







# Axial fans FB

## AC technology

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FE2owlet  
ECblue

FE2owlet

FB

FC

System  
components

Control  
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		4	FB040-4E_.2F.V4S	→ → A ← ← V	-	292
		6	FB040-6E_.2C.V4P	→ → A ← ← V	-	294
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	3~ 400 V	4-4	FB040-VD_.2C.V4L	→ → A ← ← V	2015	398
		4-4	FB040-VD_.2C.V4P	→ → A ← ← V	2015	300
		4-4	FB040-VD_.2F.V4S	→ → A ← ← V	2015 *	302
		6-6	FB040-SD_.2C.V4P	→ → A ← ← V	-	304
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450 mm	1~ 230 V	4	FB045-4E_.4F.V4L	→ → A ← ← V	2015	308
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	3~ 400 V	6	FB045-6E_.4F.V4S	→ → A ← ← V	-	318
		4-4	FB045-VD_.4C.V4L	→ → A ← ← V	2015	320
		4-4	FB045-VD_.4C.V4P	→ → A ← ← V	2015	322
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8-8	FB045-SD_.4C.V4S	→ → A ← ← V	-	330		
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500 mm	1~ 230 V	4	FB050-4E_.4F.V4L	→ → A ← ← V	2015 *	334
		4	FB050-4E_.4I.V4L	→ → A ← ← V	2015	336
		6	FB050-6E_.4C.V4L	→ → A ← ← V	2013	338
		6	FB050-6E_.4F.V4P	→ → A ← ← V	2013	340
		8	FB050-6E_.4F.V4S	→ → A ← ← V	-	342
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		4-4	FB050-VD_.4F.V4L	→ → A ← ← V	2015	346
		4-4	FB050-VD_.4I.V4P	→ → A ← ← V	2015	348
		4-4	FB050-VD_.4I.V4S	→ → A ← ← V	2013	350
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8-8	FB050-AD_.4C.V4P	→ → A ← ← V	-	358		

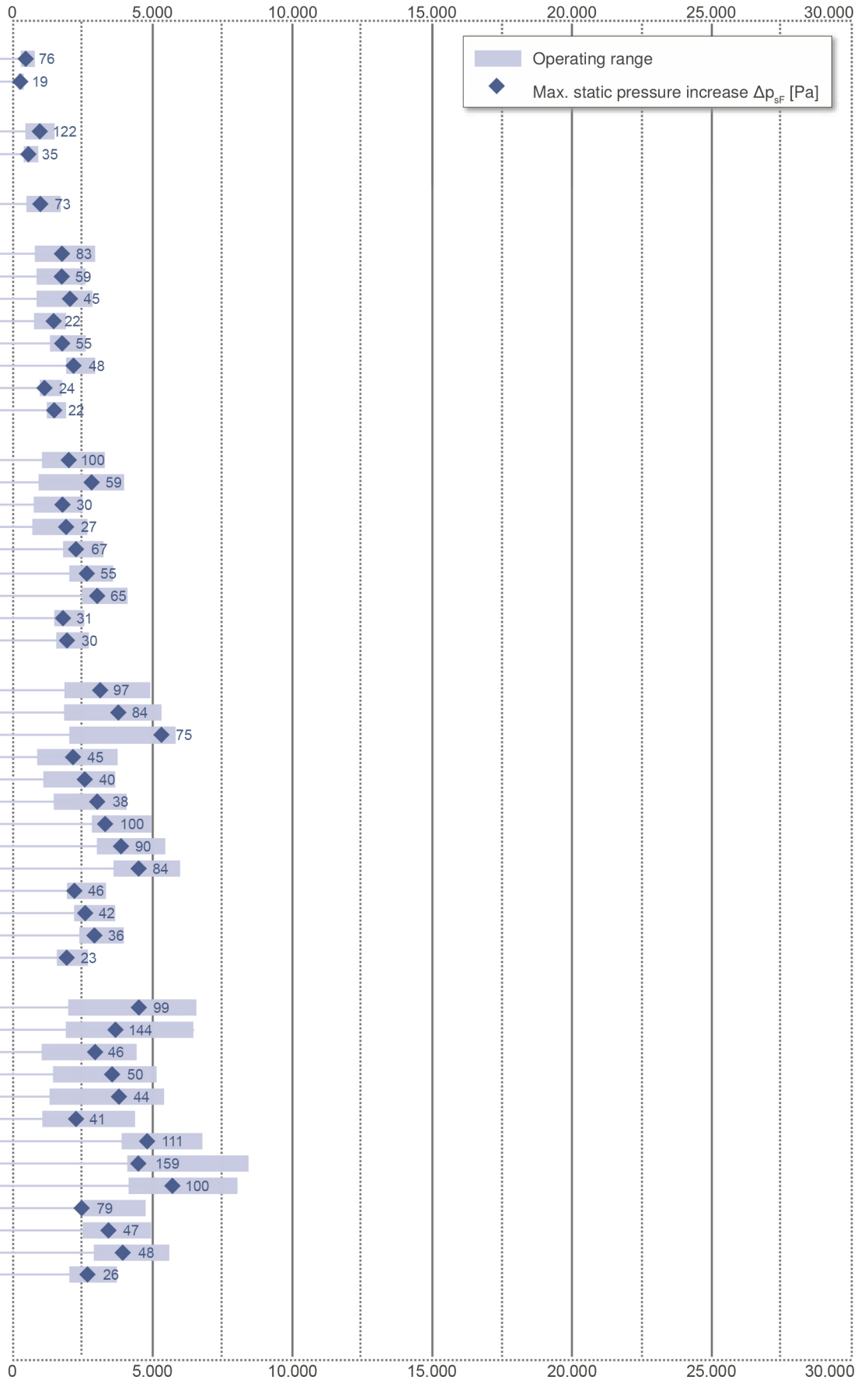
\* with ZIEHL-ABEGG frequency inverter





Air flow  $q_v$  in  $m^3/h$

Type



Air flow  $q_v$  in  $m^3/h$

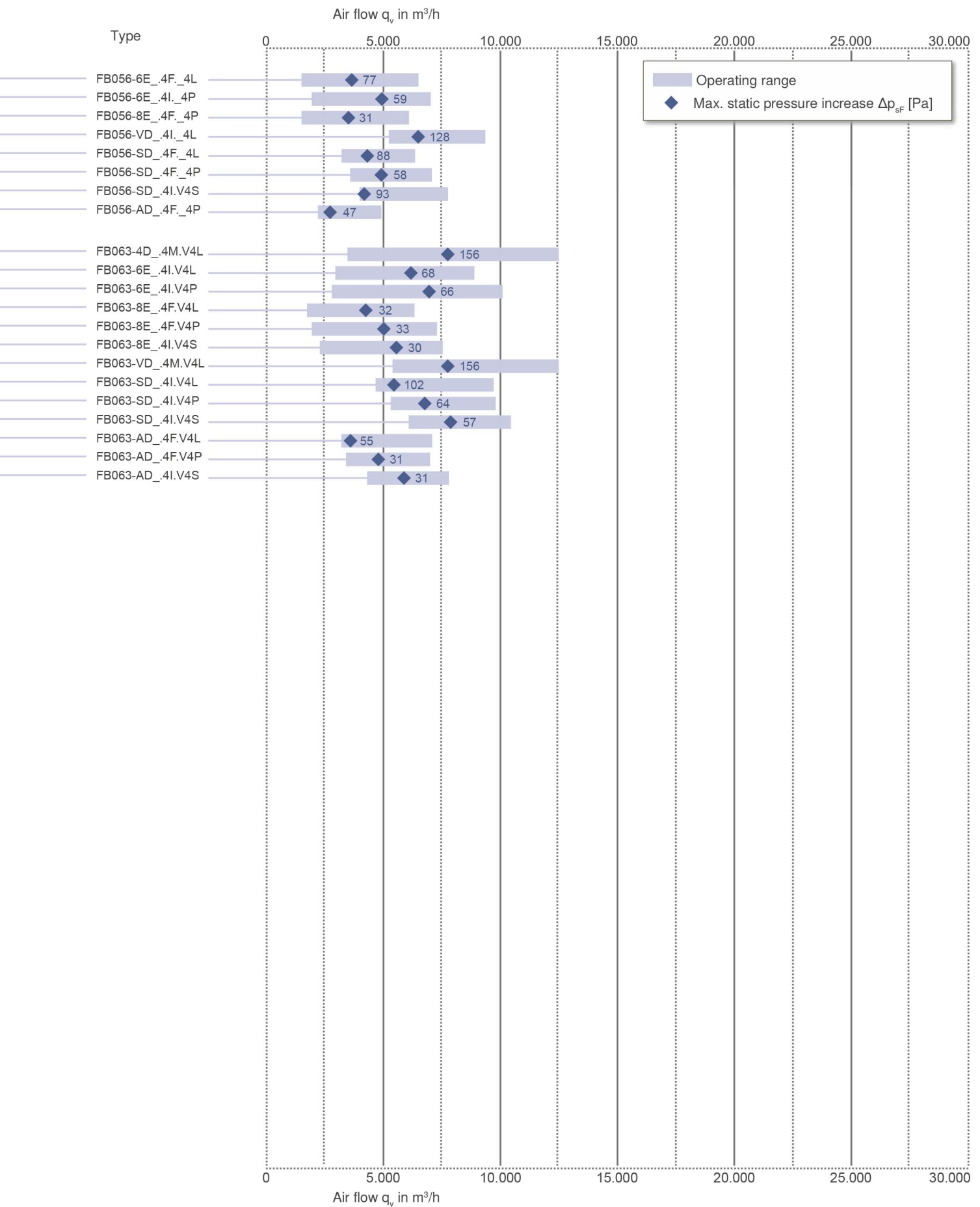


Size	Voltage	Polecount	Type	Airflow direction	ErP	Page
560 mm	1~ 230 V	6	FB056-6E_4F_4L	→ A ← V	2015	360
		8	FB056-6E_4I_4P	→ A ← V	2013	362
	3~ 400 V	4.4	FB056-8E_4F_4P	→ A ← V	-	364
		4.4	FB056-VD_4I_4L	→ A ← V	2015	366
		6-6	FB056-SD_4F_4L	→ A ← V	2015	368
		6-6	FB056-SD_4F_4P	→ A ← V	2013	370
		8-8	FB056-SD_4I.V4S	→ A ← V	2015	372
		8-8	FB056-AD_4C_4L	→ A ← V	-	374
		630 mm	3~ 400 V	4	FB063-4D_4M.V4L	← V
1~ 230 V	6		FB063-6E_4I.V4L	← V	2015	378
	6		FB063-6E_4I.V4P	← V	2013	380
	8		FB063-8E_4F.V4L	← V	-	382
	8		FB063-8E_4F.V4P	← V	-	384
3~ 400 V	4.4		FB063-8E_4I.V4S	← V	-	386
	4.4		FB063-VD_4M.V4L	← V	2015	388
	6-6		FB063-SD_4I.V4L	← V	2015	390
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	8-8		FB063-SD_4I.V4S	← V	-	394
8-8	FB063-AD_4F.V4L		← V	2015*	396	
8-8	FB063-AD_4F.V4P		← V	-	398	
8-8	FB063-AD_4I.V4S		← V	-	400	

\* with ZIEHL-ABEGG frequency inverter







- Information
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- System components
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- Appendix

# FB

for single phase alternating current, 2 pole

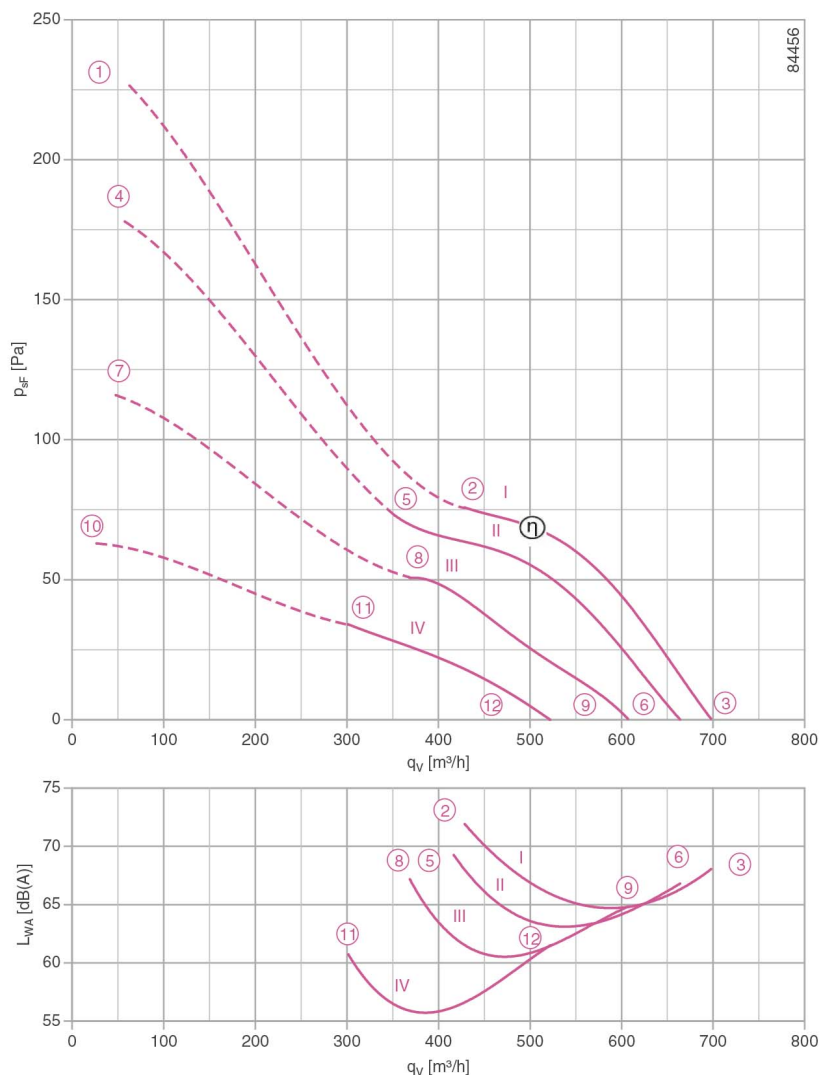
FBO20-2E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.05 kW\*  
 Rated current  $I_N$ : 0.26 A\*  
 Rated speed  $n_N$ : 2730 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.62 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 1.5  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 80 °C  
 Electrical connection: Supply cable variable 45 cm  
 Number of blades: 5  
 Motor protection: Thermal contact  
 Blades: Steel, powder-coated, black  
 Rotor: Aluminium, 1 coat paint, Ultramarine blue  
 Conformity: CE  
**ErP Data**  
 Is not subject to the ErP Guidelines ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



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

- Connection diagram      1360-177X      Page 609
- System components      Page 524

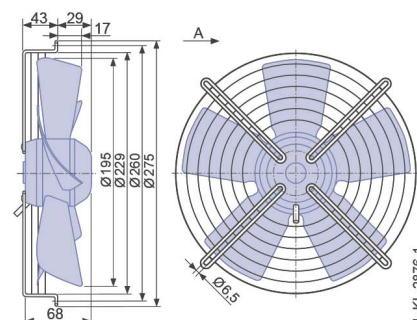
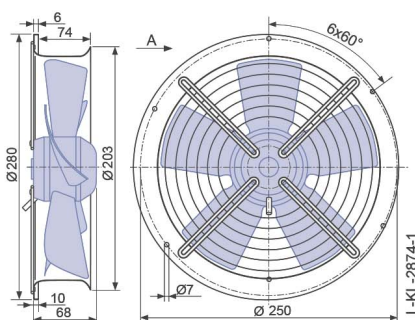
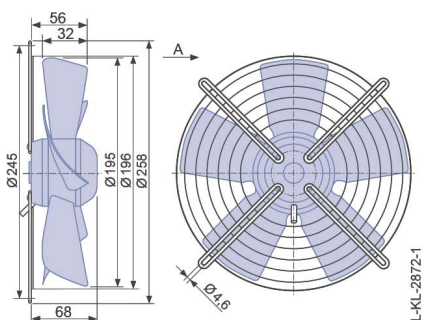
## Dimensions [mm]

Airflow direction A

Design D - axial bolted, suspension for full bell mouth Q and L

Design L - round, full bell mouth

Design W - axial bolted, mounting for short bell mouth E



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WA5}$ [dB]
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	
FB020-2E_W8_5	I	230	①	0.29	65	2600	
		230*	②	0.26*	55*	2730*	72
		230	③	0.25	50	2770	68
	II	170	④	0.27	46	2300	
		170	⑤	0.22	36	2550	69
		170	⑥	0.20	32	2640	67
	III	135	⑦	0.28	36	1850	
		135	⑧	0.23	30	2260	67
		135	⑨	0.20	26	2420	65
	IV	110	⑩	0.25	28	1350	
		110	⑪	0.23	24	1830	61
		110	⑫	0.21	22	2070	62

\*rated data

Fan ordering information

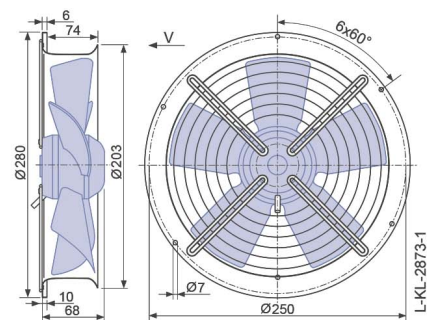
		Airflow direction A			Airflow direction V	
Design	D	L	W	H	I	K
Type	FB020-2ED.W8.A5	FB020-2EL.W8.A5	FB020-2EW.W8.A5	FB020-2EH.W8.V5	FB020-2EI.W8.V5	FB020-2EK.W8.V5
Article no.	139667	139674	140543	139695	139688	138870
Weight [kg]	1.60	2.40	1.90	2.40	1.60	1.90

Control technology

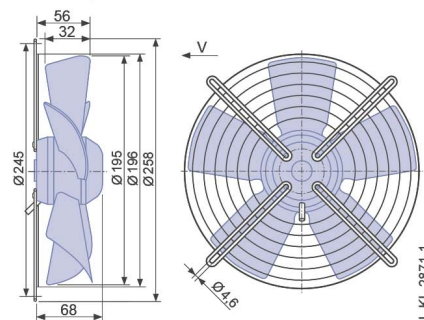
<p>Frequency inverter Fcontrol 1~</p> <p>▶ Page 552</p>	<p>Motor protection units 1~</p> <p>▶ Page 596</p>	<p>Transformer-based controllers 1~</p> <p>▶ Page 587</p>	<p>Electronic voltage controllers 1~</p> <p>▶ Page 562</p>
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Airflow direction V

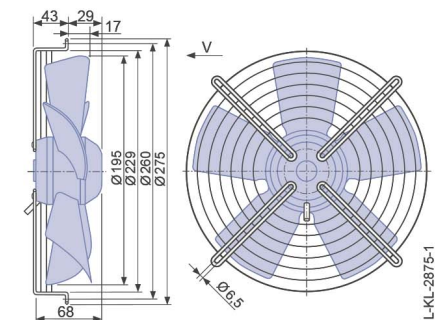
Design H - pipe sockets with a flange



Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L



Design K - axial bolted, mounted for short bell mouth E





# FB

for single phase alternating current, 4 pole

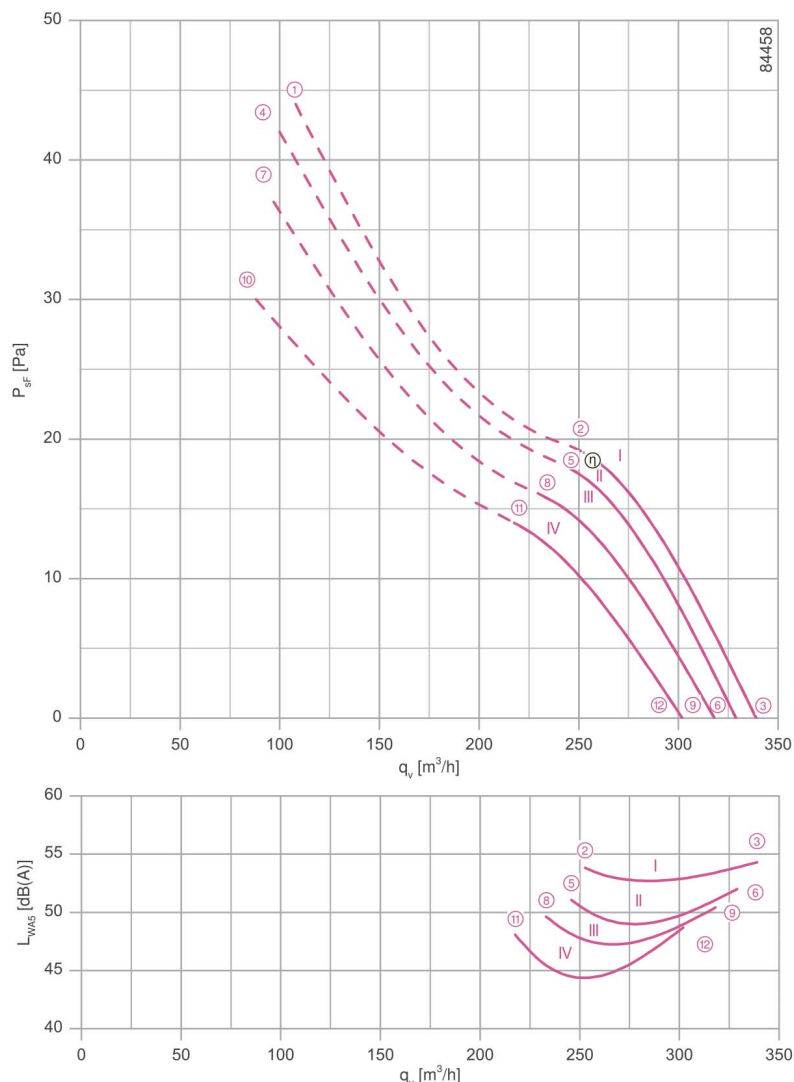
FBO20-4E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.03 kW\*  
 Rated current  $I_N$ : 0.15 A\*  
 Rated speed  $n_N$ : 1400 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.24 A  
 Current increase  $\Delta$ : 0 %  
 Service capacitor  $C_{400V}$ : 1.0  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Supply cable variable 45 cm  
 Number of blades: 5  
 Motor protection: Thermal contact  
 Blades: Steel, powder-coated, black  
 Rotor: Aluminium, 1 coat paint, Ultramarine blue  
 Conformity: CE  
**ErP Data**  
 Is not subject to the ErP Guidelines ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



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

- Connection diagram 1360-177X Page 609
- System components Page 524

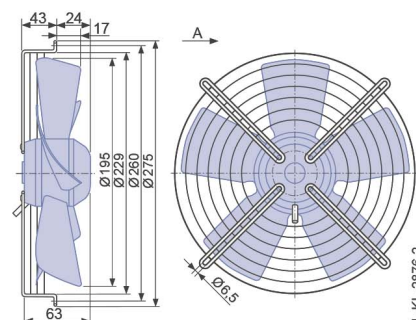
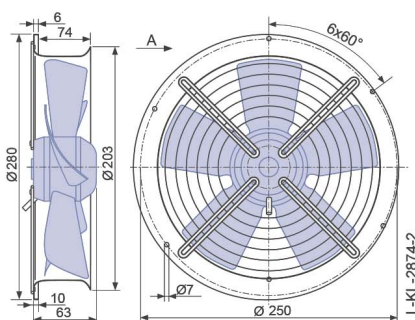
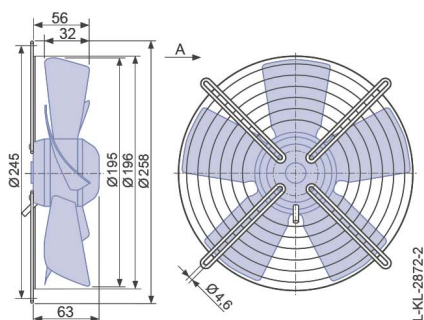
## Dimensions [mm]

Airflow direction A

Design D - axial bolted, suspension for full bell mouth Q and L

Design L - round, full bell mouth

Design W - axial bolted, mounting for short bell mouth E



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WAS}$ [dB]
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	
FB20-4E_W6_5	I	230	①	0.15	30	1390	
		230*	②	0.15*	30*	1400*	54
		230	③	0.15	28	1410	54
	II	170	④	0.11	16	1340	
		170	⑤	0.10	16	1360	51
		170	⑥	0.10	15	1380	52
	III	135	⑦	0.09	12	1260	
		135	⑧	0.09	11	1300	50
		135	⑨	0.08	10	1330	50
	IV	110	⑩	0.08	8	1130	
		110	⑪	0.08	8	1200	48
		110	⑫	0.07	8	1260	49

\*rated data

Fan ordering information

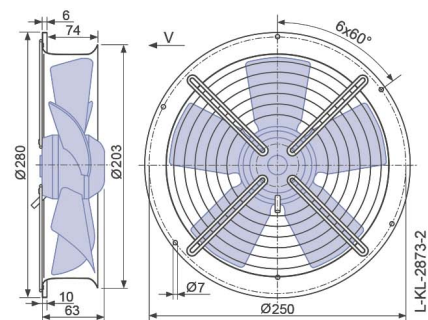
Airflow direction A		Airflow direction V				
Design	D	L	W	H	I	K
Type	FB20-4ED.W6.A5	FB20-4EL.W6.A5	FB20-4EW.W6.A5	FB20-4EH.W6.V5	FB20-4EI.W6.V5	FB20-4EK.W6.V5
Article no.	139668	139675	140544	139696	139689	138871
Weight [kg]	1.40	2.20	1.70	2.20	1.40	1.70

Control technology

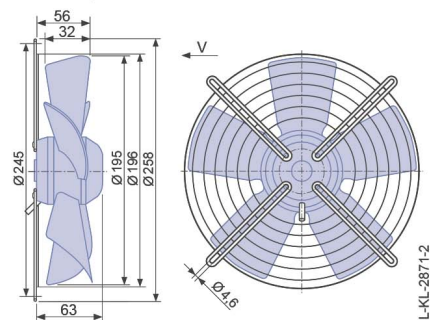
<p>Frequency inverter Fcontrol 1~</p> <p>➤ Page 552</p>	<p>Motor protection units 1~</p> <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p> <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p> <p>➤ Page 562</p>
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Airflow direction V

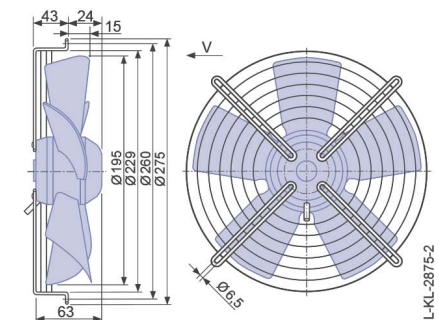
Design H - pipe sockets with a flange



Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L



Design K - axial bolted, mounted for short bell mouth E



# FB

for single phase alternating current, 2 pole

FBO25-2E



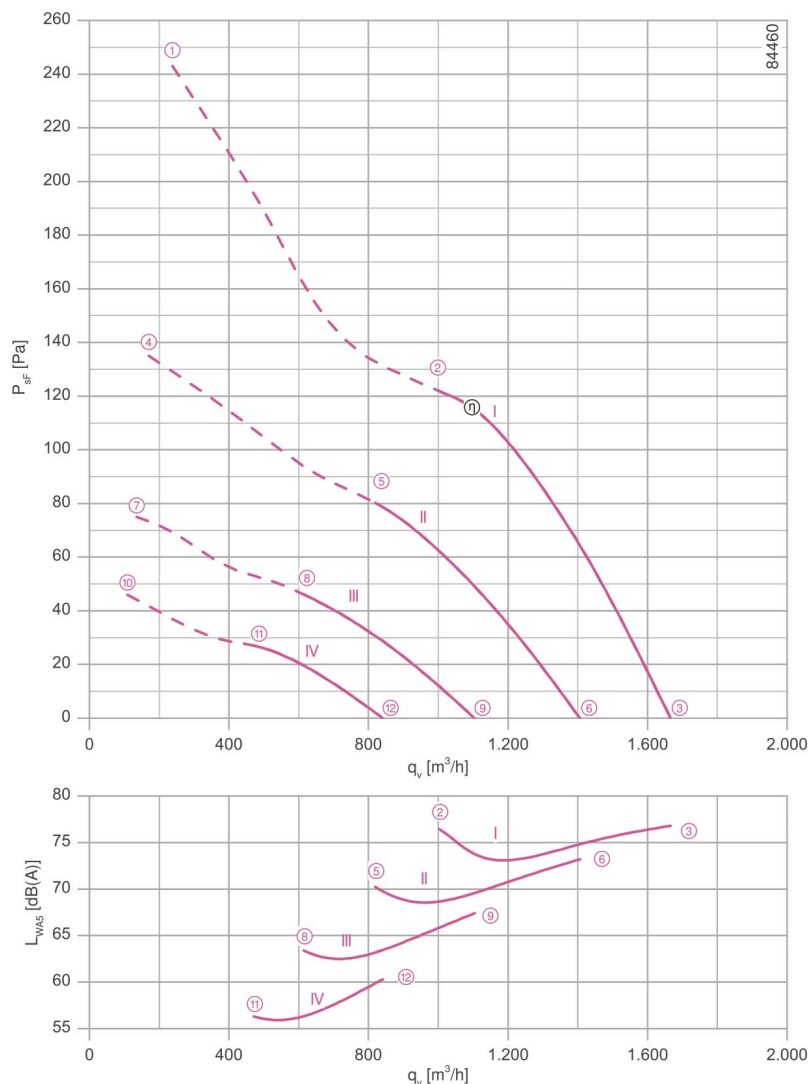
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.14 kW\*  
 Rated current  $I_N$ : 0.60 A\*  
 Rated speed  $n_N$ : 2440 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.15 A  
 Current increase  $\Delta$ : 0 %  
 Service capacitor  $C_{400V}$ : 4.0  $\mu$ F  
 Thermal class: **THCL155**\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 75 °C  
 Electrical connection: Supply cable variable 45 cm  
 Number of blades: 5  
 Motor protection: Thermal contact  
 Blades: Steel, powder-coated, black  
 Rotor: Aluminium, 1 coat paint, Ultramarine blue  
 Conformity: ErP 2013, CE

## ErP Data

Efficiency  $\eta_{statA}$ : 26.0 %  
 Efficiency:  $N_{actual} = 37.8 / N_{target} = 36$ \*\*  
 \* Rated data  
 \*\*ErP 2013

## Characteristic curve



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

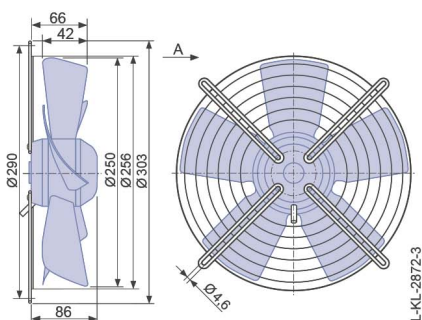
➤ Connection diagram 1360-177X Page 609

➤ System components Page 524

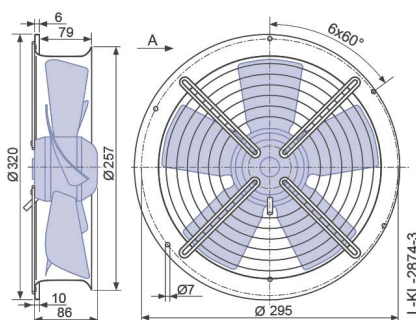
## Dimensions [mm]

Airflow direction A

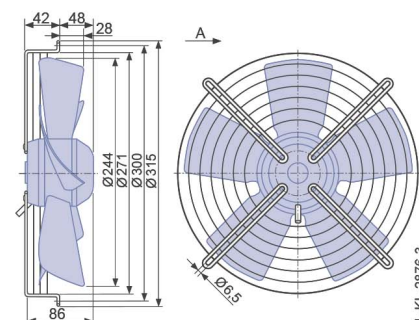
Design D - axial bolted, suspension for full bell mouth Q and L



Design L - round, full bell mouth



Design W - axial bolted, mounting for short bell mouth E











Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WAS}$ [dB]
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	
FB025-2E_WC_5	I	230	①	0.70	160	2250	
		230*	②	0.60*	140*	2440*	77
		230	③	0.54	120	2550	77
	II	170	④	0.66	110	1660	
		170	⑤	0.60	100	1980	70
		170	⑥	0.54	90	2180	73
	III	135	⑦	0.58	75	1250	
		135	⑧	0.56	75	1500	63
		135	⑨	0.52	70	1710	67
	IV	110	⑩	0.48	50	970	
		110	⑪	0.48	50	1150	56
		110	⑫	0.46	50	1310	60

\*rated data

Fan ordering information

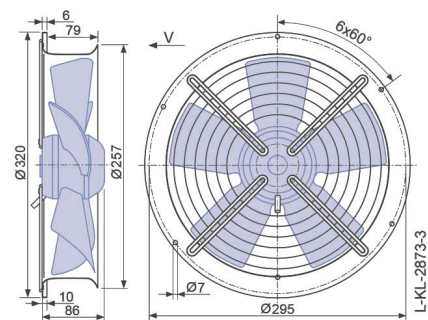
Airflow direction A			Airflow direction V			
Design	D	L	W	H	I	K
						
Type	FB025-2ED.WC.A5	FB025-2EL.WC.A5	FB025-2EW.WC.A5	FB025-2EH.WC.V5	FB025-2EI.WC.V5	FB025-2EK.WC.V5
Article no.	139669	139676	140545	139697	139690	138872
Weight [kg]	2.60	3.60	2.90	3.50	2.60	3.00

Control technology

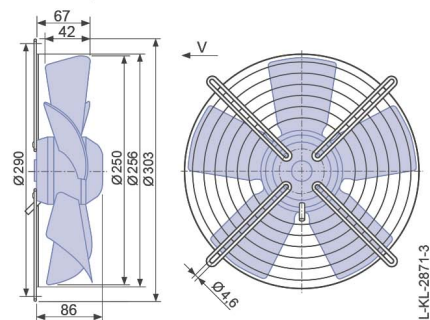
<p>Frequency inverter Fcontrol 1~</p>  <p>▶ Page 552</p>	<p>Motor protection units 1~</p>  <p>▶ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>▶ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>▶ Page 562</p>
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Airflow direction V

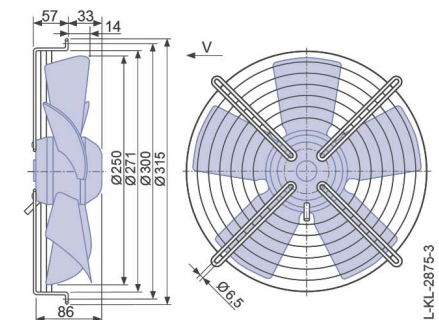
Design H - pipe sockets with a flange



Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L



Design K - axial bolted, mounted for short bell mouth E



# FB

for single phase alternating current, 4 pole

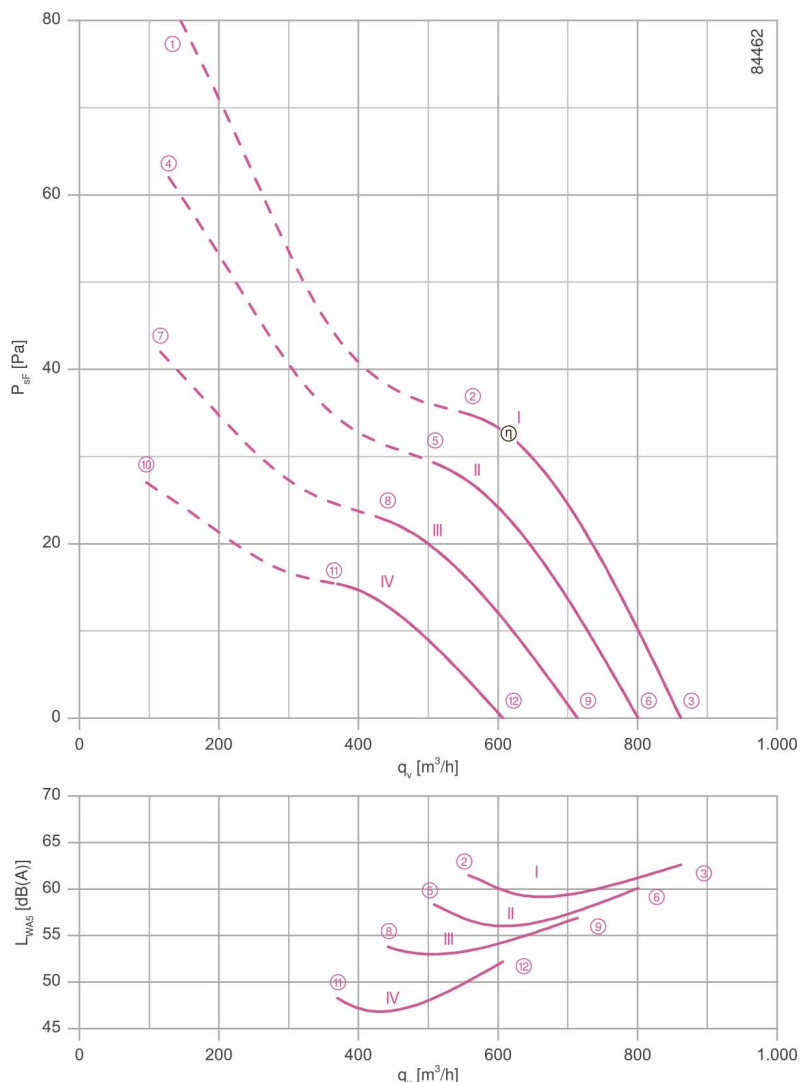
FBO25-4E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.04 kW\*  
 Rated current  $I_N$ : 0.16 A\*  
 Rated speed  $n_N$ : 1340 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.30 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 1.5  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 80 °C  
 Electrical connection: Supply cable variable 45 cm  
 Number of blades: 5  
 Motor protection: Thermal contact  
 Blades: Steel, powder-coated, black  
 Rotor: Aluminium, 1 coat paint, Ultramarine blue  
 Conformity: CE  
**ErP Data**  
 Is not subject to the ErP Guidelines ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



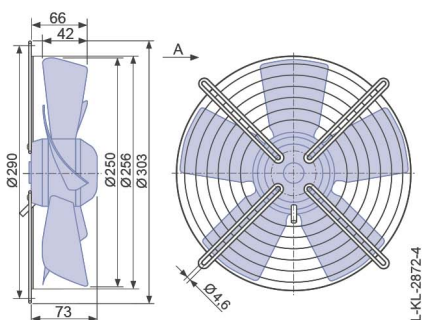
Measured in full bell mouth without guard grille in installation type A according to ISO 5801

- Connection diagram 1360-177X Page 609
- System components Page 524

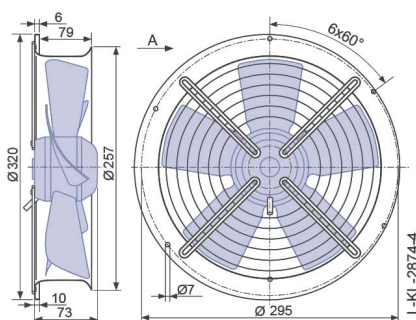
## Dimensions [mm]

Airflow direction A

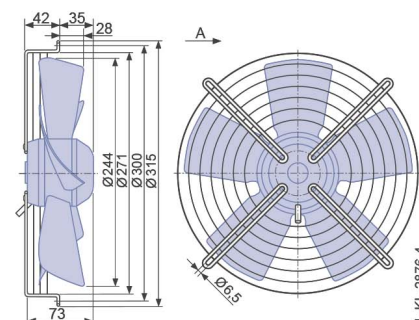
Design D - axial bolted, suspension for full bell mouth Q and L



Design L - round, full bell mouth



Design W - axial bolted, mounting for short bell mouth E









Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WAS}$ [dB]
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	
FB025-4E_WA_5	I	230	①	0.17	40	1300	
		230*	②	0.16*	36*	1340*	62
		230	③	0.16	36	1370	63
	II	170	④	0.15	26	1140	
		170	⑤	0.14	24	1220	59
		170	⑥	0.13	22	1270	60
	III	135	⑦	0.14	19	950	
		135	⑧	0.13	18	1060	54
		135	⑨	0.12	17	1130	57
	IV	110	⑩	0.13	14	760	
		110	⑪	0.12	13	880	48
		110	⑫	0.11	12	950	52

\*rated data

Fan ordering information

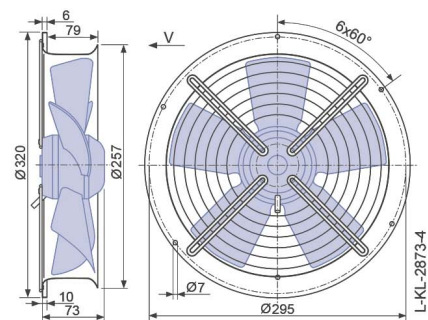
Airflow direction A		Airflow direction V				
Design	D	L	W	H	I	K
						
Type	FB025-4ED.WA.A5	FB025-4EL.WA.A5	FB025-4EW.WA.A5	FB025-4EH.WA.V5	FB025-4EI.WA.V5	FB025-4EK.WA.V5
Article no.	139670	139677	140546	139698	139691	138873
Weight [kg]	2.10	3.10	2.40	3.10	2.10	2.50

Control technology

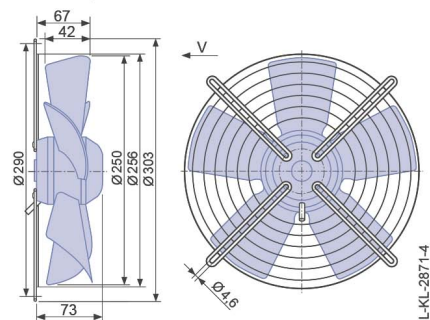
<p>Frequency inverter Fcontrol 1~</p>  <p>▶ Page 552</p>	<p>Motor protection units 1~</p>  <p>▶ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>▶ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>▶ Page 562</p>
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Airflow direction V

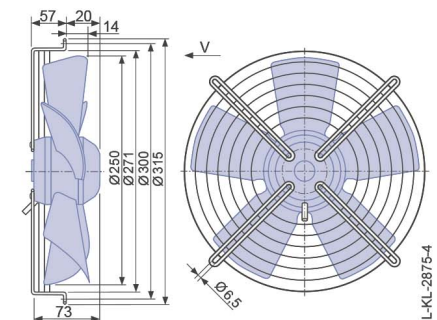
Design H - pipe sockets with a flange



Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L



Design K - axial bolted, mounted for short bell mouth E





# FB

for single phase alternating current, 4 pole

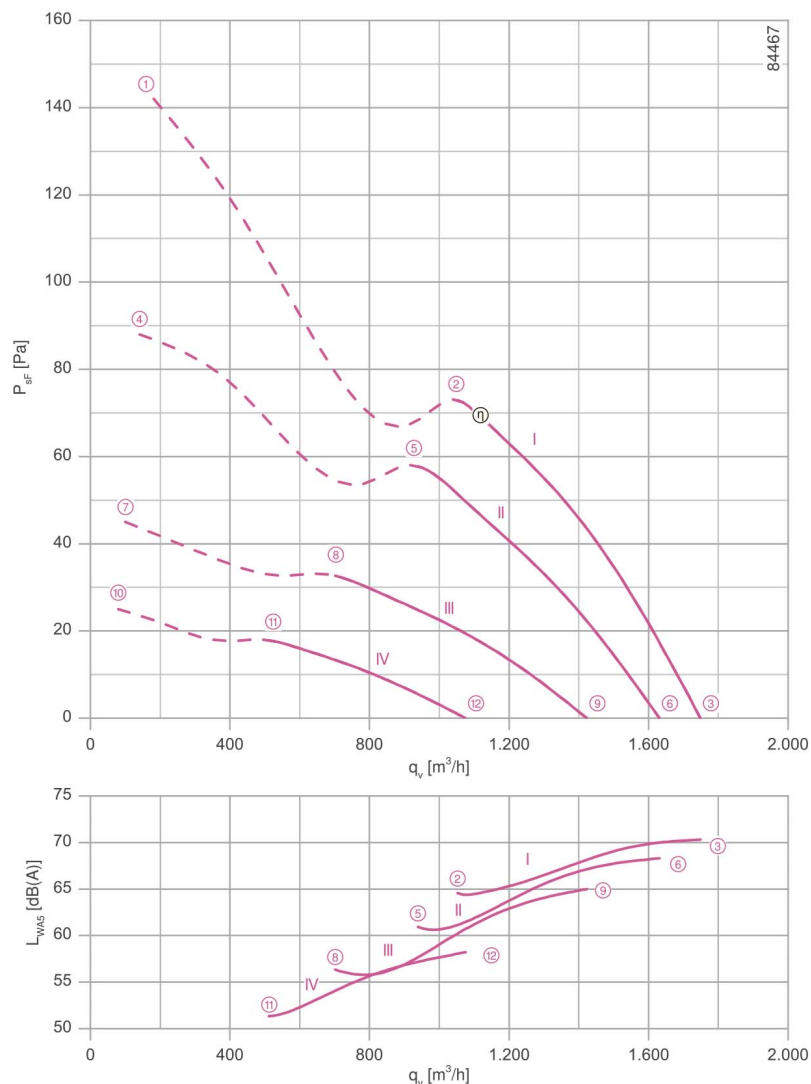
FBO30-4E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.09 kW\*  
 Rated current  $I_N$ : 0.39 A\*  
 Rated speed  $n_N$ : 1360 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.77 A  
 Current increase  $\Delta$ : 0 %  
 Service capacitor  $C_{400V}$ : 3.0  $\mu$ F  
 Thermal class: **THCL155**\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 65 °C  
 Electrical connection: Supply cable variable 45 cm  
 Number of blades: 5  
 Motor protection: Thermal contact  
 Blades: Steel, powder-coated, black  
 Rotor: Aluminium, 1 coat paint, Ultramarine blue  
 Conformity: CE  
**ErP Data**  
 Is not subject to the ErP Guidelines ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



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

- Connection diagram 1360-177X Page 609
- System components Page 524

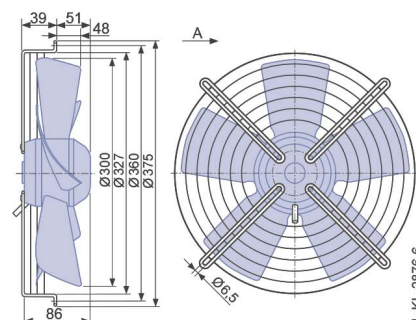
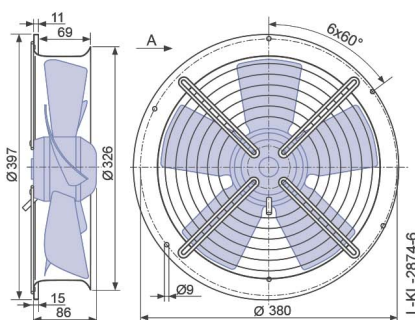
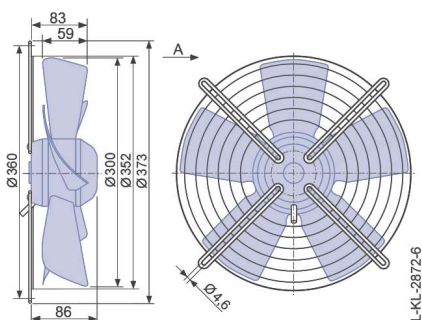
## Dimensions [mm]

Airflow direction A

Design D - axial bolted, suspension for full bell mouth Q and L

Design L - round, full bell mouth

Design W - axial bolted, mounting for short bell mouth E









Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WAS}$ [dB]
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	
FB030-4E_WC_5	I	230	①	0.44	100	1300	
		230*	②	0.39*	90*	1360*	65
		230	③	0.35	80	1400	70
	II	170	④	0.44	75	1030	
		170	⑤	0.38	65	1200	61
		170	⑥	0.32	55	1320	68
	III	135	⑦	0.39	50	730	
		135	⑧	0.37	50	910	56
		135	⑨	0.32	44	1150	65
	IV	110	⑩	0.33	36	540	
		110	⑪	0.33	34	650	51
		110	⑫	0.31	34	870	58

\*rated data

Fan ordering information

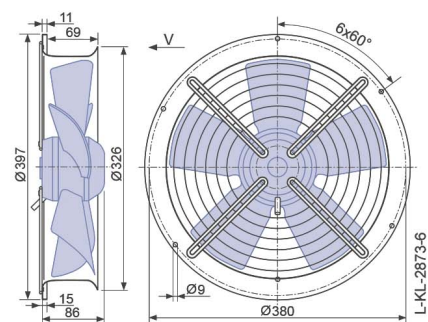
Airflow direction A		Airflow direction V				
Design	D	L	W	H	I	K
						
Type	FB030-4ED.WC.A5	FB030-4EL.WC.A5	FB030-4EW.WC.A5	FB030-4EH.WC.V5	FB030-4EI.WC.V5	FB030-4EK.WC.V5
Article no.	141625	141626	141627	141629	141628	141630
Weight [kg]	3.00	4.50	3.30	4.60	3.00	3.30

Control technology

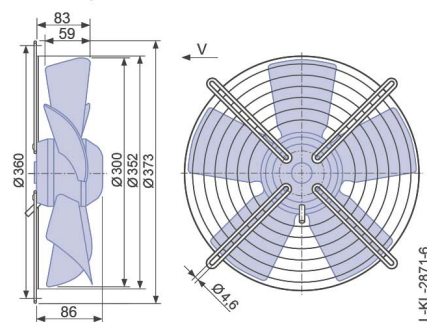
<p>Frequency inverter Fcontrol 1~</p>  <p>▶ Page 552</p>	<p>Motor protection units 1~</p>  <p>▶ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>▶ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>▶ Page 562</p>
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Airflow direction V

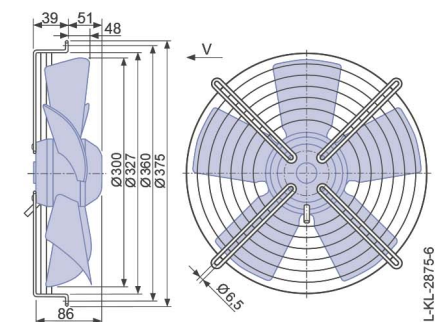
Design H - pipe sockets with a flange



Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L



Design K - axial bolted, mounted for short bell mouth E



# FB

for single phase alternating current, 4 pole

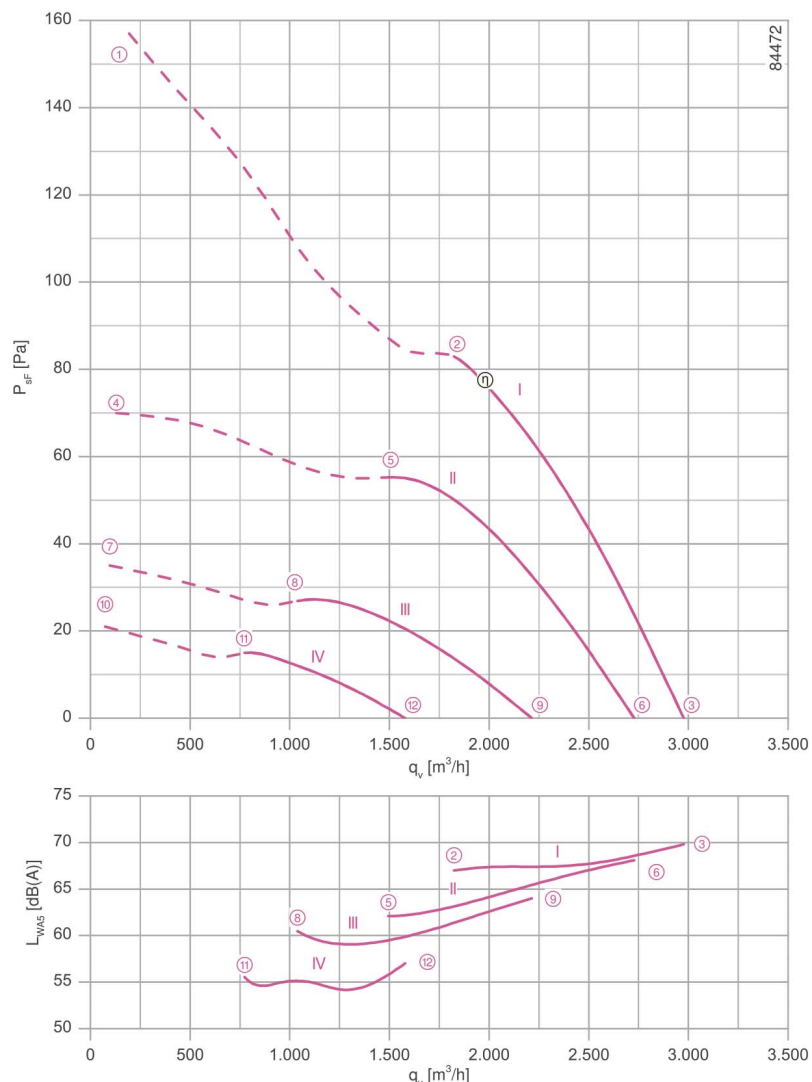
FBO35-4E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.15 kW\*  
 Rated current  $I_N$ : 0.68 A\*  
 Rated speed  $n_N$ : 1290 min<sup>-1</sup>\*  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 5.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 65 °C  
 Electrical connection: Supply cable variable 45 cm  
 Number of blades: 5  
 Motor protection: Thermal contact  
 Blades: Steel, powder-coated, black  
 Rotor: Aluminium, 1 coat paint, Ultramarine blue  
 Conformity: ErP 2015, CE  
**ErP Data**  
 Efficiency  $\eta_{Istata}$ : 28.8 %  
 Efficiency:  $N_{actual} = 40.3 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

Characteristic curve



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

- Connection diagram 1360-177X Page 609
- System components Page 524

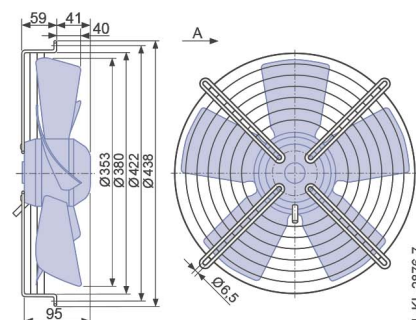
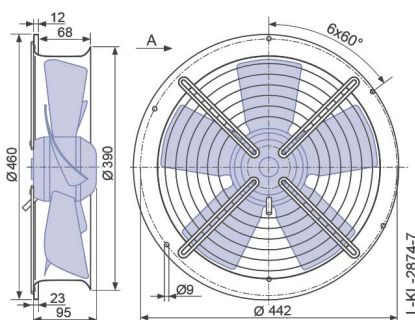
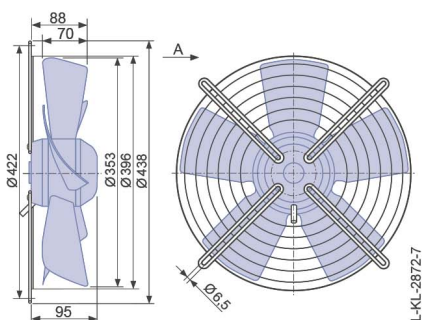
## Dimensions [mm]

Airflow direction A

Design D - axial bolted, suspension for full bell mouth Q and L

Design L - round, full bell mouth

Design W - axial bolted, mounting for short bell mouth E











Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WAS}$ [dB]
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	
FB035-4E_WD_5	I	230	①	0.82	190	1120	
		230*	②	0.68*	150*	1290*	67
		230	③	0.56	130	1360	70
	II	170	④	0.74	120	740	
		170	⑤	0.66	110	1060	62
		170	⑥	0.54	90	1260	68
	III	135	⑦	0.60	80	520	
		135	⑧	0.58	75	740	60
		135	⑨	0.52	70	1020	64
	IV	110	⑩	0.48	50	410	
		110	⑪	0.48	50	540	55
		110	⑫	0.46	50	730	57

\*rated data

Fan ordering information

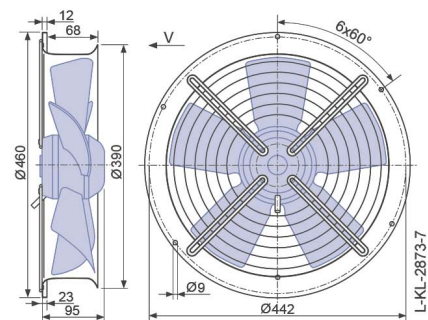
Airflow direction A			Airflow direction V			
Design	D	L	W	H	I	K
						
Type	FB035-4ED.WD.A5	FB035-4EL.WD.A5	FB035-4EW.WD.A5	FB035-4EH.WD.V5	FB035-4EI.WD.V5	FB035-4EK.WD.V5
Article no.	152695	152696	152697	152699	152698	152700
Weight [kg]	4.00	6.00	4.50	6.00	4.00	4.60

Control technology

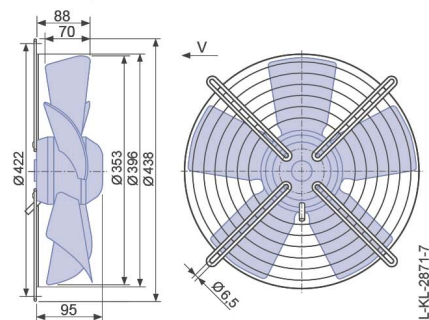
<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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Airflow direction V

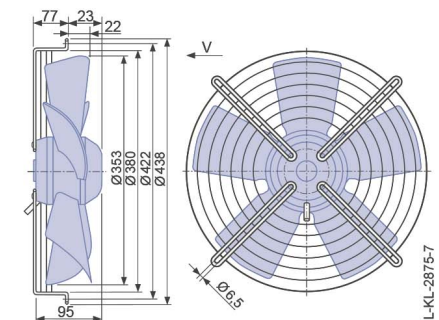
Design H - pipe sockets with a flange



Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L



Design K - axial bolted, mounted for short bell mouth E



# FB

for single phase alternating current, 4 pole

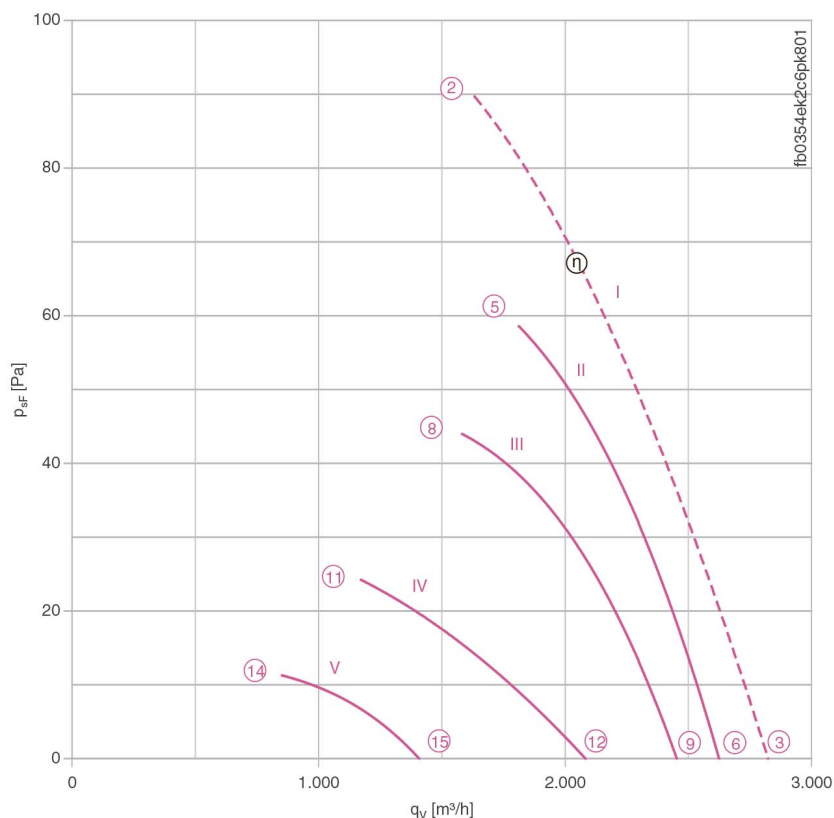
FBO35-4E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : **1~ 230 V±10 %\***  
 Rated frequency  $f_N$ : **50 Hz\*** (60Hz data available)  
 Motor input power  $P_i$ : **0.19 kW\***  
 Rated current  $I_N$ : **0.89 A\***  
 Rated speed  $n_N$ : **1330 min<sup>-1</sup>\***  
 Starting current  $I_A$ : 1.40 A  
 Current increase  $\Delta$ : 0 %  
 Service capacitor  $C_{400V}$ : 5.0  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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



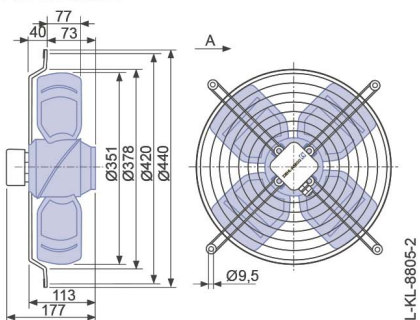
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagrams Page 608
  - for airflow direction V 1360-104XA
  - for airflow direction A 1360-104XB
- System components Page 524

## Dimensions [mm]

Airflow direction A

Design W - axial bolted, mounting for short bell mouth E





### Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WAS}$ [dB]
		U [V]		I [A]	$P_i$ [W]	n [min <sup>-1</sup> ]	
FB035-4E_2C_4P	I	230*	②	0.89*	190*	1330*	
		230	③	0.73	150	1410	69
	II	230	⑤	0.75	160	1390	70
		230	⑥	0.72	150	1420	68
	III	160	⑧	0.68	105	1250	67
		160	⑨	0.60	94	1320	65
	IV	130	⑪	0.68	80	930	60
		130	⑫	0.62	77	1130	61
	V	105	⑭	0.58	54	660	54
		105	⑮	0.57	53	770	53

\*rated data

### Fan ordering information

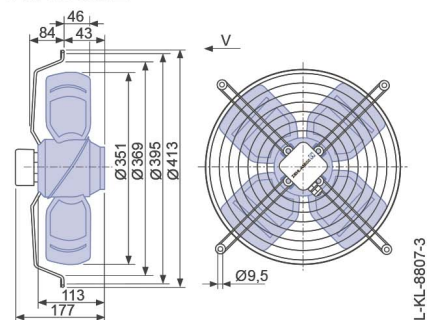
Airflow direction A		Airflow direction V	
Design	W		K
			
Type	FB035-4EW.2C.A4P		FB035-4EK.2C.V4P
Article no.	106938		124158
Weight [kg]	4.50		4.80

### Control technology

Frequency inverter Fcontrol 1~	Motor protection units 1~	Transformer-based controllers 1~	Electronic voltage controllers 1~
			
➤ Page 552	➤ Page 596	➤ Page 587	➤ Page 562

### Airflow direction V

Design K - axial bolted, mounted for short bell mouth E







### Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	
FB035-4E_2C.V4S	I	230*	②	0.92*	200*	1300*	
		230	③	0.80	175	1360	70
	II	230	⑤	0.84	185	1350	73
		230	⑥	0.81	175	1370	70
	III	160	⑧	0.80	120	1050	67
		160	⑨	0.76	115	1140	65
	IV	130	⑪	0.70	82	730	59
		130	⑫	0.69	81	800	57
	V	105	⑭	0.58	52	520	
		105	⑮	0.58	52	560	

\*rated data

### Fan ordering information

← Airflow direction V

Design K



Type **FB035-4EK.2C.V4S**

Article no. **124153**

Weight [kg] 4.80

### Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 6 pole

FBO35-6E



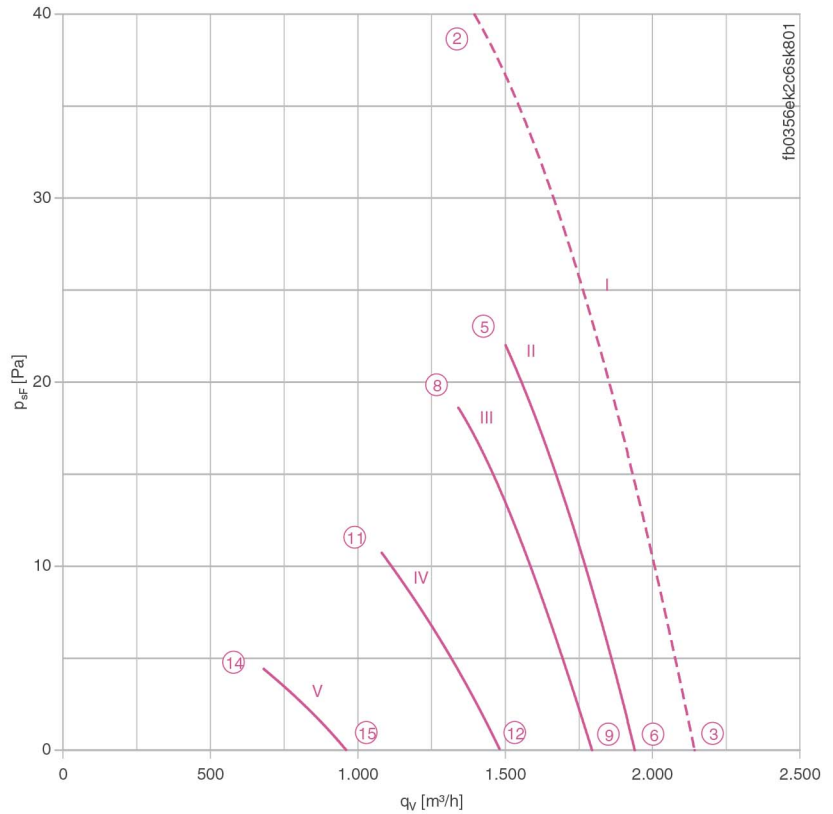
### Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.10 kW\*  
 Rated current  $I_N$ : 0.49 A\*  
 Rated speed  $n_N$ : 930 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.95 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 2.5  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

Is not subject to the ErP Guidelines ( $P_1 < 125$  W)  
 \* Rated data

Characteristic curve



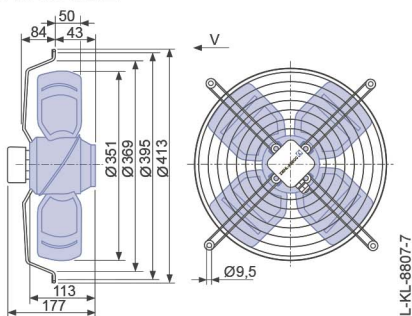
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram      1360-104XA      Page 608
- System components                      Page 524

### Dimensions [mm]

← Airflow direction V

Design K - axial bolted, mounted for short bell mouth E





## Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WAS}$ [dB]
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	
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



Type **FB035-6EK.2C.V4S**

Article no. **124159**

Weight [kg] 4.80

## Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for three phase alternating current, 4-4 pole

FBO35-VD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.14/0.09 kW\*  
 Rated current  $I_N$ : 0.25/0.14 A\*  
 Rated speed  $n_N$ : 1320/1050 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.80 A / 0.26 A  
 Current increase  $\Delta I$ : 5 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 29.9 %  
 Efficiency:  $N_{actual} = 41.9 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

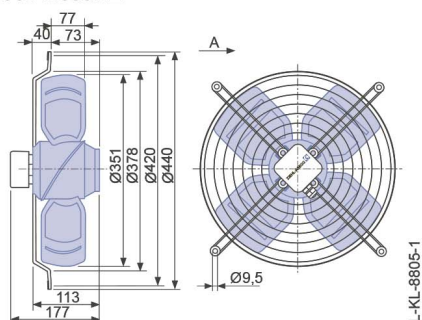
➤ Connection diagrams Page 608  
 for airflow direction V 1360-108XA  
 for airflow direction A 1360-108XB

➤ System components Page 524

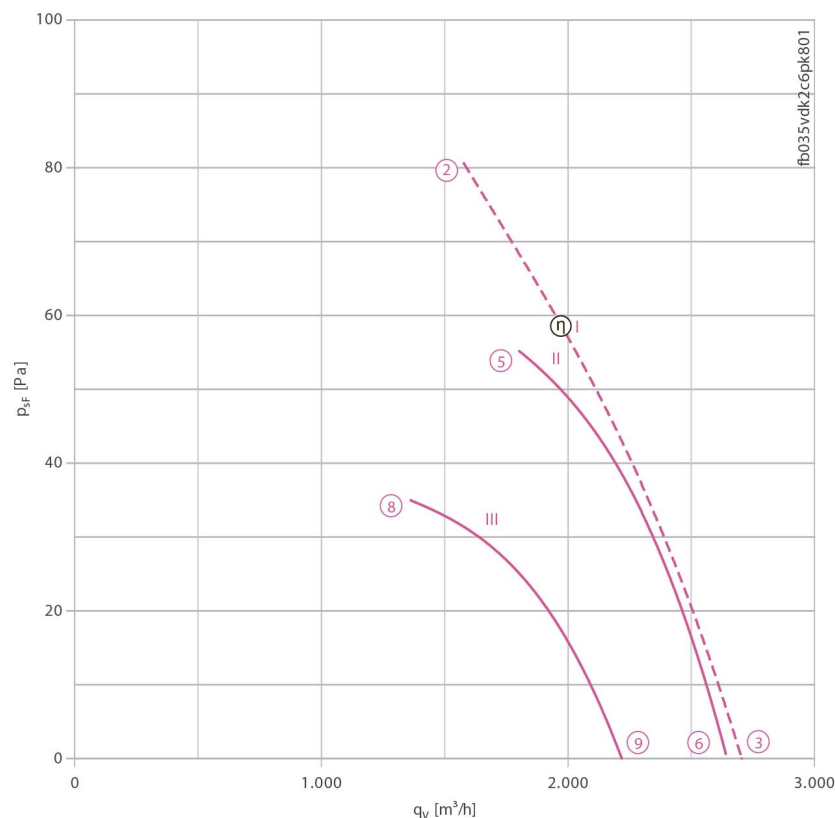
## Dimensions [mm]

Airflow direction A

Design W - axial bolted, mounting for short bell mouth E



## Characteristic curve



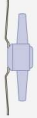

I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	L <sub>WA5</sub> [dB]
FB035-VD_ <u>2C</u> _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

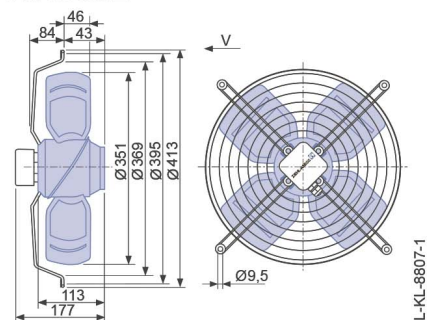
Airflow direction A		Airflow direction V	
Design	W		K
			
Type	FB035-VDW.2C.A4P		FB035-VDK.2C.V4P
Article no.	106939		124151
Weight [kg]	4.50		4.80

Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>Page 558</p>	<p>Motor protection units 3~</p>  <p>Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>Page 578</p>
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Airflow direction V

Design K - axial bolted, mounted for short bell mouth E





# FB

for three phase alternating current, 4-4 pole

FBO35-VD



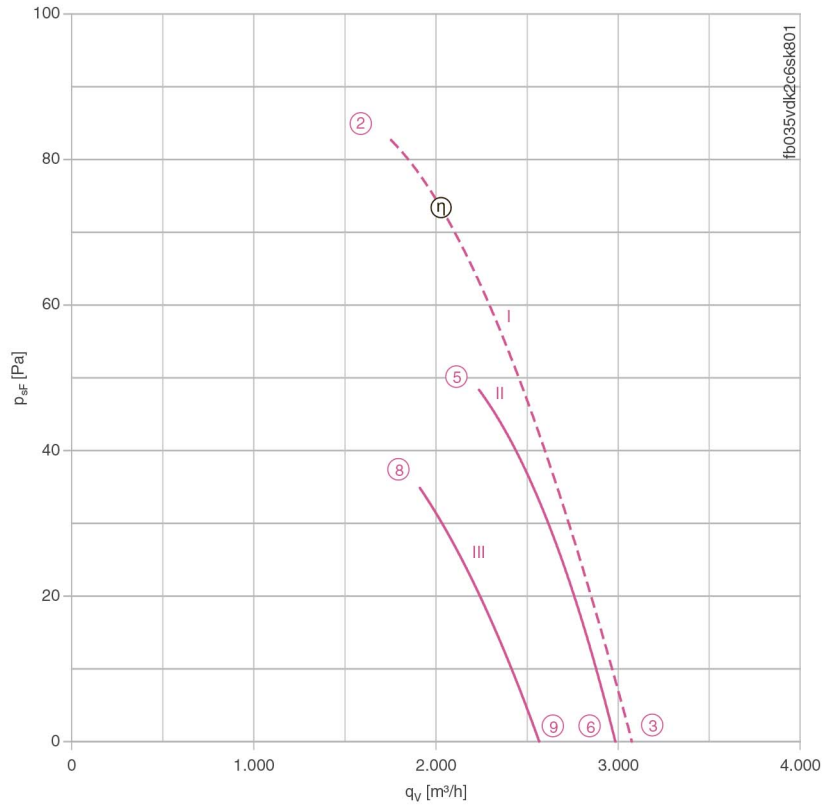
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.18/0.13 kW\*  
 Rated current  $I_N$ : 0.37/0.21 A\*  
 Rated speed  $n_N$ : 1320/1040 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.30 A / 0.42 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 26.9 %  
 Efficiency:  $N_{actual} = 40.2 / N_{target} = 40$ \*\*  
 Frequency inverter required  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve

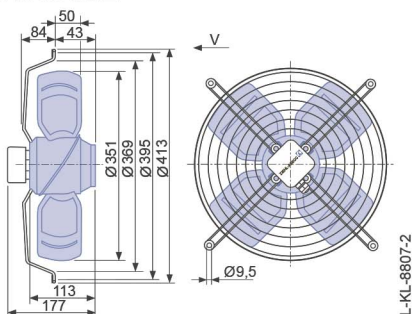


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

← Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



## Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB035-VD_2C.V4S	Δ	I	400*	②	0.37*	180*	1320*	
			400	③	0.34	150	1400	71
			400	⑤	0.37	170	1380	71
	Y	III	400	⑥	0.36	160	1390	71
			400	⑧	0.20	125	1180	66
			400	⑨	0.19	120	1200	67

\*rated data

## Fan ordering information

← Airflow direction V

Design

K



Type **FB035-VDK.2C.V4S**

Article no. **124152**

Weight [kg] 4.80

## Control technology

Frequency inverter  
Fcontrol 3~



➤ Page 558

Motor protection units  
3~



➤ Page 596

Transformer-based  
controllers 3~



➤ Page 591

Electronic voltage  
controllers 3~



➤ Page 578

# FB

for three phase alternating current, 6-6 pole

FBO35-SD



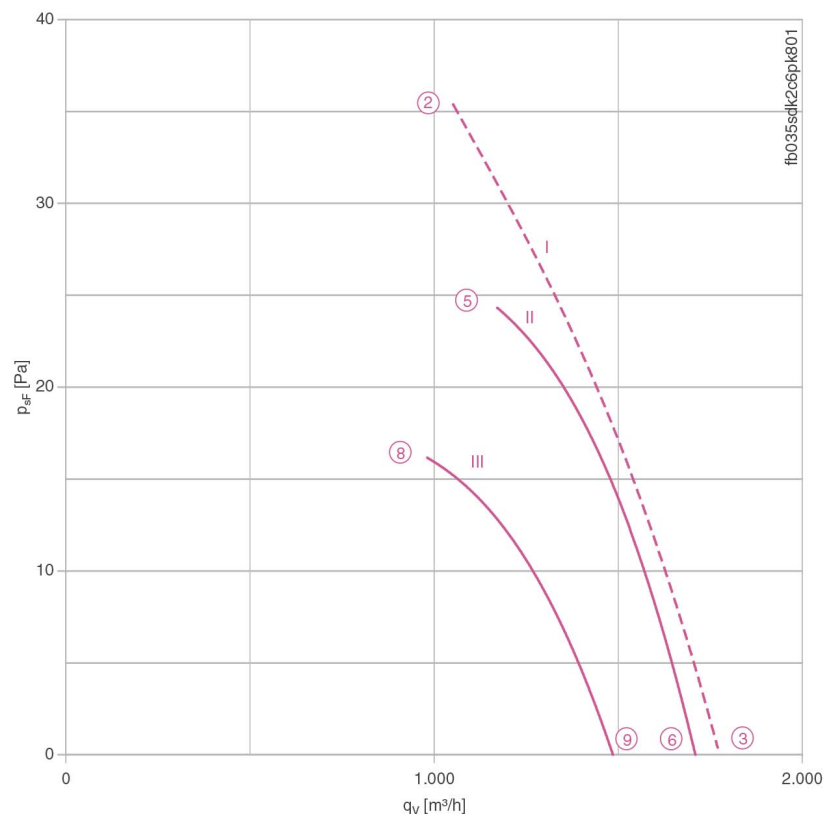
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10$  %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.05/0.03 kW\*  
 Rated current  $I_N$ : 0.10/0.05 A\*  
 Rated speed  $n_N$ : 860/ 670 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.27 A / 0.09 A  
 Current increase  $\Delta$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

Is not subject to the ErP Guidelines ( $P_i < 125$  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.

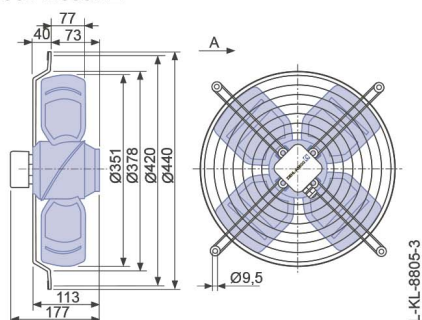
➤ Connection diagrams Page 608  
 for airflow direction V 1360-108XA  
 for airflow direction A 1360-108XB

➤ System components Page 524

## Dimensions [mm]

Airflow direction A

Design W - axial bolted, mounting for short bell mouth E



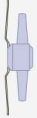



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	L <sub>WA5</sub> [dB]
FB035-SD_2C_4P	Δ	I	400*	②	0.10*	50*	860*	
			400	③	0.09	38	920	59
		II	400	⑤	0.10	38	890	60
	Y	III	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

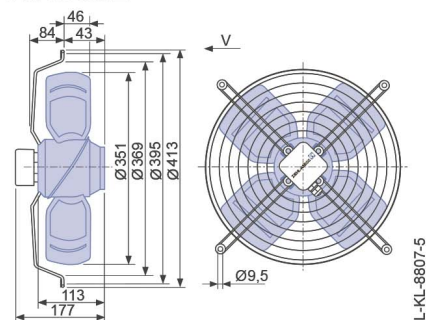
Airflow direction A		Airflow direction V	
Design	W		K
			
Type	FB035-SDW.2C.A4P		FB035-SDK.2C.V4P
Article no.	107068		124157
Weight [kg]	4.50		4.80

Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>Page 558</p>	<p>Motor protection units 3~</p>  <p>Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>Page 578</p>
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Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



# FB

for three phase alternating current, 6-6 pole

FBO35-SD



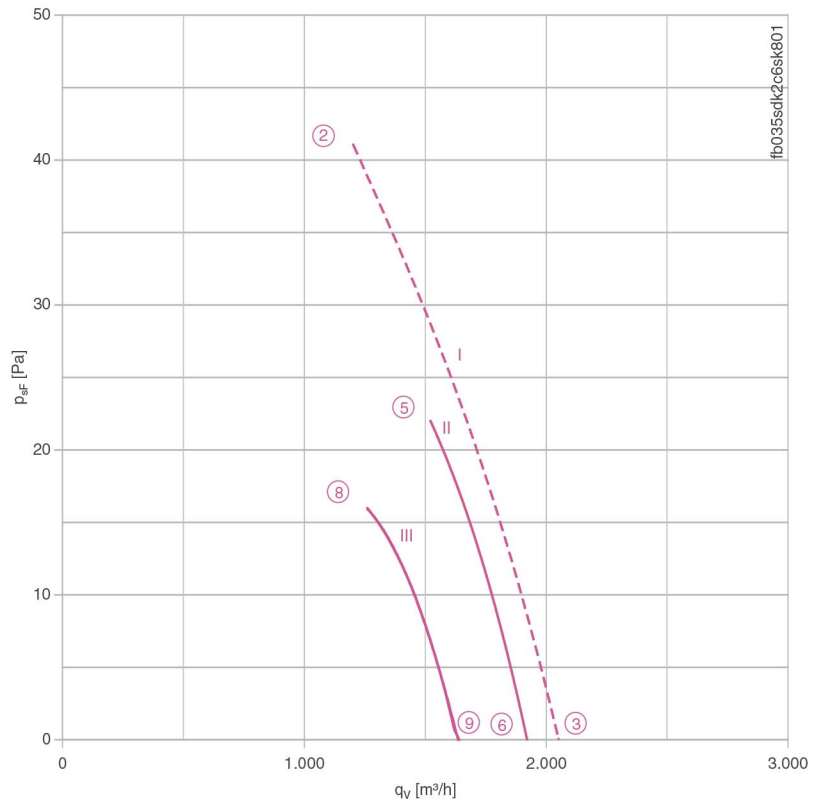
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.07/0.04 kW\*  
 Rated current  $I_N$ : 0.17/0.08 A\*  
 Rated speed  $n_N$ : 880/ 700 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.42 A / 0.14 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

Is not subject to the ErP Guidelines ( $P_1 < 125$  W)  
 \* Rated data

## Characteristic curve



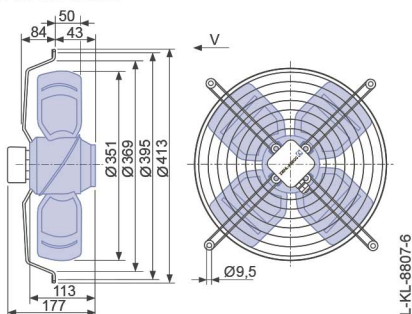
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



## Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB035-SD_2C.V4S	Δ	I	400*	②	0.17*	70*	880*	
			400	③	0.16	57	920	61
			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



Type **FB035-SDK.2C.V4S**

Article no. **210514**

Weight [kg] 4.80

## Control technology

Frequency inverter  
Fcontrol 3~



➤ Page 558

Motor protection units  
3~



➤ Page 596

Transformer-based  
controllers 3~



➤ Page 591

Electronic voltage  
controllers 3~



➤ Page 578

# FB

for single phase alternating current, 4 pole

FBO40-4E



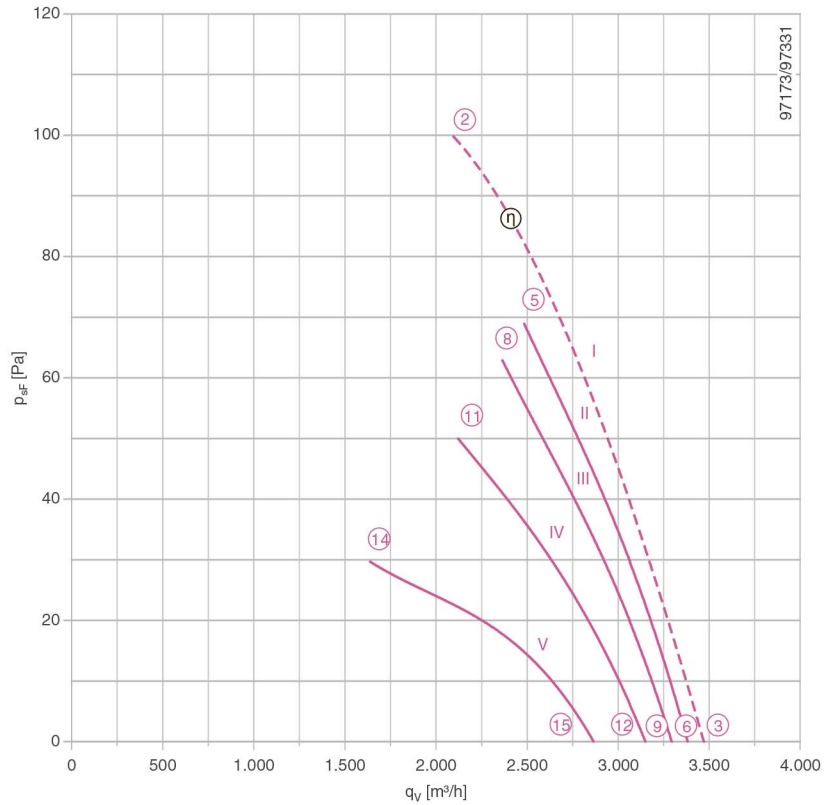
### Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.20 kW\*  
 Rated current  $I_N$ : 0.94 A\*  
 Rated speed  $n_N$ : 1410 min<sup>-1</sup>\*  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 4.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 30.4 %  
 Efficiency:  $N_{actual} = 41.2 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

### Characteristic curve

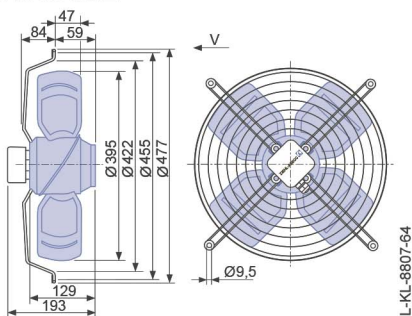


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

### Dimensions [mm]

← Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E





## Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	L <sub>WAS</sub> [dB]
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



Type **FB040-4EK.2F.V4L**

Article no. **160119**

Weight [kg] 6.40

## Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 4 pole

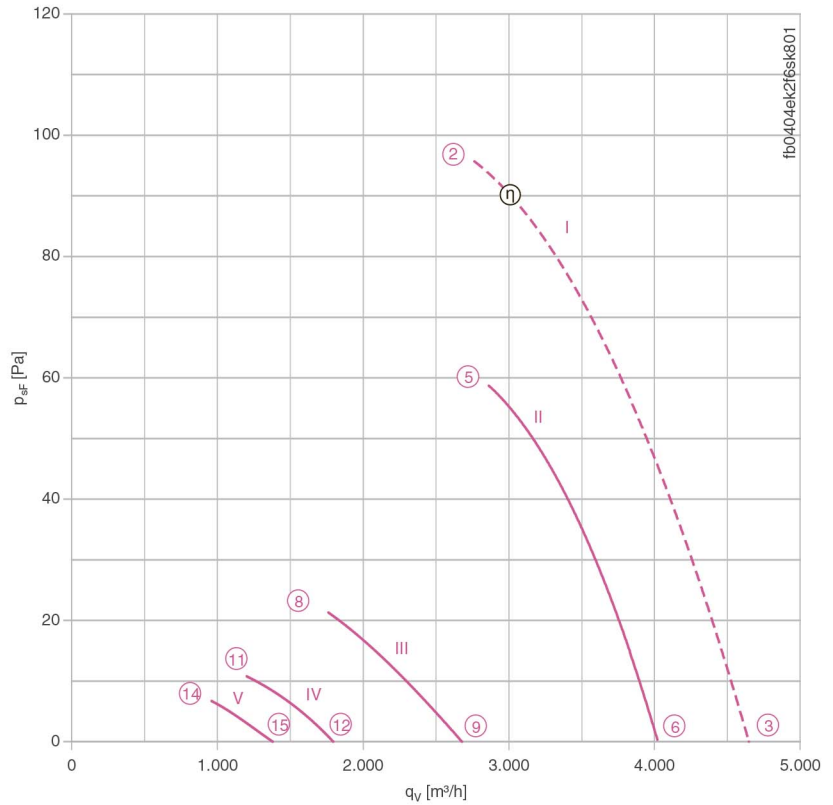
FBO40-4E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_i$ : 0.32 kW\*  
 Rated current  $I_N$ : 1.50 A\*  
 Rated speed  $n_N$ : 1270 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 2.60 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 5.0  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 40 °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



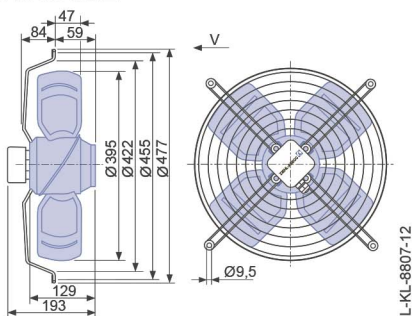
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



### Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WA5}$ [dB]	Max. permitted media temperature $t_R$ [°C]
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]		
FB040-4E_2F.V4S	I	230*	②	1.50*	320*	1270*		40
		230	③	1.25	250	1360	73	
	II	230	⑤	1.35	280	1320	73	50
		230	⑥	1.25	250	1350	72	
	III	160	⑧	1.40	190	800	61	
		160	⑨	1.35	175	900	63	
	IV	130	⑪	1.15	120	570	53	
		130	⑫	1.10	115	620	54	
	V	105	⑭	0.91	75	430		
		105	⑮	0.90	74	460		

\*rated data

### Fan ordering information

**Airflow direction V**

Design K



Type **FB040-4EK.2F.V4S**  
Article no. **124163**

Weight [kg] 6.40

### Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 6 pole

FBO40-6E



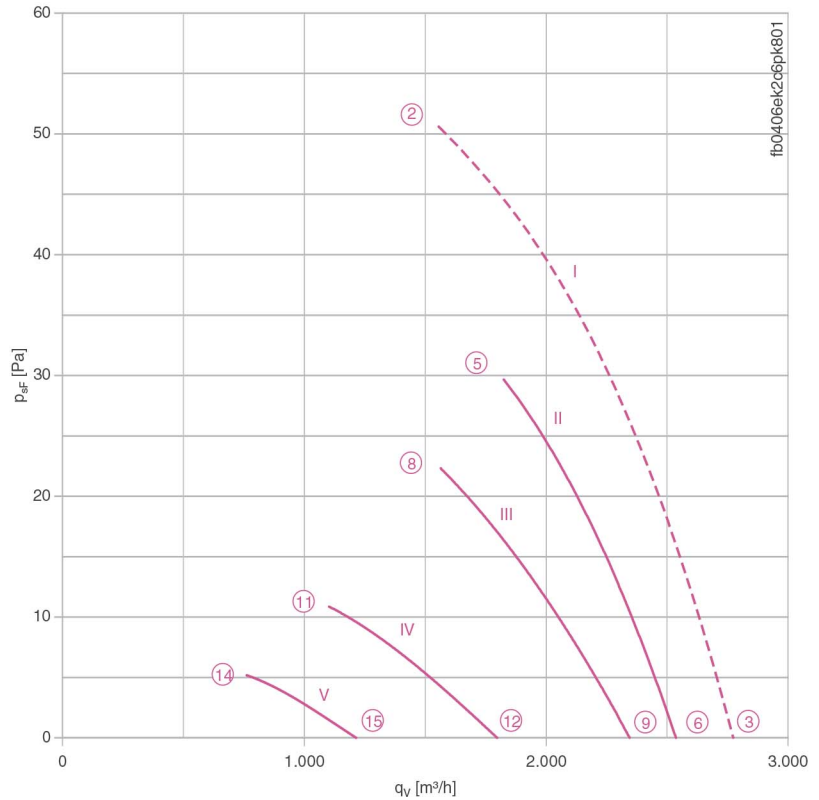
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.11 kW\*  
 Rated current  $I_N$ : 0.50 A\*  
 Rated speed  $n_N$ : 900 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.95 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 3.0  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

Is not subject to the ErP Guidelines ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve

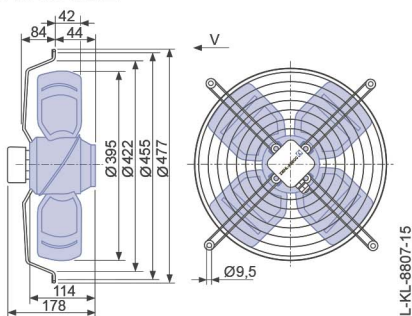


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]

← Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E





### Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	P <sub>i</sub> [W]	n [min <sup>-1</sup> ]	L <sub>WAS</sub> [dB]
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



Type **FB040-6EK.2C.V4P**

Article no. **124164**

Weight [kg] 5.50

### Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 6 pole

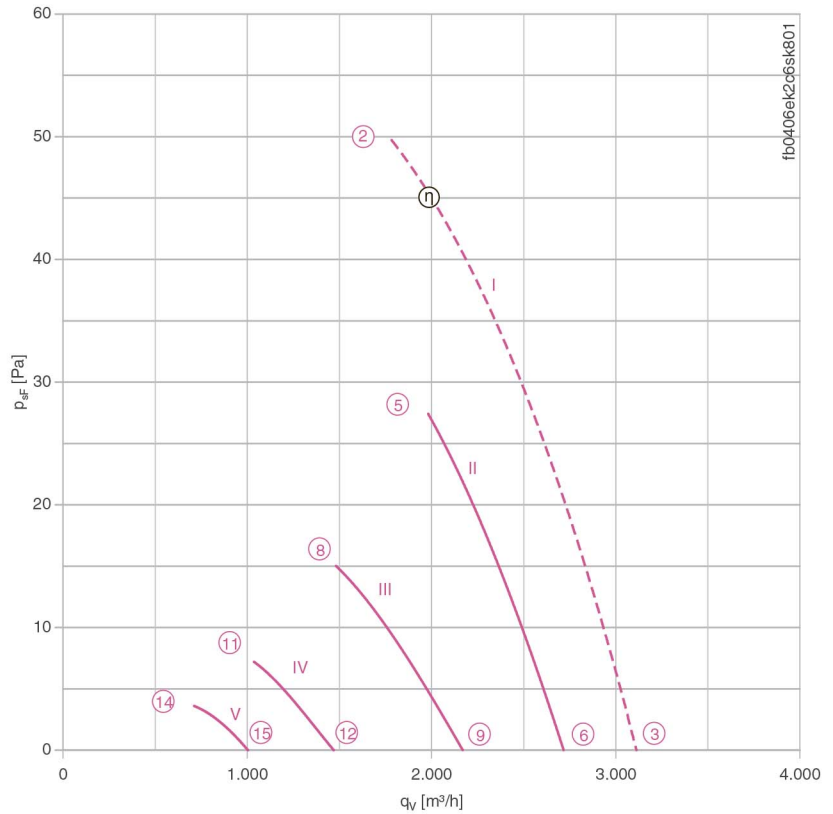
FBO40-6E



### Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V±10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.13 kW\*  
 Rated current  $I_N$ : 0.60 A\*  
 Rated speed  $n_N$ : 890 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.95 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 3.0 µF  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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



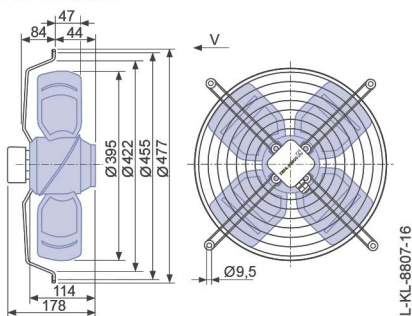
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram      1360-104XA      Page 608
- System components                      Page 524

### Dimensions [mm]

← Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



## Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WAS}$ [dB]
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	
FB040-6E_2C.V4S	I	230*	②	0.60*	130*	890*	
		230	③	0.53	115	920	65
	II	230	⑤	0.48	110	900	63
		230	⑥	0.46	100	910	63
	III	160	⑧	0.48	72	690	56
		160	⑨	0.46	69	730	57
	IV	130	⑪	0.43	53	420	50
		130	⑫	0.42	50	500	51
	V	105	⑭	0.35	33	340	
		105	⑮	0.35	33	360	

\*rated data

## Fan ordering information

← Airflow direction V

Design K



Type **FB040-6EK.2C.V4S**

Article no. **124165**

Weight [kg] 5.50

## Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for three phase alternating current, 4-4 pole

FBO40-VD



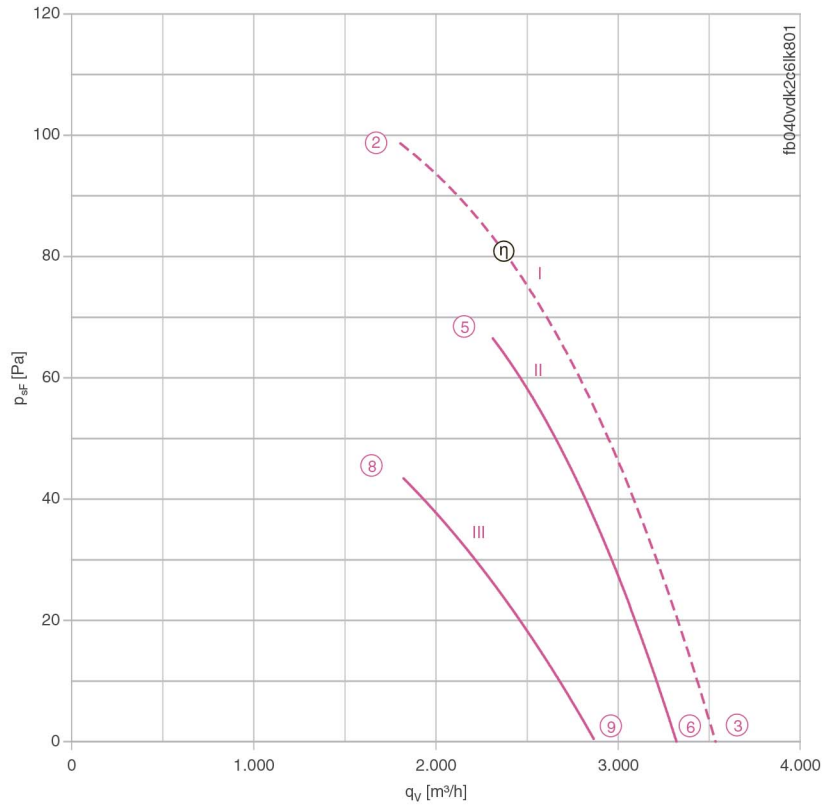
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10$  %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.18/0.12 kW\*  
 Rated current  $I_N$ : 0.35/0.19 A\*  
 Rated speed  $n_N$ : 1300/1000 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.00 A / 0.34 A  
 Current increase  $\Delta I$ : 5 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 33.8 %  
 Efficiency:  $N_{actual} = 45.2 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve

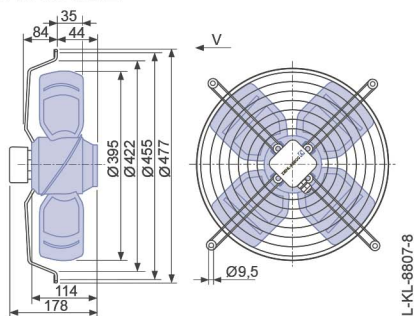


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E





## Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WA5}$ [dB]
			U [V]					
FB040-VD_2C.V4L	Δ	I	400*	②	0.35*	180*	1300*	
			400	③	0.28	120	1390	72
			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



Type **FB040-VDK.2C.V4L**

Article no. **124154**

Weight [kg] 5.50

## Control technology

Frequency inverter  
Fcontrol 3~



➤ Page 558

Motor protection units  
3~



➤ Page 596

Transformer-based  
controllers 3~



➤ Page 591

Electronic voltage  
controllers 3~



➤ Page 578

# FB

for three phase alternating current, 4-4 pole

FBO40-VD



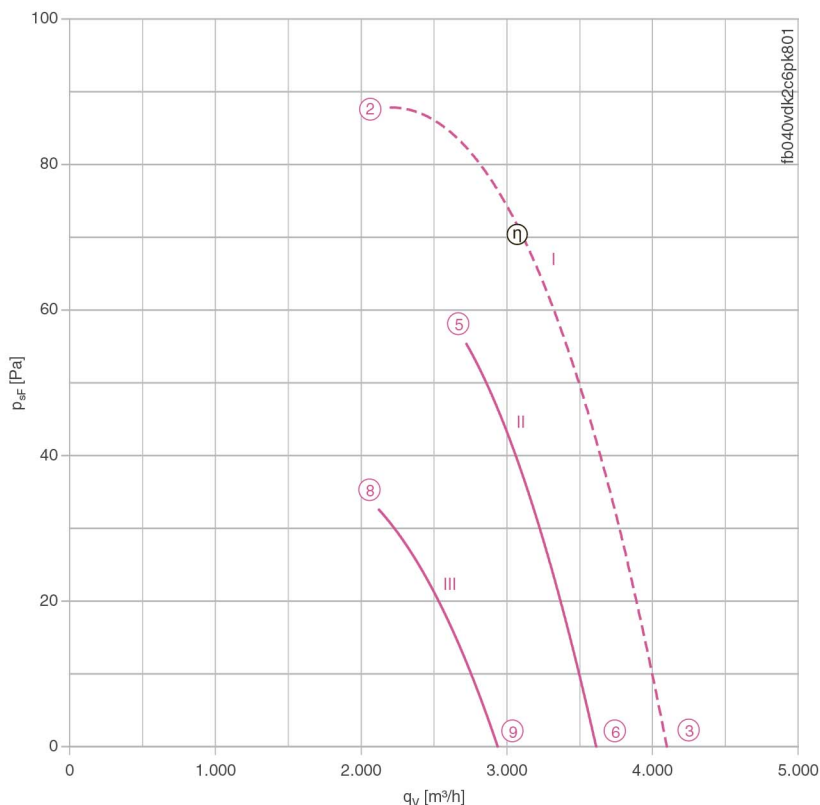
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.24/0.16 kW\*  
 Rated current  $I_N$ : 0.45/0.26 A\*  
 Rated speed  $n_N$ : 1340/1020 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.30 A / 0.42 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 29.9 %  
 Efficiency:  $N_{actual} = 40.5 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve

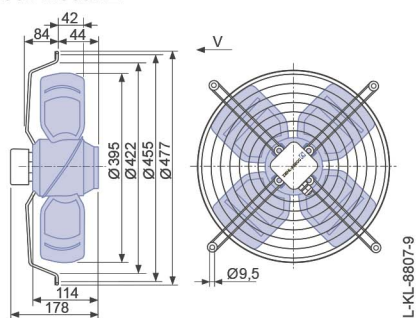


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



## Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
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



Type **FB040-VDK.2C.V4P**

Article no. **124155**

Weight [kg] 5.50

## Control technology

Frequency inverter  
Fcontrol 3~



➤ Page 558

Motor protection units  
3~



➤ Page 596

Transformer-based  
controllers 3~



➤ Page 591

Electronic voltage  
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➤ Page 578

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Appendix

# FB

for three phase alternating current, 4-4 pole

FBO40-VD



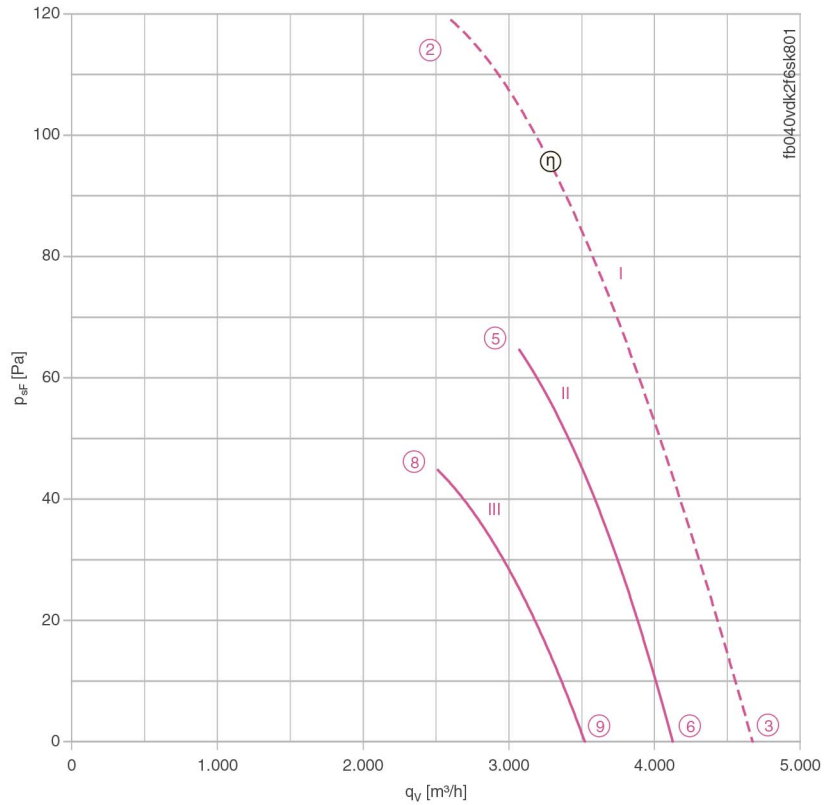
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.32/0.23 kW\*  
 Rated current  $I_N$ : 0.66/0.38 A\*  
 Rated speed  $n_N$ : 1350/1050 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 2.00 A / 0.65 A  
 Current increase  $\Delta I$ : 5 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 28.8 %  
 Efficiency:  $N_{actual} = 40.6 / N_{target} = 40$ \*\*  
 Frequency inverter required  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve

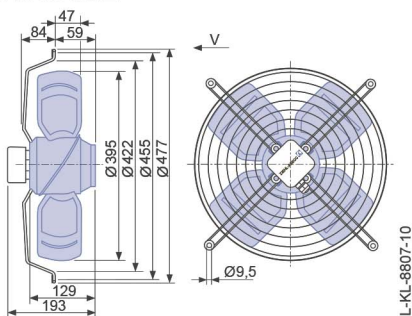


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E





## Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB040-VD_2F.V4S	Δ	I	400*	②	0.63*	320*	1350*	
			400	③	0.55	240	1400	74
			400	⑤	0.50	250	1370	76
	Y	III	400	⑥	0.47	220	1390	74
			400	⑧	0.30	190	1150	69
			400	⑨	0.28	170	1190	70

\*rated data

## Fan ordering information

← Airflow direction V

Design K



Type **FB040-VDK.2F.V4S**

Article no. **124156**

Weight [kg] 6.40

## Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 6-6 pole

FBO40-SD



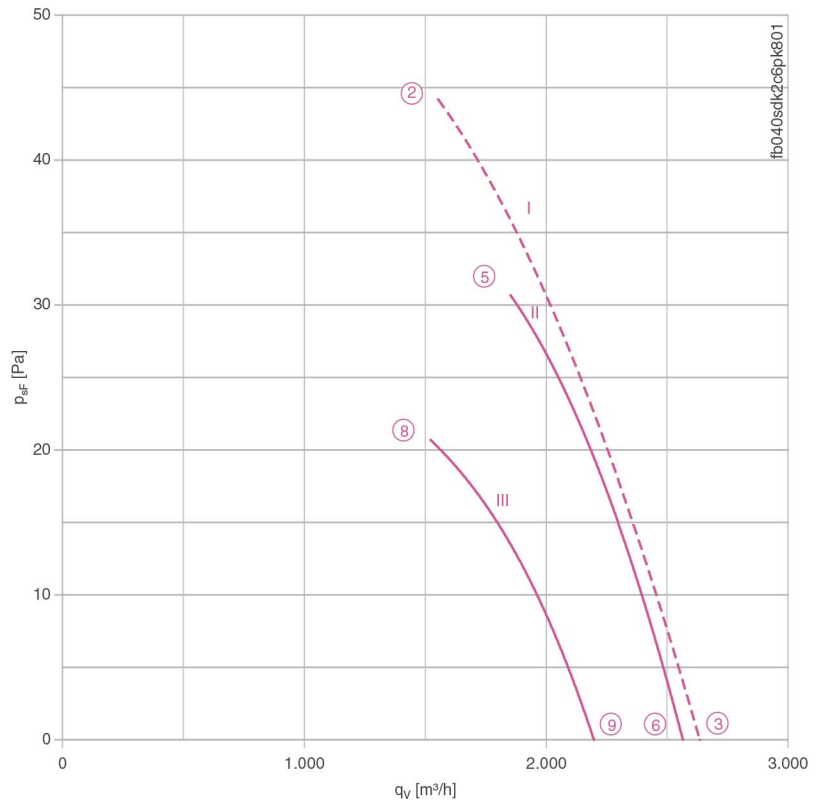
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.09/0.06 kW\*  
 Rated current  $I_N$ : 0.23/0.11 A\*  
 Rated speed  $n_N$ : 900/ 730 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.51 A / 0.17 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

Is not subject to the ErP Guidelines ( $P_1 < 125$  W)  
 \* Rated data

## Characteristic curve



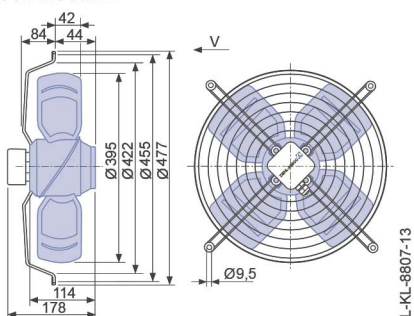
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



### Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB040-SD_2C.V4P	Δ	I	400*	②	0.23*	90*	900*	
			400	③	0.21	70	920	64
			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



Type **FB040-SDK.2C.V4P**  
Article no. **124160**  
Weight [kg] 5.50

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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ECblue

FE2owlet

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Appendix

# FB

for three phase alternating current, 6-6 pole

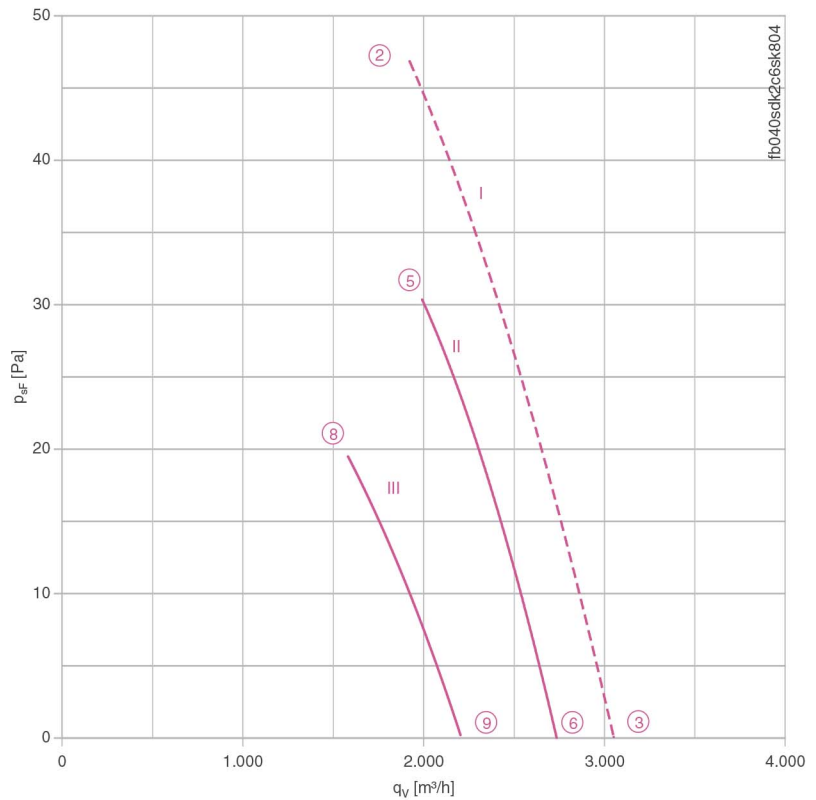
FBO40-SD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.12/0.08 kW\*  
 Rated current  $I_N$ : 0.28/0.14 A\*  
 Rated speed  $n_N$ : 900/ 700 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.66 A / 0.22 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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**  
 Is not subject to the ErP Guidelines ( $P_1 < 125$  W)  
 \* Rated data

## Characteristic curve



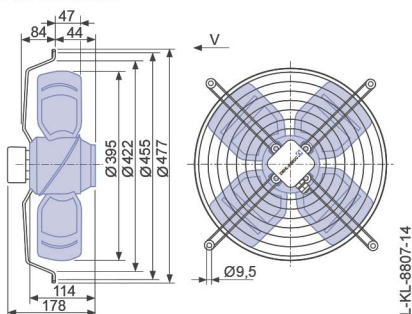
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E





## Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB040-SD_2C.V4S	Δ	I	400*	②	0.28*	120*	900*	
			400	③	0.26	100	920	65
			400	⑤	0.27	100	920	64
	Y	II	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



Type **FB040-SDK.2C.V4S**

Article no. **124161**

Weight [kg] 5.50

## Control technology

Frequency inverter  
Fcontrol 3~



➤ Page 558

Motor protection units  
3~



➤ Page 596

Transformer-based  
controllers 3~



➤ Page 591

Electronic voltage  
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➤ Page 578

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Appendix

# FB

for single phase alternating current, 4 pole

FBO45-4E



## Description

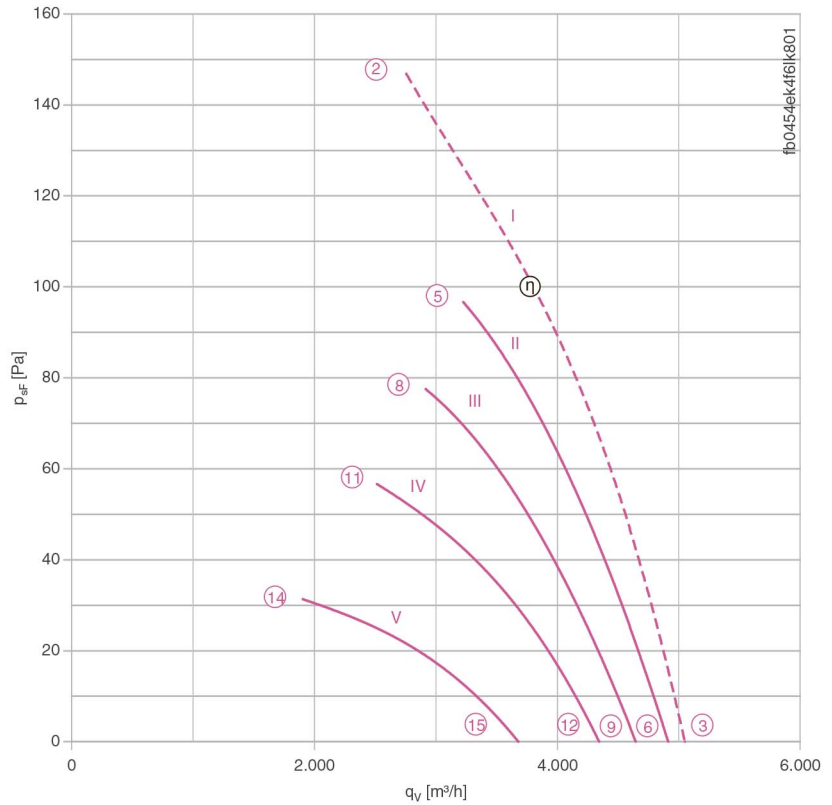
Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.41 kW\*  
 Rated current  $I_N$ : 1.90 A\*  
 Rated speed  $n_N$ : 1320 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 4.40 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 8.0  $\mu$ F  
 Thermal class: **THCL155**\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 32.3 %  
 Efficiency:  $N_{actual} = 41.7 / N_{target} = 40$ \*\*

\* Rated data  
 \*\*ErP 2015

## Characteristic curve

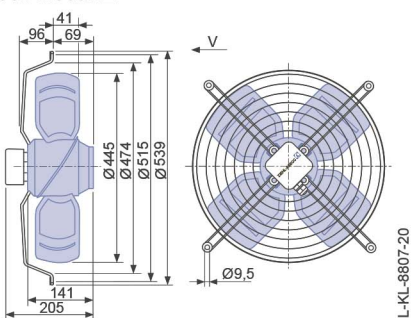


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]

← Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



## Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	L <sub>WAS</sub> [dB]
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



Type **FB045-4EK.4F.V4L**

Article no. **124180**

Weight [kg] 9.20

## Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 4 pole

FBO45-4E



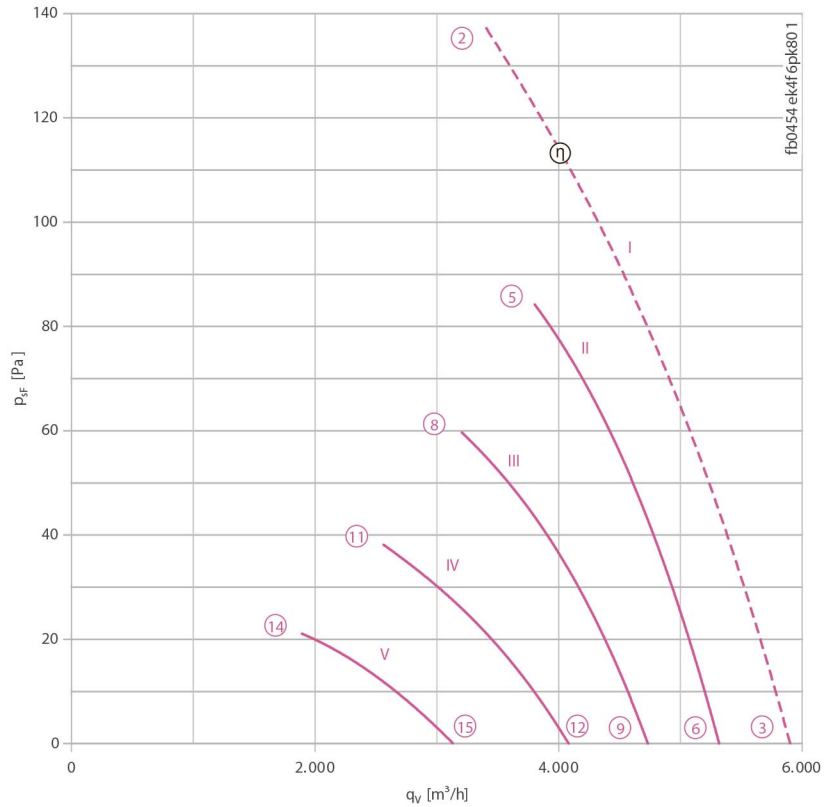
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.39 kW\*  
 Rated current  $I_N$ : 1.80 A\*  
 Rated speed  $n_N$ : 1320 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 4.40 A  
 Current increase  $\Delta I$ : 10 %  
 Service capacitor  $C_{400V}$ : 8.0  $\mu$ F  
 Thermal class: **THCL155**\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 29.5 %  
 Efficiency:  $N_{actual} = 40.0 / N_{target} = 40$ \*\*  
 Frequency inverter required  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve

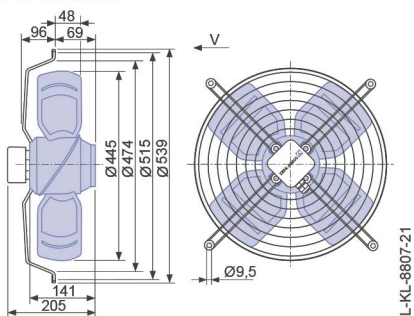


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



### Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	
FB045-4E_4F.V4P	I	230*	②	2.10*	480*	1320*	
		230	③	1.60	340	1390	77
	II	230	⑤	1.80	390	1320	73
		230	⑥	1.50	330	1360	73
	III	160	⑧	1.90	300	1120	70
		160	⑨	1.55	240	1220	70
	IV	130	⑪	1.95	250	850	64
		130	⑫	1.70	210	1050	66
	V	105	⑭	1.75	170	690	57
		105	⑮	1.65	160	810	60

\*rated data

### Fan ordering information

← Airflow direction V

Design K



Type **FB045-4EK.4F.V4P**

Article no. **209023**

Weight [kg] 9.20

### Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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## Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	$L_{WAS}$ [dB]
FB045-4E_4I.V4S	I	230*	②	2.40*	570*	1270*	
		230	③	2.00	440	1350	80
	II	230	⑤	2.10	480	1330	77
		230	⑥	1.95	430	1360	77
	III	160	⑧	2.40	370	1110	75
		160	⑨	2.20	340	1170	73
	IV	130	⑪	2.40	290	880	65
		130	⑫	2.30	280	960	68
	V	105	⑭	2.20	210	660	57
		105	⑮	2.10	200	720	60

\*rated data

## Fan ordering information

← Airflow direction V

Design K



Type **FB045-4EK.4I.V4S**

Article no. **124181**

Weight [kg] 11.00

## Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 6 pole

FBO45-6E



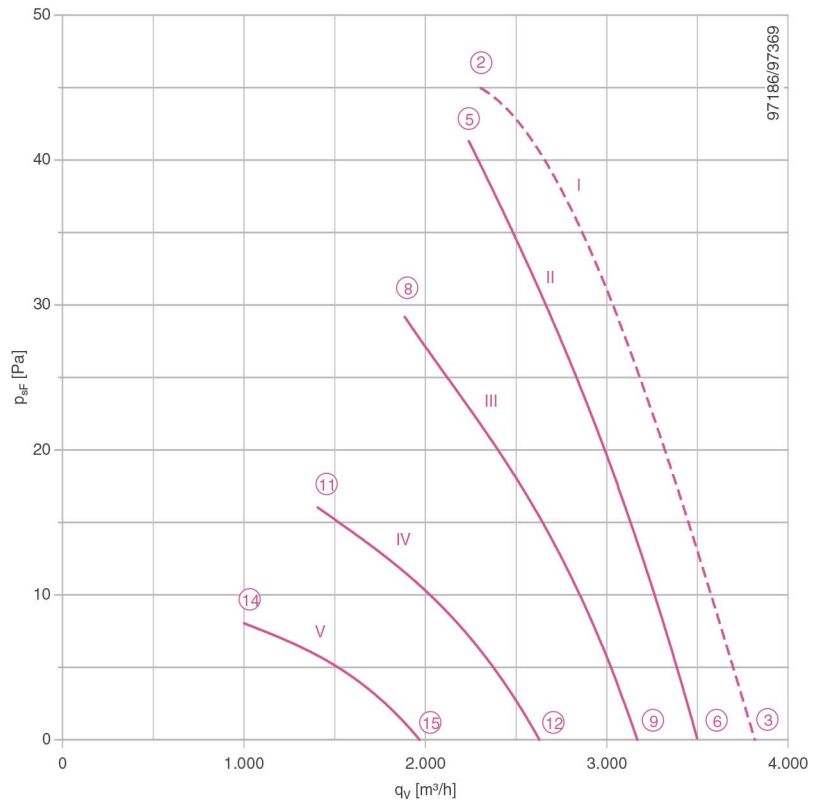
### Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.13 kW\*  
 Rated current  $I_N$ : 0.58 A\*  
 Rated speed  $n_n$ : 880 min<sup>-1</sup>\*  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 4.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 4  
 Protection class: IP54  
 Motor protection: Thermal contact  
 Blades: Aluminium, 1 coat paint, black  
 Rotor: Aluminium, 1 coat paint, black  
 Conformity: CE

### ErP Data

Is not subject to the ErP Guidelines ( $P_1 < 125$  W)  
 \* Rated data

### Characteristic curve

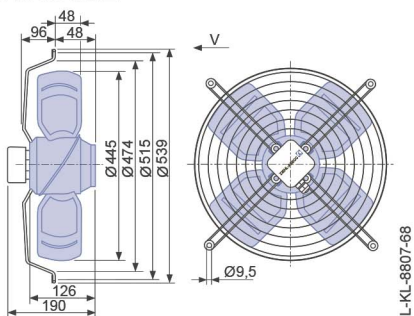


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

### Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



## Performance data

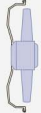
Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	L <sub>WAS</sub> [dB]
FB045-6E_2C_4P	I	230*	②	0.58*	130*	870*	68
		230	③	0.48	110	920	63
		230	⑤	0.58	130	870	66
	II	230	⑥	0.50	110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

\*rated data

## Fan ordering information

← Airflow direction V

Design K



Type **FB045-6EK.2C.V4P**

Article no. **160121**

Weight [kg] 4.00

## Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 6 pole

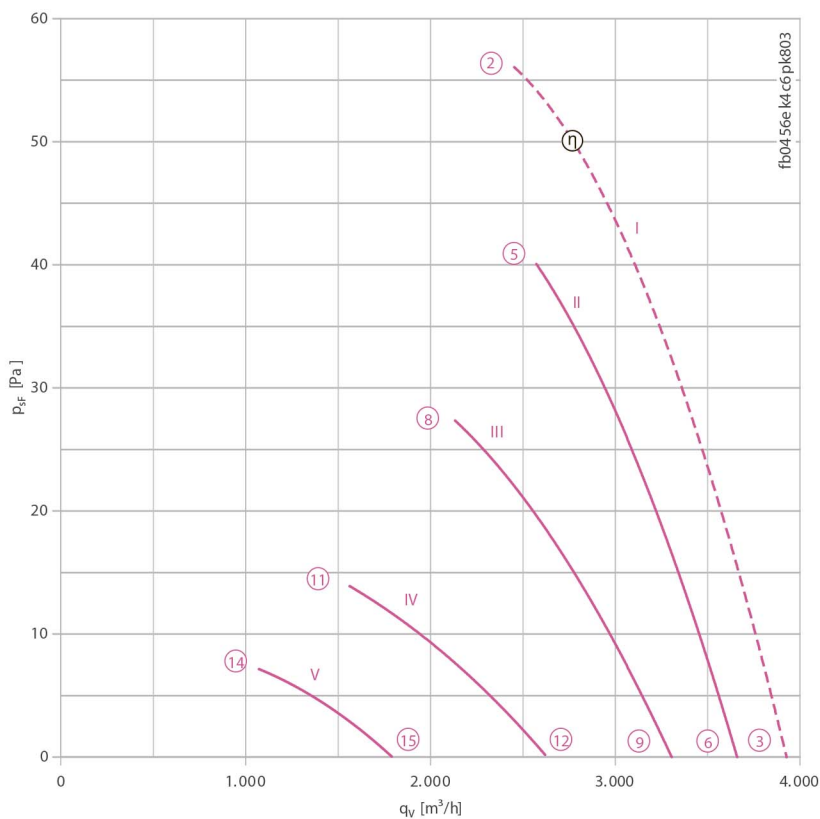
FBO45-6E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.20 kW\*  
 Rated current  $I_N$ : 0.88 A\*  
 Rated speed  $n_N$ : 910 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.70 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 5.0  $\mu$ F  
 Thermal class: **THCL155**\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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.

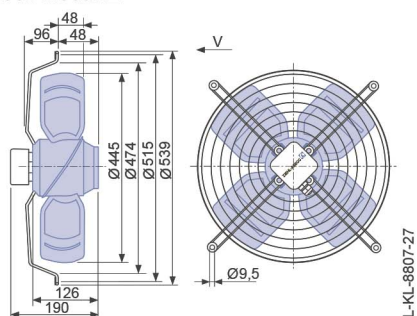
➤ Connection diagram 1360-104XA Page 608

➤ System components Page 524

## Dimensions [mm]



Design K - axial bolted, mounted for short bell mouth E





## Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	$L_{WAS}$ [dB]
FB045-6E_4C.V4P	I	230*	②	0.90*	190*	850*	
		230	③	0.73	145	910	67
	II	230	⑤	0.75	155	910	66
		230	⑥	0.69	135	930	65
	III	160	⑧	0.74	110	780	60
		160	⑨	0.64	94	830	62
	IV	130	⑪	0.74	83	540	54
		130	⑫	0.68	80	670	57
	V	105	⑭	0.62	56	380	
		105	⑮	0.61	55	460	

\*rated data

## Fan ordering information

← Airflow direction V

Design K



Type **FB045-6EK.4C.V4P**

Article no. **124183**

Weight [kg] 7.70

## Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 6 pole

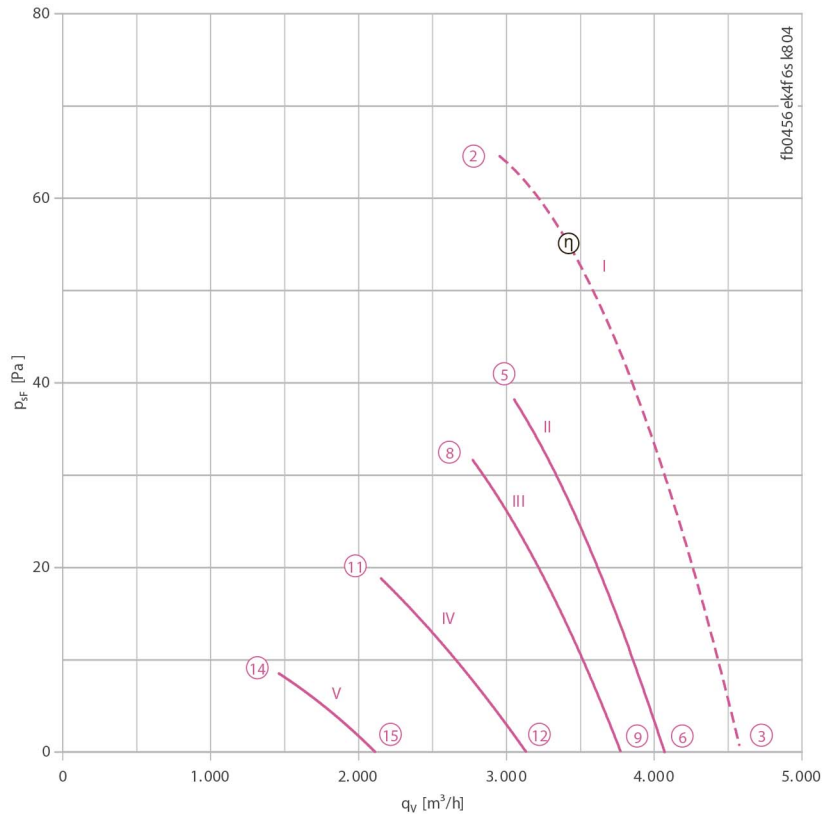
FBO45-6E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V±10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.26 kW\*  
 Rated current  $I_N$ : 1.20 A\*  
 Rated speed  $n_N$ : 920 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 2.20 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 8.0 µF  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

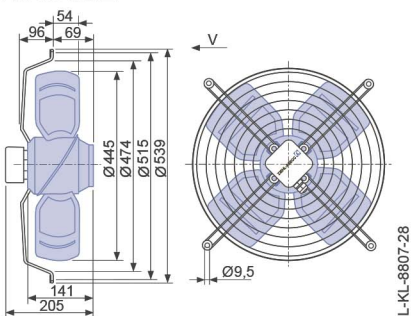


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



### Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	
FB045-6E_4F.V4S	I	230*	②	1.25*	280*	870*	
		230	③	0.96	210	930	71
	II	230	⑤	0.92	200	940	69
		230	⑥	0.87	190	950	67
	III	160	⑧	0.94	145	850	66
		160	⑨	0.85	130	880	64
	IV	130	⑪	1.00	120	660	59
		130	⑫	0.93	115	740	59
	V	105	⑭	0.90	83	450	
		105	⑮	0.89	82	490	

\*rated data

### Fan ordering information

← Airflow direction V

Design K



Type **FB045-6EK.4F.V4S**

Article no. **124184**

Weight [kg] 9.20

### Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for three phase alternating current, 4-4 pole

FBO45-VD



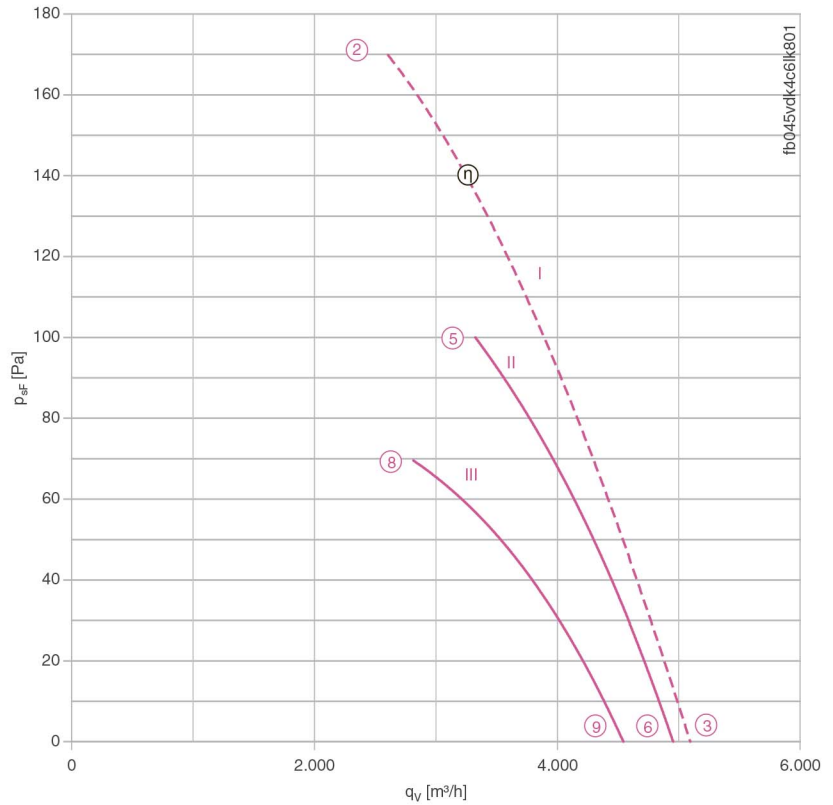
### Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.43/0.33 kW\*  
 Rated current  $I_N$ : 0.79/0.53 A\*  
 Rated speed  $n_N$ : 1370/1030 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 3.10 A / 1.80 A  
 Current increase  $\Delta I$ : 20 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 36.6 %  
 Efficiency:  $N_{actual} = 45.6 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

### Characteristic curve

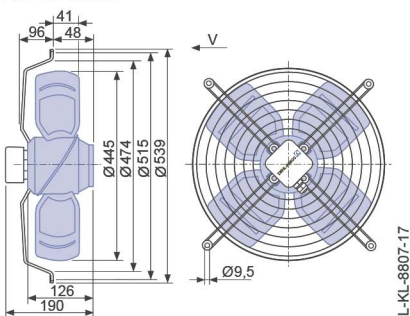


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

### Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



### Performance data

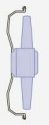
Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	Max. permitted media temperature
			U [V]						
FB045-VD_4C.V4L	Δ	I	400*	②	0.79*	430*	1370*		55
			400	③	0.60	240	1435	75	
		II	400	⑤	0.61	300	1400	72	
	Y	III	400	⑥	0.52	210	1440	72	
			400	⑧	0.39	240	1180	68	
		400	⑨	0.28	165	1310	70		

\*rated data

### Fan ordering information



Design K



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

Weight [kg] 7.70

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 4-4 pole

FBO45-VD



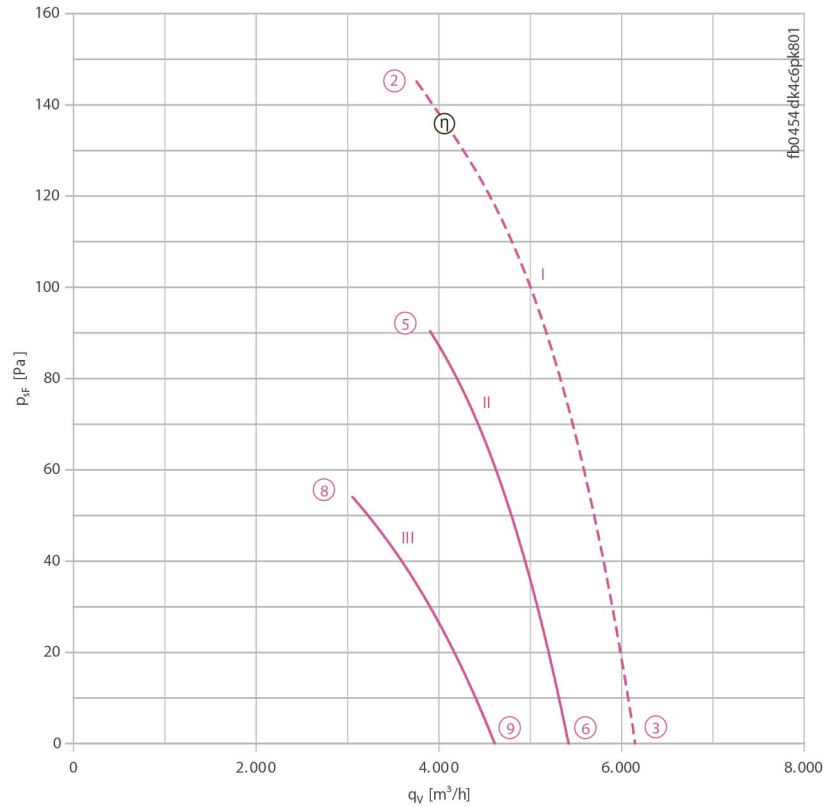
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.45/0.34 kW\*  
 Rated current  $I_N$ : 0.81/0.55 A\*  
 Rated speed  $n_N$ : 1360/1040 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 3.00 A / 1.00 A  
 Current increase  $\Delta I$ : 20 %  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 31.4 %  
 Efficiency:  $N_{actual} = 40.1 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve

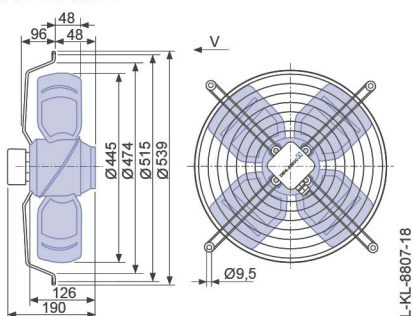


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



### Performance data

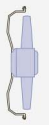
Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	Max. permitted media temperature
			U [V]						
FB045-VD_4C.V4P	Δ	I	400*	②	0.81*	450*	1360*		60
			400	③	0.60	300	1400	79	70
			400	⑤	0.69	380	1370	75	
	Y	III	400	⑥	0.60	300	1400	74	
			400	⑧	0.48	280	1070	69	
			400	⑨	0.41	250	1180	70	

\*rated data

### Fan ordering information



Design K



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

Weight [kg] 7.70

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 4-4 pole

FBO45-VD



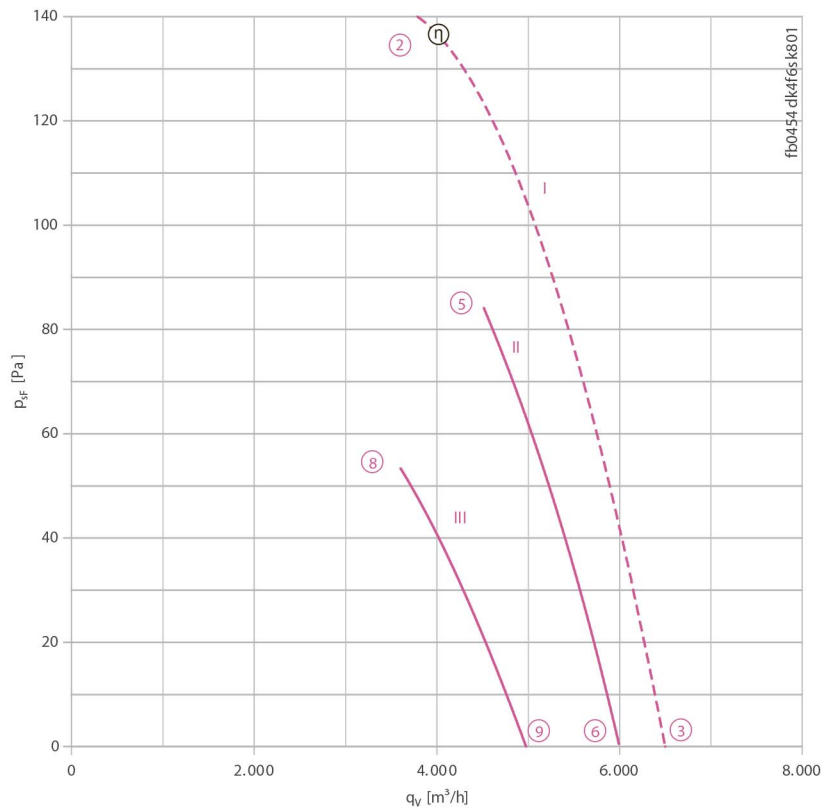
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor 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<sup>-1</sup>\*  
 Starting current  $I_A$ : 4.00 A / 1.20 A  
 Current increase  $\Delta I$ : 10 %  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 32.0 %  
 Efficiency:  $N_{actual} = 40.0 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



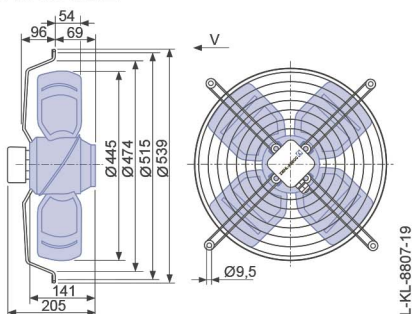
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



### Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	Max. permitted media temperature $t_R$ [°C]
			U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	$L_{WAS}$ [dB]	
FB045-VD_4F.V4S	Δ	I	400*	②	1.10*	630*	1330*		55
			400	③	0.90	430	1380	81	70
			400	⑤	0.92	460	1370	80	
	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



Design K



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

Weight [kg] 9.20

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 6-6 pole

FBO45-SD



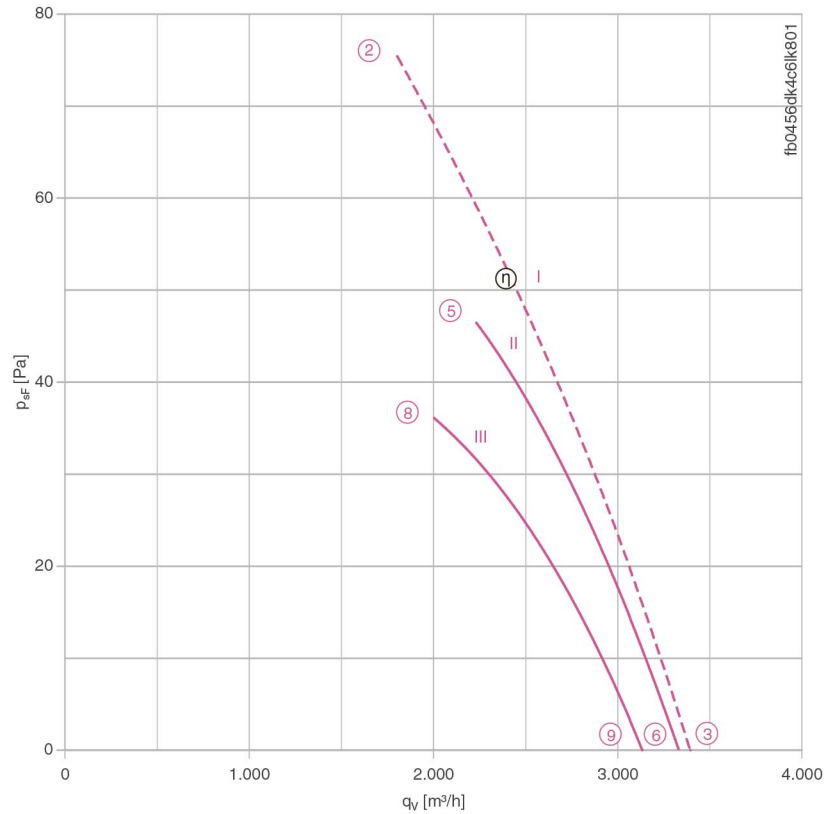
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.15/0.10 kW\*  
 Rated current  $I_N$ : 0.45/0.23 A\*  
 Rated speed  $n_N$ : 920/ 730 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.20 A / 0.36 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 28.1 %  
 Efficiency:  $N_{actual} = 40.0 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve

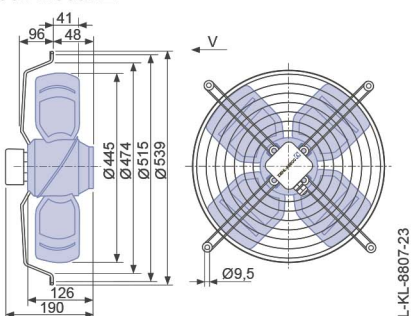


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

← Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E





### Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB045-SD_4C.V4L	Δ	I	400*	②	0.45*	150*	920*	
			400	③	0.45	115	960	69
			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



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

Weight [kg] 7.70

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 6-6 pole

FBO45-SD



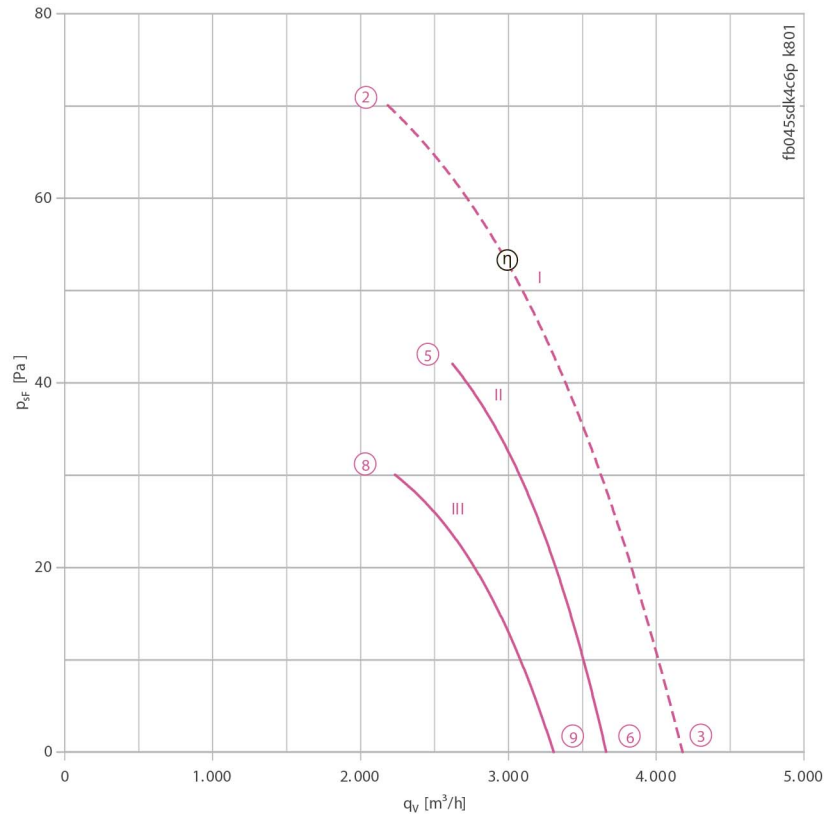
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.19/0.13 kW\*  
 Rated current  $I_N$ : 0.53/0.28 A\*  
 Rated speed  $n_N$ : 920/ 750 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.50 A / 0.46 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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 2013, CE

## ErP Data

Efficiency  $\eta_{statA}$ : 24.7 %  
 Efficiency:  $N_{actual} = 36.1 / N_{target} = 36$ \*\*  
 \* Rated data  
 \*\*ErP 2013

## Characteristic curve



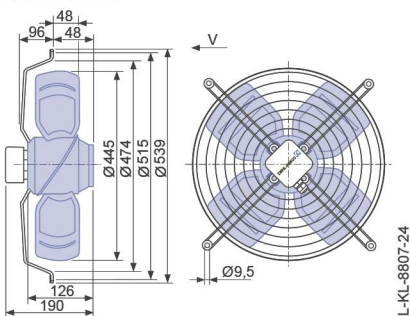
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



## Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB045-SD_4C.V4P	Δ	I	400*	②	0.53*	190*	920*	
			400	③	0.46	130	950	69
			400	⑤	0.49	150	940	65
	Y	III	400	⑥	0.48	130	950	64
			400	⑧	0.22	100	820	62
			400	⑨	0.20	85	860	62

\*rated data

## Fan ordering information

← Airflow direction V

Design K



Type **FB045-SDK.4C.V4P**  
Article no. **209092**

Weight [kg] 7.70

## Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 6-6 pole

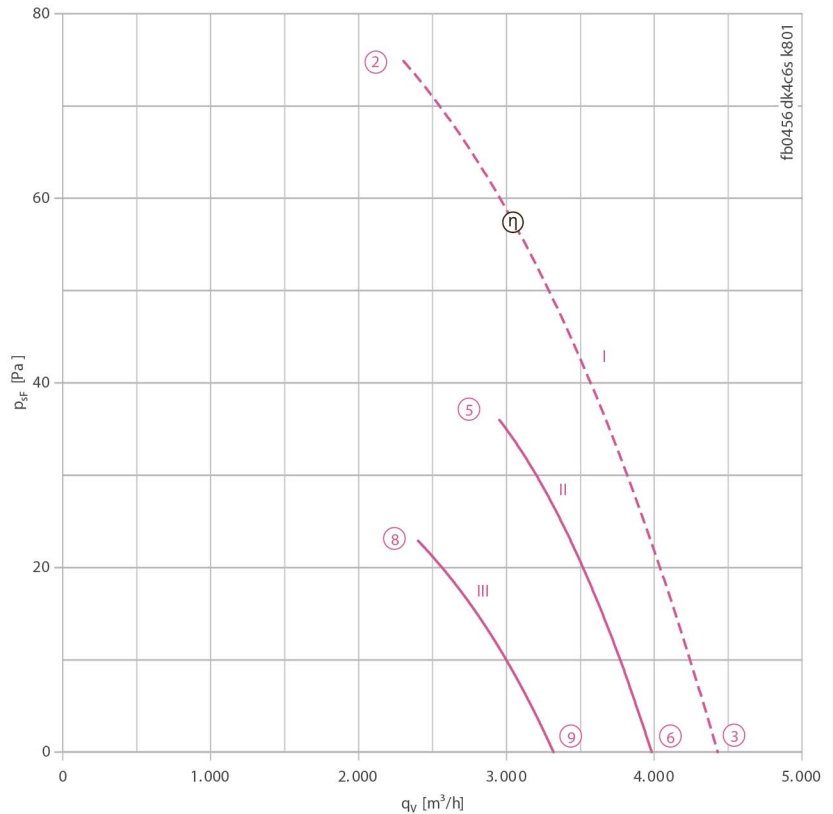
FBO45-SD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.23/0.14 kW\*  
 Rated current  $I_N$ : 0.56/0.30 A\*  
 Rated speed  $n_N$ : 885/ 600 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.50 A / 0.46 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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



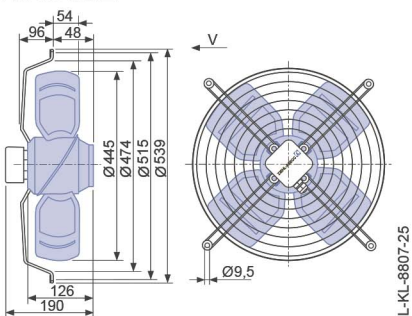
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



## Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB045-SD_4C.V4S	Δ	I	400*	②	0.56*	230*	885*	
			400	③	0.50	160	930	71
			400	⑤	0.53	180	910	71
	Y	III	400	⑥	0.51	165	930	67
			400	⑧	0.25	115	740	66
			400	⑨	0.23	105	770	63

\*rated data

## Fan ordering information

← Airflow direction V

Design K



Type **FB045-SDK.4C.V4S**  
Article no. **121958**

Weight [kg] 7.70

## Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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Information

FE2owlet  
ECblue

FE2owlet

FB

FC

System  
components

Control  
technology

Appendix



# FB

for three phase alternating current, 8-8 pole

FBO45-AD



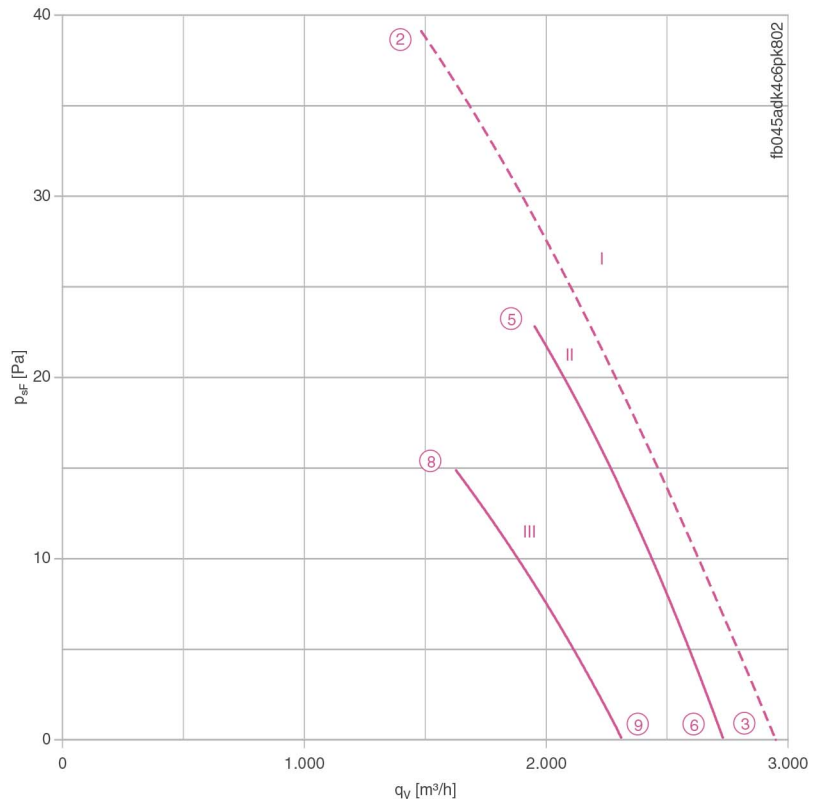
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.07/0.05 kW\*  
 Rated current  $I_N$ : 0.17/0.09 A\*  
 Rated speed  $n_N$ : 660/510 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.42 A / 0.13 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

Is not subject to the ErP Guidelines ( $P_1 < 125$  W)  
 \* Rated data

## Characteristic curve

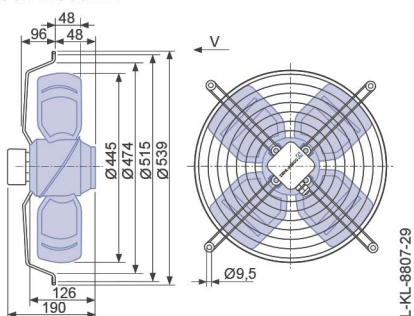


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

← Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



# FB

for single phase alternating current, 4 pole

FBO50-4E



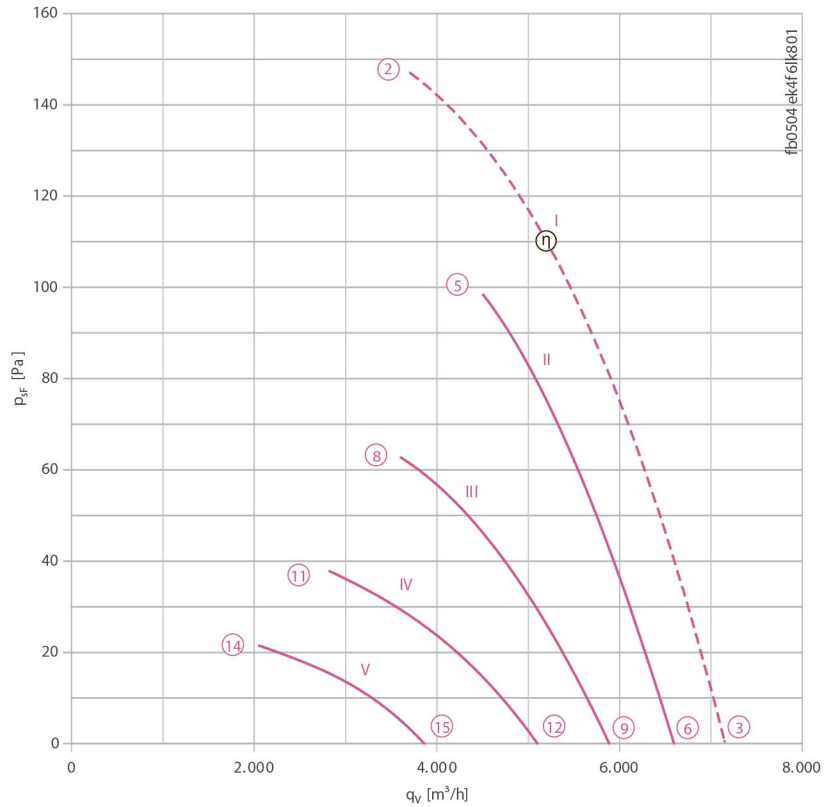
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_i$ : 0.57 kW\*  
 Rated current  $I_N$ : 2.50 A\*  
 Rated speed  $n_N$ : 1240 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 4.60 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 10.0  $\mu$ F  
 Thermal class: **THCL155**\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 31.0 %  
 Efficiency:  $N_{actual} = 41.1 / N_{target} = 40$ \*\*  
 Frequency inverter required  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve

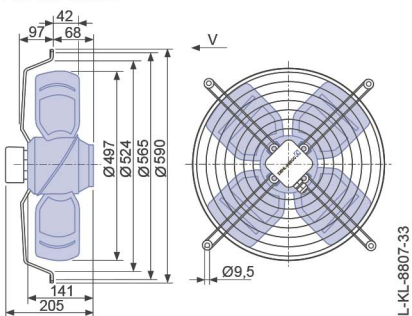


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



### Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	Max. permitted media temperature
		U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	L <sub>WA5</sub> [dB]	
FB050-4E_4F.V4L	I	230*	②	2.50*	570*	1240*		60
		230	③	1.80	380	1360	75	
	II	230	⑤	2.20	490	1300	75	70
		230	⑥	1.75	390	1370	76	
	III	160	⑧	2.30	350	1060	70	
		160	⑨	1.80	290	1220	73	
	IV	130	⑪	2.20	270	810	64	
		130	⑫	1.90	240	1050	69	
	V	105	⑭	1.90	190	610	57	
		105	⑮	1.80	180	790	62	

\*rated data

### Fan ordering information

**Airflow direction V**

Design K



Type **FB050-4EK.4F.V4L**  
Article no. **107779**

Weight [kg] 9.50

### Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 4 pole

FBO50-4E



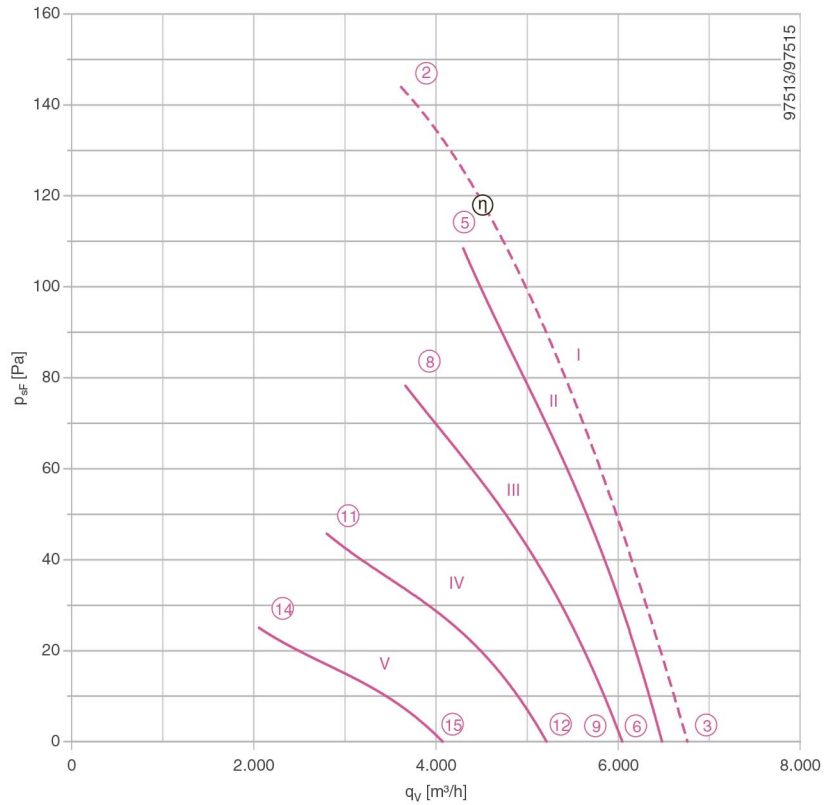
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.45 kW\*  
 Rated current  $I_N$ : 2.10 A\*  
 Rated speed  $n_N$ : 1300 min<sup>-1</sup>\*  
 Current increase  $\Delta I$ : 10 %  
 Service capacitor  $C_{400V}$ : 8.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 35.5 %  
 Efficiency:  $N_{actual} = 44.2 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



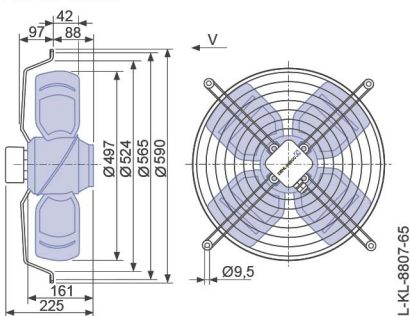
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



## Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	$L_{WAS}$ [dB]
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



Type **FB050-4EK.4I.V4L**

Article no. **160135**

Weight [kg] 12.00

## Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 6 pole

FBO50-6E



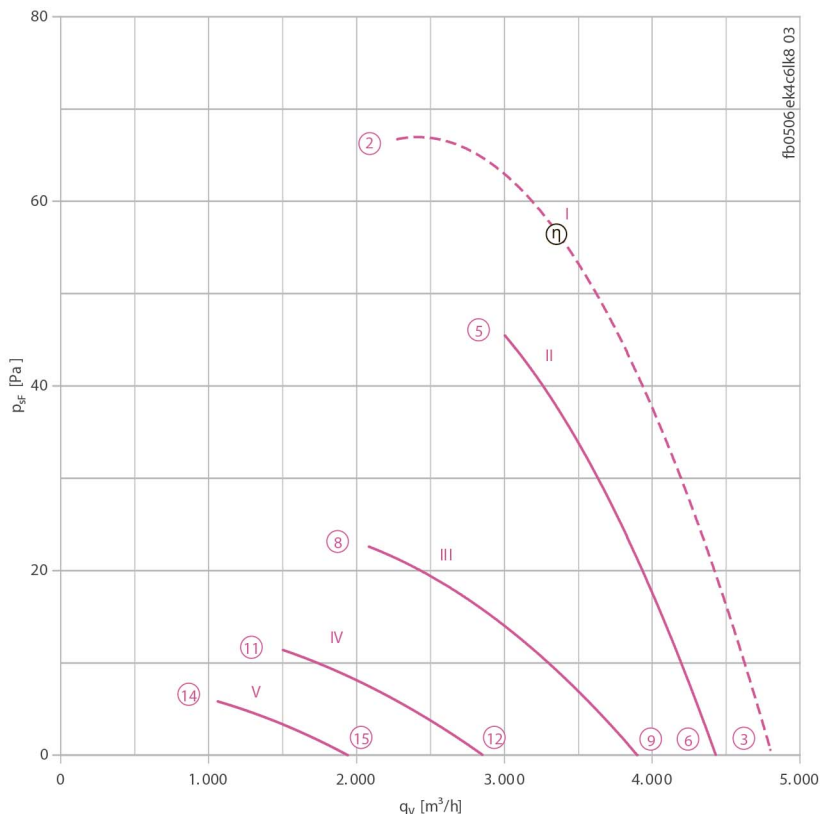
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.21 kW\*  
 Rated current  $I_N$ : 0.95 A\*  
 Rated speed  $n_N$ : 850 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.70 A  
 Current increase  $\Delta I$ : 5 %  
 Service capacitor  $C_{400V}$ : 5.0  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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 2013, CE

### ErP Data

Efficiency  $\eta_{statA}$ : 25.9 %  
 Efficiency:  $N_{actual} = 37.0 / N_{target} = 36$ \*\*  
 \* Rated data  
 \*\*ErP 2013

## 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.

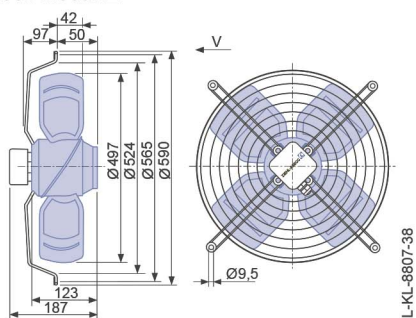
➤ Connection diagram 1360-104XA Page 608

➤ System components Page 524

## Dimensions [mm]



Design K - axial bolted, mounted for short bell mouth E



## Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	
FB050-6E_4C.V4L	I	230*	②	0.96*	200*	820*	
		230	③	0.77	160	900	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



Type **FB050-6EK.4C.V4L**

Article no. **124189**

Weight [kg] 8.10

## Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 6 pole

FBO50-6E



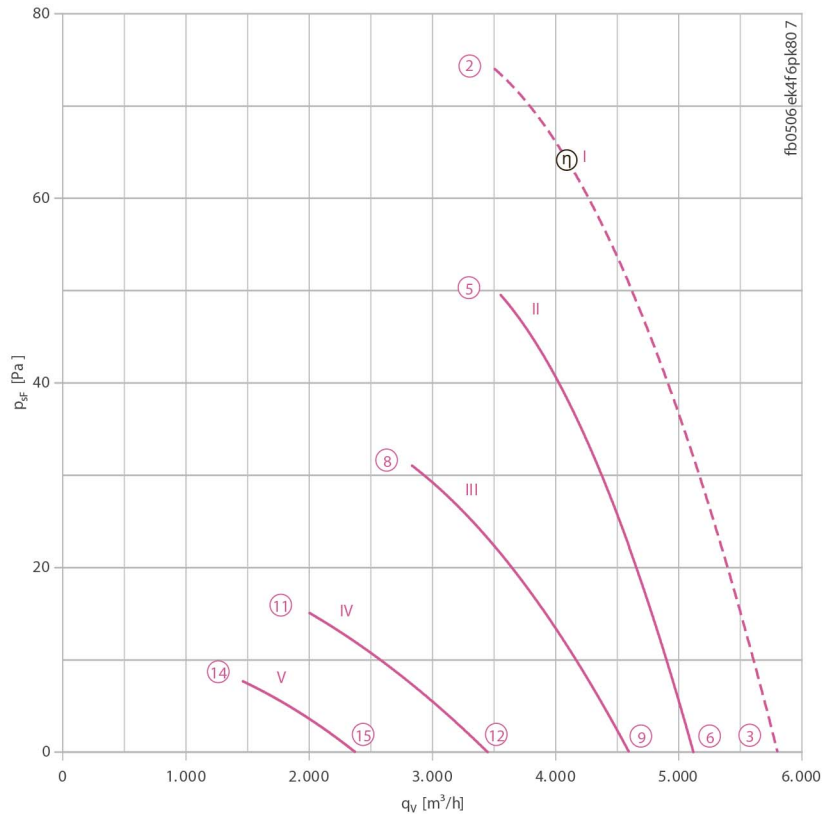
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.29 kW\*  
 Rated current  $I_N$ : 1.30 A\*  
 Rated speed  $n_N$ : 920 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 2.20 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 8.0  $\mu$ F  
 Thermal class: **THCL155**\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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 2013, CE

### ErP Data

Efficiency  $\eta_{statA}$ : 27.1 %  
 Efficiency:  $N_{actual} = 37.4 / N_{target} = 36$ \*\*  
 \* Rated data  
 \*\*ErP 2013

Characteristic curve



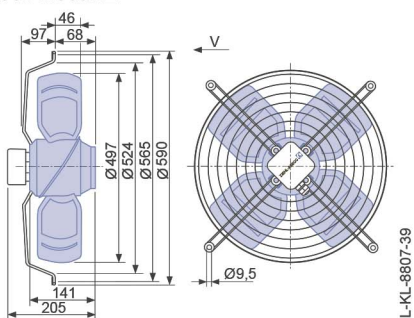
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]

← Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



### Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	
FB050-6E_4F.V4P	I	230*	②	1.25*	280*	870*	
		230	③	0.96	210	930	69
	II	230	⑤	1.05	230	910	69
		230	⑥	0.92	200	930	68
	III	160	⑧	1.15	170	740	63
		160	⑨	0.96	145	830	65
	IV	130	⑪	1.10	125	490	57
		130	⑫	1.05	120	630	58
	V	105	⑭	0.90	83	370	
		105	⑮	0.89	82	440	

\*rated data

### Fan ordering information

← Airflow direction V

Design K



Type **FB050-6EK.4F.V4P**

Article no. **124190**

Weight [kg] 9.50

### Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 6 pole

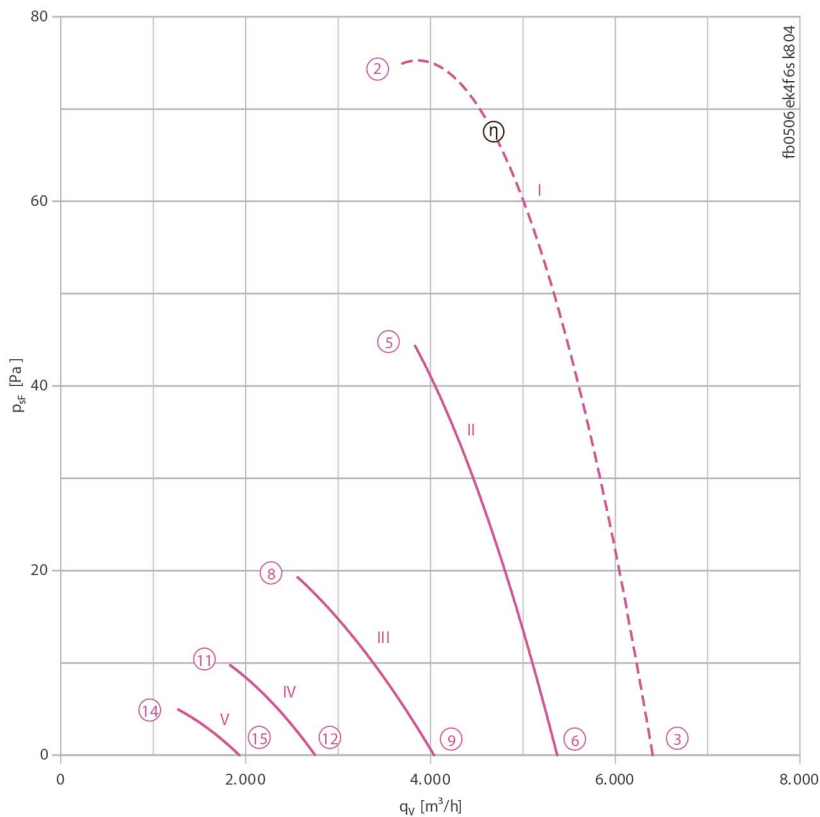
FBO50-6E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.29 kW\*  
 Rated current  $I_N$ : 1.35 A\*  
 Rated speed  $n_N$ : 850 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 2.20 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 8.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

## 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.

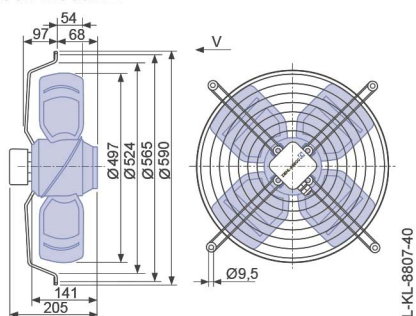
➤ Connection diagram 1360-104XA Page 608

➤ System components Page 524

## Dimensions [mm]

← Airflow direction V

Design K - axial bolted, mounted for short bell mouth E





### Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WA5}$ [dB]	Max. permitted media temperature $t_R$ [°C]
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]		
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



Type **FB050-6EK.4F.V4S**

Article no. **124191**

Weight [kg] 9.50

### Control technology

Frequency inverter  
Fcontrol 1~



➤ Page 552

Motor protection units  
1~



➤ Page 596

Transformer-based  
controllers 1~



➤ Page 587

Electronic voltage  
controllers 1~



➤ Page 562

# FB

for single phase alternating current, 8 pole

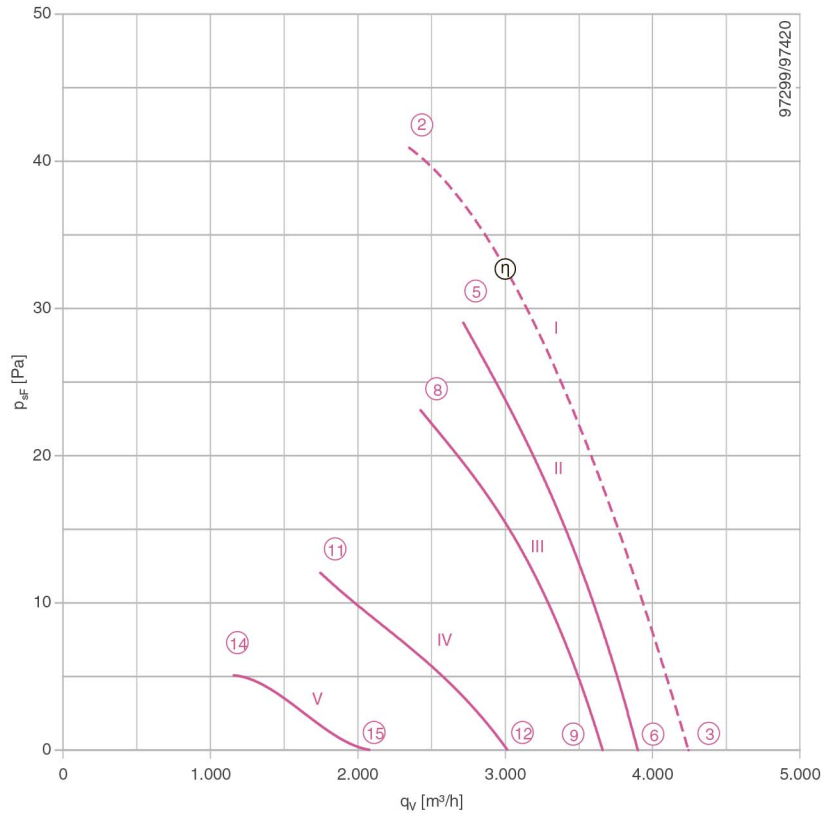
FBO50-8E



## 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<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.90 A  
 current increase  $\Delta$ : 0 %  
 Service capacitor  $C_{400V}$ : 3.0  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Maximum permitted conveyor temperature  $t_{R(max)}$ : 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

## Characteristic curve

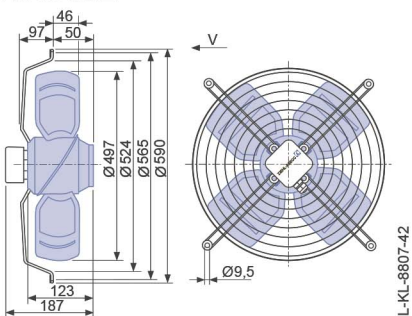


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]

← Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



## Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	$L_{WAS}$ [dB]
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



Type **FB050-8EK.4C.V4P**

Article no. **160129**

Weight [kg] 8.10

## Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for three phase alternating current, 4-4 pole

FBO50-VD



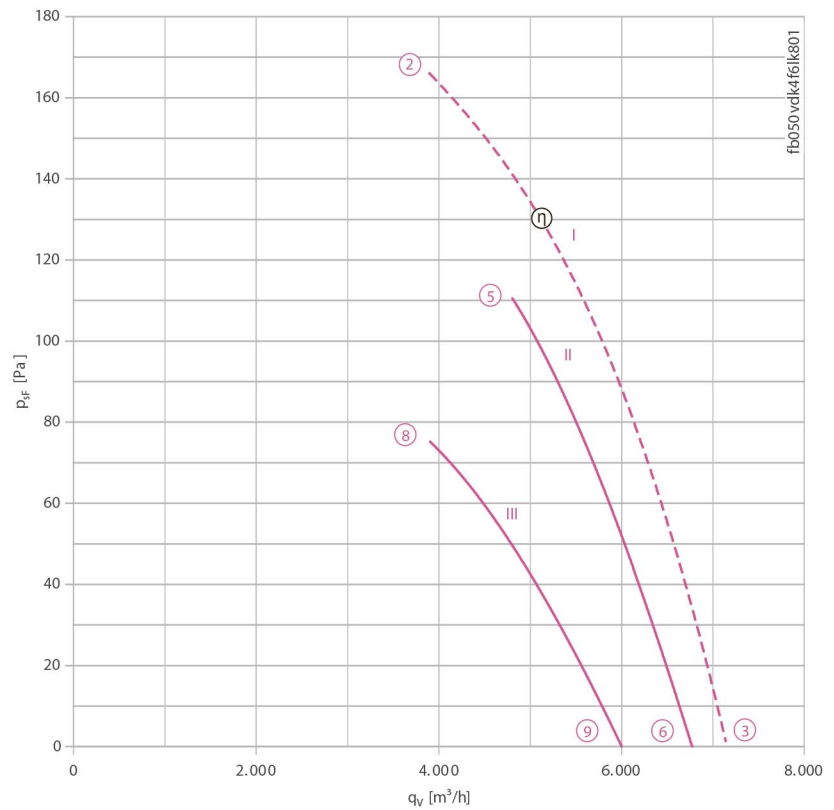
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 5 Hz\*  
 Motor input power  $P_1$ : 0.58/0.44 kW\*  
 Rated current  $I_N$ : 1.05/0.71 A\*  
 Rated speed  $n_N$ : 1350/1030  $\text{min}^{-1}$   
 Starting current  $I_A$ : 4.00 A / 1.20 A  
 Current increase  $\Delta I$ : 10 %  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(\text{min})}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(\text{max})}$ : 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  $\eta_{\text{statA}}$ : 37.7 %  
 Efficiency:  $N_{\text{actual}} = 46.1 / N_{\text{target}} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve

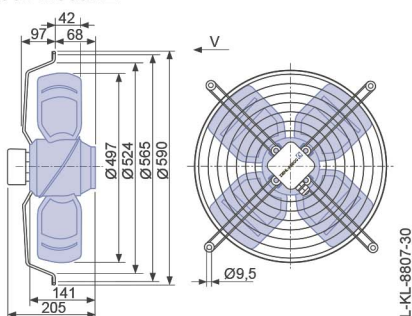


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



### Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	Max. permitted media temperature $t_{R}$ [°C]
			U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	$L_{WAS}$ [dB]	
FB050-VD_4F.V4L	Δ	I	400*	②	1.05*	580*	1350*		55
			400	③	0.88	360	1410	76	70
			400	⑤	0.98	480	1380	76	
	Y	III	400	⑥	0.85	350	1420	76	
			400	⑧	0.62	360	1130	72	
			400	⑨	0.48	280	1260	73	

\*rated data

### Fan ordering information



Design K



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

Weight [kg] 9.50

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 4-4 pole

FBO50-VD



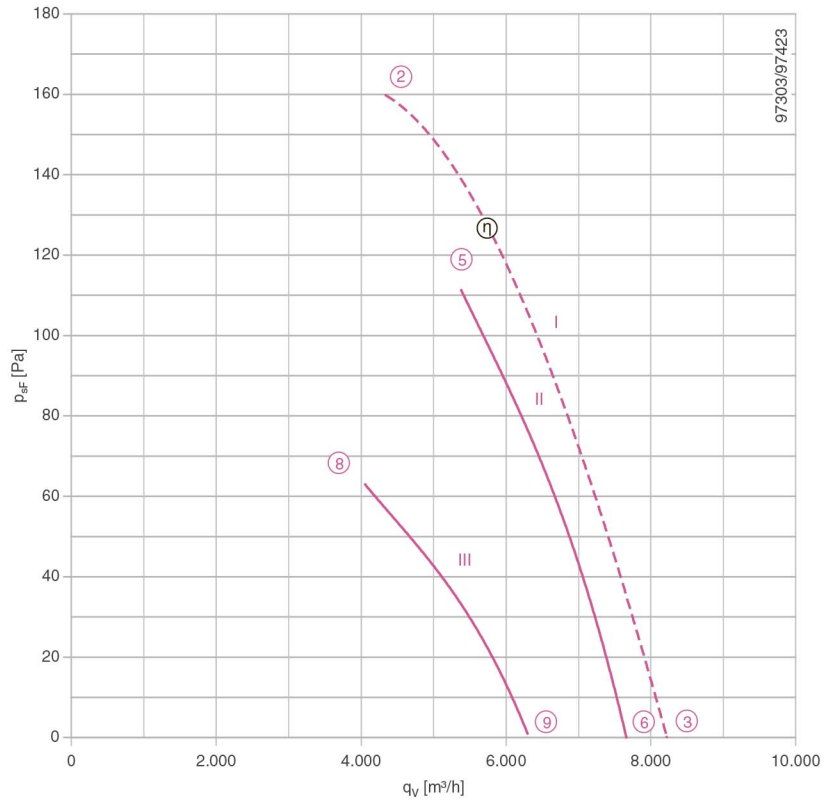
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.65/0.44 kW\*  
 Rated current  $I_N$ : 1.15/0.77 A\*  
 Rated speed  $n_N$ : 1340/ 960  $\text{min}^{-1}$ \*  
 Starting current  $I_A$ : 5.10 A / 1.70 A  
 Current increase  $\Delta I$ : 15 %  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(\text{min})}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(\text{max})}$ : 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  $\eta_{\text{statA}}$ : 34.6 %  
 Efficiency:  $N_{\text{actual}} = 42.4 / N_{\text{target}} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



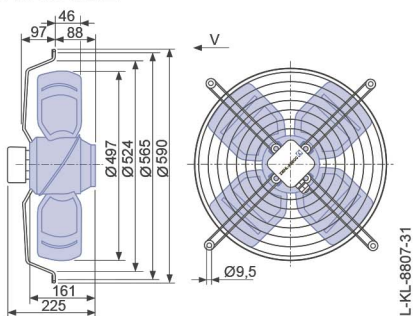
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



### Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
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	II	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



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

Weight [kg] 11.30

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 4-4 pole

FBO50-VD



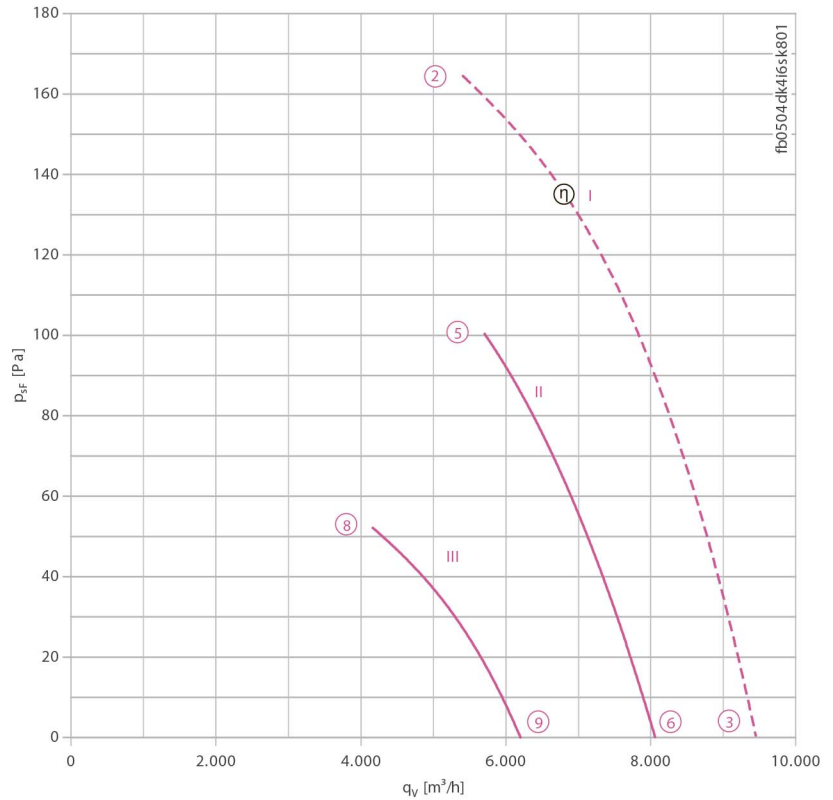
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 5 Hz\*  
 Motor input power  $P_1$ : 0.82/0.55 kW\*  
 Rated current  $I_N$ : 1.50/0.95 A\*  
 Rated speed  $n_N$ : 1330/1030  $\text{min}^{-1}$   
 Starting current  $I_A$ : 5.70 A / 1.90 A  
 Current increase  $\Delta I$ : 10 %  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(\text{min})}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(\text{max})}$ : 50 °C  
 Electrical connection: Terminal box  
 Number of blades: 4  
 Protection class: IP54  
 Motor protection: Thermal contact  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, uncoated  
 Conformity: ErP 2013, CE

## ErP Data

Efficiency  $\eta_{\text{statA}}$ : 29.9 %  
 Efficiency:  $N_{\text{actual}} = 37.0 / N_{\text{target}} = 36$ \*\*  
 \* Rated data  
 \*\*ErP 2013

## Characteristic curve

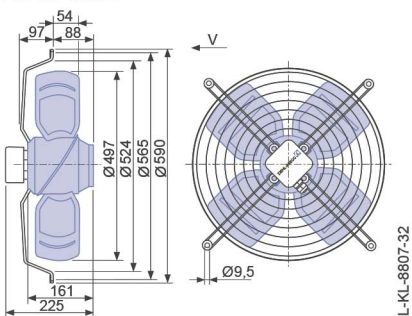


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



### Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	Max. permitted media temperature $t_R$ [°C]
			U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	$L_{WAS}$ [dB]	
FB050-VD_4I.V4S	Δ	I	400*	②	1.50*	820*	1330*		50
			400	③	1.35	690	1360	83	60
			400	⑤	1.30	720	1340	81	
	Y	III	400	⑥	1.15	630	1360	80	
			400	⑧	0.88	500	980	72	
			400	⑨	0.79	460	1040	73	

\*rated data

### Fan ordering information





Design K



Type **FB050-VDK.4I.V4S**  
Article no. **107557**

Weight [kg] 11.30

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 6-6 pole

FBO50-SD



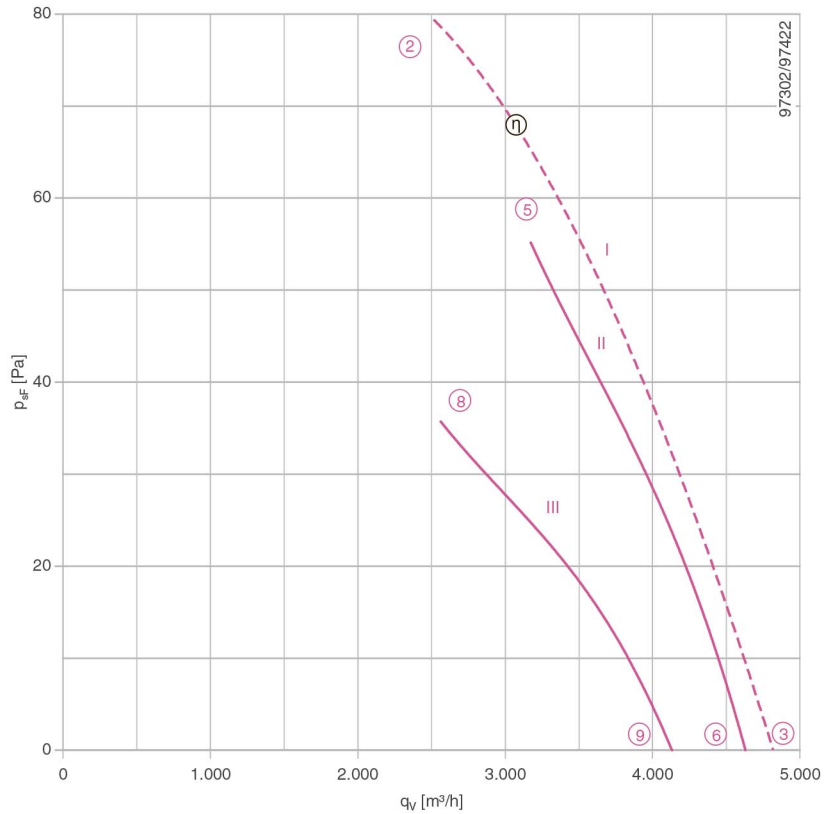
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.21/0.14 kW\*  
 Rated current  $I_N$ : 0.56/0.28 A\*  
 Rated speed  $n_N$ : 920/ 730 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.50 A / 0.46 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 29.6 %  
 Efficiency:  $N_{actual} = 40.3 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

Characteristic curve



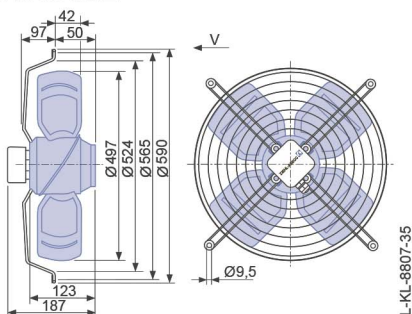
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E





# FB

for three phase alternating current, 6-6 pole

FBO50-SD



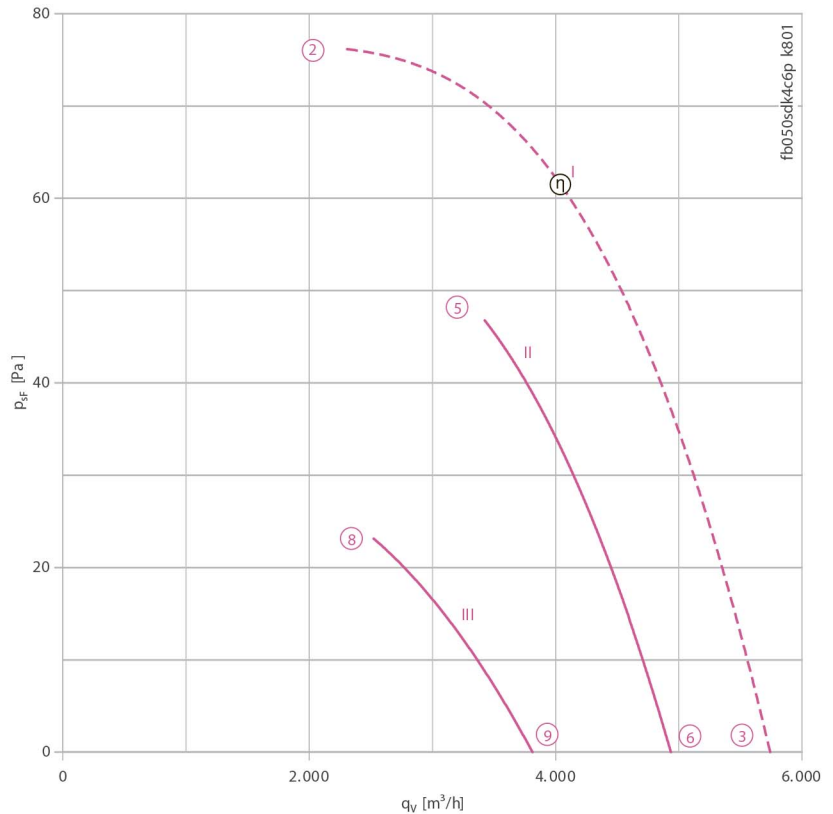
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.24/0.14 kW\*  
 Rated current  $I_N$ : 0.55/0.29 A\*  
 Rated speed  $n_N$ : 880/ 620 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.50 A / 0.46 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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 2013, CE

## ErP Data

Efficiency  $\eta_{statA}$ : 25.9 %  
 Efficiency:  $N_{actual} = 36.3 / N_{target} = 36$ \*\*  
 \* Rated data  
 \*\*ErP 2013

## Characteristic curve



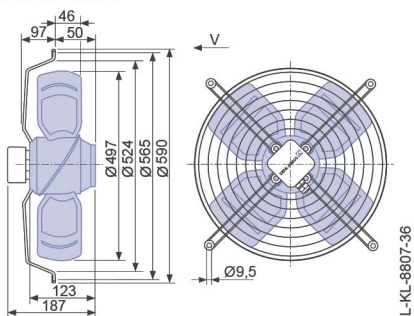
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



### Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB050-SD_4C.V4P	Δ	I	400*	②	0.55*	240*	880*	
			400	③	0.49	175	930	69
			400	⑤	0.55	220	890	69
	Y	III	400	⑥	0.52	190	910	67
			400	⑧	0.27	130	630	64
			400	⑨	0.25	120	700	60

\*rated data

### Fan ordering information

← Airflow direction V

Design K



Type **FB050-SDK.4C.V4P**

Article no. **210542**

Weight [kg] 8.10

### Control technology

Frequency inverter  
Fcontrol 3~



➤ Page 558

Motor protection units  
3~



➤ Page 596

Transformer-based  
controllers 3~



➤ Page 591

Electronic voltage  
controllers 3~



➤ Page 578

# FB

for three phase alternating current, 6-6 pole

FBO50-SD



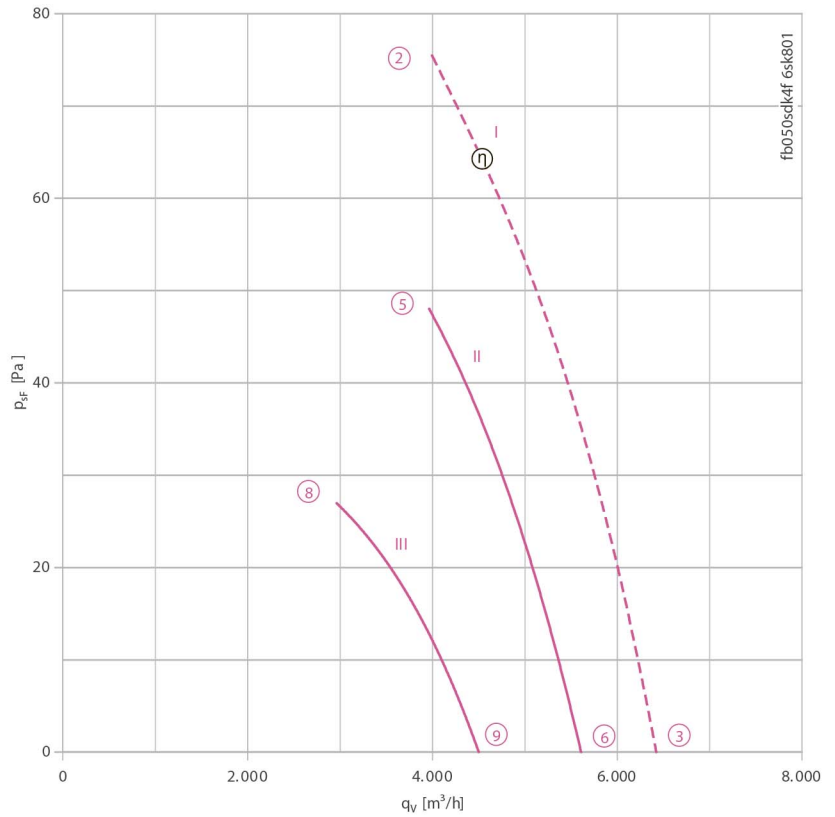
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.31/0.19 kW\*  
 Rated current  $I_N$ : 0.72/0.39 A\*  
 Rated speed  $n_N$ : 880/ 640 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.80 A / 0.50 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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 2013, CE

## ErP Data

Efficiency  $\eta_{statA}$ : 26.2 %  
 Efficiency:  $N_{actual} = 36.1 / N_{target} = 36$ \*\*  
 \* Rated data  
 \*\*ErP 2013

## Characteristic curve

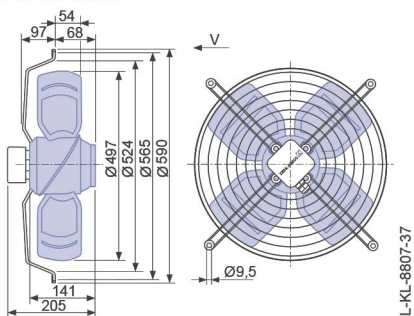


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

← Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



## Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB050-SD_4F.V4S	Δ	I	400*	②	0.72*	310*	880*	
			400	③	0.63	230	930	73
			400	⑤	0.67	280	910	72
	Y	III	400	⑥	0.64	250	920	71
			400	⑧	0.38	190	700	64
			400	⑨	0.36	175	750	65

\*rated data

## Fan ordering information

← Airflow direction V

Design K



Type **FB050-SDK.4F.V4S**

Article no. **124388**

Weight [kg] 9.50

## Control technology

Frequency inverter  
Fcontrol 3~



➤ Page 558

Motor protection units  
3~



➤ Page 596

Transformer-based  
controllers 3~



➤ Page 591

Electronic voltage  
controllers 3~



➤ Page 578

# FB

for three phase alternating current, 8-8 pole

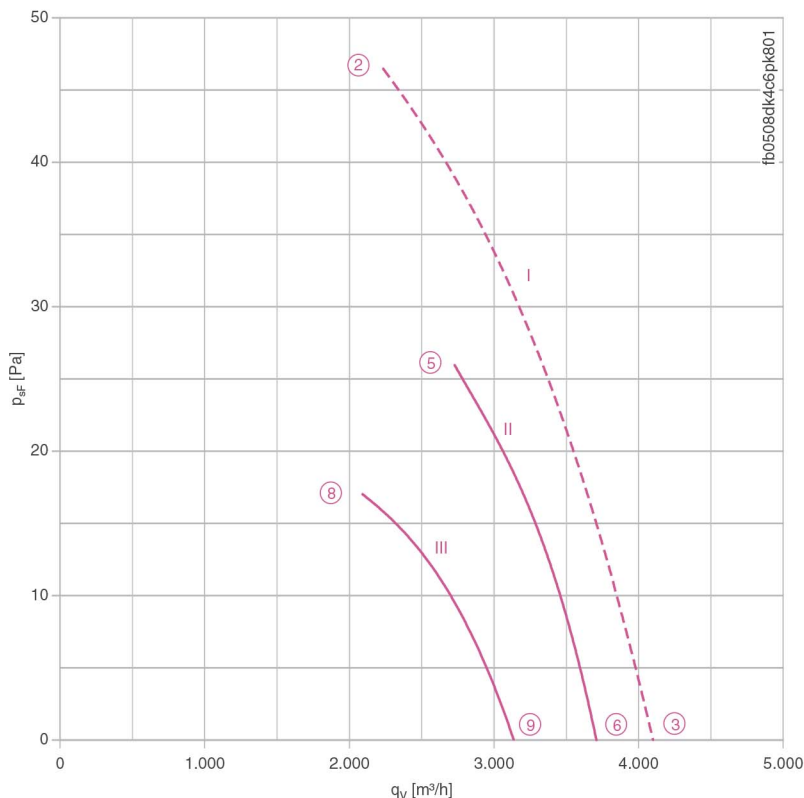
FBO50-AD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.12/0.08 kW\*  
 Rated current  $I_N$ : 0.30/0.15 A\*  
 Rated speed  $n_N$ : 670/520 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 0.70 A / 0.22 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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**  
 Is not subject to the ErP Guidelines ( $P_1 < 125$  W)  
 \* Rated data

## Characteristic curve

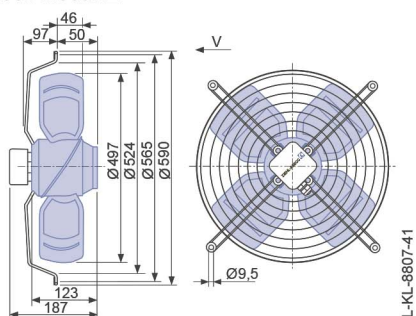


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E





### Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB050-AD_4C.V4P	Δ	I	400*	②	0.30*	115*	670*	
			400	③	0.26	92	690	62
			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



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

Weight [kg] 8.10

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for single phase alternating current, 6 pole

FBO56-6E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : **1~ 230 V $\pm$ 10 %\***  
 Rated frequency  $f_N$ : **50 Hz\***  
 Motor input power  $P_i$ : **0.33 kW\***  
 Rated current  $I_N$ : **1.70 A\***  
 Rated speed  $n_N$ : **890 min<sup>-1</sup>\***  
 Starting current  $I_A$ : 3.60 A  
 Current increase  $\Delta$ : 10 %  
 Service capacitor  $C_{400V}$ : 6.0  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 65 °C  
 Electrical connection: Terminal box  
 Number of blades: 4  
 Protection class: IP54  
 Motor protection: Thermal contact  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, uncoated  
 Conformity: ErP 2013, CE

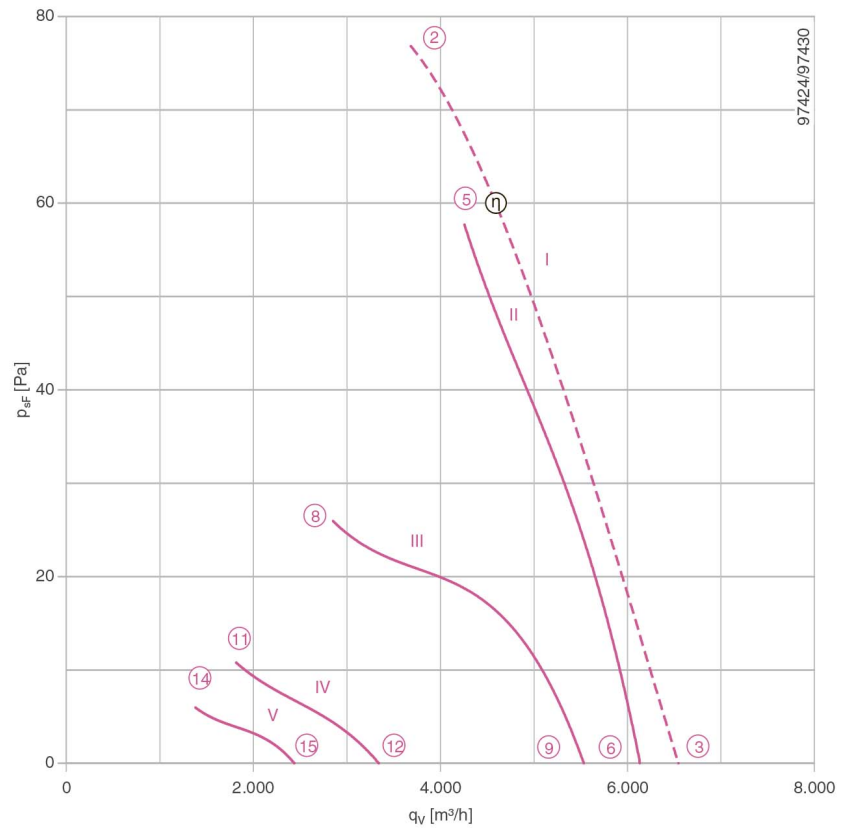
## ErP Data

Efficiency  $\eta_{stata}$ : 27.4 %  
 Efficiency:  $N_{actual} = 37.0 / N_{target} = 36^{**}$   
 \* Rated data  
 \*\*ErP 2013

➤ Connection diagrams Page 608  
 for airflow direction V 1360-104XA  
 for airflow direction A 1360-104XB

➤ System components Page 524

## Characteristic curve

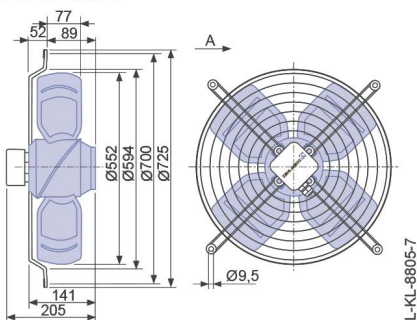


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

## Dimensions [mm]

Airflow direction A

Design W - axial bolted, mounting for short bell mouth E





Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WAS}$ [dB]
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	
FB056-6E_4F_4L	I	230*	②	1.25*	280*	880*	
		230	③	1.00	220	920	68
	II	230	⑤	1.15	260	890	69
		230	⑥	0.93	210	930	70
	III	160	⑧	1.25	185	610	64
		160	⑨	1.00	155	810	66
	IV	130	⑪	1.10	125	440	55
		130	⑫	1.05	120	580	58
	V	105	⑭	0.90	83	330	
		105	⑮	0.89	82	410	

\*rated data

Fan ordering information

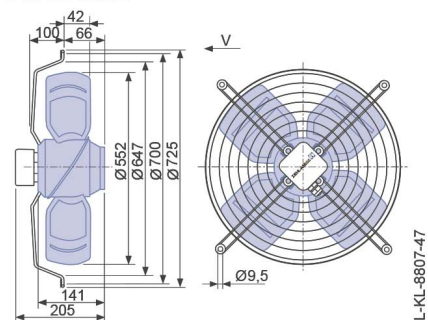
Airflow direction A		Airflow direction V	
Design	W		K
			
Type	FB056-6EW.4F.A4L		FB056-6EK.4F.V4L
Article no.	132418		124174
Weight [kg]	10.30		10.30

Control technology

Frequency inverter Control 1~  ➤ Page 552	Motor protection units 1~  ➤ Page 596	Transformer-based controllers 1~  ➤ Page 587	Electronic voltage controllers 1~  ➤ Page 562
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Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



# FB

for single phase alternating current, 6 pole

FBO56-6E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_i$ : 0.37 kW\*  
 Rated current  $I_N$ : 1.70 A\*  
 Rated speed  $n_N$ : 900 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 3.80 A  
 Current increase  $\Delta$ : 20 %  
 Service capacitor  $C_{400V}$ : 8.0  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 65 °C  
 Electrical connection: Terminal box  
 Number of blades: 4  
 Protection class: IP54  
 Motor protection: Thermal contact  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, uncoated  
 Conformity: ErP 2013, CE

## ErP Data

Efficiency  $\eta_{stata}$ : 28.7 %  
 Efficiency:  $N_{actual} = 38.0 / N_{target} = 36^{**}$

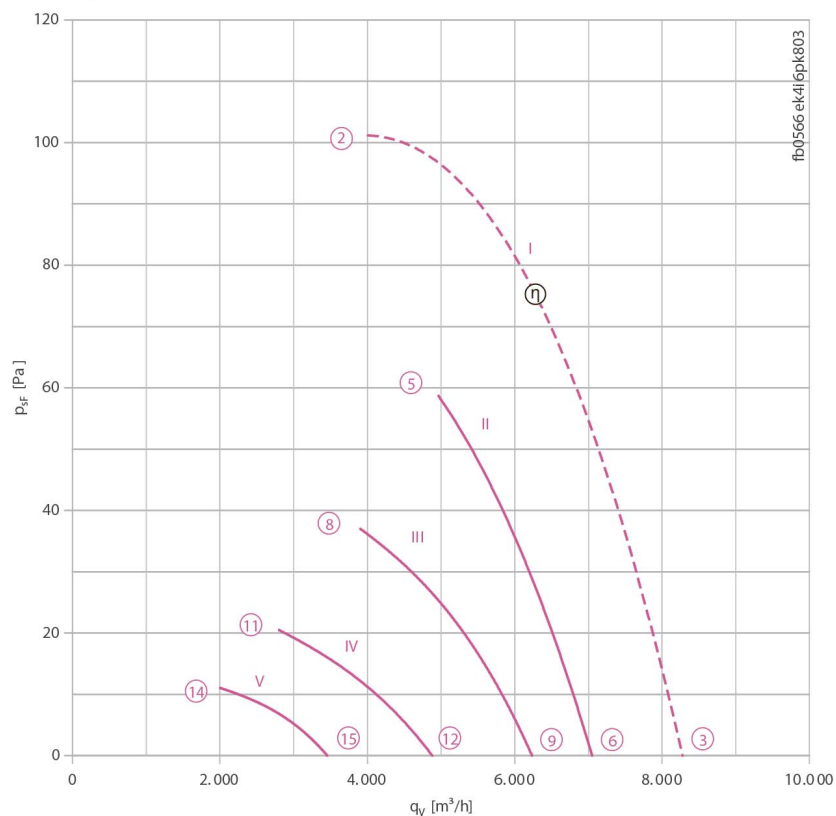
\* Rated data

\*\*ErP 2013

➤ Connection diagrams Page 608  
 for airflow direction V 1360-104XA  
 for airflow direction A 1360-104XB

➤ System components Page 524

## Characteristic curve

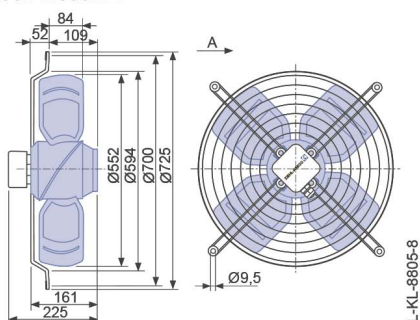


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

## Dimensions [mm]

Airflow direction A

Design W - axial bolted, mounting for short bell mouth E





# FB

for single phase alternating current, 8 pole

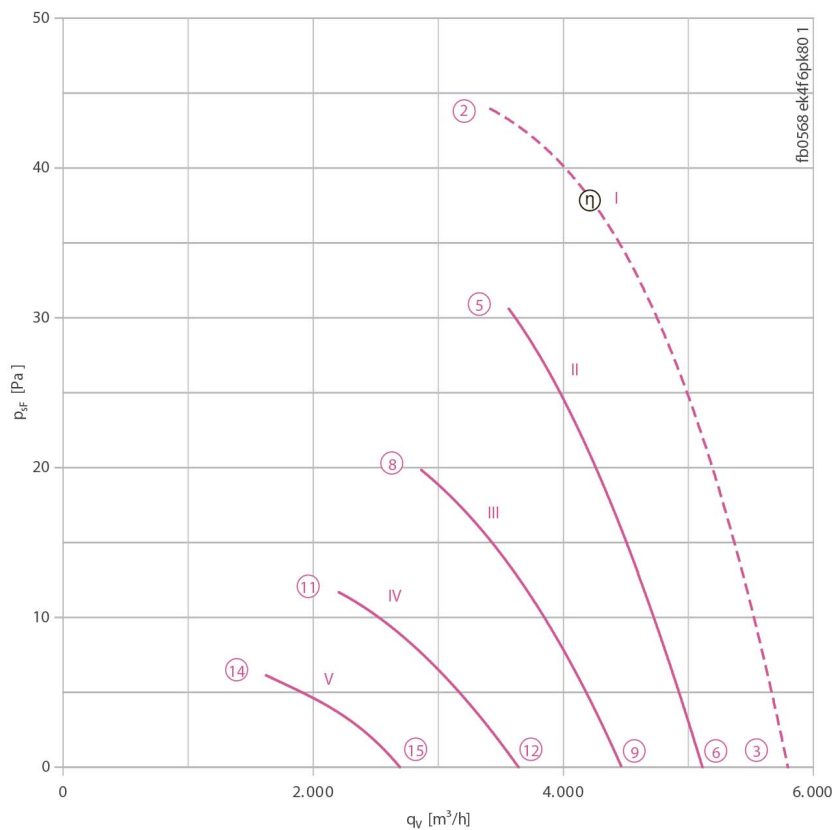
FB056-8E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : **1~ 230 V±10 %\***  
 Rated frequency  $f_N$ : **50 Hz\*** (60Hz data available)  
 Motor input power  $P_i$ : **0.22 kW\***  
 Rated current  $I_N$ : **1.10 A\***  
 Rated speed  $n_N$ : **680 min<sup>-1</sup>\***  
 Starting current  $I_A$ : 1.60 A  
 Current increase  $\Delta$ : 0 %  
 Service capacitor  $C_{400V}$ : 5.0  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

## Characteristic curve



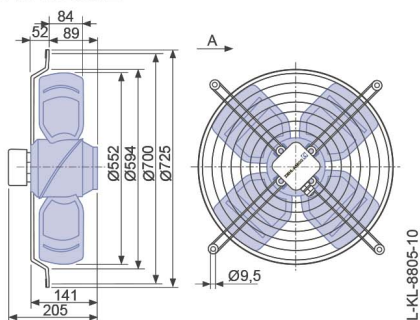
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagrams Page 608
  - for airflow direction V 1360-104XA
  - for airflow direction A 1360-104XB
- System components Page 524

## Dimensions [mm]

Airflow direction A ➔

Design W - axial bolted, mounting for short bell mouth E







# FB

for three phase alternating current, 4-4 pole

FB056-VD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_i$ : 0.84/0.64 kW\*  
 Rated current  $I_N$ : 1.65/1.05 A\*  
 Rated speed  $n_N$ : 1360/1090 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 6.00 A / 2.00 A  
 Current increase  $\Delta I$ : 10 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 40 °C  
 Electrical connection: Terminal box  
 Number of blades: 4  
 Protection class: IP54  
 Motor protection: Thermal contact  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, uncoated  
 Conformity: ErP 2015, CE

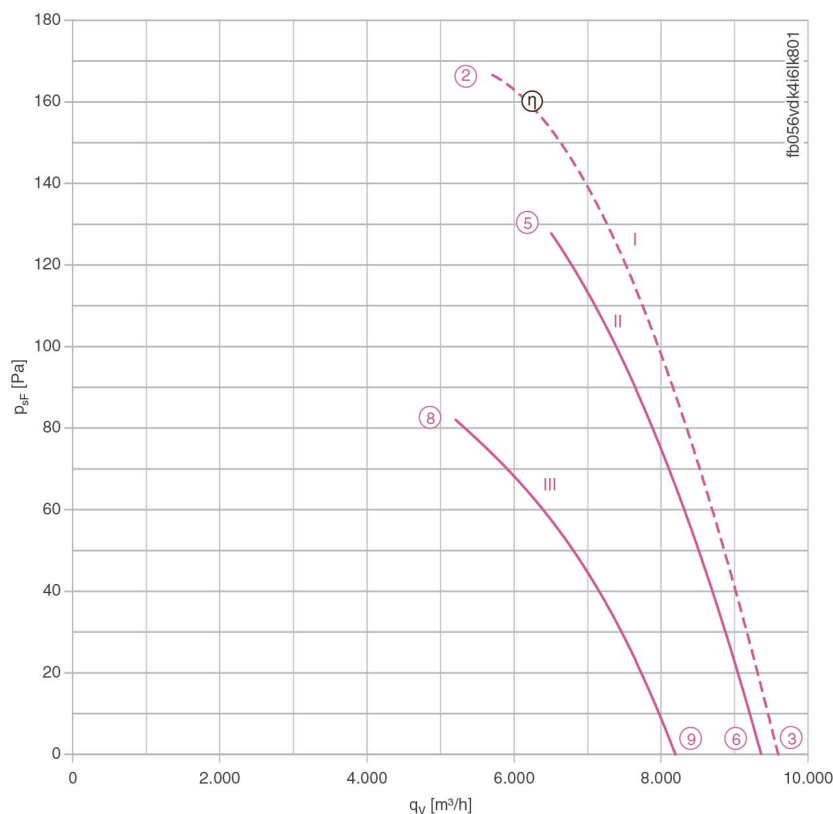
## ErP Data

Efficiency  $\eta_{statA}$ : 37.9 %  
 Efficiency:  $N_{actual} = 45.0 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

➤ Connection diagrams Page 608  
 for airflow direction V 1360-108XA  
 for airflow direction A 1360-108XB

➤ System components Page 524

## Characteristic curve

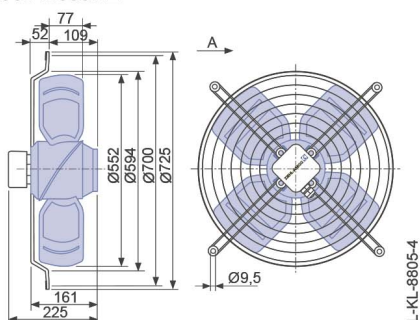


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

## Dimensions [mm]

Airflow direction A

Design W - axial bolted, mounting for short bell mouth E

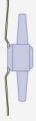



### Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	Max. permitted media temperature $t_m$ [°C]
			U [V]		I [A]	$P_i$ [W]	n [min <sup>-1</sup> ]	$L_{WAS}$ [dB]	
FB056-VD_4I_4L	Δ	I	400*	②	1.65*	840*	1360*		40
			400	③	1.25	570	1410	79	
			400	⑤	1.45	760	1370	80	
	Y	III	400	⑥	1.20	540	1420	80	50
			400	⑧	0.97	580	1110	76	
			400	⑨	0.76	450	1230	77	

\*rated data

### Fan ordering information

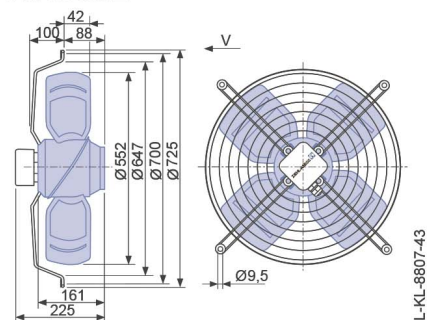
Airflow direction A		Airflow direction V	
Design	W		K
			
Type	FB056-VDW.4I.A4L		FB056-VDK.4I.V4L
Article no.	127411		124384
Weight [kg]	12.10		12.10

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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### Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



# FB

for three phase alternating current, 6-6 pole

FB056-SD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10$  %  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.28/0.18 kW\*  
 Rated current  $I_N$ : 0.68/0.39 A\*  
 Rated speed  $n_N$ : 910/ 660 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.80 A / 0.50 A  
 Current increase  $\Delta$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

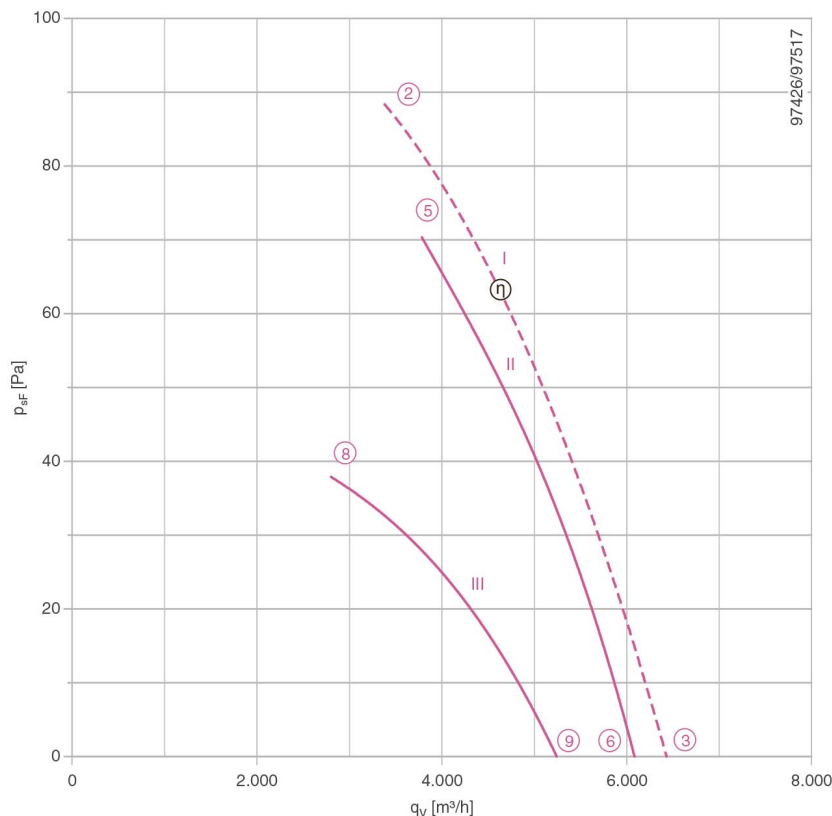
## ErP Data

Efficiency  $\eta_{statA}$ : 34.0 %  
 Efficiency:  $N_{actual} = 44.2 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

➤ Connection diagrams Page 608  
 for airflow direction V 1360-108XA  
 for airflow direction A 1360-108XB

➤ System components Page 524

## Characteristic curve

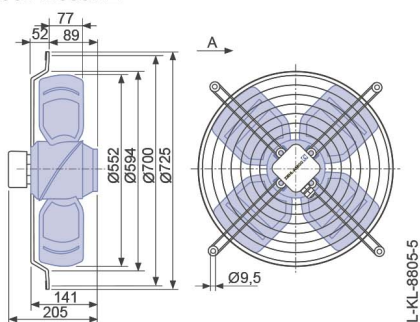


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

## Dimensions [mm]

Airflow direction A

Design W - axial bolted, mounting for short bell mouth E







# FB

for three phase alternating current, 6-6 pole

FB056-SD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_i$ : 0.41/0.25 kW\*  
 Rated current  $I_N$ : 0.90/0.50 A\*  
 Rated speed  $n_N$ : 890/ 610 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 2.40 A / 0.70 A  
 Current increase  $\Delta$ : 5 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 65 °C  
 Electrical connection: Terminal box  
 Number of blades: 4  
 Protection class: IP54  
 Motor protection: Thermal contact  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, uncoated  
 Conformity: ErP 2013, CE

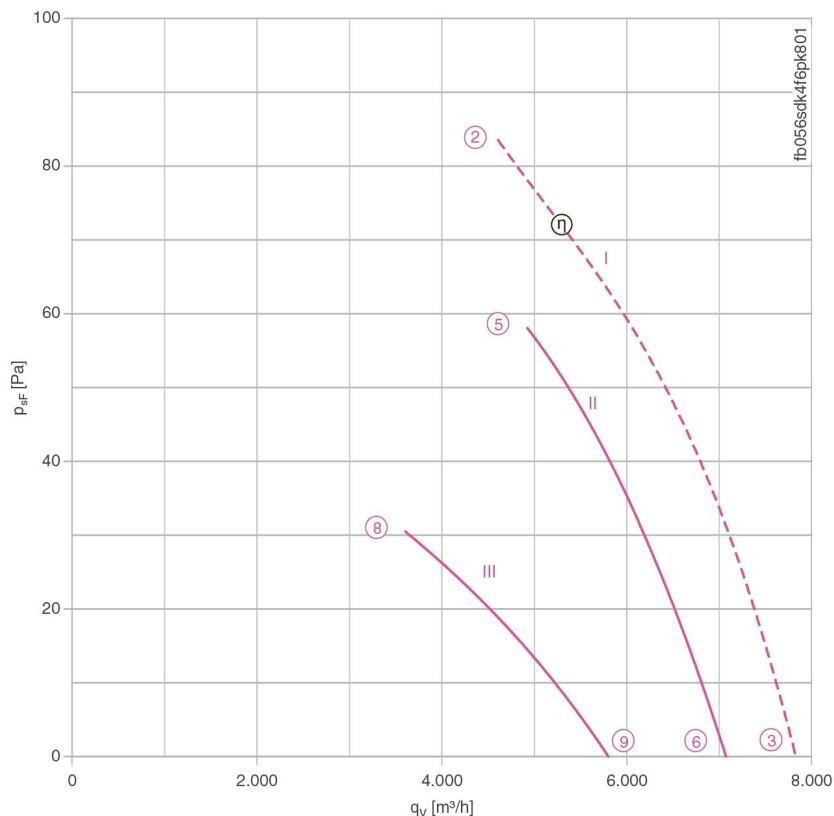
## ErP Data

Efficiency  $\eta_{statA}$ : 28.7 %  
 Efficiency:  $N_{actual} = 37.9 / N_{target} = 36$ \*\*  
 \* Rated data  
 \*\*ErP 2013

➤ Connection diagrams Page 608  
 for airflow direction V 1360-108XA  
 for airflow direction A 1360-108XB

➤ System components Page 524

## Characteristic curve

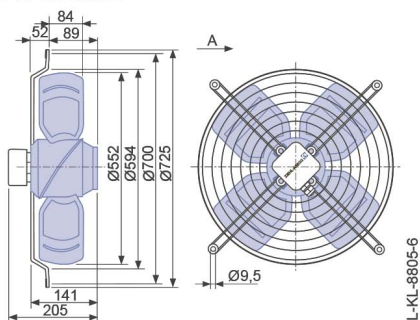


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

## Dimensions [mm]

Airflow direction A

Design W - axial bolted, mounting for short bell mouth E



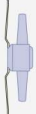



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	Max. permitted media temperature $t_m$ [°C]
			U [V]		I [A]	$P_i$ [W]	n [min <sup>-1</sup> ]	$L_{WA5}$ [dB]	
FB056-SD_4F_4P	Δ	I	400*	②	0.90*	410*	890*		65
			400	③	0.81	330	920	73	
		II	400	⑤	0.83	350	910	72	70
	Y	III	400	⑥	0.78	290	920	71	
			400	⑧	0.46	230	670	66	
		400	⑨	0.42	210	760	66		

\*rated data

Fan ordering information

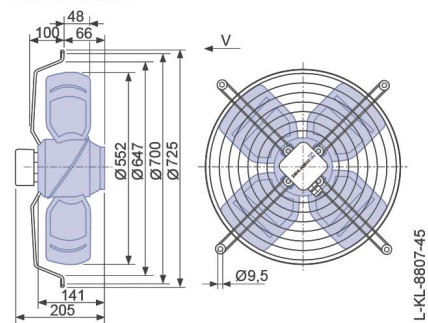
Airflow direction A		Airflow direction V	
Design	W		K
			
Type	FB056-SDW.4F.A4P		FB056-SDK.4F.V4P
Article no.	106942		108039
Weight [kg]	10.30		10.30

Control technology

Frequency inverter Fcontrol 3~  Page 558	Motor protection units 3~  Page 596	Transformer-based controllers 3~  Page 591	Electronic voltage controllers 3~  Page 578
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Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



# FB

for three phase alternating current, 6-6 pole

FB056-SD



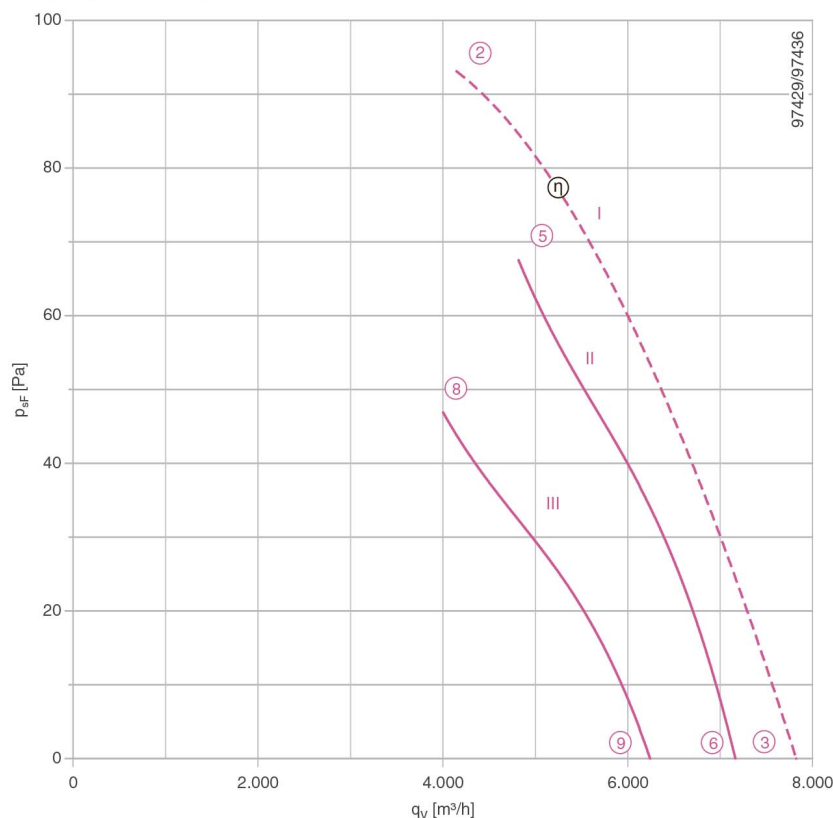
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_i$ : 0.34/0.25 kW\*  
 Rated current  $I_N$ : 0.64/0.41 A\*  
 Rated speed  $n_N$ : 910/ 750 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 36.5 %  
 Efficiency:  $N_{actual} = 46.0 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

Characteristic curve



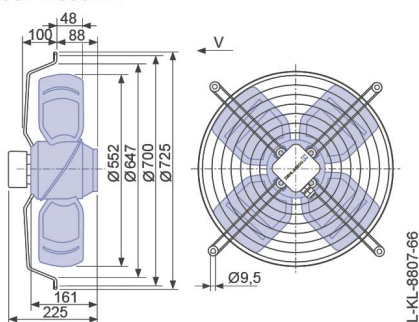
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram      1360-108XA      Page 608
- System components                      Page 524

## Dimensions [mm]



Design K - axial bolted, mounted for short bell mouth E



### Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	
			U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	L <sub>WA5</sub> [dB]	
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



Design K



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

Weight [kg] 12.10

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>Page 558</p>	<p>Motor protection units 3~</p>  <p>Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>Page 578</p>
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- Information
- FE2owlet  
ECblue
- FE2owlet
- FB
- FC
- System  
components
- Control  
technology
- Appendix

# FB

for three phase alternating current, 8-8 pole

FB056-AD



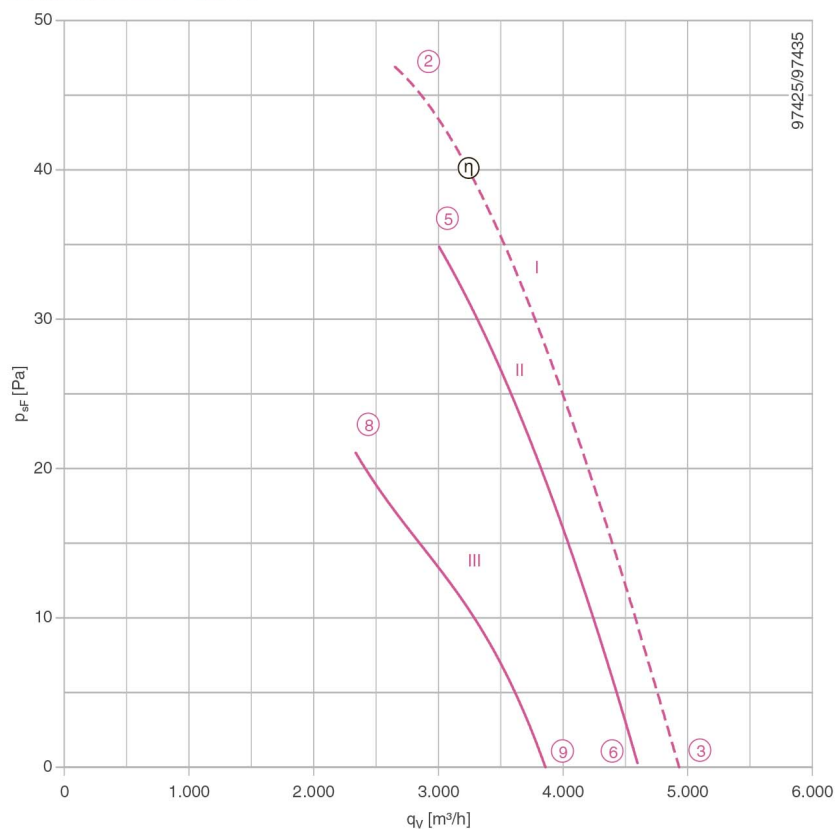
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10$  %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_i$ : 0.13/0.08 kW\*  
 Rated current  $I_N$ : 0.29/0.15 A\*  
 Rated speed  $n_N$ : 660/ 500 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

Is not subject to the ErP Guidelines ( $P_i < 125$  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.

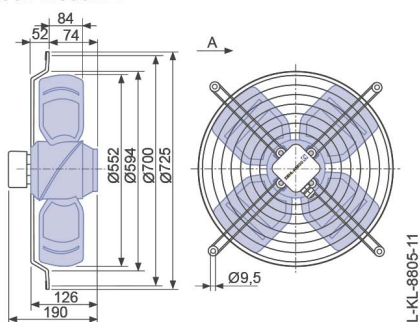
➤ Connection diagram 1360-108XA Page 608

➤ System components Page 524

## Dimensions [mm]

Airflow direction A

Design W - axial bolted, mounting for short bell mouth E









### Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	$L_{WAS}$ [dB]
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



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

Weight [kg] 17.40

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for single phase alternating current, 6 pole

FBO63-6E



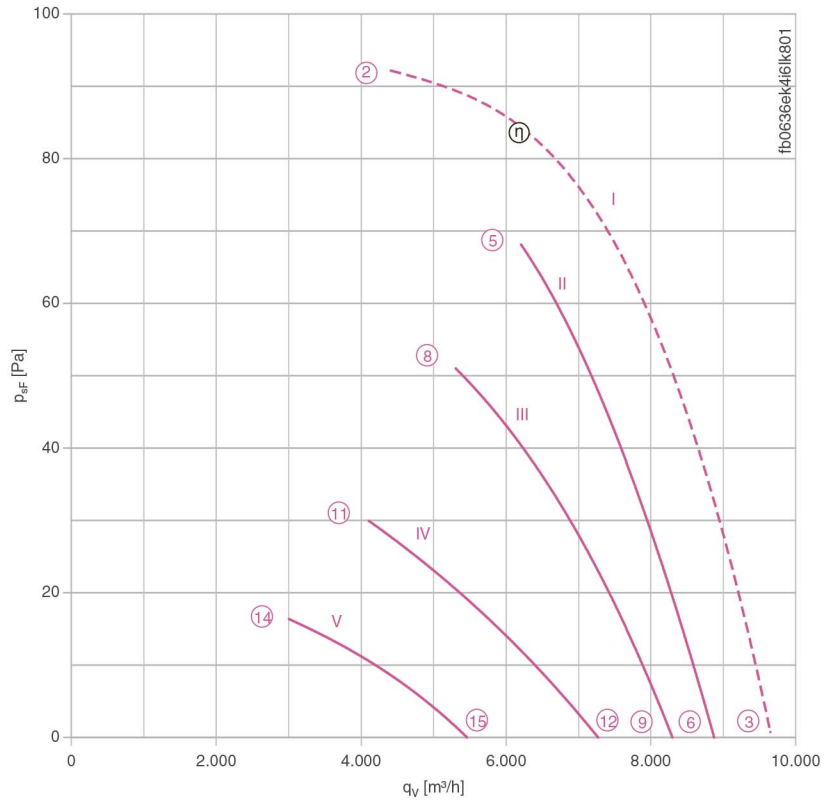
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.47 kW\*  
 Rated current  $I_N$ : 2.30 A\*  
 Rated speed  $n_N$ : 920 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 5.50 A  
 Current increase  $\Delta I$ : 15 %  
 Service capacitor  $C_{400V}$ : 10.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 33.1 %  
 Efficiency:  $N_{actual} = 41.4 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



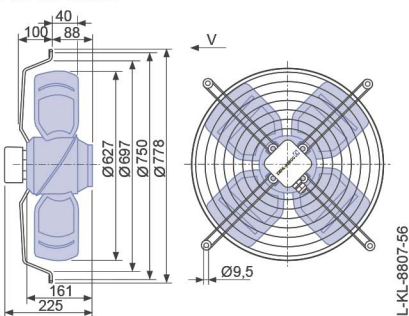
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



### Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	Max. permitted media temperature
		U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	L <sub>WA5</sub> [dB]	
FB063-6E_4I.V4L	I	230*	②	2.40*	520*	910*		55
		230	③	2.10	400	950	76	
	II	230	⑤	2.20	490	930	76	65
		230	⑥	1.95	410	950	74	
	III	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



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

Weight [kg] 12.80

### Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 6 pole

FBO63-6E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.63 kW\*  
 Rated current  $I_N$ : 3.00 A\*  
 Rated speed  $n_N$ : 860 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 5.50 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 12.0  $\mu$ F  
 Thermal class: **THCL155**\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 40 °C  
 Electrical connection: Terminal box  
 Number of blades: 4  
 Protection class: IP54  
 Motor protection: Thermal contact  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, uncoated  
 Conformity: ErP 2013, CE

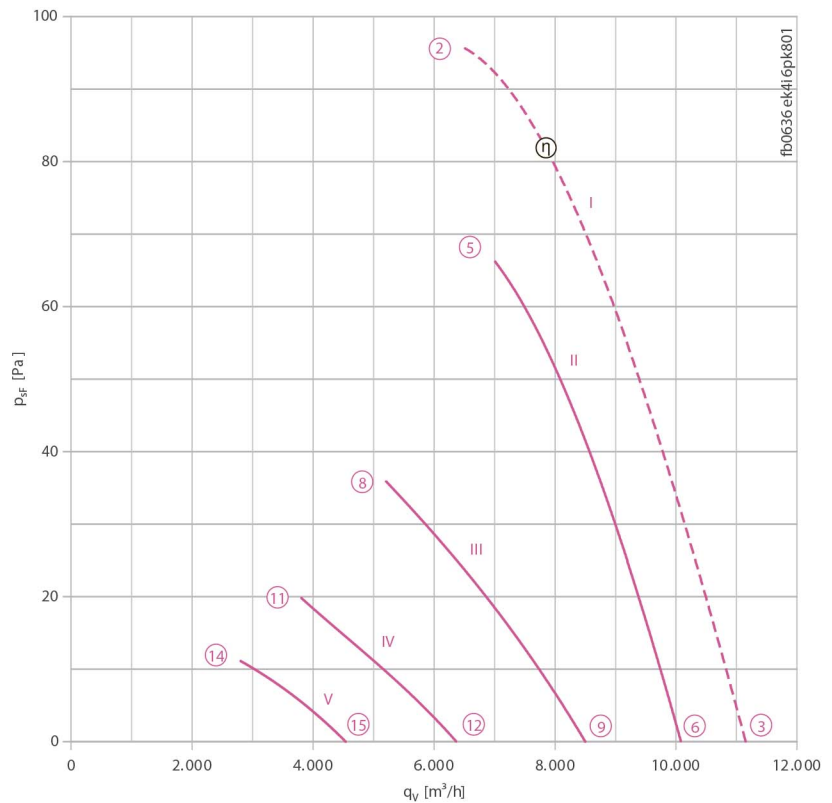
### ErP Data

Efficiency  $\eta_{statA}$ : 28.3 %  
 Efficiency:  $N_{actual} = 36.1 / N_{target} = 36$ \*\*

\* Rated data

\*\*ErP 2013

## Characteristic curve



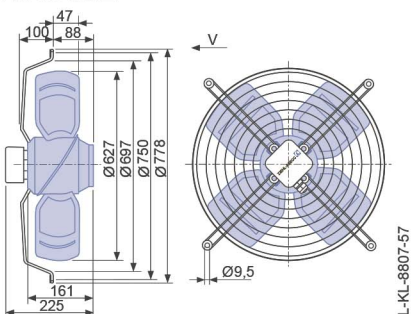
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]



Design K - axial bolted, mounted for short bell mouth E



### Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	Max. permitted media temperature
		U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	L <sub>WA5</sub> [dB]	
FB063-6E_4I.V4P	I	230*	②	3.00*	630*	860*		40
		230	③	2.60	550	910	78	
	II	230	⑤	2.70	590	900	78	50
		230	⑥	2.30	520	930	76	
	III	160	⑧	3.00	450	670	70	
		160	⑨	2.70	410	780	72	
	IV	130	⑪	2.70	320	490	61	
		130	⑫	2.60	310	580	64	
	V	105	⑭	2.30	210	370	54	
		105	⑮	2.30	210	410	55	

\*rated data

### Fan ordering information

**Airflow direction V**

Design K



Type **FB063-6EK.4I.V4P**  
Article no. **109104**

Weight [kg] 12.80

### Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 8 pole

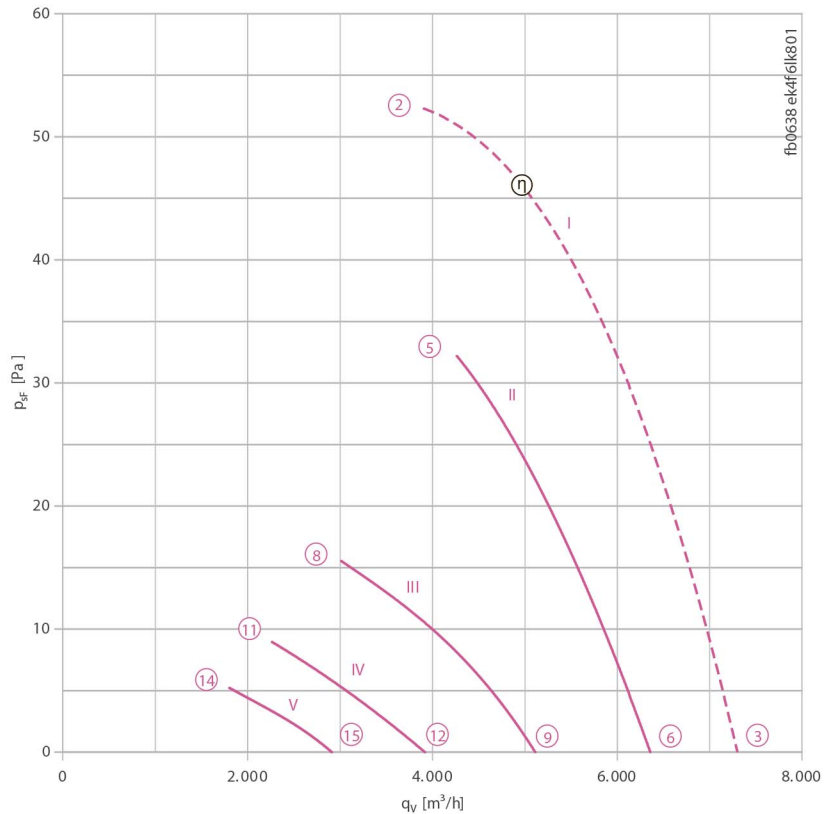
FBO63-8E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V±10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.25 kW\*  
 Rated current  $I_N$ : 1.15 A\*  
 Rated speed  $n_N$ : 650 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.85 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 5.0  $\mu F$   
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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



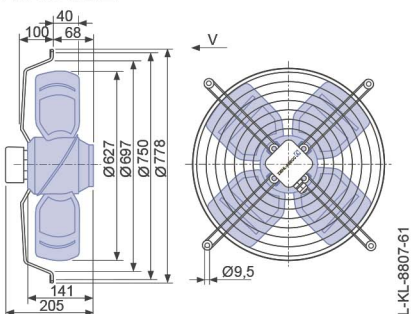
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E





## Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	$L_{WAS}$ [dB]
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



Type **FB063-8EK.4F.V4L**

Article no. **124172**

Weight [kg] 11.10

## Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 8 pole

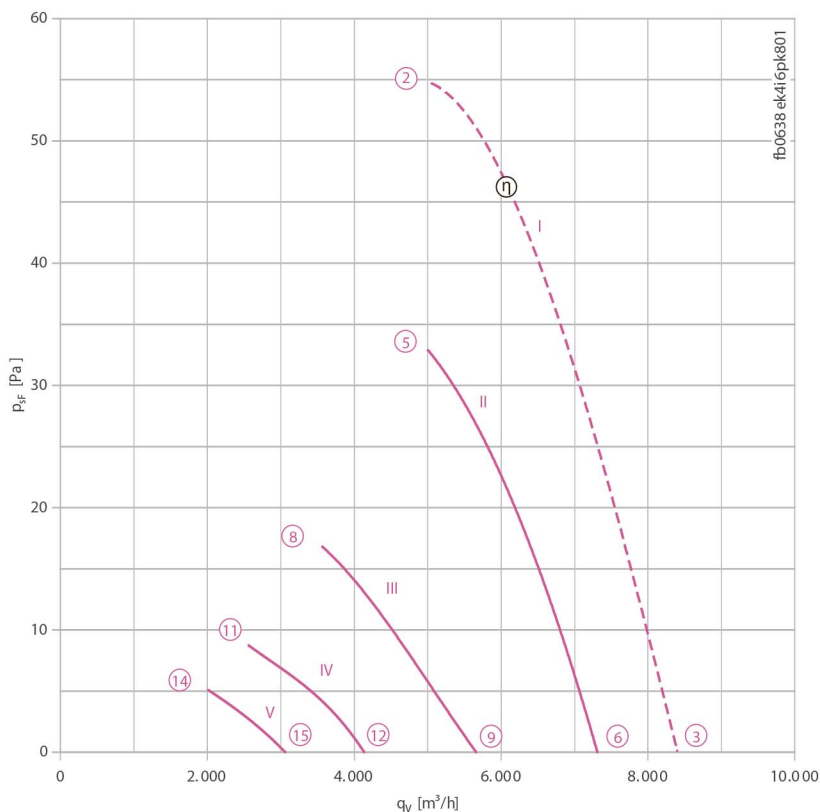
FBO63-8E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.31 kW\*  
 Rated current  $I_N$ : 1.55 A\*  
 Rated speed  $n_n$ : 650 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 2.20 A  
 Current increase  $\Delta I$ : 5 %  
 Service capacitor  $C_{400V}$ : 6.0  $\mu$ F  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

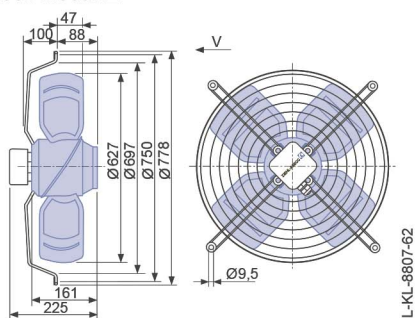


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



## Performance data


Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WAS}$ [dB]
		U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	
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



Type **FB063-8EK.4I.V4P**

Article no. **108187**

Weight [kg] 12.80

## Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for single phase alternating current, 8 pole

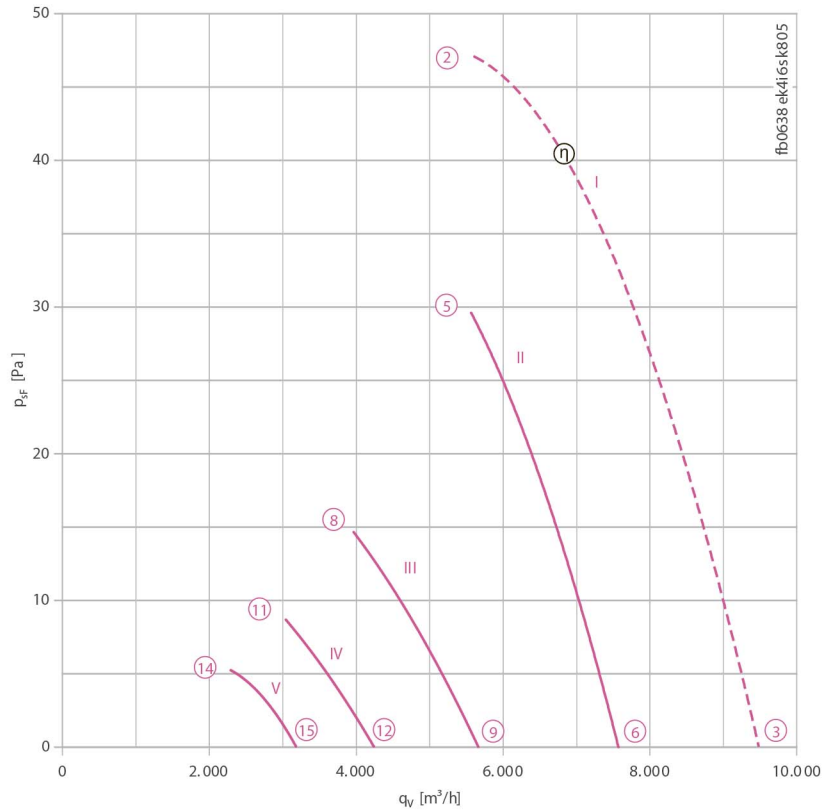
FBO63-8E



### Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.36 kW\*  
 Rated current  $I_N$ : 1.70 A\*  
 Rated speed  $n_N$ : 600 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 2.40 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 8.0  $\mu$ F  
 Thermal class: **THCL155**\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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

### Characteristic curve

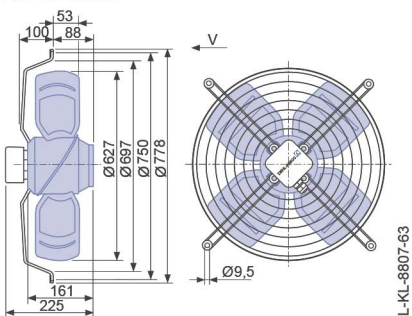


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-104XA Page 608
- System components Page 524

### Dimensions [mm]

Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



### Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	Max. permitted media temperature
		U [V]		I [A]	P <sub>1</sub> [W]	n [min <sup>-1</sup> ]	L <sub>WA5</sub> [dB]	
FB063-8E_4I.V4S	I	230*	②	1.70*	360*	600*		60
		230	③	1.55	330	630	73	
	II	230	⑤	1.60	340	620	69	65
		230	⑥	1.50	320	640	69	
	III	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	
	V	105	⑭	1.05	92	250		
		105	⑮	1.00	91	270		

\*rated data

### Fan ordering information

**Airflow direction V**

Design K



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

Weight [kg] 12.80

### Control technology

<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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# FB

for three phase alternating current, 4-4 pole

FBO63-VD



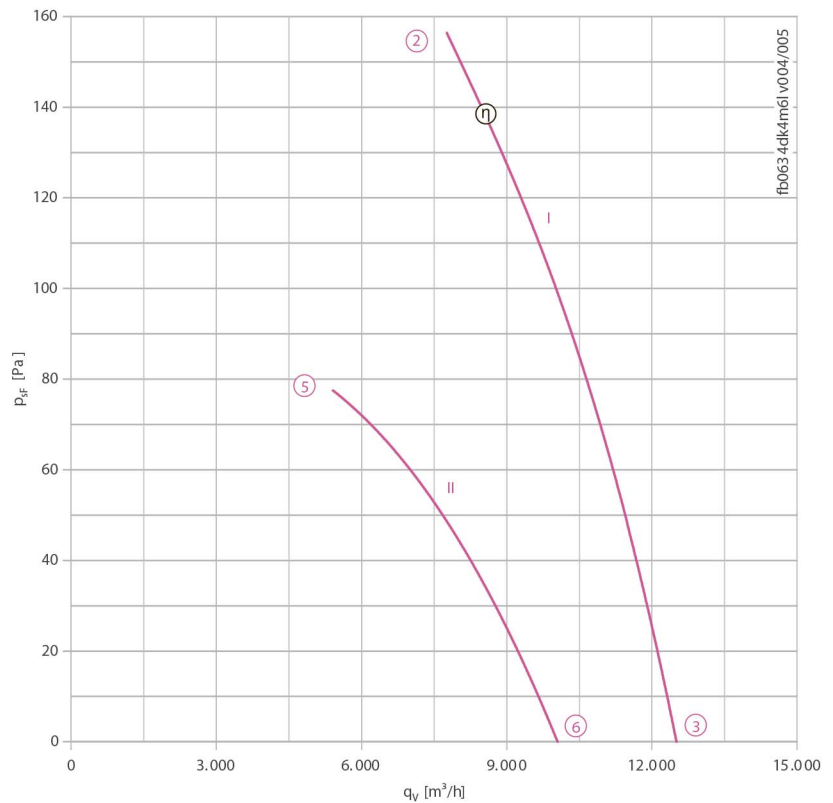
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor 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<sup>-1</sup>\*  
 Starting current  $I_A$ : 7.00 A / 2.40 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 38.5 %  
 Efficiency:  $N_{actual} = 44.7 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



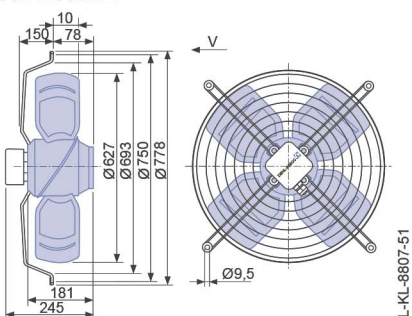
I) Measured in short bell mouth with guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E





### Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
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



Type **FB063-VDK.4M.V4L**  
Article no. **135044**  
Weight [kg] 17.40

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 6-6 pole

FBO63-SD



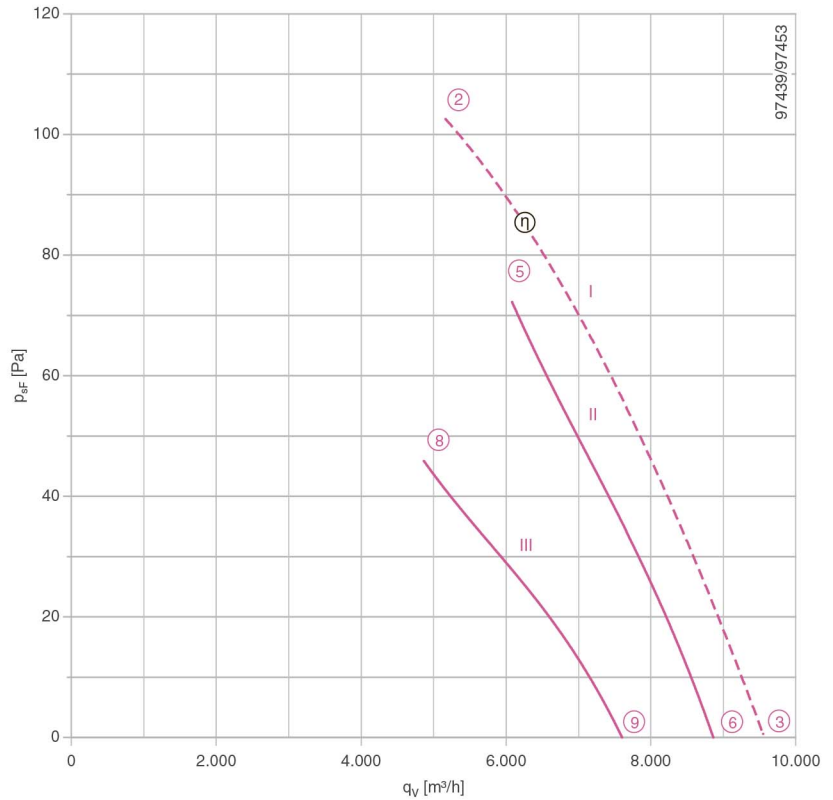
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor 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<sup>-1</sup>\*  
 Starting current  $I_A$ : 2.80 A / 0.90 A  
 Current increase  $\Delta I$ : 10 %  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 38.4 %  
 Efficiency:  $N_{actual} = 47.3 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



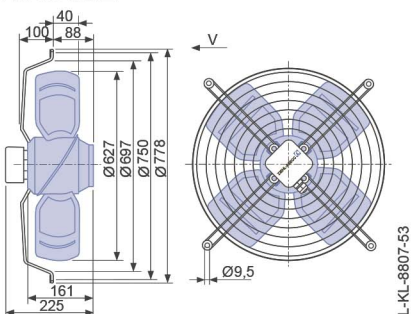
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



### Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
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	II	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



Design K



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

Weight [kg] 12.80

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 6-6 pole

FBO63-SD



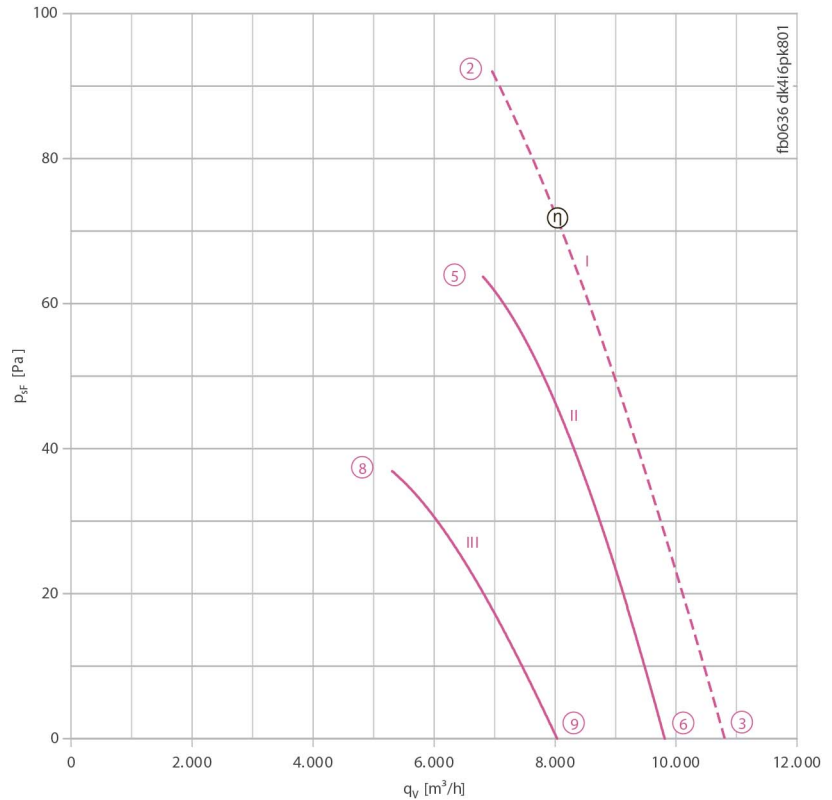
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10$  %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.48/0.32 kW\*  
 Rated current  $I_N$ : 0.93/0.51 A\*  
 Rated speed  $n_N$ : 870/ 680 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 2.80 A / 0.90 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 30.5 %  
 Efficiency:  $N_{actual} = 40.5 / N_{target} = 40$ \*\*  
 Frequency inverter required  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



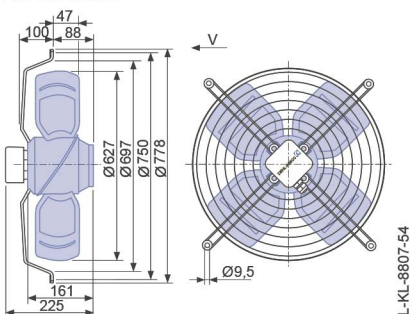
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



## Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB063-SD_4I.V4P	Δ	I	400*	②	0.93*	480*	870*	
			400	③	0.85	380	910	78
			400	⑤	0.89	500	890	77
	Y	II	400	⑥	0.79	420	910	76
			400	⑧	0.57	350	680	69
			400	⑨	0.52	320	730	70

\*rated data

## Fan ordering information

← Airflow direction V

Design

K



Type **FB063-SDK.4I.V4P**

Article no. **124169**

Weight [kg] 12.80

## Control technology

Frequency inverter  
Fcontrol 3~



➤ Page 558

Motor protection units  
3~



➤ Page 596

Transformer-based  
controllers 3~



➤ Page 591

Electronic voltage  
controllers 3~



➤ Page 578

# FB

for three phase alternating current, 6-6 pole

FBO63-SD



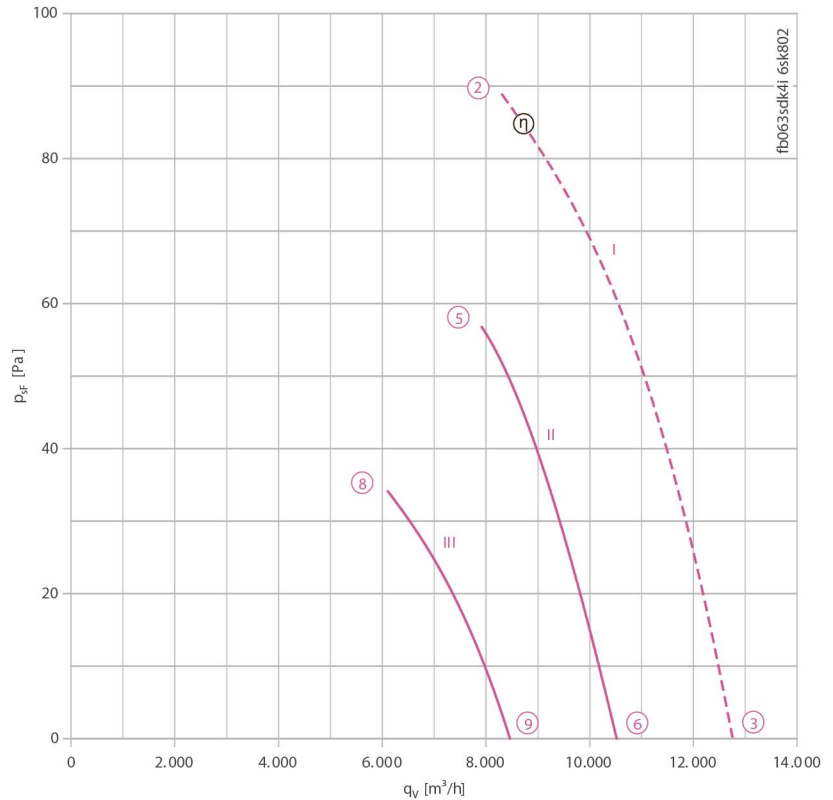
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.72/0.47 kW\*  
 Rated current  $I_N$ : 1.40/0.79 A\*  
 Rated speed  $n_N$ : 870/ 650 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 4.40 A / 1.40 A  
 Current increase  $\Delta I$ : 5 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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 2013, CE

## ErP Data

Efficiency  $\eta_{statA}$ : 28.7 %  
 Efficiency:  $N_{actual} = 36.1 / N_{target} = 36$ \*\*  
 \* Rated data  
 \*\*ErP 2013

## Characteristic curve

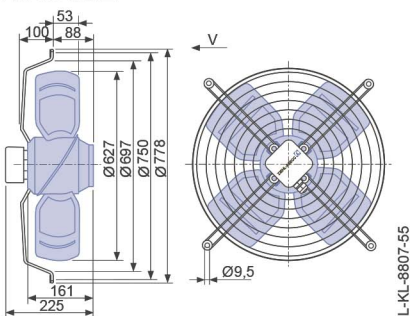


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

← Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E





## Performance data

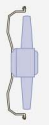
Type	Connection	Characteris- tic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level	Max. permitted media tem- perature $t_{tr}$ [°C]
			U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	$L_{WAS}$ [dB]	
FB063-SD_4I.V4S	Δ	I	400*	②	1.40*	720*	870*		55
			400	③	1.30	550	910	83	65
			400	⑤	1.25	670	890	78	
	Y	III	400	⑥	1.15	610	910	78	
			400	⑧	0.77	470	680	70	
			400	⑨	0.72	440	720	73	

\*rated data

## Fan ordering information



Design K



**Type** FB063-SDK.4I.V4S  
**Article no.** 210548

Weight [kg] 12.80

## Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 8-8 pole

FBO63-AD



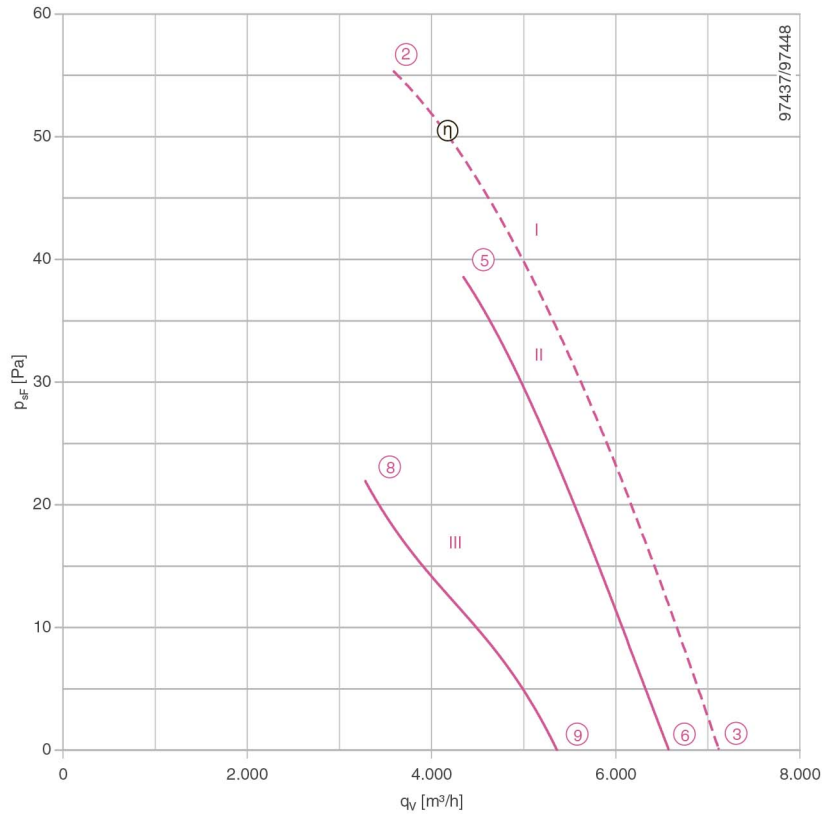
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.22/0.12 kW\*  
 Rated current  $I_N$ : 0.57/0.27 A\*  
 Rated speed  $n_N$ : 650/ 470 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.20 A / 0.36 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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  $\eta_{statA}$ : 28.1 %  
 Efficiency:  $N_{actual} = 40.6 / N_{target} = 40$ \*\*  
 Frequency inverter required  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve

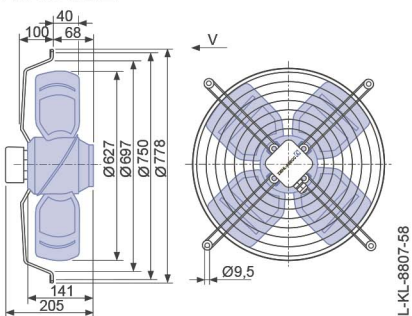


I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

← Airflow direction V  
 Design K - axial bolted, mounted for short bell mouth E



## Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WA5}$ [dB]		
			U [V]							
FB063-AD_.4F.V4L	Δ	I	400*	②	0.54*	220*	670*			
			400	③	0.48	155	700	67		
			400	⑤	0.51	200	640	65		
		II	400	⑥	0.48	170	670	64		
			Y	III	400	⑧	0.24	115	450	59
					400	⑨	0.21	100	540	59

\*rated data

## Fan ordering information

← Airflow direction V

Design K



Type **FB063-ADK.4F.V4L**

Article no. **124171**

Weight [kg] 11.10

## Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 8-8 pole

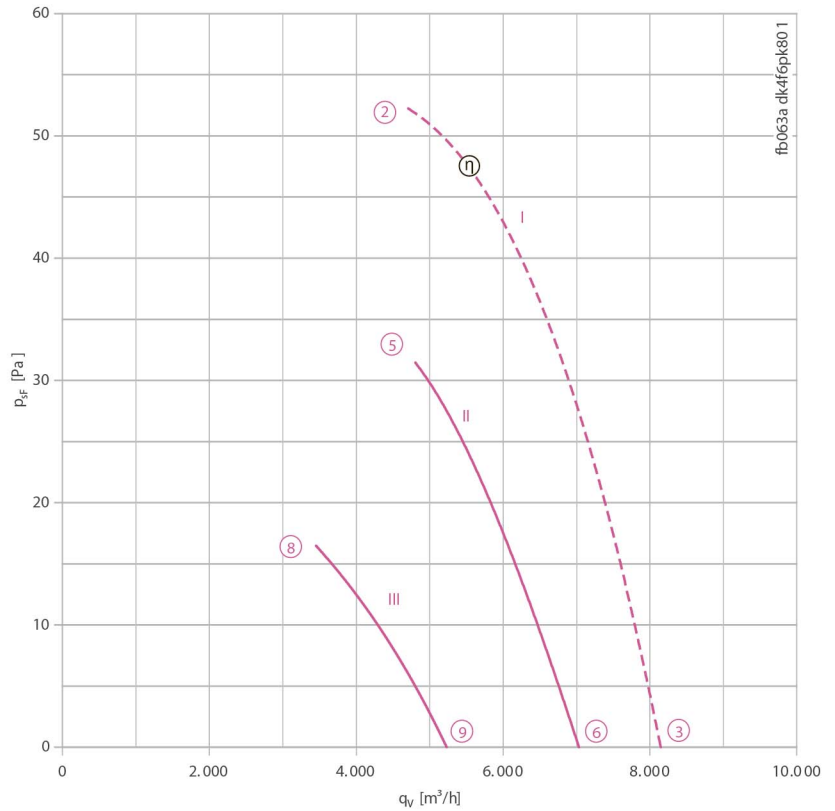
FBO63-AD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_i$ : 0.26/0.16 kW\*  
 Rated current  $I_N$ : 0.59/0.30 A\*  
 Rated speed  $n_N$ : 640/ 470 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 1.20 A / 0.36 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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



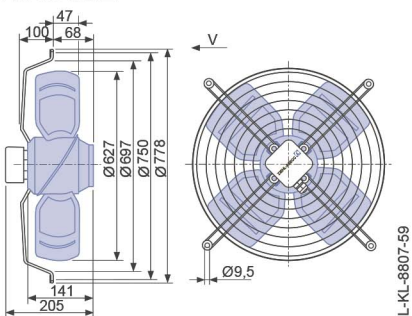
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.  
 II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

## Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



## Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
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



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

Weight [kg] 11.10

## Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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# FB

for three phase alternating current, 8-8 pole

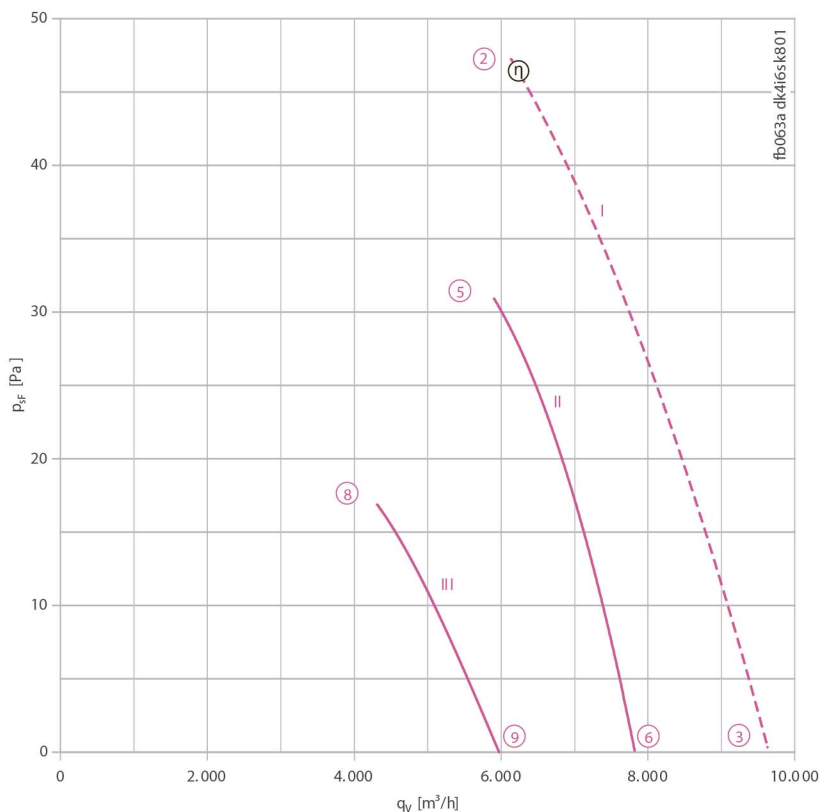
FBO63-AD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.35/0.22 kW\*  
 Rated current  $I_N$ : 0.77/0.40 A\*  
 Rated speed  $n_N$ : 640/ 470 min<sup>-1</sup>\*  
 Starting current  $I_A$ : 2.10 A / 0.70 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 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.

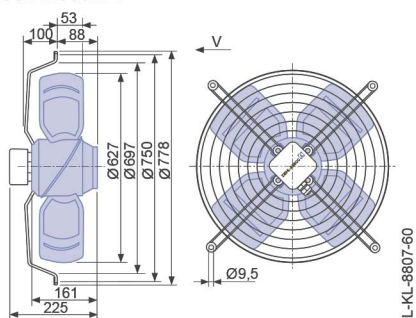
➤ Connection diagram 1360-108XA Page 608

➤ System components Page 524

## Dimensions [mm]



Design K - axial bolted, mounted for short bell mouth E





### Performance data


Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]					
FB063-AD_4I.V4S	Δ	I	400*	②	0.77*	350*	640*	
			400	③	0.71	280	680	75
			400	⑤	0.69	340	650	69
	Y	II	400	⑥	0.66	310	670	69
			400	⑧	0.40	230	480	62
			400	⑨	0.37	210	500	64

\*rated data

### Fan ordering information



Design K



Type **FB063-ADK.4I.V4S**  
Article no. **107775**

Weight [kg] 12.80

### Control technology

<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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