description

Motor technology: AC
Rated voltage U_N : 1 ~ 230 V*
Rated frequency f_N : 50 Hz* (60Hz data available)
Input power P_1 : 0.15 kW*
Rated current I_N : 0.68 A*
Rated speed n_N : 1290 min⁻¹*
Starting current I_s : 1.10 A
Current increase ΔI : 0 %
Service capacitor C_{400V} : 5.0 μ F
Thermal class: **THCL155***
Min. permitted ambient temperature t_{ambmin} : -40 °C
Max. permitted ambient temperature t_{ambmax} : 65 °C
Electrical connection: Supply cable variable 45 cm
Number of blades: 5
Motor protection: thermal contact
Blades: Steel, powder-coated, jet black
Rotor: Aluminium, 1 coat paint, ultramarine blue
Conformity: EFP 2015, CE
EFP-data
Efficiency η_{rated} : 28.8 %
Efficiency: $\eta_{\text{actual}} = 40.3 / \eta_{\text{target}} = 40$ **
* Rated data
** EFP 2015

Connection diagram
Page 192
1360-177X

Characteristic curve

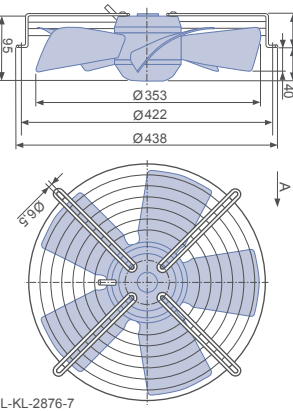


Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

Dimensions mm

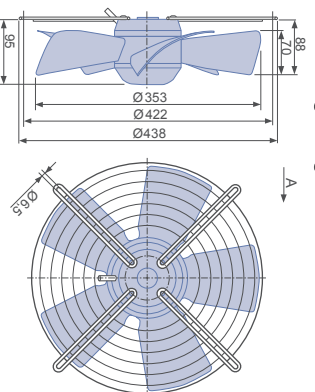
Airflow direction A

Design W - axial bolted, mounting for short bell mouth, guard grille suction side



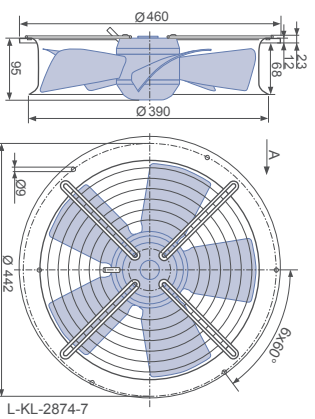
L-KL-2876-7

Design D - axial bolted, suspension for full bell mouth, guard grille suction side



L-KL-2872-7

Design L - round full bell mouth, guard grille suction side



L-KL-2874-7

Performance data

Type	Characteristic curve	Voltage U	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{wAS} dB(A)
FB035-4E_WD_5	I	230	①	0.82	190	1120	67
		230*	②	0.68*	150*	1290*	
		230	③	0.56	130	1360	
		170	④	0.74	120	740	
		170	⑤	0.66	110	1060	
		170	⑥	0.54	90	1260	
		135	⑦	0.60	80	520	
		135	⑧	0.58	75	740	
		135	⑨	0.52	70	1020	
		110	⑩	0.48	50	410	
		110	⑪	0.48	50	540	
		110	⑫	0.46	50	730	

*rated data

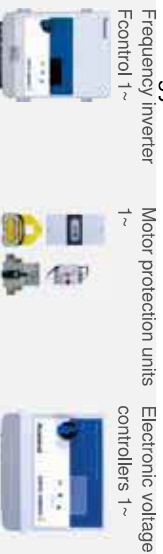
Fan ordering information

Airflow direction A

Airflow direction V

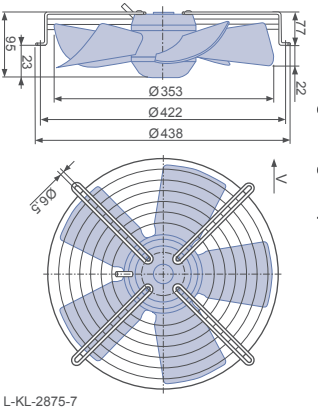
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
Type	FB035-4EW.WD.A5	FB035-4ED.WD.A5	FB035-4EL.WD.A5	FB035-4EK.WD.V5	FB035-4EI.WD.V5	FB035-4EH.WD.V5
Article no.	152697	152695	152696	152700	152698	152699
Weight kg	4.50	4.00	6.00	4.60	4.00	6.00

Control technology

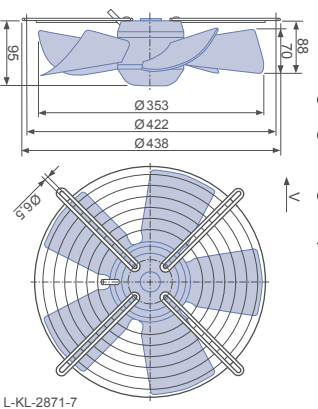


Airflow direction V

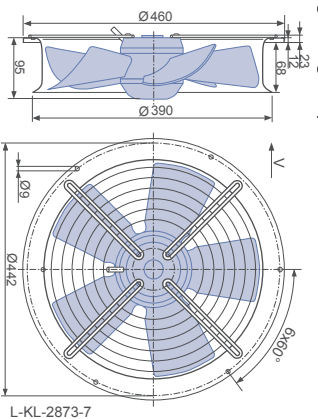
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side



FB

for single phase alternating current, 6 pole

FBO35-GE



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V±10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 100 W*
 Rated current I_N : 0,49 A*
 Rated speed n_N : 930 min⁻¹*
 Starting current I_A : 0,95 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 2,5 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -25 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: CE

ERP-data
 Not subject to the regulations of ERP directive ($P_1 < 125$ W)
 * Rated data

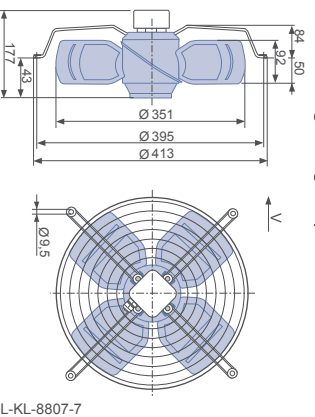
Connection diagram

Page 192
1360-104XA

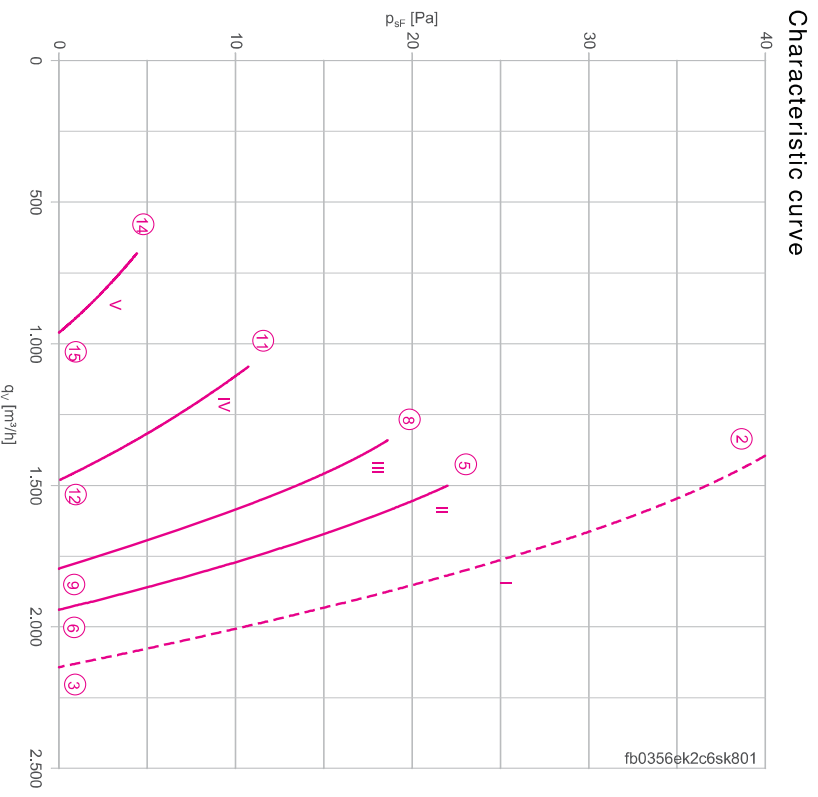
Dimensions mm

Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-7



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB035-6E_2C.V4S	I	230*	②	0.49*	100*	930*	
		230	③	0.43	89	940	
	II	230	⑤	0.40	80	920	61
		230	⑥	0.39	78	940	61
	III	160	⑧	0.36	54	850	60
		160	⑨	0.34	51	870	59
	IV	130	⑪	0.39	45	660	55
		130	⑫	0.37	44	720	54
	V	105	⑭	0.35	32	440	
		105	⑮	0.34	31	460	

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB035-6EK.2C.V4S
Article no. 124159

Weight kg 4.80

Control technology

Frequency inverter Fcontrol 1~

Motor protection units 1~

Electronic voltage controllers 1~



FB

for three phase alternating current, 4-4 pole

FB035-VD



Description

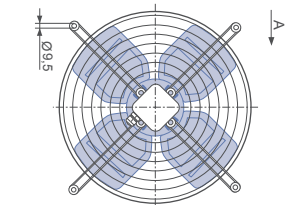
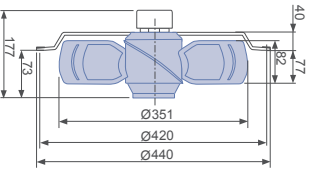
- Motor technology: AC
- Rated voltage U_N : 3~400 V (Δ/Y) $\pm 10\%$ *
- Rated frequency f_N : 50 Hz* (50Hz data available)
- Input power P_1 : 140/90 W*
- Rated current I_N : 0.25/0.14 A*
- Rated speed n_N : 1320/1050 min⁻¹*
- Starting current I_s : 0.80 / 0.26 A
- Current increase ΔI : 5 %
- Thermal class: **THCL155***
- Min. permitted ambient temperature $t_{(min)}$: -40 °C
- Max. permitted ambient temperature $t_{(max)}$: 70 °C
- Electrical connection: Terminal box
- Number of blades: 4
- Protection class: IP54
- Motor protection: thermal contact
- Blades: Aluminium, uncoated
- Rotor: Aluminium, uncoated
- Conformity: CE
- ERP-data**
- Not subject to the regulations of ERP directive ($P_1 < 125$ W)
- * Rated data

Connection diagram Page 192
for airflow direction A 1360-108XB
for airflow direction V 1360-108XA

Dimensions mm

Airflow direction A

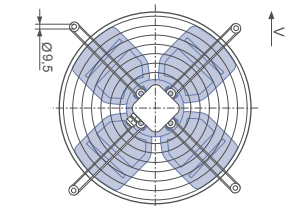
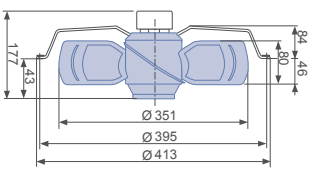
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



L-KL-8805-1

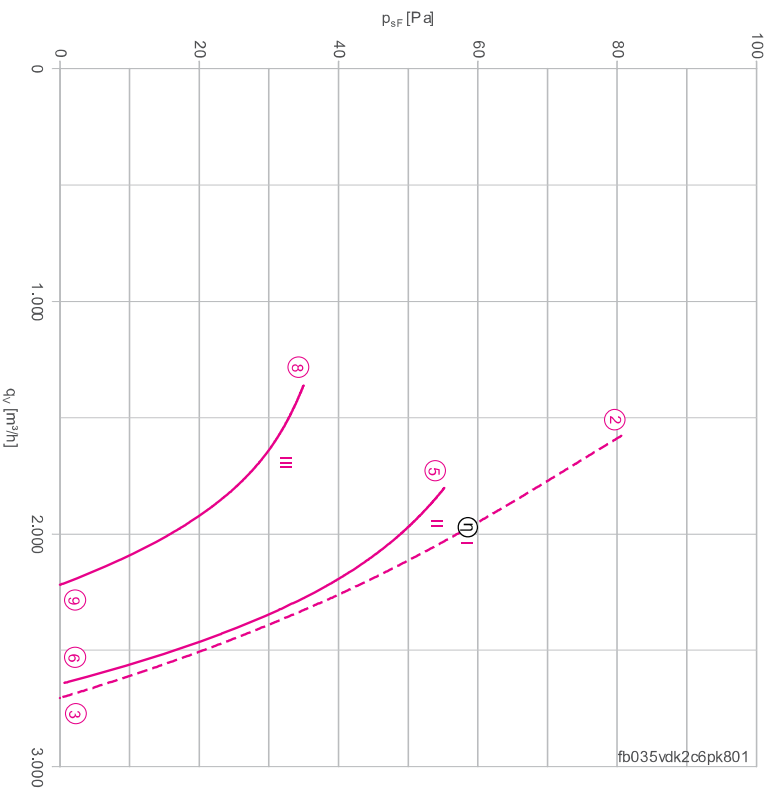
Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-1

Characteristic curve





I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
II-) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
FB035-VD_2C_4P	Δ	I	400*	②	0.25*	140*	1320*	
			400	③	0.22	110	1360	68
		II	400	⑤	0.22	110	1360	73
	Y	III	400	⑥	0.21	97	1380	67
			400	⑧	0.14	91	1040	66
		400	⑨	0.12	74	1160	62	

*rated data

Fan ordering information

	Airflow direction A	Airflow direction V
Design	W (guard grille suction side)	K (guard grille pressure side)
		
Type	FB035-VDW.2C.A4P	FB035-VDK.2C.V4P
Article no.	106939	124151
Weight kg	4.50	4.80

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		

FB

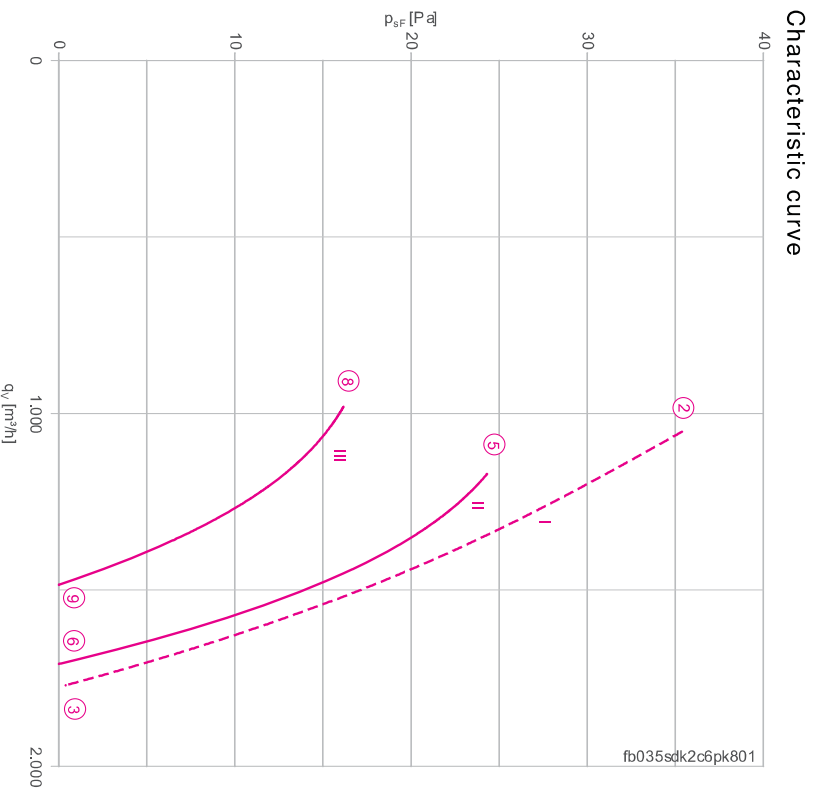
for three phase alternating current, 6-6 pole

FB035-S D



Description

- Motor technology: AC
- Rated voltage U_N : 3- 400 V (Δ/Y) $\pm 10\%$ *
- Rated frequency f_N : 50 Hz* (50Hz data available)
- Input power P_1 : 50/30 W*
- Rated current I_N : 0.10/0.05 A*
- Rated speed n_N : 860/ 670 min^{-1} *
- Starting current I_s : 0.27 / 0.09 A
- Current increase ΔI : 0 %
- Thermal class: **THCL155***
- Min. permitted ambient temperature $t_{\text{p(min)}}$: -40 °C
- Max. permitted ambient temperature $t_{\text{p(max)}}$: 70 °C
- Electrical connection: Terminal box
- Number of blades: 4
- Protection class: IP54
- Motor protection: thermal contact
- Blades: Aluminium, uncoated
- Rotor: Aluminium, uncoated
- Conformity: CE
- ERP-data**
- Not subject to the regulations of ERP directive ($P_1 < 125$ W)
- * Rated data



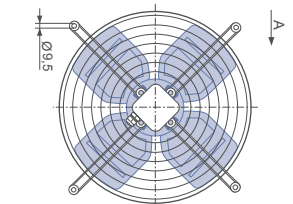
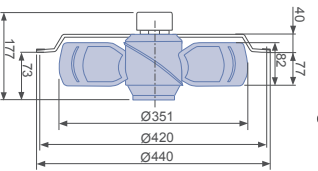
- I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
- II-x) Measured in short-bell mouth with compressed side contact protection.

Connection diagram Page 192
for airflow direction A 1360-108XB
for airflow direction V 1360-108XA

Dimensions mm

Airflow direction A

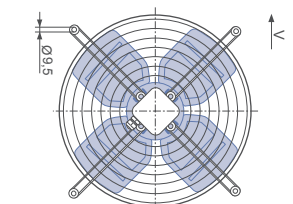
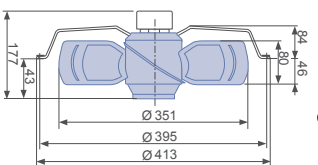
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



L-KL-8805-3

Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side





L-KL-8807-5

Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
FB035-SD_2C_4P	Δ	I	400*	②	0.10*	50*	860*	
			400	③	0.09	38	920	59
		400	⑤	0.10	38	890	60	
	Y	II	400	⑥	0.09	34	910	58
			400	⑧	0.06	28	790	57
		400	⑨	0.05	26	760	54	

*rated data

Fan ordering information

	Airflow direction A	Airflow direction V
Design	W (guard grille suction side)	K (guard grille pressure side)
		
Type	FB035-SDW.2C.A4P	FB035-SDK.2C.V4P
Article no.	107068	124157
Weight kg	4.50	4.80

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		

FB

for three phase alternating current, 6-6 pole

FB035-S D



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/N) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz* (50Hz data available)
 Input power P_1 : 70/40 W*
 Rated current I_N : 0.17/0,08 A*
 Rated speed n_N : 880/ 700 min^{-1} *
 Starting current I_s : 0.42 / 0.14 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -40 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: CE

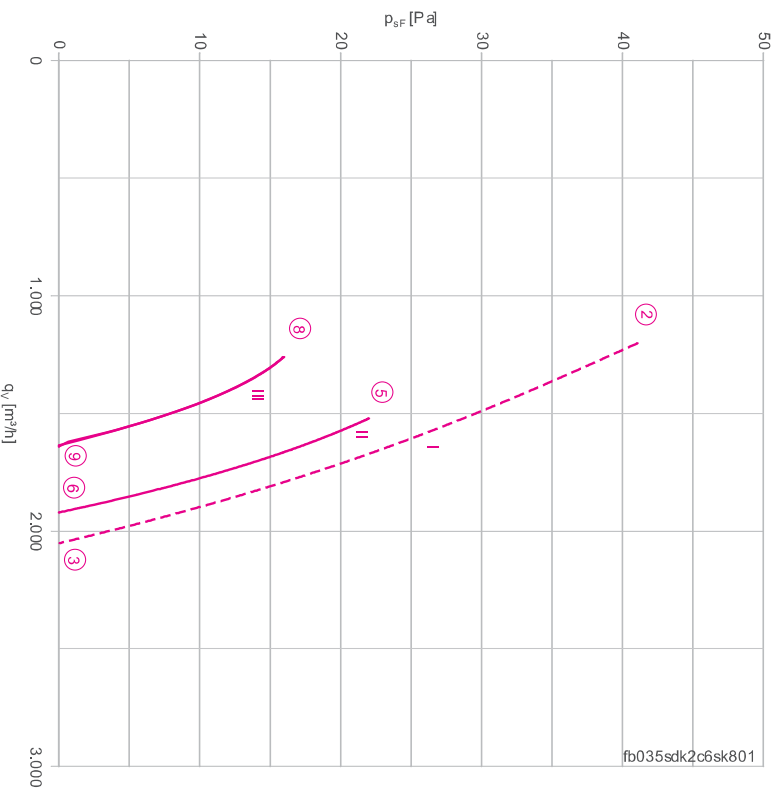
ERP-data

Not subject to the regulations of ERP directive ($P_1 < 125$ W)
 * Rated data

Connection diagram

Page 192
 1360-108XA

Characteristic curve

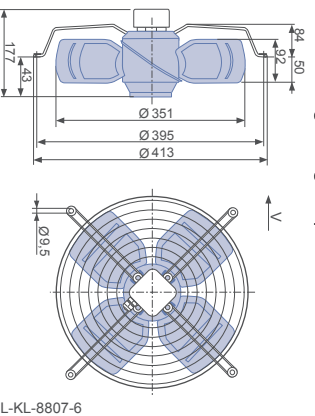


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Dimensions mm

Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-6

Performance data


Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)
FB035-SD_2C.V4S	Δ	I	400*	②	0.17*	70*	880*	
			400	③	0.16	57	920	61
		II	400	⑤	0.16	58	920	64
	Y	III	400	⑥	0.15	54	930	60
			400	⑧	0.08	39	760	60
		400	⑨	0.07	37	790	57	

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB035-SDK.2C.V4S
Article no. 210514

Weight kg 4.80

Control technology

Frequency inverter Fcontrol 3~

Motor protection units 3~

Electronic voltage controllers 3~



FB

for single phase alternating current, 4 pole

FB04O-4E



Description

Motor technology: AC
 Rated voltage U_N : **1 ~ 230 V±10 %***
 Rated frequency f_N : **50 Hz*** (60Hz data available)
 Input power P_1 : **200 W***
 Rated current I_N : **0.94 A***
 Rated speed n_N : **1410 min⁻¹***
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 4.0 μF
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -25 °C
 Max. permitted ambient temperature $t_{(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

ERP-data
 Efficiency η_{rated} : 30.4 %
 Efficiency: $N_{actual} = 41.2 / N_{target} = 40$ **
 * Rated data
 ** ERP 2015

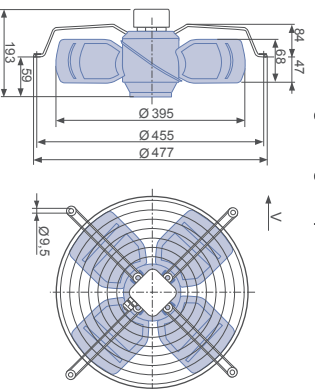
Connection diagram

Page 192
1360-104XA

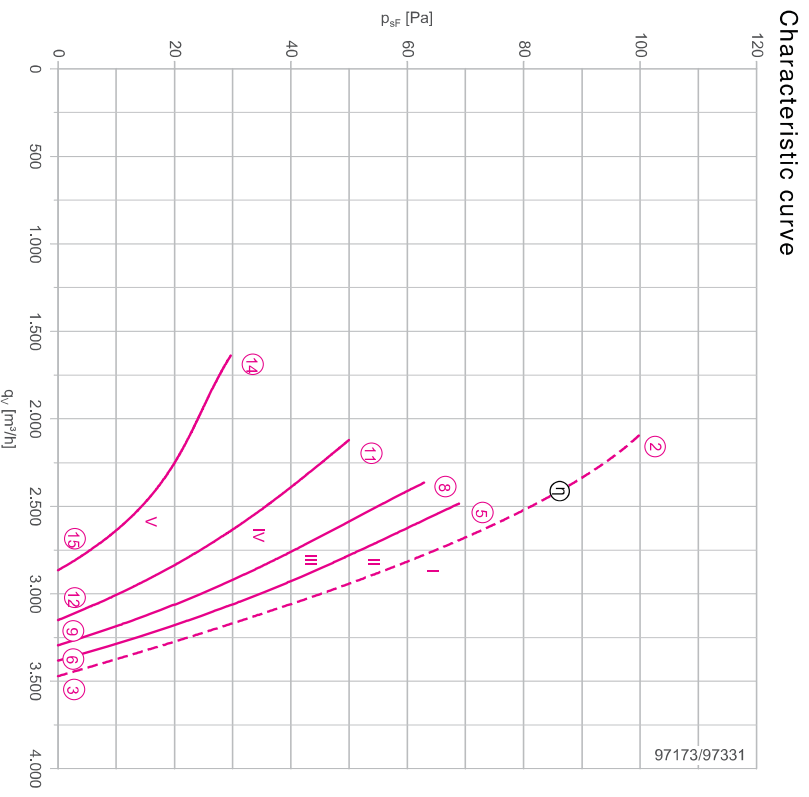
Dimensions mm

Airflow direction V

Design K - axial boiled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-64



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB040-4E_2F_4L	I	230*	②	0.94*	200*	1410*	77
		230	③	0.74	150	1450	71
	II	230	⑤	0.90	190	1420	69
		230	⑥	0.76	160	1450	68
	III	170	⑧	0.94	160	1350	67
		170	⑨	0.70	120	1410	67
	IV	135	⑪	1.10	140	1210	65
		135	⑫	0.76	100	1340	66
	V	110	⑭	1.20	130	930	60
		110	⑮	0.88	95	1220	64

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type **FB040-4EK.2F.V4L**
Article no. **160119**

Weight kg 6.40

Control technology

Frequency inverter Fcontrol 1~



Motor protection units 1~



Electronic voltage controllers 1~



FB

for single phase alternating current, 6 pole

FB040-GE



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V \pm 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 110 W*
 Rated current I_N : 0.50 A*
 Rated speed n_N : 900 min⁻¹*
 Starting current I_A : 0.95 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 3.0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -25 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: CE

ERP-data
 Not subject to the regulations of ERP directive ($P_1 < 125$ W)
 * Rated data

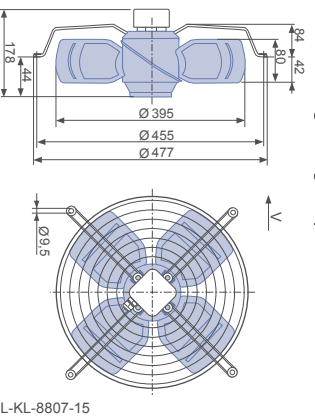
Connection diagram

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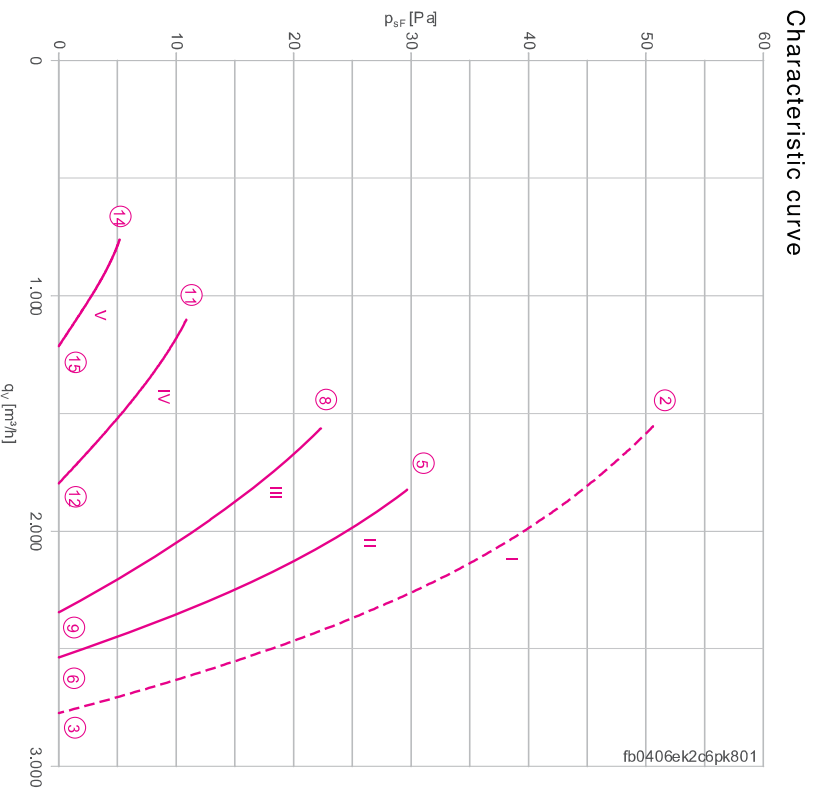
Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-15



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB040-6E_2C.V4P	I	230*	②	0.50*	110*	900*	
		230	③	0.42	90	930	64
	II	230	⑤	0.44	100	920	65
		230	⑥	0.42	90	930	61
	III	160	⑧	0.42	65	810	62
		160	⑨	0.38	59	860	61
	IV	130	⑪	0.43	51	560	
		130	⑫	0.40	49	670	
	V	105	⑭	0.37	35	390	
		105	⑮	0.36	34	450	

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type **FB040-6EK.2C.V4P**
Article no. **124164**

Weight kg 5.50

Control technology

Frequency inverter Fcontrol 1~



Motor protection units 1~



Electronic voltage controllers 1~



FB

for three phase alternating current, 4-4 pole

FB040-V/D



Description

Motor technology: AC
 Rated voltage U_N : 3~400 V (Δ/Y) ±10 %*
 Rated frequency f_N : 50 Hz* (50Hz data available)
 Input power P_1 : 180/120 W*
 Rated current I_N : 0.35/0.19 A*
 Rated speed n_N : 1300/1000 min^{-1} *
 Starting current I_A : 1.00 / 0.34 A
 Current increase ΔI : 5 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature t_{min} : -40 °C
 Max. permitted ambient temperature t_{max} : 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

ERP-data
 Efficiency η_{rated} : 33.8 %
 Efficiency: $N_{\text{actual}} = 45.2 / N_{\text{target}} = 40$ **
 * Rated data
 ** ERP 2015

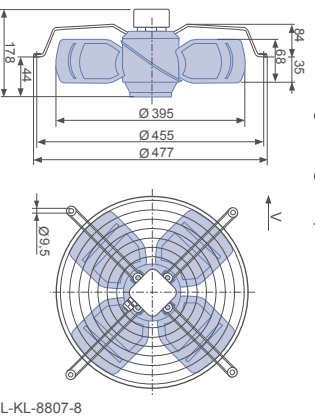
Connection diagram

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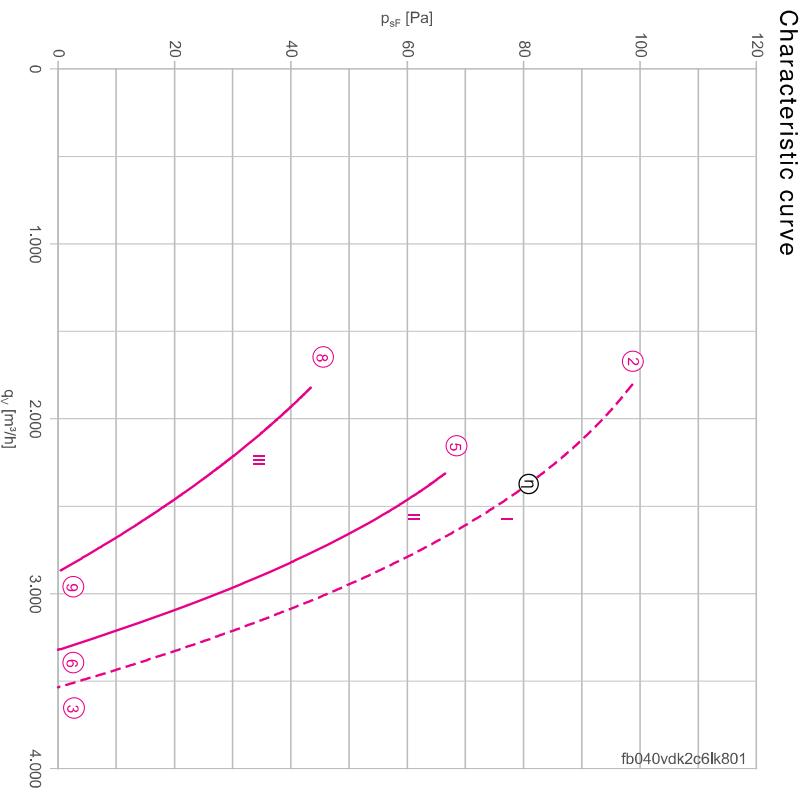
Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-8



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-X) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)
FB040-VD_2C.V4L	Δ	I	400*	②	0.35*	180*	1300*	
			400	③	0.28	120	1390	72
		II	400	⑤	0.29	150	1350	77
	Y	III	400	⑥	0.26	115	1400	68
			400	⑧	0.18	110	1070	70
		400	⑨	0.14	88	1190	64	

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB040-VDK.2C.V4L
Article no. 124154

Weight kg 5.50

Control technology

Frequency inverter Fcontrol 3~

Motor protection units 3~

Electronic voltage controllers 3~



FB

for three phase alternating current, 4-4 pole

FB040-V-D



Description

Motor technology: AC
 Rated voltage U_N : 3~400 V (Δ/Y) $\pm 10\%$
 Rated frequency f_N : 50 Hz* (50Hz data available)
 Input power P_1 : 240/160 W*
 Rated current I_N : 0.45/0.26 A*
 Rated speed n_N : 1340/1020 min⁻¹*
 Starting current I_s : 1.30 / 0.42 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -40 °C
 Max. permitted ambient temperature $t_{(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

ERP-data
 Efficiency η_{rated} : 29.9 %
 Efficiency: $N_{actual} = 40.5 / N_{target} = 40$ **
 * Rated data
 ** ERP 2015

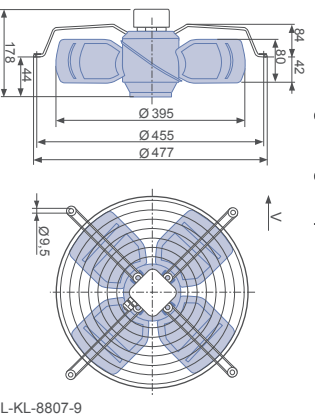
Connection diagram

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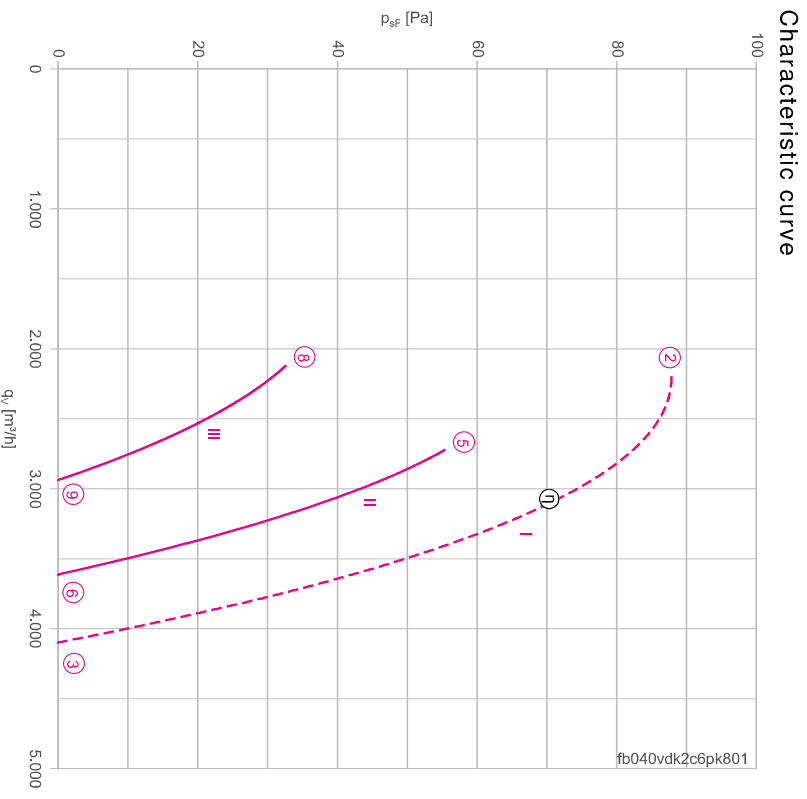
Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-9



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-X) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)
FB040-VD_2C.V4P	Δ	I	400*	②	0.45*	240*	1340*	
			400	③	0.39	165	1410	73
			400	⑤	0.33	175	1330	74
	Y	III	400	⑥	0.31	155	1360	70
			400	⑧	0.21	135	980	66
			400	⑨	0.18	110	1100	65

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB040-VDK.2C.V4P
Article no. 124155

Weight kg 5.50

Control technology

Frequency inverter Fcontrol 3~

Motor protection units 3~

Electronic voltage controllers 3~



FB

for three phase alternating current, 6-6 pole

FB040-S D



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/N) $\pm 10\%$
 Rated frequency f_N : 50 Hz* (50Hz data available)
 Input power P_1 : 90/60 W*
 Rated current I_N : 0.23/0.11 A*
 Rated speed n_N : 900/ 730 min^{-1} *
 Starting current I_s : 0.51 / 0.17 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -40 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: CE

ERP-data

Not subject to the regulations of ERP directive ($P_1 < 125$ W)
 * Rated data

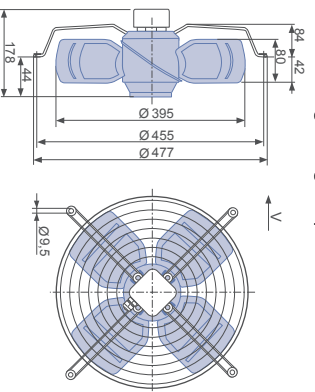
Connection diagram

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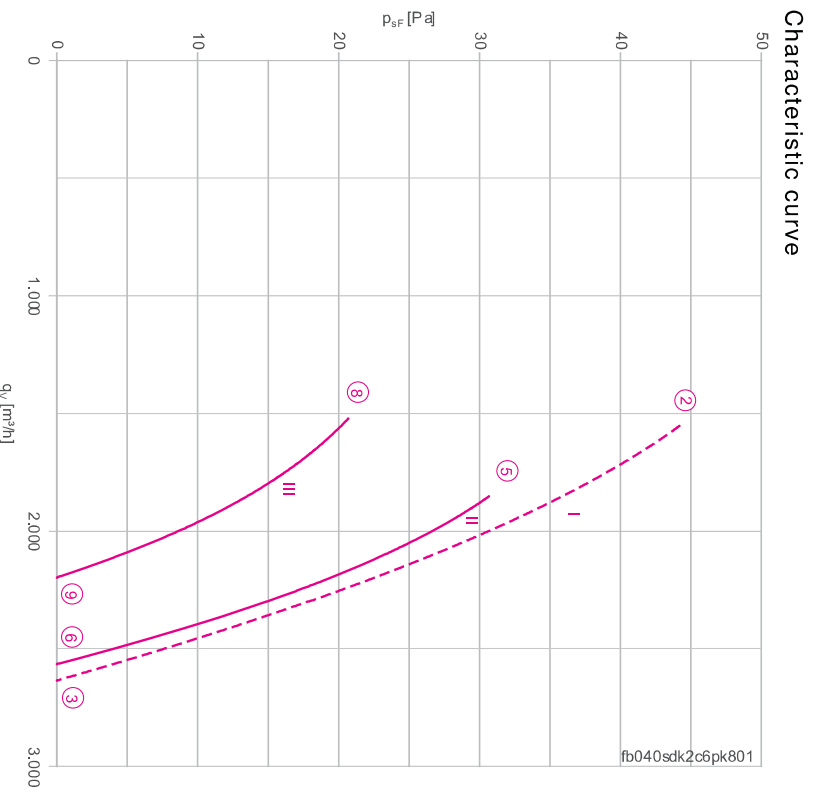
Dimensions mm

Airflow direction ∇

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-13



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)
FB040-SD_2C.V4P	Δ	I	400*	②	0.23*	90*	900*	
			400	③	0.21	70	920	64
		II	400	⑤	0.21	80	920	62
	Y	III	400	⑥	0.20	70	930	62
			400	⑧	0.11	54	770	57
		400	⑨	0.09	48	820	58	

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB040-SDK.2C.V4P
Article no. 124160

Weight kg 5.50

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		

FB

for three phase alternating current, 6-6 pole

FB040-S D



Description

Motor technology: AC
 Rated voltage U_N : 3~400 V (Δ/Y) $\pm 10\%$
 Rated frequency f_N : 50 Hz* (50Hz data available)
 Input power P_1 : 120/60 W*
 Rated current I_N : 0.28/0.14 A*
 Rated speed n_N : 900/ 700 min^{-1} *
 Starting current I_s : 0.66 / 0.22 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -40 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: CE

ERP-data

Not subject to the regulations of ERP directive ($P_1 < 125$ W)
 * Rated data

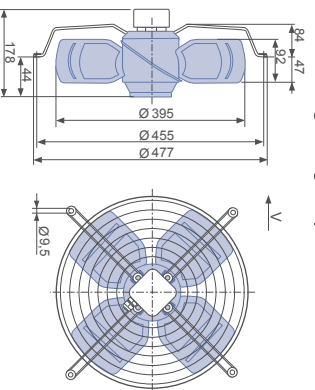
Connection diagram

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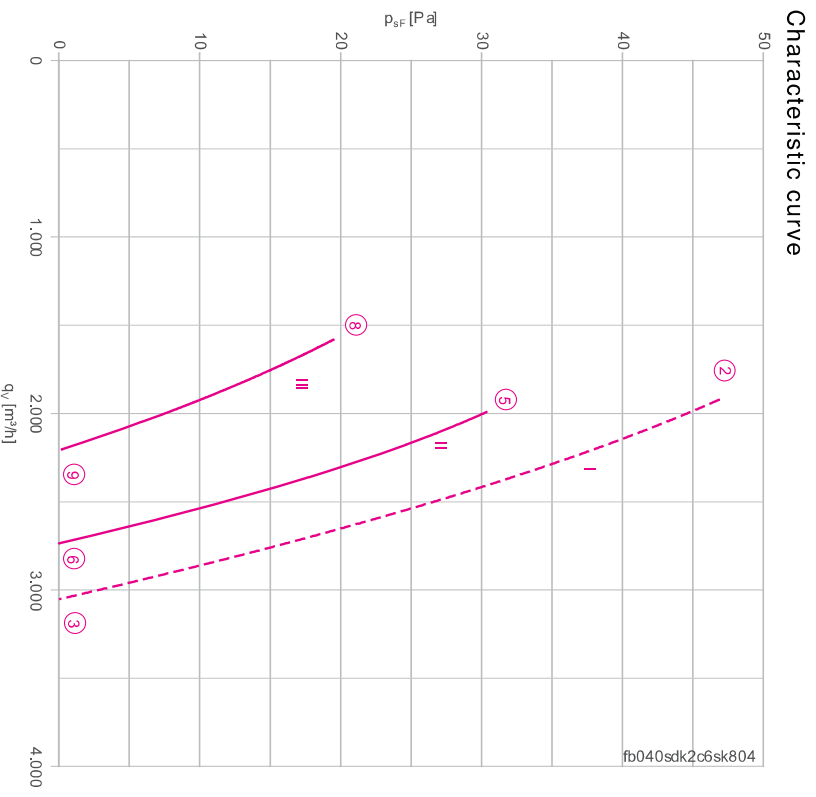
Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-14



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)
FB040-SD_2C.V4S	Δ	I	400*	②	0.28*	120*	900*	
			400	③	0.26	100	920	65
		II	400	⑤	0.27	100	920	64
	Y	III	400	⑥	0.26	95	930	63
			400	⑧	0.12	64	730	58
		400	⑨	0.12	62	750	58	

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB040-SDK.2C.V4S
Article no. 124161

Weight kg 5.50

Control technology

Frequency inverter Fcontrol 3~

Motor protection units 3~

Electronic voltage controllers 3~



FB

for single phase alternating current, 4 pole

FB045-4E



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V±10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 0.41 kW*
 Rated current I_N : 1.90 A*
 Rated speed n_N : 1320 min⁻¹*
 Starting current I_A : 4.40 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 8.0 µF
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{a(min)}$: -25 °C
 Max. permitted ambient temperature $t_{a(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Motor protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

ERP-data
 Efficiency η_{actual} : 32.3 %
 Efficiency: $N_{actual} = 41.7 / N_{target} = 40$ **
 * Rated data
 ** ERP 2015

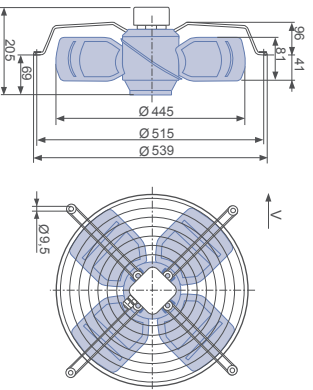
Connection diagram

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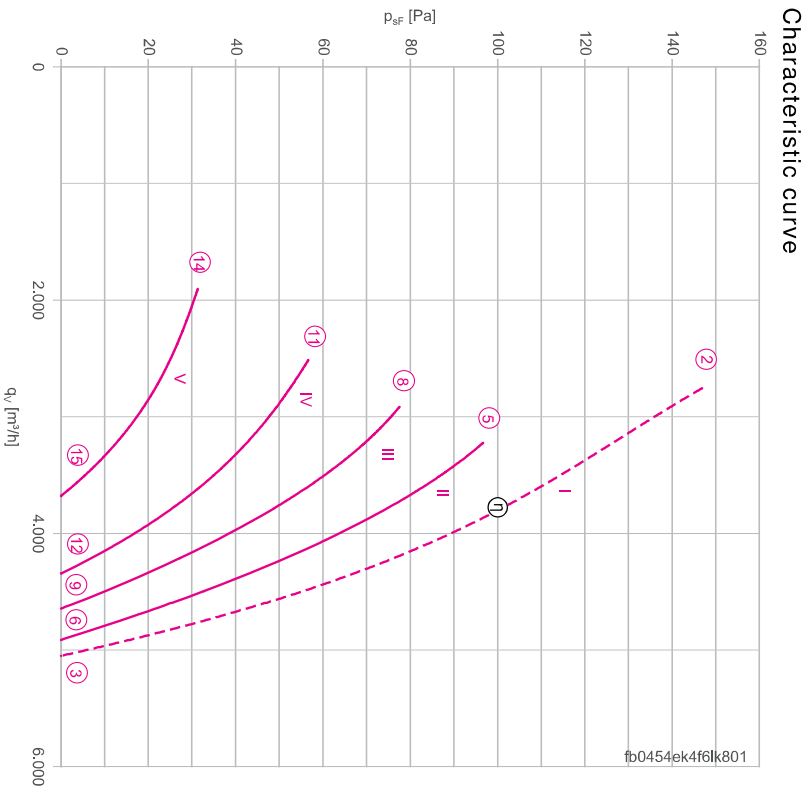
Dimensions mm

Airflow direction V

Design K - axial booted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-20



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB045-4E_4F.V4L	I	230*	②	1.90*	410*	1320*	
		230	③	1.45	300	1400	74
	II	230	⑤	1.55	330	1380	72
		230	⑥	1.30	260	1410	72
	III	160	⑧	1.70	260	1240	69
		160	⑨	1.25	190	1340	71
	IV	130	⑪	1.80	220	1080	66
		130	⑫	1.35	170	1250	69
	V	105	⑭	1.80	175	810	58
		105	⑮	1.45	145	1060	66

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type **FB045-4EK.4F.V4L**
Article no. **124180**

Weight kg 9.20

Control technology

Frequency inverter Fcontrol 1~



Motor protection units 1~



Electronic voltage controllers 1~



FB

for single phase alternating current, 4 pole

FB04 S-4 E



Description

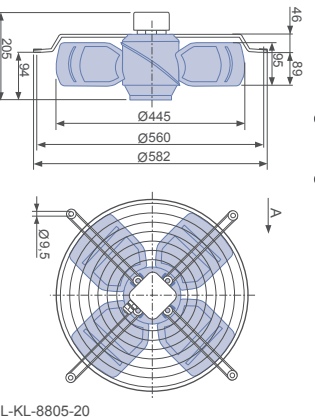
Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V \pm 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 380 W*
 Rated current I_N : 1,70 A*
 Rated speed n_N : 1310 min⁻¹*
 Starting current I_A : 4,40 A
 Current increase ΔI : 10 %
 Service capacitor C_{400V} : 8,0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -25 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE
ERP-data
 Efficiency η_{actual} : 31,6 %
 Efficiency: $N_{\text{actual}} = 40,6 / N_{\text{target}} = 40$ **
 * Rated data
 ** ERP 2015

Connection diagram Page 192
 for airflow direction A 1360-104XB
 for airflow direction V 1360-104XA

Dimensions mm

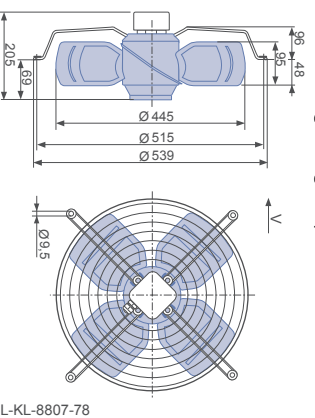
Airflow direction A

Design W - axial bolted, mounting for short bell mouth, guard grille suction side

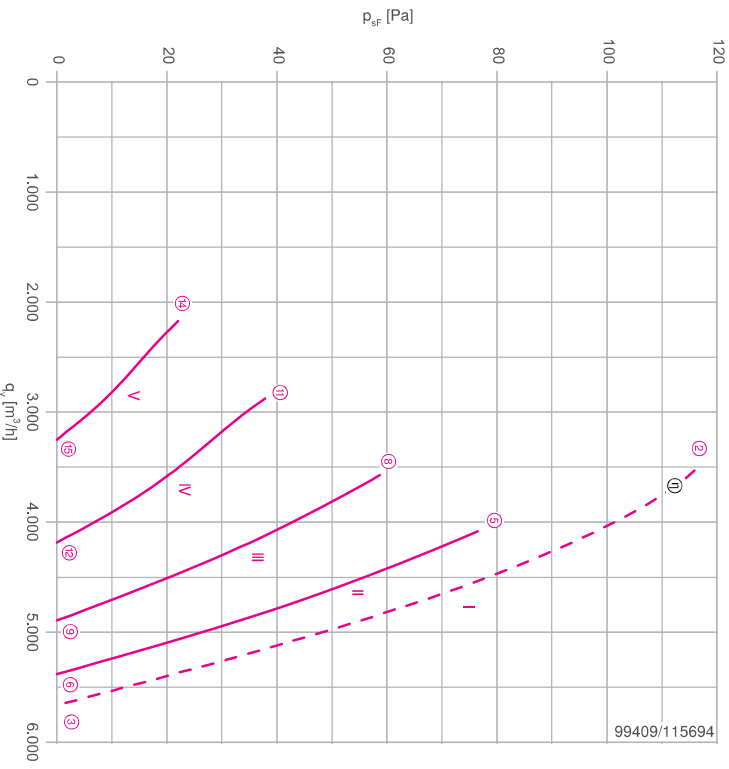


Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Characteristic curve





I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-X) Measured in short-bell mouth with compressed side contact protection.



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB045-4E_4F_4P	I	230*	②	1.70*	380*	1320*	77
		230	③	1.30	290	1380	75
	II	230	⑤	1.70	370	1320	74
		230	⑥	1.50	320	1360	73
	III	170	⑧	1.80	300	1160	71
		170	⑨	1.55	260	1240	70
	IV	135	⑪	1.85	240	930	65
		135	⑫	1.65	220	1050	66
	V	110	⑭	1.75	180	710	57
		110	⑮	1.65	170	820	59

*rated data

Fan ordering information

Airflow direction A  Airflow direction V 

Design	W (guard grille suction side)	K (guard grille pressure side)
		
Type	FB045-4EW.4F.A4P	FB045-4EK.4F.V4P
Article no.	171270	171269
Weight kg	8.70	9.20

Control technology

Frequency inverter Fcontrol 1~	Motor protection units 1~	Electronic voltage controllers 1~
		

FB

for single phase alternating current, 6 pole

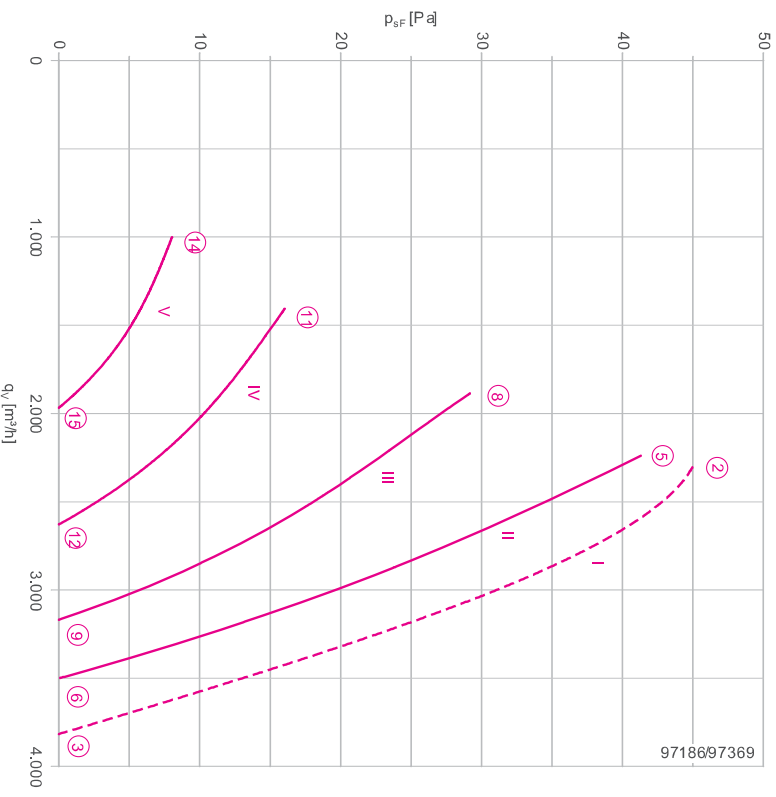
FB045-GE



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V \pm 10 %*
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 130 W*
 Rated current I_N : 0,58 A*
 Rated speed n_N : 880 min⁻¹*
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 4,0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -25 °C
 Max. permitted ambient temperature $t_{(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, 1 coat paint, jet black
 Rotor: Aluminium, 1 coat paint, jet black
 Conformity: CE
ERP-data
 Not subject to the regulations of ERP directive ($P_1 < 125$ W)
 * Rated data

Characteristic curve



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

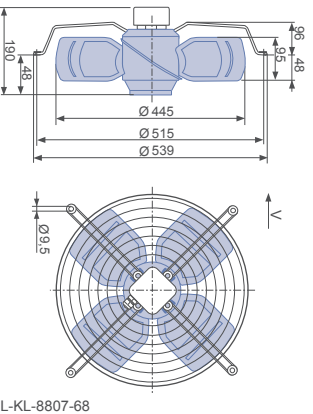
Connection diagram

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Dimensions mm

Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-68

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P ₁ W	n min ⁻¹	L _{WAS} dB(A)
FB045-6E_2C_4P	I	230*	②	0.58*	130*	870*	68
		230	③	0.48	110	920	63
	II	230	⑤	0.58	130	870	66
		230	⑥	0.50	110	910	66
	III	170	⑧	0.56	95	730	62
		170	⑨	0.48	80	830	64
	IV	135	⑪	0.52	70	540	54
		135	⑫	0.48	65	680	59
	V	110	⑭	0.46	48	390	46
		110	⑮	0.44	48	510	52

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type **FB045-6EK.2C.V4P**
Article no. **160121**

Weight kg 4.00

Control technology

Frequency inverter Fcontrol 1~

Motor protection units 1~

Electronic voltage controllers 1~



FB

for three phase alternating current, 4-4 pole

FB045-VD



Description

Motor technology: AC
 Rated voltage U_N : 3~400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 430/330 W*
 Rated current I_N : 0.79/0.53 A*
 Rated speed n_N : 1370/1030 min^{-1} *
 Starting current I_s : 3.10 / 1.80 A
 Current increase ΔI : 20 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -40 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 55 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

ERP-data
 Efficiency η_{rated} : 36.6 %
 Efficiency: $N_{\text{actual}} = 45.6 / N_{\text{target}} = 40$ **
 * Rated data
 ** ERP 2015

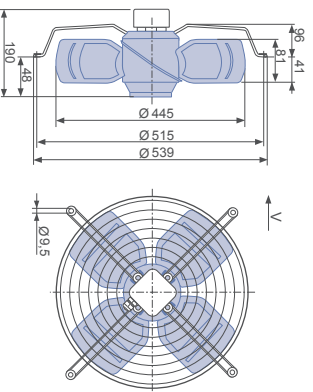
Connection diagram

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1360-108XA

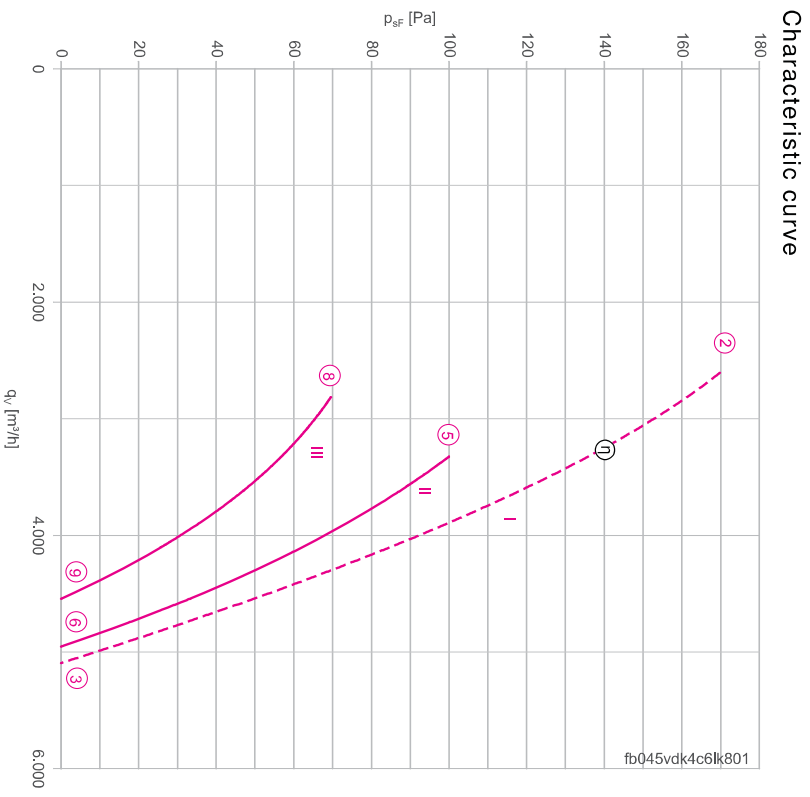
Dimensions mm

Airflow direction \vec{V}

Design K - axial booted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-17



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature t_R °C
			U V		I A	P_1 W	n min ⁻¹		
FB045-VD_4C.V4L	Δ	I	400*	②	0.79*	430*	1370*		55
			400	③	0.60	240	1435	75	
		II	400	⑤	0.61	300	1400	72	70
	Y	III	400	⑥	0.52	210	1440	72	
			400	⑧	0.39	240	1180	68	
		400	⑨	0.28	165	1310	70		

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB045-VDK.4C.V4L
Article no. 124166

Weight kg 7.70

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		

FB

for three phase alternating current, 4-4 pole

FB045-V-D



Description

Motor technology: AC
 Rated voltage U_N : 3~400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 450/340 W*
 Rated current I_N : 0.81/0.55 A*
 Rated speed n_N : 1360/1040 min⁻¹*
 Starting current I_s : 3.00 / 1.00 A
 Current increase ΔI : 20 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -40 °C
 Max. permitted ambient temperature $t_{(max)}$: 60 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

ERP-data
 Efficiency η_{rated} : 31.4 %
 Efficiency: $N_{actual} = 40.1 / N_{target} = 40$ **
 * Rated data
 ** ERP 2015

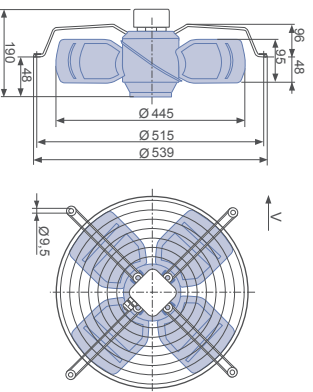
Connection diagram

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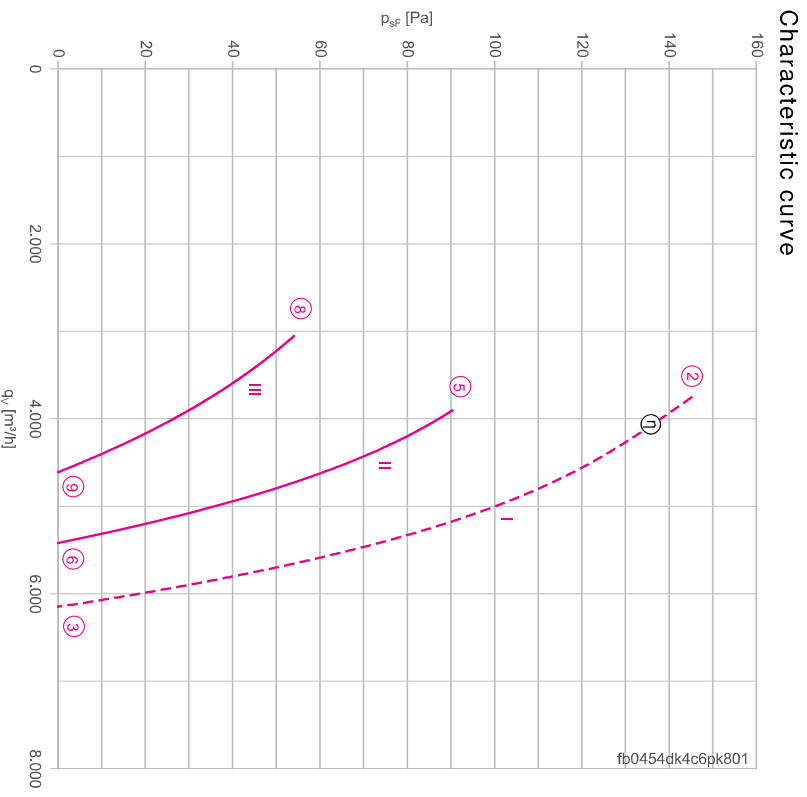
Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-18



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-X) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Connection	Characteris- tic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature t_R °C
			U V		I A	P_1 W	n min ⁻¹		
FB045-VD_4C.V4P	Δ	I	400*	②	0.81*	450*	1360*		60
			400	③	0.60	300	1400	79	
		II	400	⑤	0.69	380	1370	75	
	Y	III	400	⑥	0.60	300	1400	74	70
			400	⑧	0.48	280	1070	69	
		400	⑨	0.41	250	1180	70		

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB045-VDK.4C.V4P
Article no. 210540

Weight kg 7.70

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		

FB

for three phase alternating current, 4-4 pole

FB045-V-D



Description

Motor technology: AC
 Rated voltage U_N : 3-400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 0.63/0.43 kW*
 Rated current I_N : 1.10/0.70 A*
 Rated speed n_N : 1330/970 min⁻¹*
 Starting current I_s : 4.00 / 1.20 A
 Current increase ΔI : 10 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -40 °C
 Max. permitted ambient temperature $t_{(max)}$: 55 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

ERP-data
 Efficiency η_{rated} : 32.0 %
 Efficiency: $N_{actual} = 40.0 / N_{target} = 40$ **
 * Rated data
 ** ERP 2015

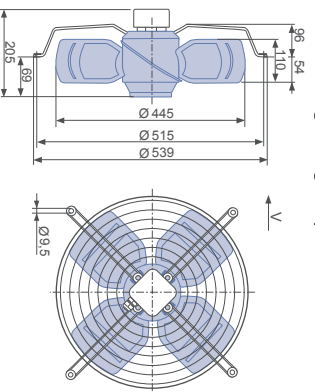
Connection diagram

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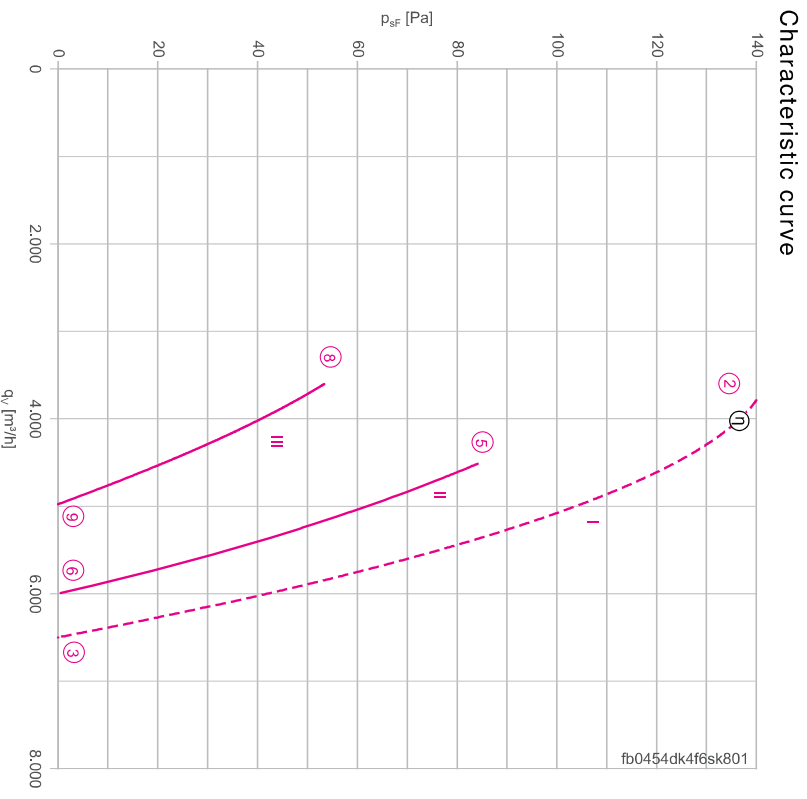
Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-19



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature t_{R} °C
			U V		I A	P_1 W	n min ⁻¹		
FB045-VD_4F.V4S	Δ	I	400*	②	1.10*	630*	1330*		55
			400	③	0.90	430	1380	81	
		II	400	⑤	0.92	460	1370	80	70
	Y	III	400	⑥	0.86	410	1390	77	
			400	⑧	0.59	340	1100	75	
		400	⑨	0.54	310	1160	72		

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB045-VDK.4F.V4S
Article no. 124167

Weight kg 9.20

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		

FB

for three phase alternating current, 6-6 pole

FB045-S D



Description

Motor technology: AC
 Rated voltage U_N : 3~400 V (Δ/Y) ±10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 150/100 W*
 Rated current I_N : 0.45/0.23 A*
 Rated speed n_N : 920/ 730 min⁻¹*
 Starting current I_s : 1.20 / 0.36 A
 Current increase ΔI: 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -40 °C
 Max. permitted ambient temperature $t_{(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

ERP-data
 Efficiency η_{rated} : 28.1 %
 Efficiency: $N_{actual} = 40.0 / N_{target} = 40$ **
 * Rated data
 ** ERP 2015

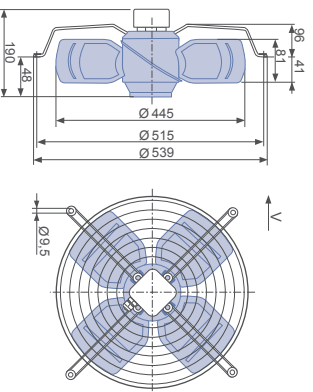
Connection diagram

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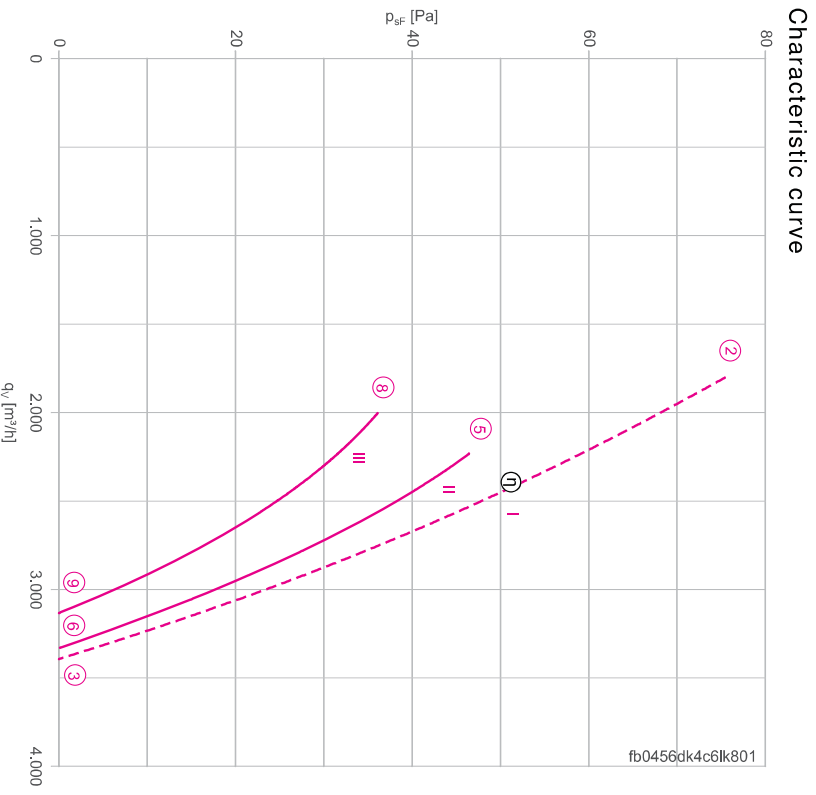
Dimensions mm

➔ Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-23



1) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)
FB045-SD_4C.V4L	Δ	I	400*	②	0.45*	150*	920*	
			400	③	0.45	115	960	69
		II	400	⑤	0.45	130	650	63
	Y	III	400	⑥	0.44	105	970	62
			400	⑧	0.19	86	850	60
		400	⑨	0.17	65	910	61	

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB045-SDK.4C.V4L
Article no. 124177

Weight kg 7.70

Control technology

Frequency inverter Fcontrol 3~

Motor protection units 3~

Electronic voltage controllers 3~



FB

for three phase alternating current, 8-8 pole

FB045-AD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) $\pm 10\%$
 Rated frequency f_N : 50 Hz* (50Hz data available)
 Input power P_1 : 70/50 W*
 Rated current I_N : 0.17/0.09 A*
 Rated speed n_N : 660/510 min^{-1} *
 Starting current I_s : 0.42 / 0.13 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb}(min)}$: -40 °C
 Max. permitted ambient temperature $t_{\text{amb}(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: CE

ERP-data

Not subject to the regulations of ErP directive ($P_1 < 125$ W)
 * Rated data

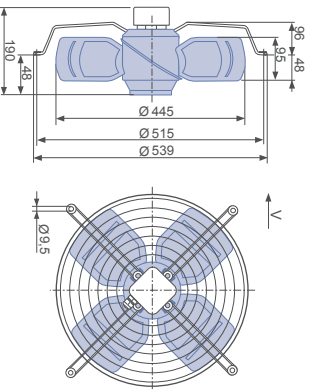
Connection diagram

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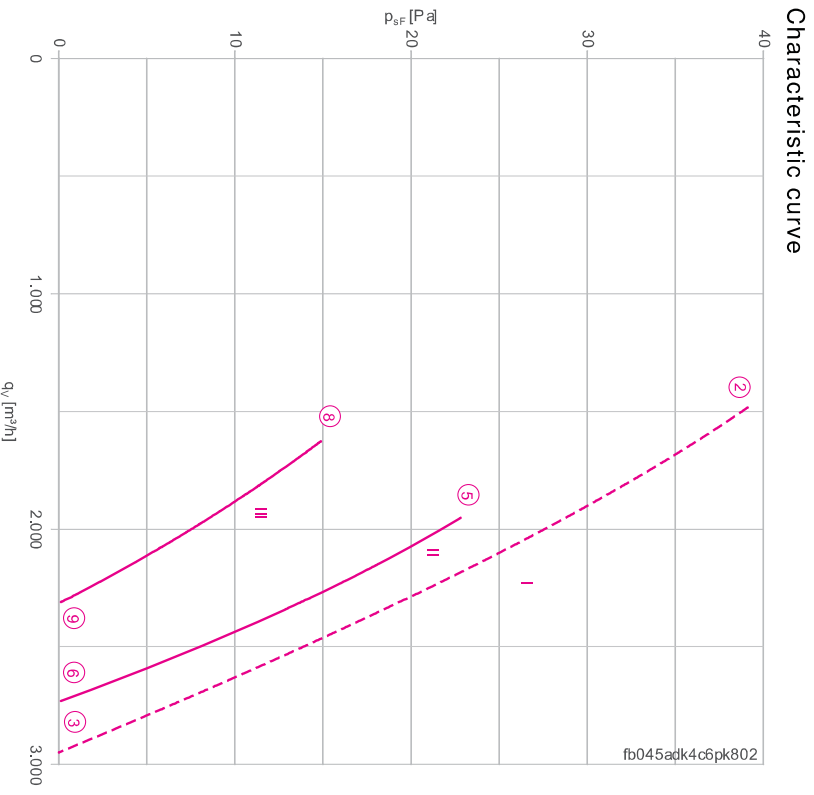
Dimensions mm

Airflow direction V

Design K - axial boiled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-29



1) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)
FB045-AD_4C.V4P	Δ	I	400*	②	0.17*	73*	660*	
			400	③	0.14	44	710	61
		II	400	⑤	0.16	63	680	57
	Y	III	400	⑥	0.15	56	690	56
			400	⑧	0.08	45	520	52
		400	⑨	0.07	36	590	53	

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB045-ADK.4C.V4P
Article no. 124179

Weight kg 7.70

Control technology

Frequency inverter Fcontrol 3~

Motor protection units 3~

Electronic voltage controllers 3~



FB

for single phase alternating current, 4 pole

FB050-4E



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V±10 %*
 Rated frequency f_{Nf} : 50 Hz* (60Hz data available)
 Input power P_1 : 0.45 kW*
 Rated current I_N : 2.10 A*
 Rated speed n_N : 1300 min⁻¹*
 Starting current I_A : 5.00 A
 Current increase ΔI : 10 %
 Service capacitor C_{400V} : 8.0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -25 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Motor protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

ERP-data
 Efficiency η_{actual} : 35.5 %
 Efficiency: $N_{\text{actual}} = 44.2 / N_{\text{target}} = 40$ **
 * Rated data
 ** ERP 2015

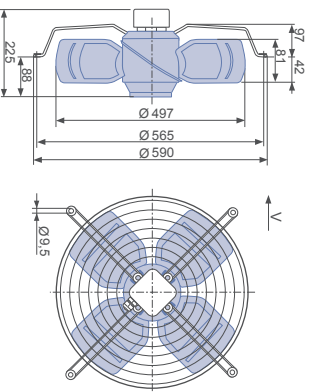
Connection diagram

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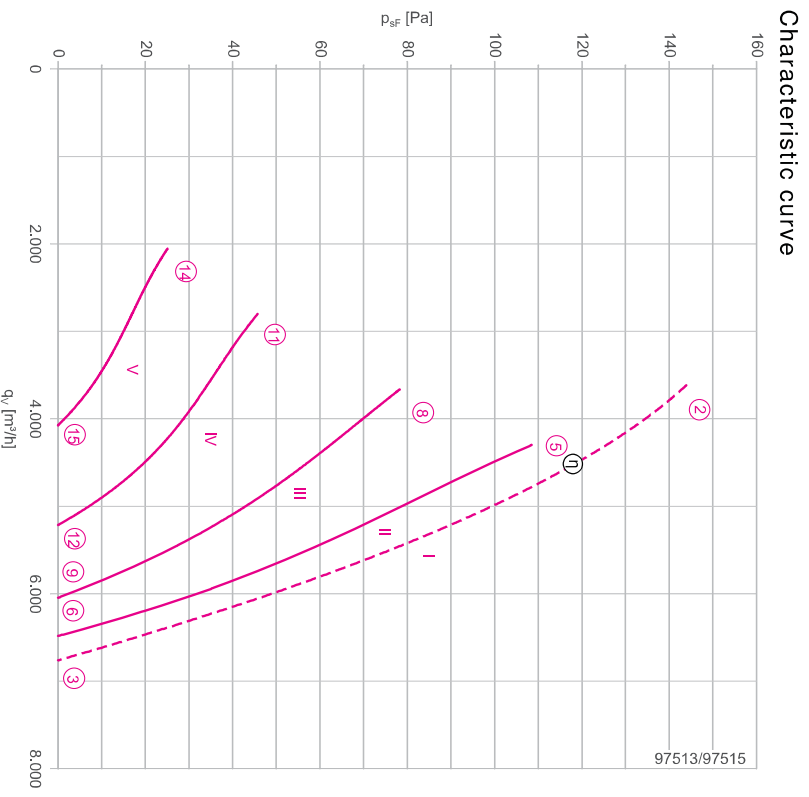
Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-65



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-X) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB050-4E_4I.V4L	I	230*	②	2.20*	460*	1290*	81
		230	③	1.40	300	1390	79
	II	230	⑤	1.95	420	1320	75
		230	⑥	1.45	310	1380	75
	III	170	⑧	2.20	350	1130	72
		170	⑨	1.60	260	1290	73
	IV	135	⑪	2.20	270	860	65
		135	⑫	1.75	220	1110	69
	V	110	⑭	1.95	190	640	59
		110	⑮	1.80	180	860	63

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type **FB050-4EK.4I.V4L**
Article no. **160135**

Weight kg 12.00

Control technology

Frequency inverter Fcontrol 1~



Motor protection units 1~



Electronic voltage controllers 1~



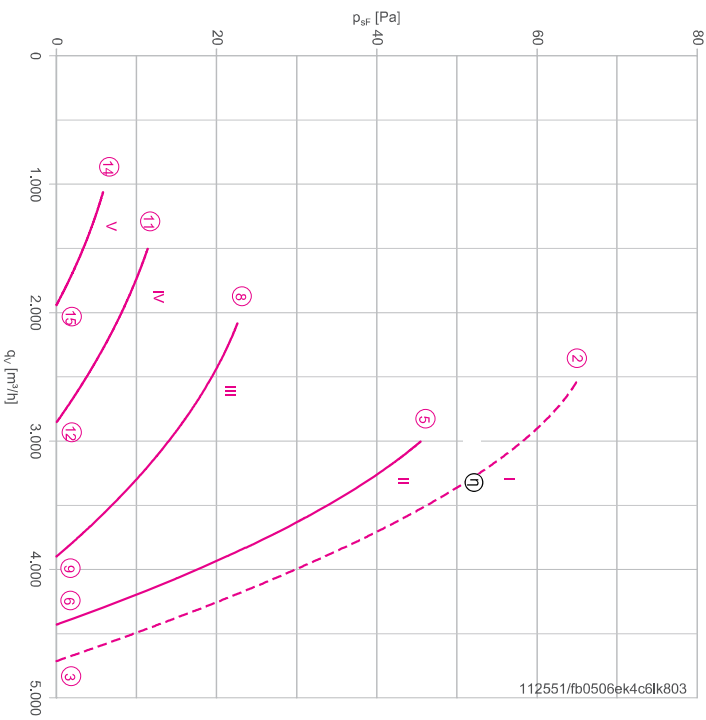
FB

for single phase alternating current, 6 pole

FB050-GE



Characteristic curve



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.
II-X) Measured in short-bell mouth with compressed side contact protection.

Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V \pm 10 %*
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 180 W*
 Rated current I_N : 0,88 A*
 Rated speed n_N : 870 min⁻¹*
 Starting current I_A : 1,70 A
 Current increase ΔI : 5 %
 Service capacitor C_{400V} : 5,0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -25 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE
ERP-data
 Efficiency η_{actual} : 28,8 %
 Efficiency: $N_{\text{actual}} = 40,0 / N_{\text{target}} = 40$ **
 * Rated data
 ** ERP 2015

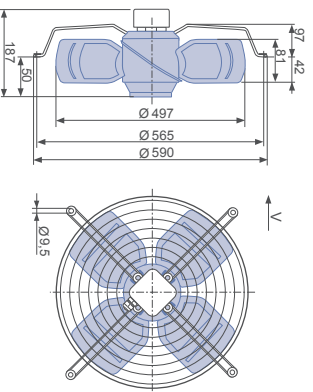
Connection diagram

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Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-38

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB050-6E_4C.V4L	I	230*	②	0.88*	180*	870*	
		230	③	0.71	130	940	64
	II	230	⑤	0.83	175	880	66
		230	⑥	0.71	145	920	65
	III	160	⑧	0.85	125	630	56
		160	⑨	0.69	105	800	62
	IV	130	⑪	0.76	85	420	57
		130	⑫	0.71	82	590	56
	V	105	⑭	0.62	56	320	
		105	⑮	0.61	55	410	

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type **FB050-6EK.4C.V4L**
Article no. **124189**

Weight kg 8.10

Control technology

Frequency inverter Fcontrol 1~



Motor protection units 1~



Electronic voltage controllers 1~



FB

for single phase alternating current, 6 pole

FB050-GE



Description

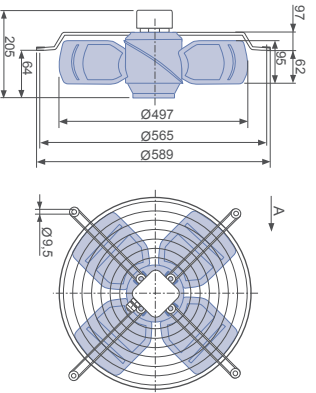
Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V±10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 230 W*
 Rated current I_N : 1,00 A*
 Rated speed n_N : 910 min⁻¹*
 Starting current I_A : 1,80 A
 Current increase ΔI : 10 %
 Service capacitor C_{400V} : 8,0 µF
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -25 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
ErP-data
 Efficiency η_{rated} : 29,6 %
 Efficiency: $N_{\text{actual}} = 40,0 / N_{\text{target}} = 40$ **
 * Rated data
 ** ErP 2015

Connection diagram Page 192
 Airflow direction A 1360-104XB
 Airflow direction V 1360-104XA

Dimensions mm

Airflow direction A

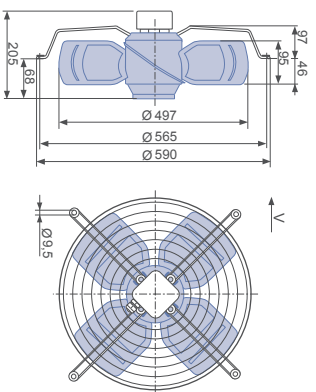
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



L-KL-8805-19

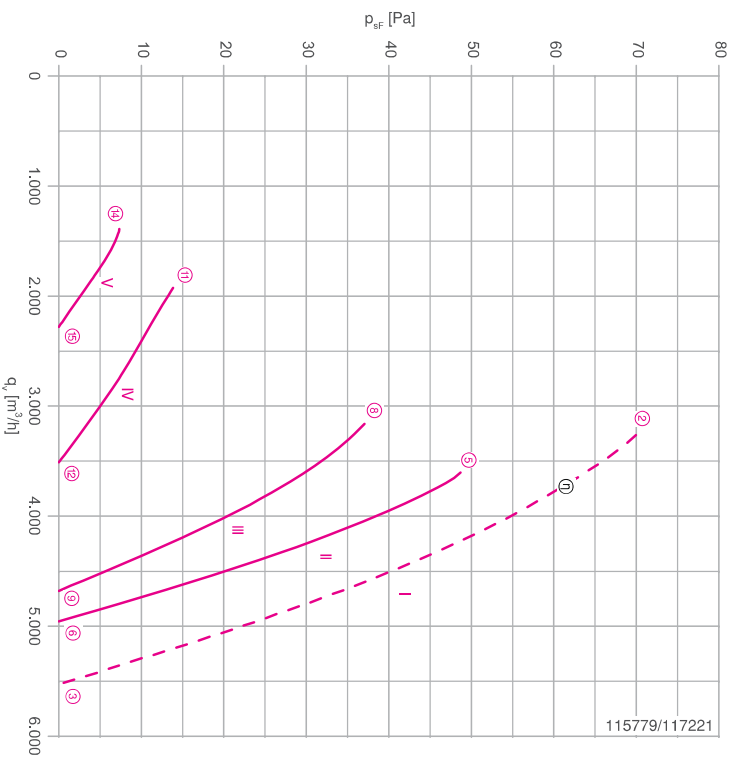
Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-77

Characteristic curve





I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-X) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB050-6E_4F_4P	I	230*	②	1.00*	230*	910*	71
		230	③	0.80	180	950	68
	II	230	⑤	0.92	210	930	69
		230	⑥	0.80	180	950	67
	III	170	⑧	0.98	160	810	65
		170	⑨	0.82	140	890	65
	IV	135	⑪	0.94	110	510	56
		135	⑫	0.88	110	660	57
	V	110	⑭	0.76	75	360	47
		110	⑮	0.76	75	430	49

*rated data

Fan ordering information

	Airflow direction A	Airflow direction V
Design	W (guard grille suction side)	K (guard grille pressure side)
		
Type	FB050-6EW.4F.A4P	FB050-6EK.4F.V4P
Article no.	170480	170478
Weight kg	10.00	9.50

Control technology

Frequency inverter Fcontrol 1~	Motor protection units 1~	Electronic voltage controllers 1~
		

FB

for single phase alternating current, 6 pole

FB050-GE



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V \pm 10 %*
 Rated frequency f_{rN} : 50 Hz*
 Input power P_1 : 290 W*
 Rated current I_N : 1.35 A*
 Rated speed n_N : 850 min⁻¹*
 Starting current I_s : 2.20 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 8.0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -25 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 65 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 * Rated data

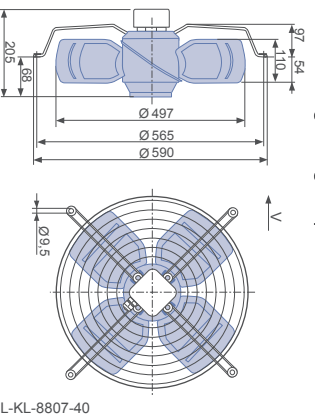
Connection diagram

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Dimensions mm

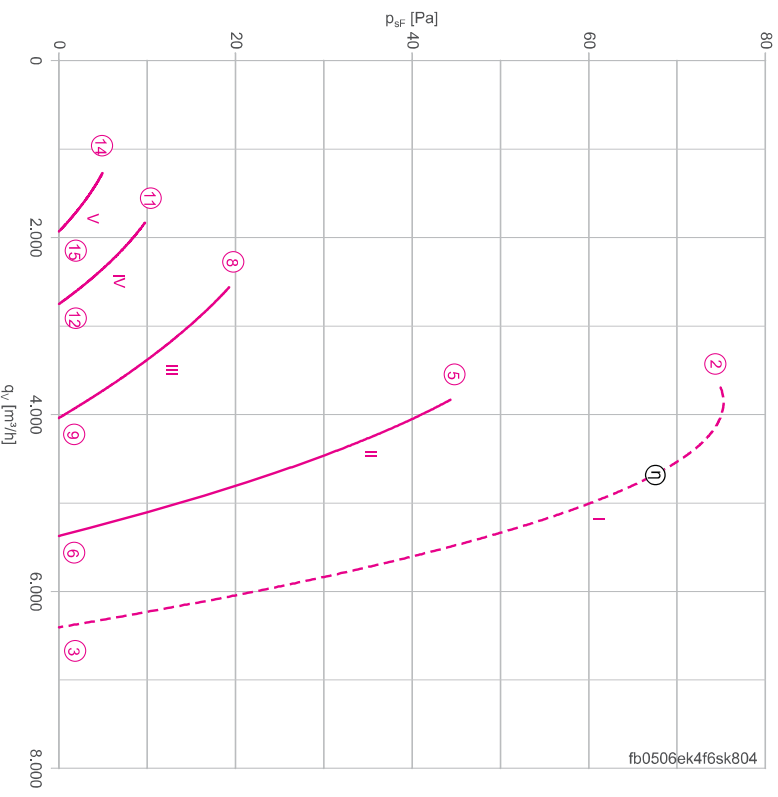
Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-40

Characteristic curve



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature t_{R} °C
		U V		I A	P_1 W	n min ⁻¹		
FB050-6E_4F.V4S	I	230*	②	1.35*	290*	850*		65
		230	③	1.15	250	900	72	
	II	230	⑤	1.20	270	880	70	70
		230	⑥	1.10	240	910	70	
	III	160	⑧	1.30	190	570	59	
		160	⑨	1.25	180	670	62	
	IV	130	⑪	1.10	130	410	55	
		130	⑫	1.10	125	460	55	
	V	105	⑭	0.91	83	280		
		105	⑮	0.90	82	340		

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB050-6EK.4F.V4S
Article no. 124191

Weight kg 9.50

Control technology

Frequency inverter Fcontrol 1~

Motor protection units 1~

Electronic voltage controllers 1~



FB

for single phase alternating current, 8 pole

FB050-8E



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V \pm 10 %*
 Rated frequency f_N : 50 Hz* (60Hz Daten verfügbar)
 Motor input power P_1 : 0.15 kW*
 Rated current I_N : 0.66 A*
 Rated speed n_N : 670 min⁻¹*
 Starting current I_A : 0.90 A
 current increase ΔI : 0 %
 Service capacitor C_{400V} : 3.0 μ F
 Thermal class: **THCL155***
 Min. permitted conveyor temperature $t_{F(min)}$: -25 °C
 Maximum permitted conveyor temperature $t_{F(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: Thermostat (TB)
 Blades: Blades made of aluminium, uncoated
 Rotor: Aluminium, uncoated
 conformity: CE
 * Rating plate data

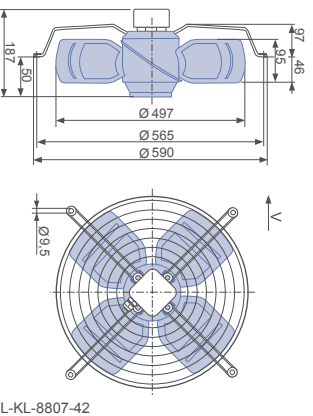
Connection diagram

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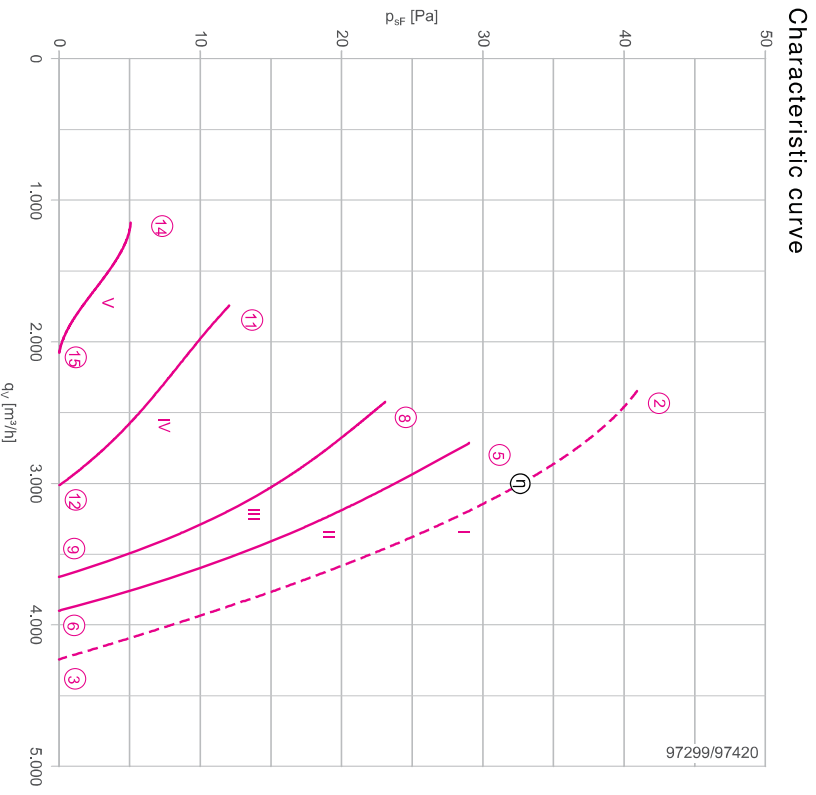
Dimensions mm

Airflow direction V

Design K - axial boiled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-42



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB050-8E_4C_4P	I	230*	②	0.64*	130*	680*	67
		230	③	0.56	110	710	64
	II	230	⑤	0.62	120	690	63
		230	⑥	0.58	120	700	61
	III	170	⑧	0.60	95	620	59
		170	⑨	0.52	85	660	58
	IV	135	⑪	0.64	75	440	52
		135	⑫	0.56	70	540	54
	V	110	⑭	0.56	50	300	46
		110	⑮	0.54	50	370	47

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type **FB050-8EK.4C.V4P**
Article no. **160129**

Weight kg 8.10

Control technology

Frequency inverter Fcontrol 1~

Motor protection units 1~

Electronic voltage controllers 1~



FB

for three phase alternating current, 4-4 pole

FB050-V/D



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 5 Hz*
 Input power P_1 : 0.58/0.44 kW*
 Rated current I_N : 1.05/0.71 A*
 Rated speed n_N : 1350/1030 min⁻¹*
 Starting current I_s : 4.00 / 1.20 A
 Current increase ΔI : 10 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -40 °C
 Max. permitted ambient temperature $t_{(max)}$: 55 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE
ERP-data
 Efficiency η_{rated} : 36.8 %
 Efficiency: $\eta_{actual} = 45.2 / \eta_{target} = 40$ **
 * Rated data
 ** ERP 2015

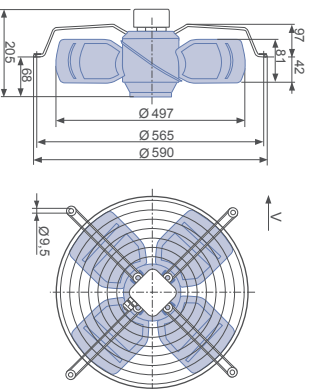
Connection diagram

Page 192
1360-108XA

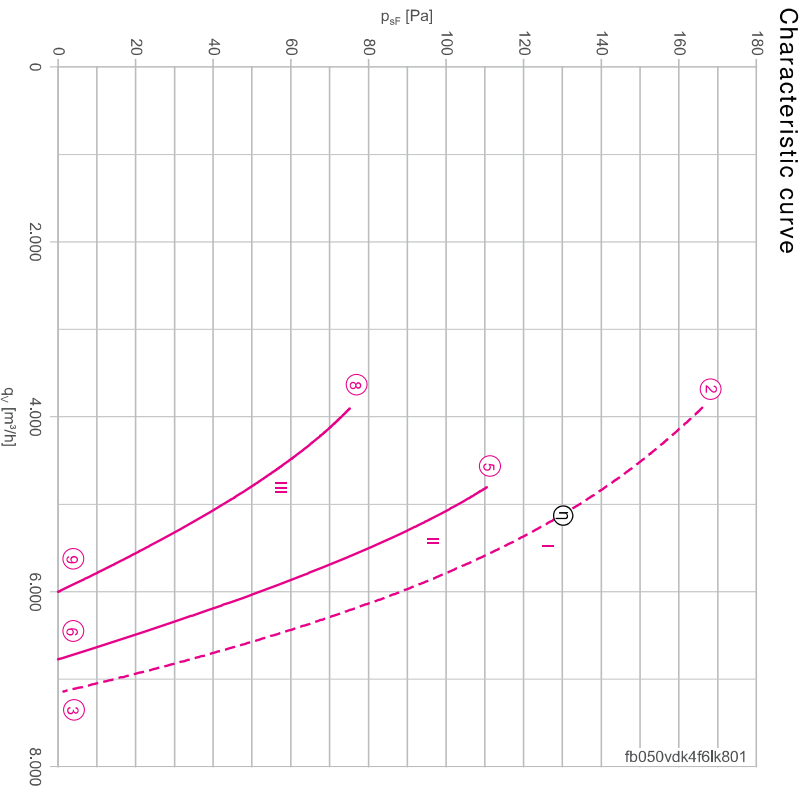
Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-30



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-X) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Connection	Characteris- tic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature t_R °C
			U V		I A	P_1 W	n min ⁻¹		
FB050-VD_4F.V4L	Δ	I	400*	②	1.05*	580*	1350*		55
			400	③	0.88	360	1410	76	
		II	400	④	0.98	480	1380	76	
	Y	III	400	⑤	0.85	350	1420	76	70
			400	⑥	0.62	360	1130	72	
		400	⑦	0.48	280	1260	73		

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB050-VDK.4F.V4L
Article no. 124186

Weight kg 9.50

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		

FB

for three phase alternating current, 4-4 pole

FB050-VD



Description

Motor technology: AC
 Rated voltage U_N : 3~400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 0.65/0.44 kW*
 Rated current I_N : 1.15/0.77 A*
 Rated speed n_N : 1340/960 min⁻¹*
 Starting current I_s : 4.20 / 1.20 A
 Current increase ΔI : 15 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -40 °C
 Max. permitted ambient temperature $t_{(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

ERP-data
 Efficiency η_{rated} : 34.6 %
 Efficiency: $N_{actual} = 42.4 / N_{target} = 40$ **
 * Rated data
 ** ERP 2015

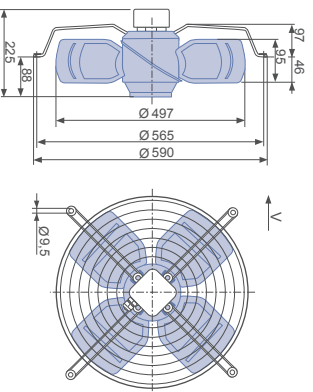
Connection diagram

Page 192
1360-108XA

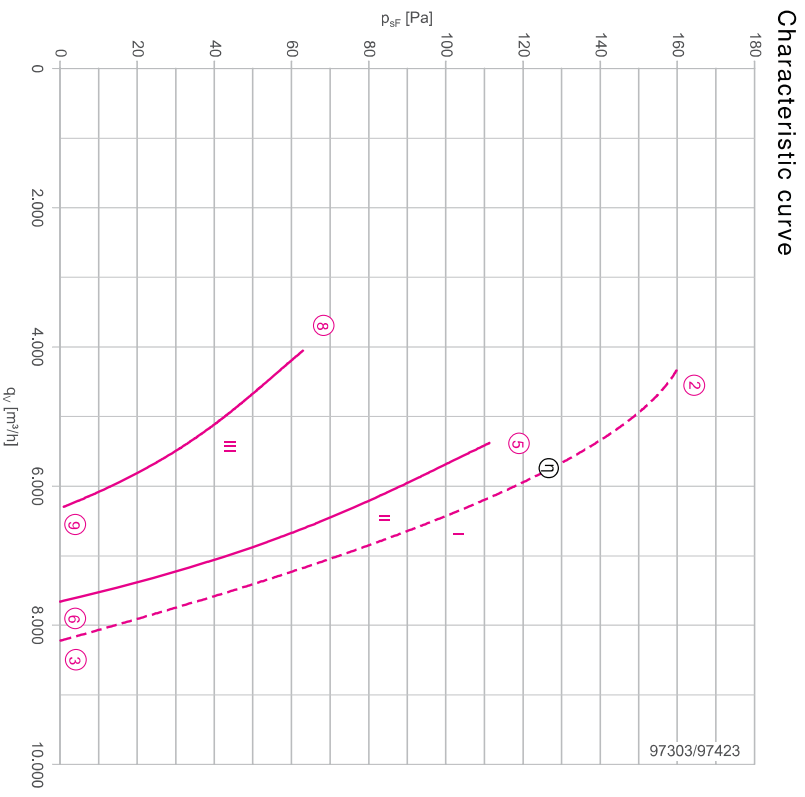
Dimensions mm

➔ Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-31



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)	
FB050-VD_4I_4P	Δ	I	400*	②	1.15*	660*	1340*	84	
			400	③	0.84	420	1410	77	
			400	⑤	1.05	600	1360	79	
		Y	III	400	⑥	0.90	460	1400	77
				400	⑧	0.74	420	1030	73
				400	⑨	0.64	370	1140	72

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB050-VDK.4I.V4P
Article no. 210543

Weight kg 11.30

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		

FB

for three phase alternating current, 6-6 pole

FBO50-S D



Description

Motor technology: AC
 Rated voltage U_N : 3~400 V (Δ/Y) $\pm 10\%$
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 210/140 W*
 Rated current I_N : 0.56/0.28 A*
 Rated speed n_N : 920/ 730 min^{-1} *
 Starting current I_s : 1.50 / 0.46 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -40 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE
ERP-data
 Efficiency η_{rated} : 29.6 %
 Efficiency: $N_{\text{actual}} = 40.3 / N_{\text{target}} = 40$ **
 * Rated data
 ** ERP 2015

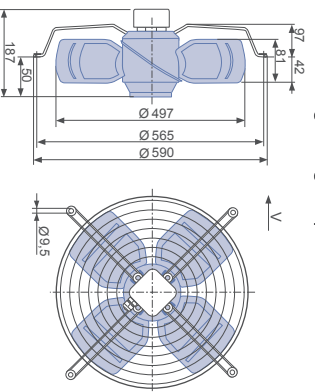
Connection diagram

Page 192
1360-108XA

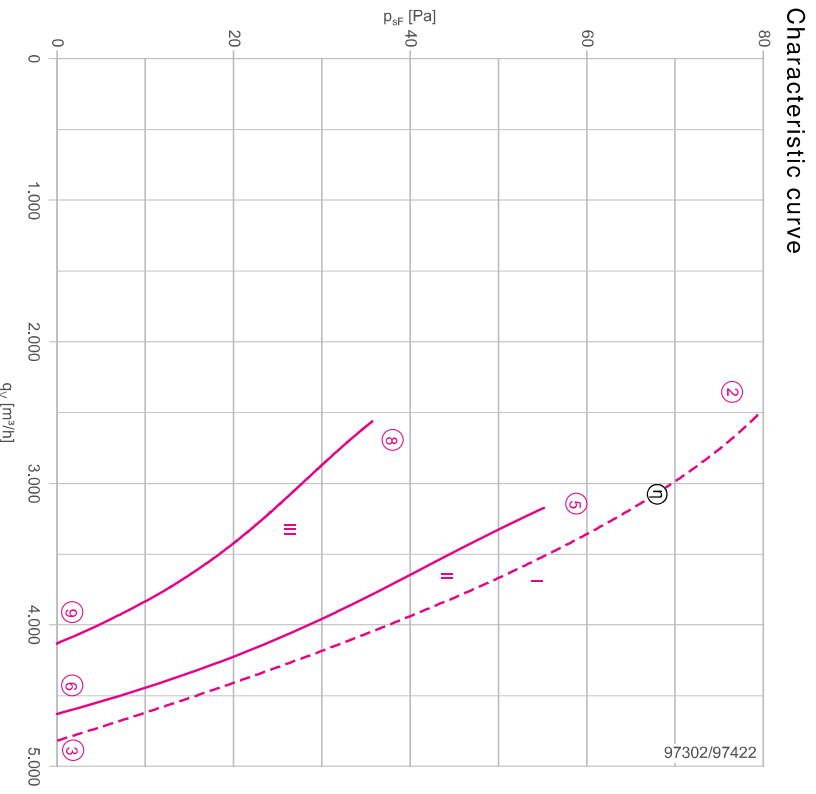
Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-35



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)	
FB050-SD_4C_4L	Δ	I	400*	②	0.56*	220*	920*	73	
			400	③	0.52	140	960	71	
			400	⑤	0.54	190	930	67	
		Y	III	400	⑥	0.52	150	950	66
				400	⑧	0.27	130	750	61
				400	⑨	0.21	100	850	62

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB050-SDK.4C.V4L
Article no. 124187

Weight kg 8.10

Control technology

Frequency inverter Fcontrol 3~

Motor protection units 3~

Electronic voltage controllers 3~



FB

for three phase alternating current, 8-8 pole

FBO50-AD



Description

Motor technology: AC
 Rated voltage U_N : 3~400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 120/80 W*
 Rated current I_N : 0.30/0.15 A*
 Rated speed n_N : 670/520 min^{-1} *
 Starting current I_s : 0.70 / 0.22 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -40 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: CE

ERP-data
 Not subject to the regulations of ErP directive ($P_1 < 125$ W)
 * Rated data

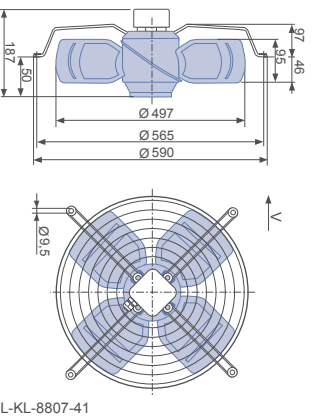
Connection diagram

Page 192
1360-108XA

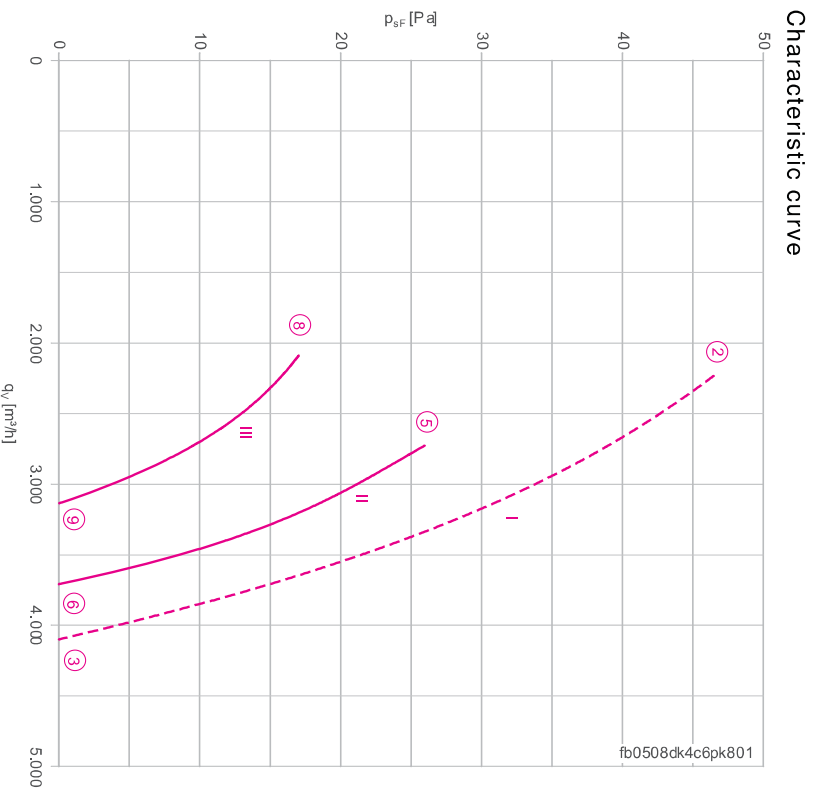
Dimensions mm

Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-41



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)
FB050-AD_4C.V4P	Δ	I	400*	②	0.30*	115*	670*	
			400	③	0.26	92	690	62
		II	400	⑤	0.27	105	680	63
	Y	III	400	⑥	0.26	92	690	60
			400	⑧	0.13	66	550	59
		400	⑨	0.11	60	590	57	

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB050-ADK.4C.V4P
Article no. 124188

Weight kg 8.10

Control technology

Frequency inverter Fcontrol 3~

Motor protection units 3~

Electronic voltage controllers 3~



FB

for single phase alternating current, 6 pole

FB056-GE



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V \pm 10 %*
 Rated frequency f_{rN} : 50 Hz*
 Input power P_1 : 280 W*
 Rated current I_N : 1,30 A*
 Rated speed n_N : 890 min⁻¹*
 Starting current I_s : 2,20 A
 Current increase ΔI : 5 %
 Service capacitor C_{400V} : 8,0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -25 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

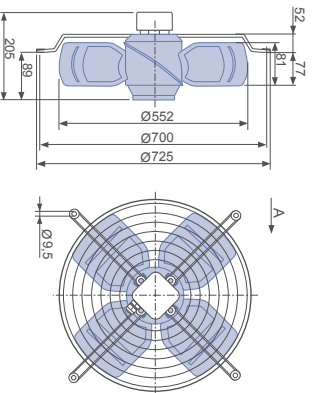
ERP-data
 Efficiency η_{actual} : 30,6 %
 Efficiency: $N_{\text{actual}} = 40,7 / N_{\text{target}} = 40$ **
 * Rated data
 ** ERP 2015

Connection diagram Page 192
 for airflow direction A 1360-104XB
 for airflow direction V 1360-104XA

Dimensions mm

Airflow direction A

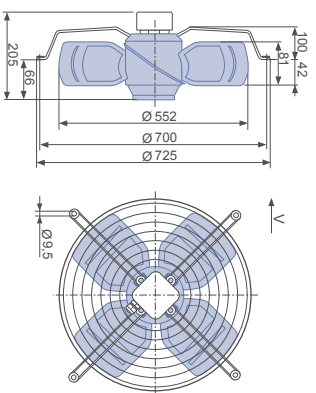
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



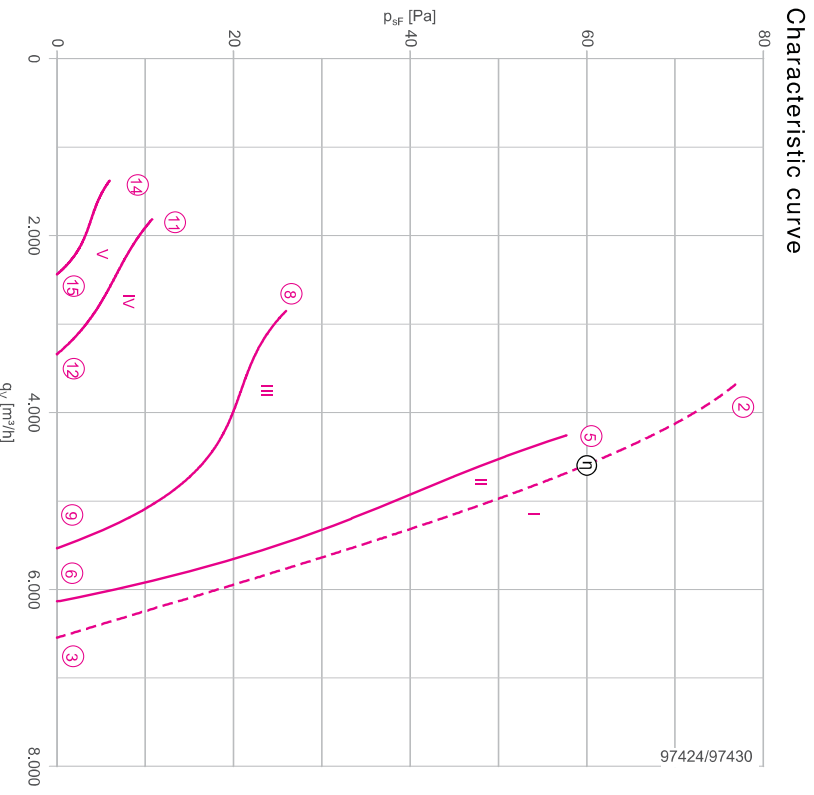
L-KL-8805-7

Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-47





1) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB056-6E_4F_4L	I	230*	②	1.30*	280*	890*	73
		230	③	0.92	200	950	72
	II	230	⑤	1.20	260	900	69
		230	⑥	0.98	210	940	70
	III	170	⑧	1.40	210	600	63
		170	⑨	1.05	170	850	66
	IV	135	⑪	1.15	130	380	60
		135	⑫	1.10	130	510	60
	V	110	⑭	0.94	85	290	52
		110	⑮	0.92	85	370	56

*rated data

Fan ordering information

	Airflow direction A	Airflow direction V
Design	W (guard grille suction side)	K (guard grille pressure side)
		
Type	FB056-6EW.4F.A4L	FB056-6EK.4F.V4L
Article no.	160137	160139
Weight kg	10.40	10.40

Control technology

Frequency inverter Fcontrol 1~	Motor protection units 1~	Electronic voltage controllers 1~
		

FB

for single phase alternating current, 8 pole

FB056-8E



Description

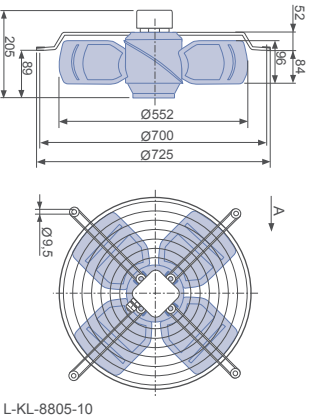
Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V±10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 220 W*
 Rated current I_N : 1.10 A*
 Rated speed n_N : 680 min⁻¹*
 Starting current I_A : 1.60 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 5.0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -25 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 65 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 * Rated data

Connection diagram Page 192
 for airflow direction A 1360-104XB
 for airflow direction V 1360-104XA

Dimensions mm

Airflow direction A

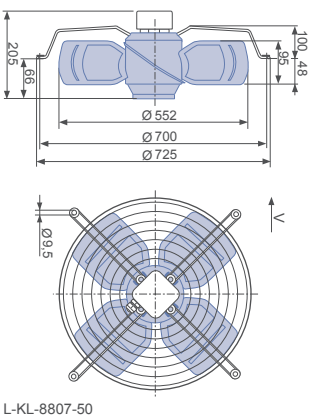
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



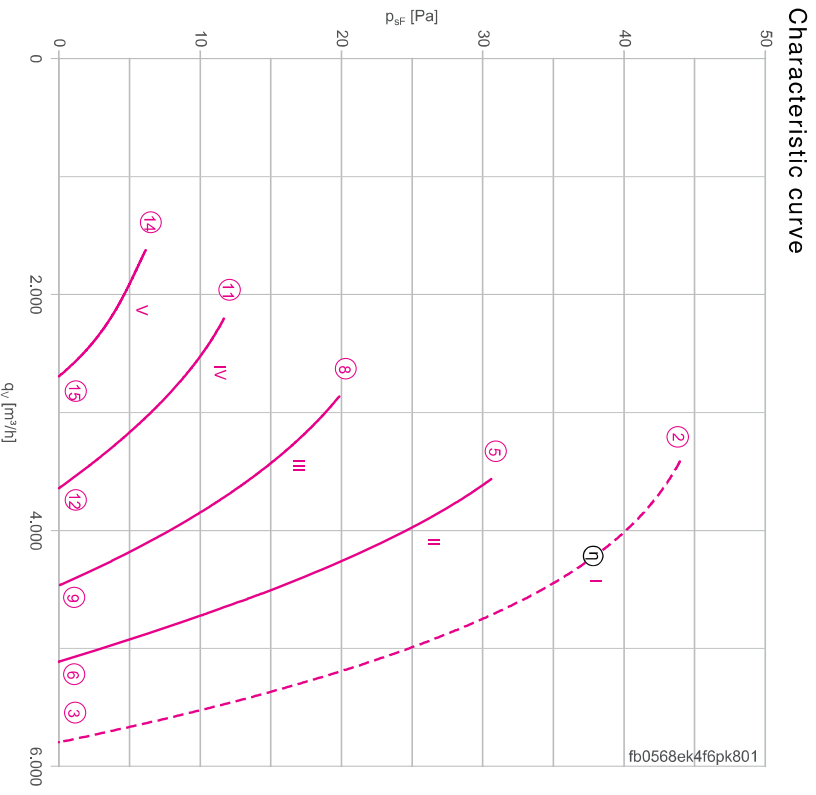
L-KL-8805-10

Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-50





I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature t_{R} °C
		U V		I A	P_1 W	n min ⁻¹		
FB056-8E_4F_4P	I	230*	②	1.10*	220*	680*		65
		230	③	0.95	190	690	64	
	II	230	⑤	1.00	200	680	65	70
		230	⑥	0.93	180	710	65	
	III	160	⑧	0.94	130	510	60	
		160	⑨	0.81	115	600	61	
	IV	130	⑪	0.83	94	410	56	
		130	⑫	0.78	89	490	57	
	V	105	⑭	0.70	62	310		
		105	⑮	0.69	62	360		

*rated data

Fan ordering information

	Airflow direction A	Airflow direction V
Design	W (guard grille suction side)	K (guard grille pressure side)
		
Type	FB056-8EW.4F.A4P	FB056-8EK.4F.V4P
Article no.	107066	124176
Weight kg	10.40	10.40

Control technology

Frequency inverter Fcontrol 1~	Motor protection units 1~	Electronic voltage controllers 1~
		

FB

for three phase alternating current, 4-4 pole

FB056-V/D



Description

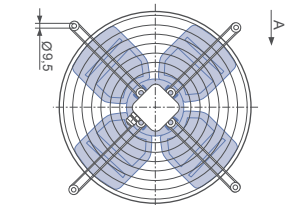
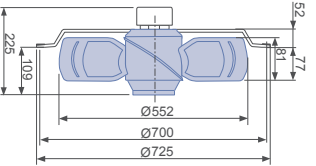
Motor technology: AC
 Rated voltage U_N : 3~400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 0.84/0.64 kW*
 Rated current I_N : 1.65/1.05 A*
 Rated speed n_N : 1360/1090 min⁻¹*
 Starting current I_s : 6.50 / 2.00 A
 Current increase ΔI : 10 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -40 °C
 Max. permitted ambient temperature $t_{(max)}$: 40 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: EIP 2015, CE
EIP-data
 Efficiency η_{rated} : 37.9 %
 Efficiency: $\eta_{actual} = 45.0 / \eta_{target} = 40$ **
 * Rated data
 ** EIP 2015

Connection diagram Page 192
 for airflow direction A 1360-108XB
 for airflow direction V 1360-108XA

Dimensions mm

Airflow direction A

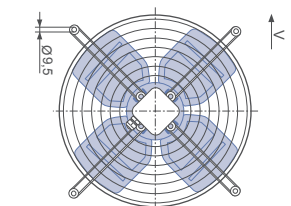
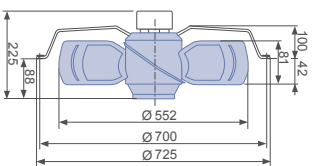
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



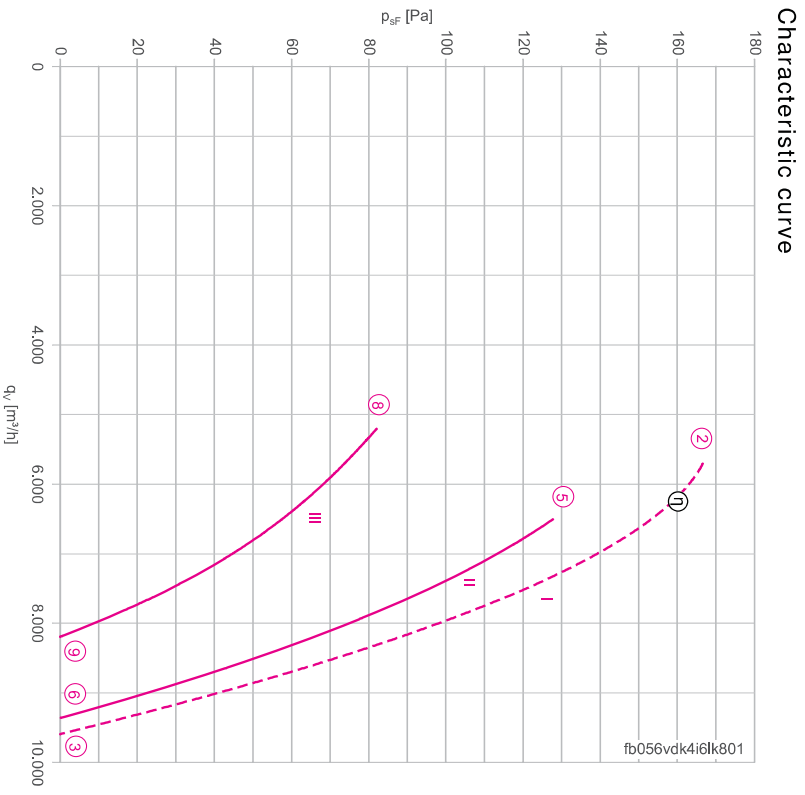
L-KL-8805-4

Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-43





I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature t_R °C
			U V						
FB056-VD_4I_4L	Δ	I	400*	②	1.65*	840*	1360*		40
			400	③	1.25	570	1410	79	
		II	400	⑤	1.45	760	1370	80	
	Y	III	400	⑥	1.20	540	1420	80	
			400	⑧	0.97	580	1110	76	
		400	⑨	0.76	450	1230	77		

*rated data

Fan ordering information

	Airflow direction A	Airflow direction V
Design	W (guard grille suction side)	K (guard grille pressure side)
		
Type	FB056-VDW.4I.A4L	FB056-VDK.4I.V4L
Article no.	127411	124384
Weight kg	12.20	12.20

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		

FB

for three phase alternating current, 6-6 pole

FB056-S-D



Description

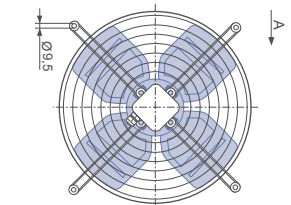
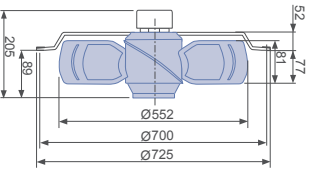
Motor technology: AC
 Rated voltage U_N : 3-400 V (Δ/N) $\pm 10\%$
 Rated frequency f_N : 50 Hz* (50Hz data available)
 Input power P_1 : 280/180 W*
 Rated current I_N : 0.68/0.39 A*
 Rated speed n_N : 910/ 660 min^{-1} *
 Starting current I_s : 1.80 / 0.50 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb}(min)}$: -40 °C
 Max. permitted ambient temperature $t_{\text{amb}(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{rated} : 34.0 %
 Efficiency: $N_{\text{actual}} = 44.2 / N_{\text{target}} = 40$ **
 * Rated data
 ** ErP 2015

Connection diagram Page 192
 for airflow direction A 1360-108XB
 for airflow direction V 1360-108XA

Dimensions mm

Airflow direction A

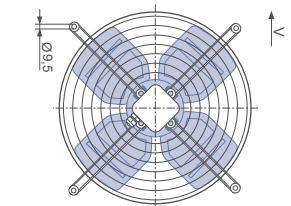
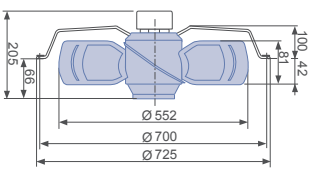
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



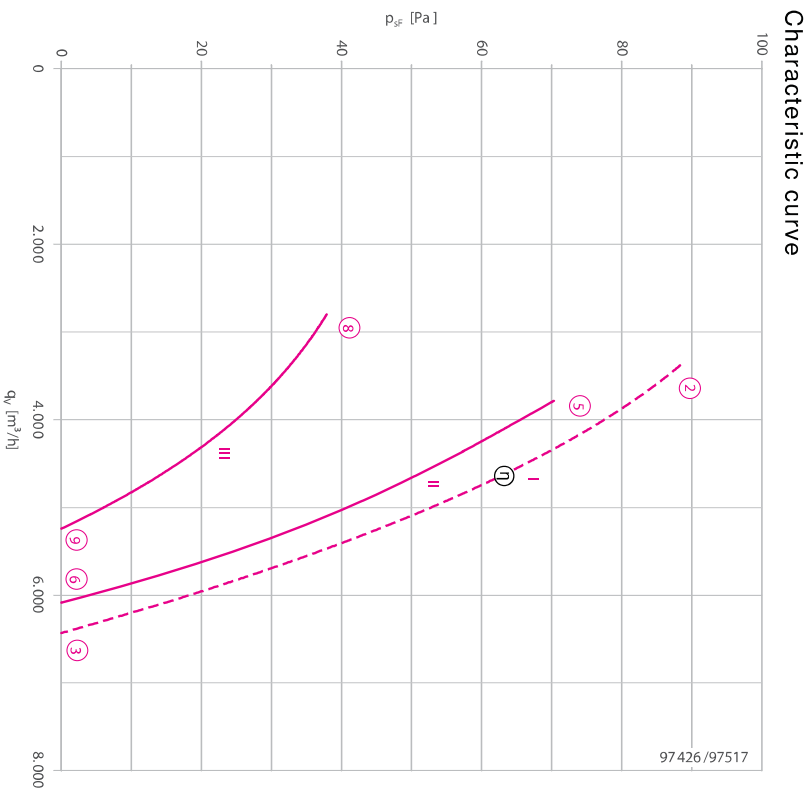
L-KL-8805-5

Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-44





I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)	
			U V						
FB056-SD_4F_4L	Δ	I	400*	②	0.68*	280*	910*	76	
			400	③	0.58	180	960	72	
			400	⑤	0.64	250	930	75	
		Y	III	400	⑥	0.58	190	950	72
				400	⑧	0.38	170	680	68
				400	⑨	0.30	140	820	68

*rated data

Fan ordering information

	Airflow direction A	Airflow direction V
Design	W (guard grille suction side)	K (guard grille pressure side)
		
Type	FB056-SDW.4F.A4L	FB056-SDK.4F.V4L
Article no.	132416	124385
Weight kg	10.40	10.40

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		

FB

for three phase alternating current, 6-6 pole

FB056-S D



Description

Motor technology: AC
 Rated voltage U_N : 3~400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 340/250 W*
 Rated current I_N : 0.64/0.41 A*
 Rated speed n_N : 910/ 750 min^{-1} *
 Starting current I_s : 2.20 / 0.70 A
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -40 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: EIP 2015, CE

ERP-data
 Efficiency η_{actual} : 36.5%
 Efficiency η_{target} : 46.0 / $N_{\text{target}} = 40$ **
 * Rated data
 ** EIP 2015

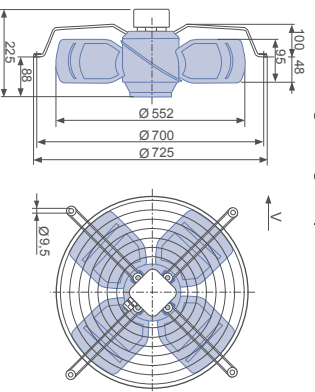
Connection diagram

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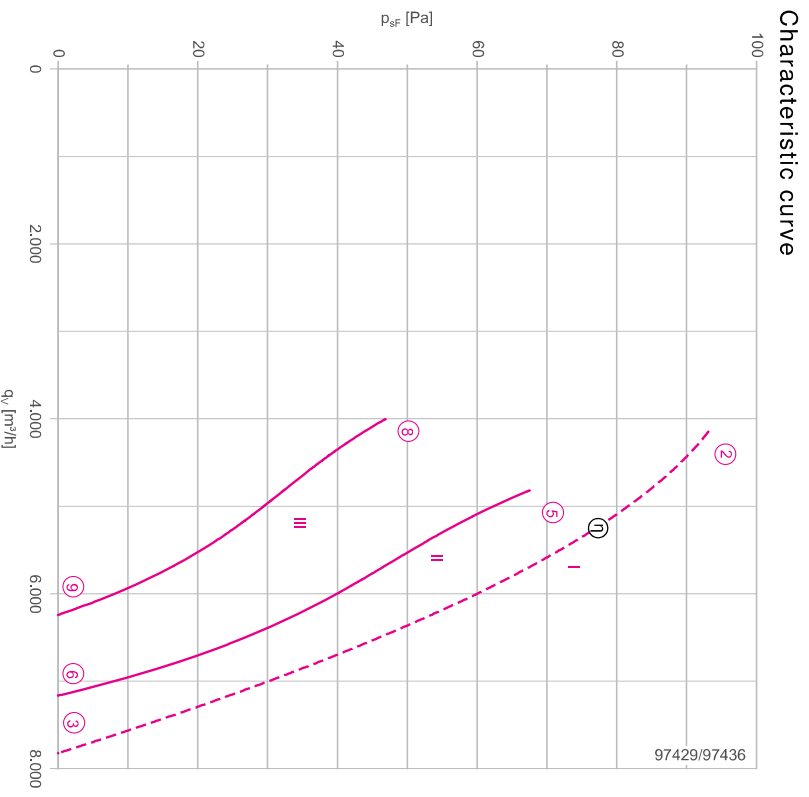
Dimensions mm

Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-66



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)	
			U V						
FB056-SD_4I.V4P	Δ	I	400*	②	0.64*	340*	910*	76	
			400	③	0.52	230	950	74	
			400	⑤	0.60	310	920	74	
		Y	III	400	⑥	0.54	250	940	73
				400	⑧	0.39	230	770	69
				400	⑨	0.33	200	820	69

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB056-SDK.4I.V4P
Article no. 160149

Weight kg 12.20

Control technology

Frequency inverter Fcontrol 3~

Motor protection units 3~

Electronic voltage controllers 3~



FB

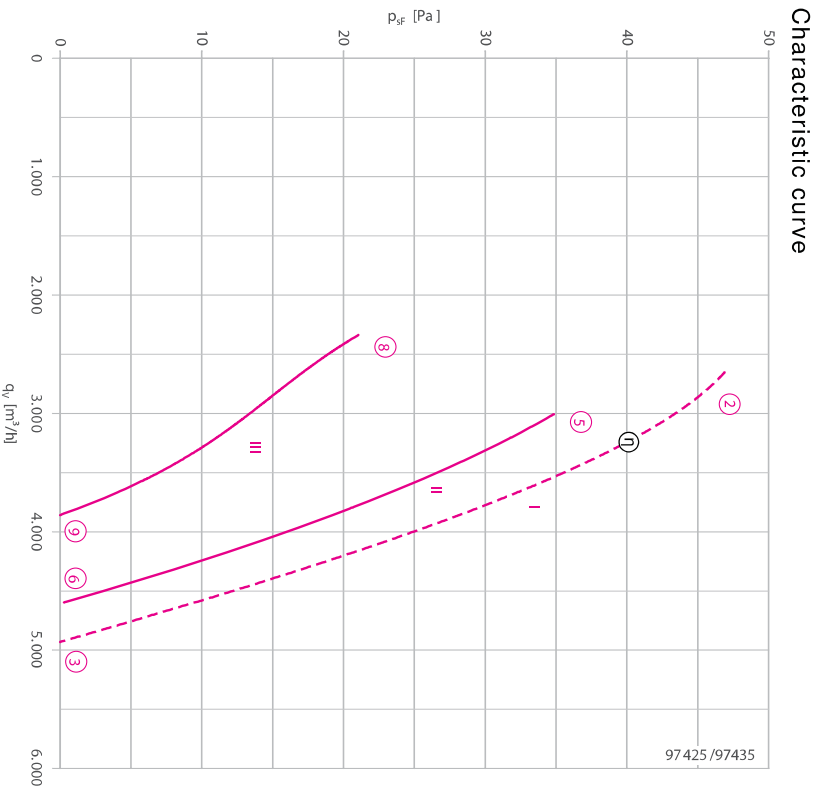
for three phase alternating current, 8-8 pole

FBO56-AD



Description

- Motor technology: AC
- Rated voltage U_N : 3~400 V (Δ/Y) $\pm 10\%$ *
- Rated frequency f_N : 50 Hz*
- Input power P_1 : 130/80 W*
- Rated current I_N : 0.29/0.15 A*
- Rated speed n_N : 660/ 500 min^{-1} *
- Starting current I_s : 0.70 / 0.22 A
- Thermal class: **THCL155***
- Min. permitted ambient temperature $t_{\text{amb(min)}}$: -40 °C
- Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
- Electrical connection: Terminal box
- Number of blades: 4
- Protection class: IP54
- Motor protection: thermal contact
- Blades: Aluminium, uncoated
- Rotor: Aluminium, uncoated
- Conformity: CE
- ERP-data**
- Not subject to the regulations of ERP directive ($P_1 < 125$ W)
- * Rated data



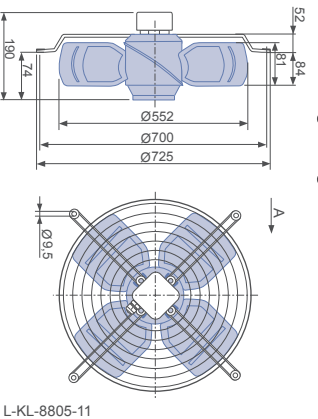
- I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
- II-x) Measured in short-bell mouth with compressed side contact protection.

Connection diagram Page 192
for airflow direction A 1360-108XB
for airflow direction V 1360-108XA

Dimensions mm

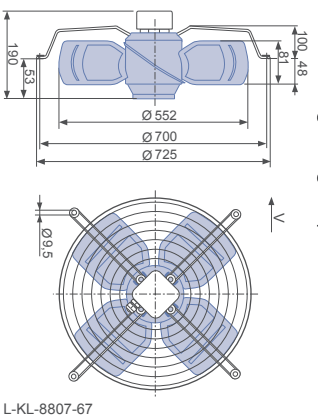
Airflow direction A

Design W - axial bolted, mounting for short bell mouth, guard grille suction side



Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side





Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)
			U V					
FB056-AD_4C_4L	Δ	I	400*	②	0.30*	130*	660*	67
			400	③	0.26	90	700	65
		II	400	⑤	0.29	120	670	63
	Y	III	400	⑥	0.27	100	700	61
			400	⑧	0.15	80	520	56
		400	⑨	0.12	65	590	57	

*rated data

Fan ordering information

	Airflow direction A	Airflow direction V
Design	W (guard grille suction side)	K (guard grille pressure side)
		
Type	FB056-ADW.4C.A4L	FB056-ADK.4C.V4L
Article no.	160141	160143
Weight kg	9.00	9.00

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		

FB

for three phase alternating current, 4 pole

FBO63-4 D



Description

Motor technology: AC
 Rated voltage U_N : 3- 230/400 V (Δ/Y) ±10 %*
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 1.10 kW*
 Rated current I_N : 3.80/2.20 A*
 Rated speed n_N : 1300 min⁻¹*
 Starting current I_A : 11.00 / 6.50 A
 Current increase ΔI: 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -40 °C
 Max. permitted ambient temperature $t_{(max)}$: 60 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

ERP-data
 Efficiency η_{rated} : 38.5 %
 Efficiency: $N_{actual} = 44.7 / N_{target} = 40$ **
 * Rated data
 ** ERP 2015

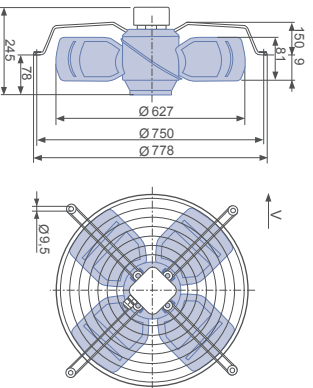
Connection diagram

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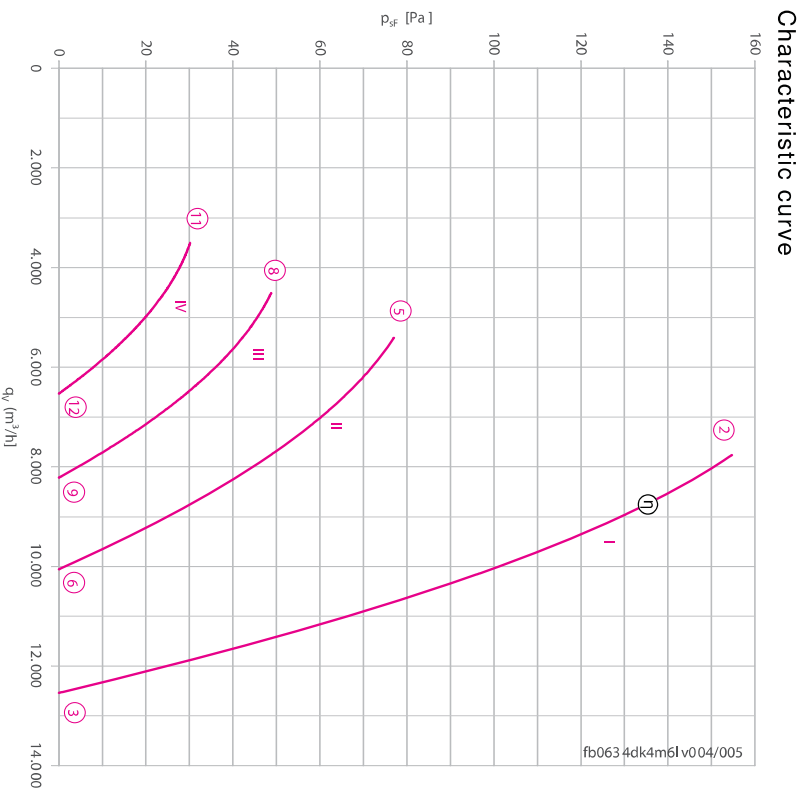
Dimensions mm

Airflow direction V

Design K - axial boiled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-52



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.
 Operation of fan only in short bell mouth (min. 634 mm, height of nozzle max. 60 mm).

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB063-4D_4M.V4L	I	400*	②	2.20*	1100*	1300*	83
		400	③	1.80	790	1380	85
	II	230	⑤	2.10	650	910	74
		230	⑥	1.85	560	1090	80
	III	180	⑧	1.90	450	730	69
		180	⑨	1.70	400	860	74
	IV	140	⑪	1.60	280	570	63
		140	⑫	1.50	270	700	68

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB063-4DK.4M.V4L
Article no. 135045

Weight kg 17.40

Control technology

Frequency inverter Control 3~

Motor protection units 3~

Electronic voltage controllers 3~



FB

for single phase alternating current, 6 pole

FBO63-GE



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V \pm 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 0.47 kW*
 Rated current I_N : 2.30 A*
 Rated speed n_N : 920 min⁻¹*
 Starting current I_A : 5.50 A
 Current increase ΔI : 15 %
 Service capacitor C_{400V} : 10,0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -25 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 55 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE

ERP-data
 Efficiency η_{actual} : 33,1 %
 Efficiency: $N_{\text{actual}} = 41.4 / N_{\text{target}} = 40$ **
 * Rated data
 ** ERP 2015

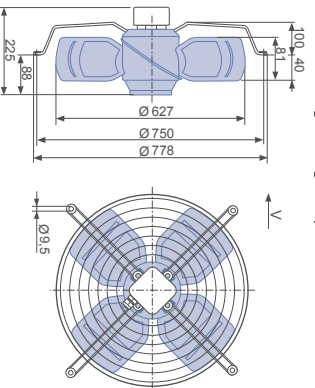
Connection diagram

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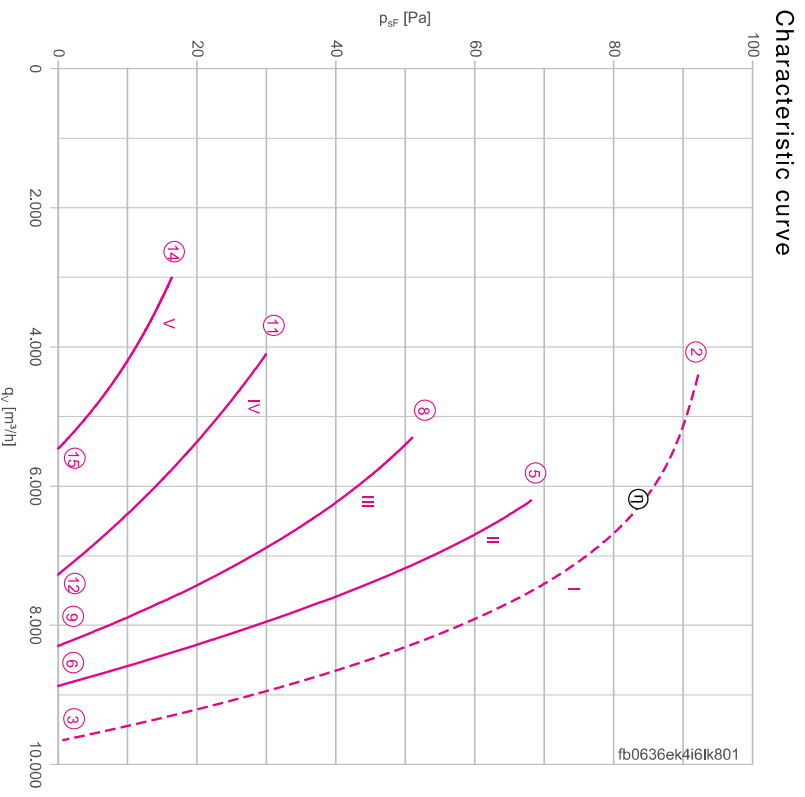
Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-56



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-X) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature t_{R} °C
		U V		I A	P_1 W	n min ⁻¹		
FB063-6E_4I.V4L	I	230*	②	2.40*	520*	910*		55
		230	③	2.10	400	950	76	
		230	⑤	2.20	490	930	76	
	II	230	⑥	1.95	410	950	74	65
		160	⑧	2.40	370	800	71	
		160	⑨	1.90	300	880	72	
	IV	130	⑪	2.40	290	610	65	
		130	⑫	2.00	250	770	69	
	V	105	⑭	2.10	200	450	58	
		105	⑮	2.00	190	570	63	

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB063-6EK.4I.V4L
Article no. 206837

Weight kg 12.80

Control technology

Frequency inverter Fcontrol 1~

Motor protection units 1~

Electronic voltage controllers 1~



FB

for single phase alternating current, 8 pole

FB063-8E



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V \pm 10 %*
 Rated frequency f_{rN} : 50 Hz* (60Hz data available)
 Input power P_1 : 250 W*
 Rated current I_N : 1.15 A*
 Rated speed n_N : 650 min⁻¹*
 Starting current I_A : 1.60 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 5.0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{a(min)}$: -25 °C
 Max. permitted ambient temperature $t_{a(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 * Rated data

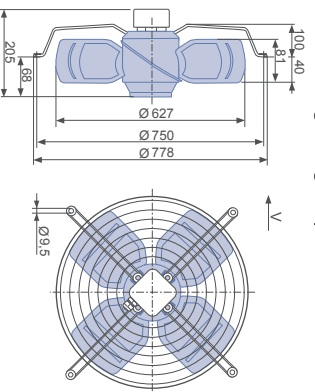
Connection diagram

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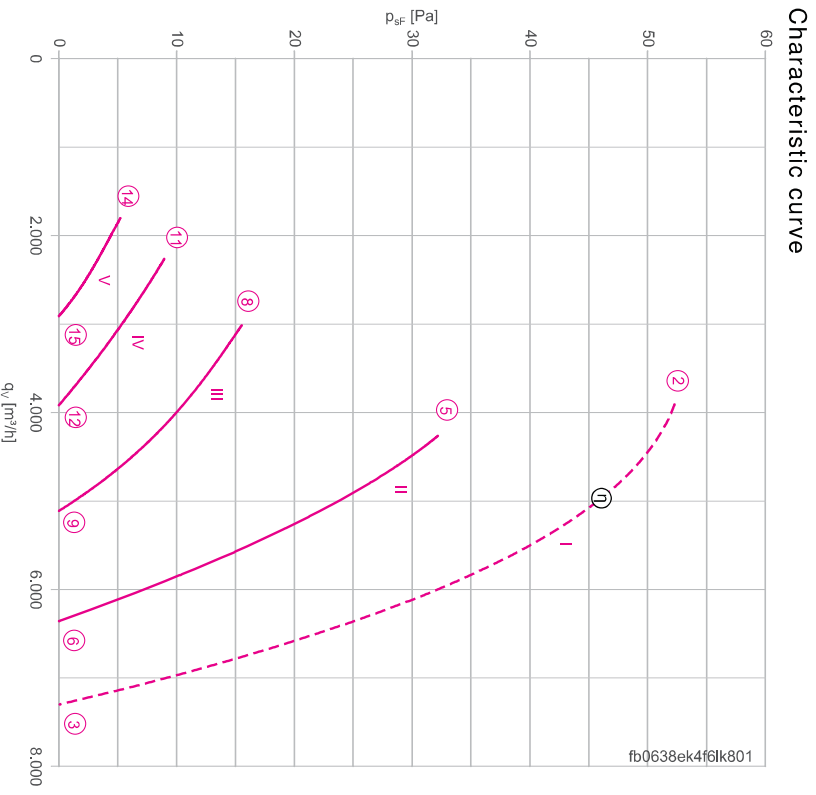
Dimensions mm

Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-61



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB063-8E_4F.V4L	I	230*	②	1.15*	250*	650*	
		230	③	0.92	190	700	67
	II	230	⑤	1.10	230	620	66
		230	⑥	0.97	195	660	65
	III	160	⑧	0.94	130	430	58
		160	⑨	0.86	125	530	60
	IV	130	⑪	0.81	90	330	55
		130	⑫	0.78	87	410	53
	V	105	⑭	0.67	60	250	53
		105	⑮	0.66	59	310	46

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB063-8EK.4F.V4L
Article no. 124172

Weight kg 11.10

Control technology

Frequency inverter Fcontrol 1~



Motor protection units 1~



Electronic voltage controllers 1~



FB

for single phase alternating current, 8 pole

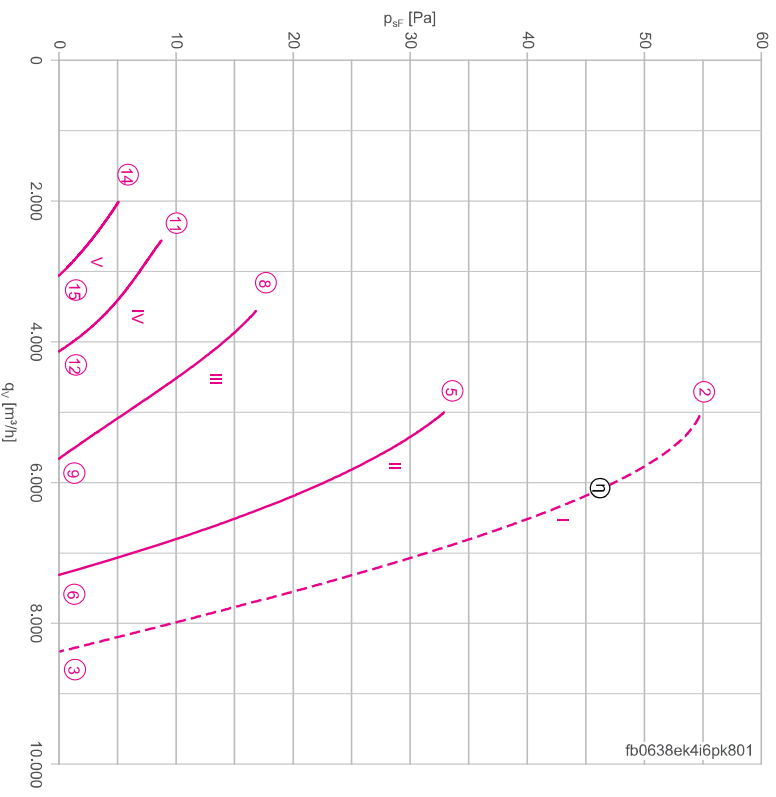
FBO63-8E



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V \pm 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Input power P_1 : 310 W*
 Rated current I_N : 1,55 A*
 Rated speed n_N : 650 min⁻¹*
 Starting current I_A : 2,20 A
 Current increase ΔI : 5 %
 Service capacitor C_{400V} : 6,0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -25 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 * Rated data

Characteristic curve



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.
 II-x) Measured in short-bell mouth with compressed side contact protection.

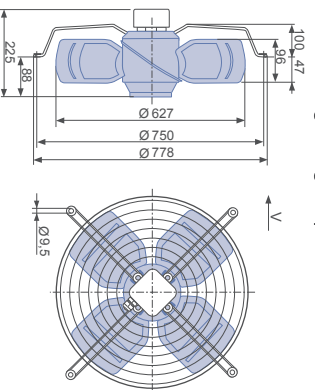
Connection diagram

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Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-62

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V		I A	P_1 W	n min ⁻¹	
FB063-8E_4I.V4P	I	230*	②	1.55*	310*	650*	
		230	③	1.30	250	690	71
	II	230	⑤	1.50	290	640	71
		230	⑥	1.35	260	660	67
	III	160	⑧	1.40	190	450	63
		160	⑨	1.30	180	510	61
	IV	130	⑪	1.25	135	330	53
		130	⑫	1.20	130	380	61
	V	105	⑭	1.05	87	250	
		105	⑮	1.00	86	280	

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type **FB063-8EK.4I.V4P**
Article no. **108187**

Weight kg 12.80

Control technology

Frequency inverter Fcontrol 1~



Motor protection units 1~



Electronic voltage controllers 1~



FB

for single phase alternating current, 8 pole

FBO63-8E



Description

Motor technology: AC
 Rated voltage U_N : 1 ~ 230 V \pm 10 %*
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 360 W*
 Rated current I_N : 1,70 A*
 Rated speed n_N : 600 min⁻¹*
 Starting current I_s : 2,40 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 8,0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -25 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 60 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 * Rated data

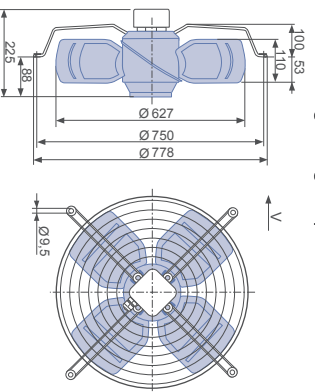
Connection diagram

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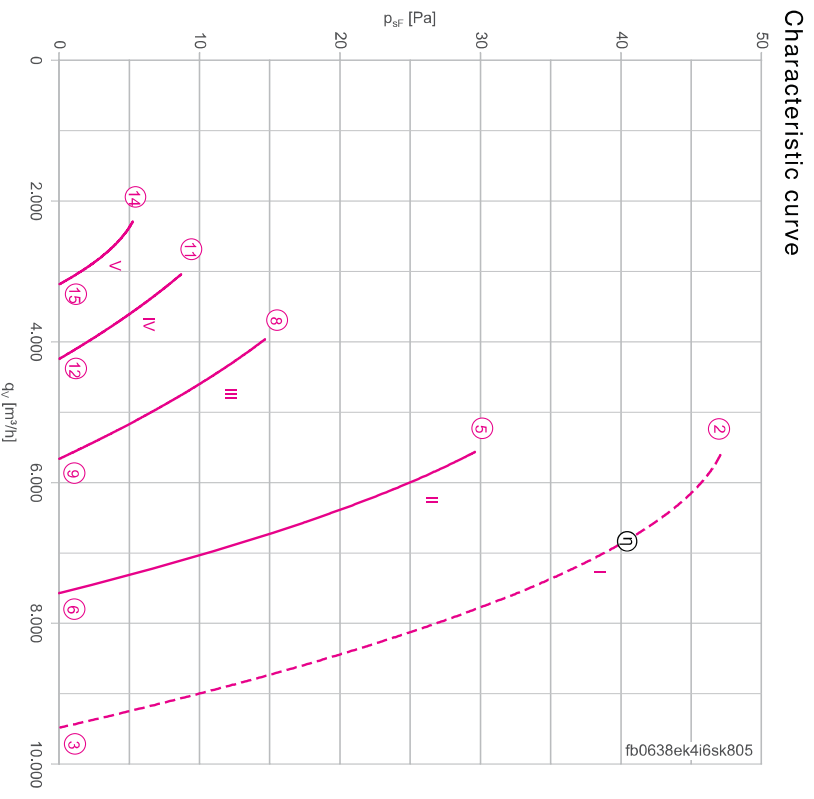
Dimensions mm

Airflow direction V

Design K - axial boled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-63



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature t_{R} °C
		U V		I A	P_1 W	n min ⁻¹		
FB063-8E_4I.V4S	I	230*	②	1.70*	360*	600*		60
		230	③	1.55	330	630	73	
		230	⑤	1.60	340	620	69	
	II	230	⑥	1.50	320	640	69	65
		160	⑧	1.45	210	430	60	
		160	⑨	1.40	200	480	63	
	IV	130	⑪	1.30	145	340	55	
		130	⑫	1.25	140	360	56	
		105	⑭	1.05	92	250		
	V	105	⑮	1.00	91	270		

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB063-8EK.4I.V4S
Article no. 124173

Weight kg 12.80

Control technology

Frequency inverter Fcontrol 1~

Motor protection units 1~

Electronic voltage controllers 1~



FB

for three phase alternating current, 4-4 pole

FBO63-VD



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 1.10/0.65 kW*
 Rated current I_N : 2.20/1.25 A*
 Rated speed n_N : 1300/ 910 min⁻¹*
 Starting current I_s : 6.50 / 1.90 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -40 °C
 Max. permitted ambient temperature $t_{(max)}$: 60 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE
ERP-data
 Efficiency η_{rated} : 38.5 %
 Efficiency: $\eta_{actual} = 44.7 / \eta_{target} = 40$ **
 * Rated data
 **ERP 2015

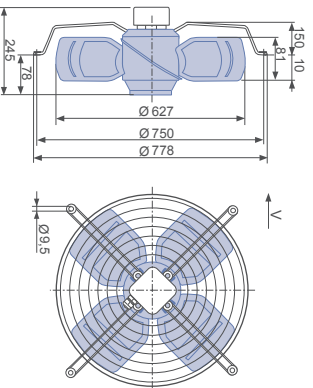
Connection diagram

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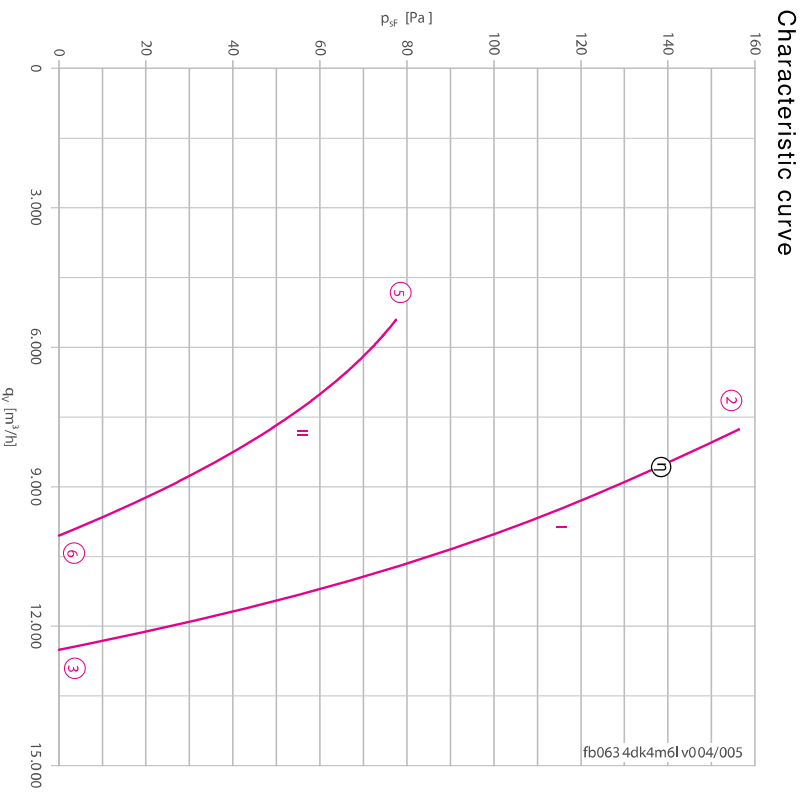
Dimensions mm

Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-51



1) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 2) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
			U V		I A	P ₁ W	n min ⁻¹	L _{WA5} dB(A)
FB063-VD_4M.V4L	Δ	I	400*	②	2.20*	1100*	1300*	83
			400	③	1.80	790	1380	85
	Y	II	400*	⑤	1.25*	650*	910*	74
			400	⑥	1.10	570	1090	80

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB063-VDK.4M.V4L
Article no. 135044

Weight kg 17.40

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		

FB

for three phase alternating current, 6-6 pole

FBO63-S D



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/N) $\pm 10\%$
 Rated frequency f_N : 50 Hz* (50Hz data available)
 Input power P_1 : 0.42/0.30 kW*
 Rated current I_N : 0.78/0.50 A*
 Rated speed n_N : 900/ 710 min⁻¹*
 Starting current I_s : 2.80 / 0.90 A
 Current increase ΔI : 10 %
 Thermal class: **THCL155**^{*}
 Min. permitted ambient temperature $t_{(min)}$: -40 °C
 Max. permitted ambient temperature $t_{(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ERP 2015, CE
ERP-data
 Efficiency η_{rated} : 38.4 %
 Efficiency: $\eta_{actual} = 47.3 / \eta_{target} = 40$ **
 * Rated data
 ** ERP 2015

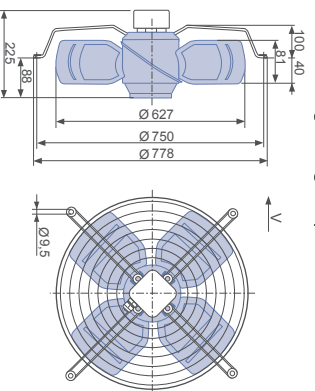
Connection diagram

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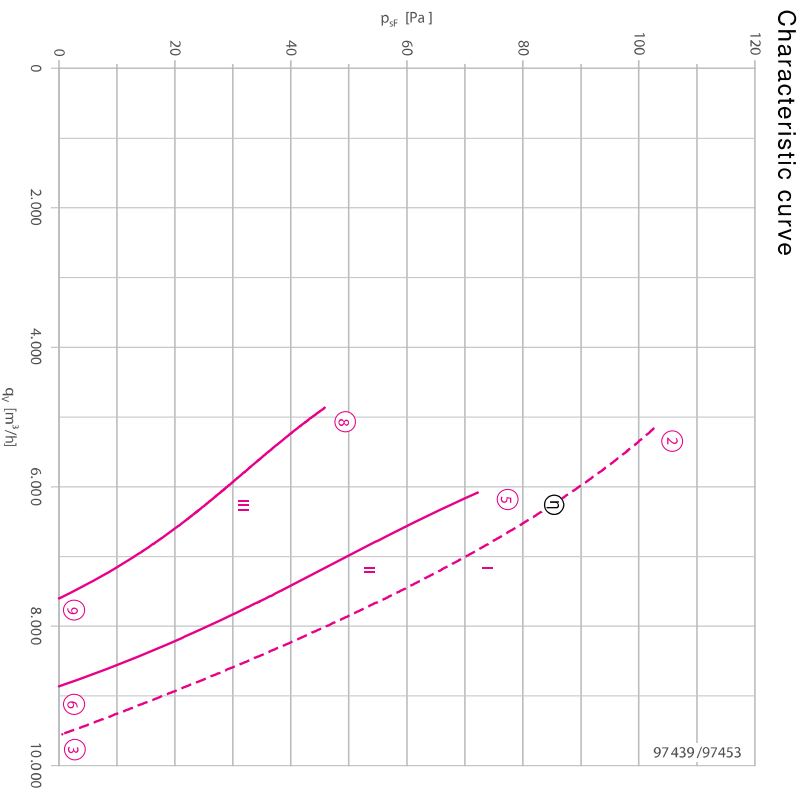
Dimensions mm

Airflow direction V

Design K - axial boiled, mounted for short bell mouth, guard grille pressure side



L-KL-8807-53



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801
 II-X) Measured in short-bell mouth with compressed side contact protection.

Performance data


Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)	
FB063-SD_4I.V4L	Δ	I	400*	②	0.78*	420*	900*	78	
			400	③	0.60	260	940	76	
			400	⑤	0.74	390	910	74	
		Y	III	400	⑥	0.64	300	940	72
				400	⑧	0.48	290	730	70
				400	⑨	0.39	230	800	68

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB063-SDK.4I.V4L
Article no. 124168

Weight kg 12.80

Control technology

Frequency inverter Fcontrol 3~

Motor protection units 3~

Electronic voltage controllers 3~



FB

for three phase alternating current, 8-8 pole

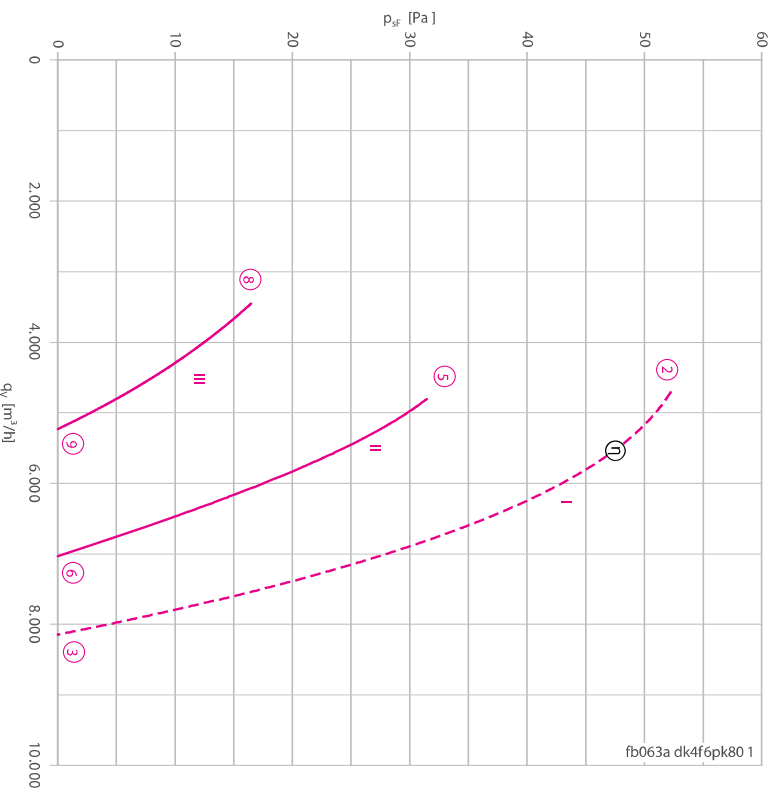
FB063-AD



Description

Motor technology: AC
 Rated voltage U_N : 3~ 400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz* (50Hz data available)
 Input power P_1 : 260/160 W*
 Rated current I_N : 0.59/0.30 A*
 Rated speed n_N : 640/ 470 min^{-1} *
 Starting current I_s : 1.20 / 0.36 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -40 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 * Rated data

Characteristic curve



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.
 II-x) Measured in short-bell mouth with compressed side contact protection.

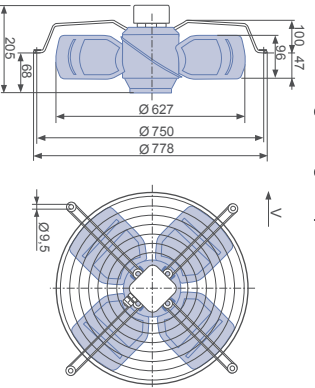
Connection diagram

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Dimensions mm

↑ Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-59

Performance data


Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P ₁ W	Speed n min ⁻¹	Suction side sound power level L _{WA5} dB(A)
FB063-AD_4F.V4P	Δ	I	400*	②	0.59*	260*	640*	
			400	③	0.51	190	680	70
			400	⑤	0.61	250	630	69
	Y	III	400	⑥	0.59	220	650	67
			400	⑧	0.28	130	440	60
			400	⑨	0.27	125	490	59

*rated data

Fan ordering information

Airflow direction V

Design K (guard grille pressure side)



Type FB063-ADK.4F.V4P
Article no. 209100

Weight kg 11.10

Control technology

Frequency inverter Fcontrol 3~

Motor protection units 3~

Electronic voltage controllers 3~



FB

for three phase alternating current, 8-8 pole

FBO63-AD



Description

Motor technology: AC
 Rated voltage U_N : 3~400 V (Δ/Y) $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Input power P_1 : 350/220 W*
 Rated current I_N : 0.77/0.40 A*
 Rated speed n_N : 640/ 470 min⁻¹*
 Starting current I_s : 1.70 / 0.55 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{(min)}$: -40 °C
 Max. permitted ambient temperature $t_{(max)}$: 70 °C
 Electrical connection: Terminal box
 Number of blades: 4
 Protection class: IP54
 Motor protection: thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 * Rated data

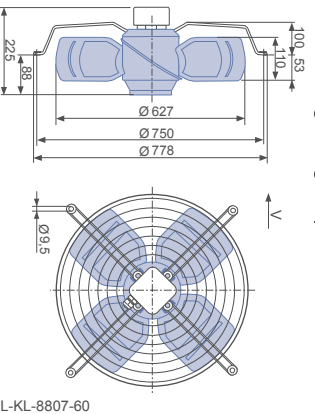
Connection diagram

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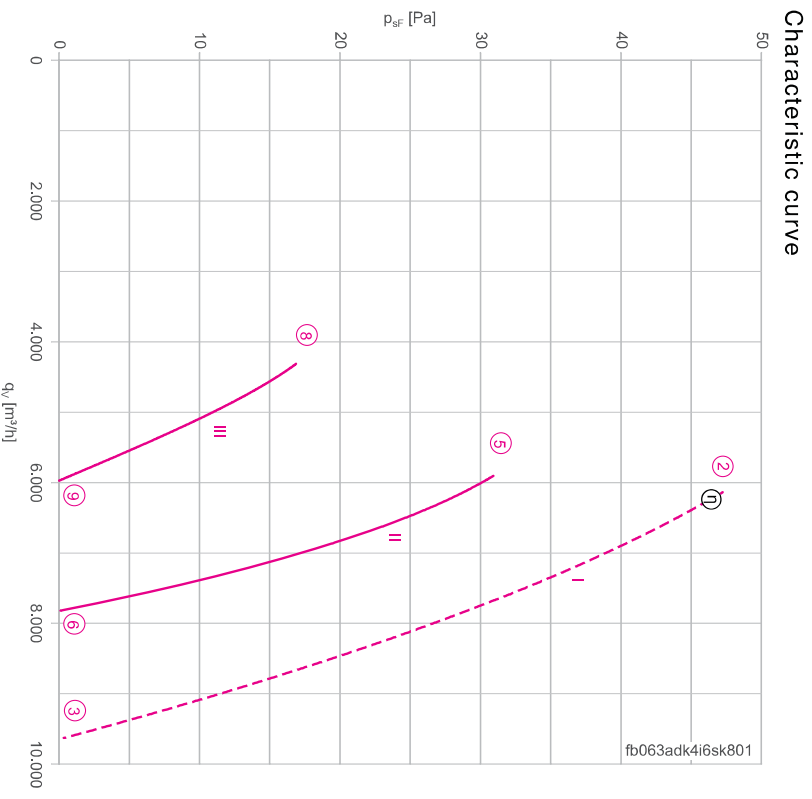
Dimensions mm

➔ Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



L-KL-8807-60



I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.
 II-x) Measured in short-bell mouth with compressed side contact protection.