

Size	Voltage	Number of poles	Type	Airflow direction	ErP	Page
250 mm	1~ 230 V	2	FN025-2E_WA_7	⇒ A ⇐ V	-	126
		4	FN025-4E_W8_7	⇒ A ⇐ V	-	128
300 mm	1~ 230 V	4	FN030-4E_WA_7	⇒ A ⇐ V	-	130
			FN030-4E_WC_7	⇒ A ⇐ V	-	132
310 mm	1~ 230 V	4	FN031-4E_WD_7	⇒ A ⇐ V	-	134
			FN031-4E_0F.V7P2	⇐ V	-	136
			FN031-4D_0F.V7P2	⇐ V	-	138
350 mm	1~ 230 V	4	FN035-4E_WD_7	⇒ A ⇐ V	-	140
			FN035-4E_WD_7	⇒ A ⇐ V	2013	142
			FN035-4E_0F_7P2	⇒ A ⇐ V	2013 *	144
			FN035-6E_0C_7P2	⇒ A ⇐ V	-	146
			FN035-VD_0F_7P2	⇒ A ⇐ V	2015	148
400 mm	1~ 230 V	4	FN040-4E_0F_7P1	⇒ A ⇐ V	2015	150
			FN040-4E_0F_7P2	⇒ A ⇐ V	2015	152
			FN040-4E_2F_7P1	⇒ A ⇐ V	2013	154
			FN040-6E_0F_7P1	⇒ A ⇐ V	-	156
			FN040-VD_0F_7P1	⇒ A ⇐ V	2015	158
			FN040-VD_0F_7P2	⇒ A ⇐ V	2015	160
420 mm	1~ 230 V	4	FN042-4E_2F_7P1	⇒ A ⇐ V	2013	162
			FN042-6E_0F_7P1	⇒ A ⇐ V	-	164
			FN042-VD_2F_7P1	⇒ A ⇐ V	2015	166
			FN042-SD_2C_7P1	⇒ A ⇐ V	-	168
450 mm	1~ 230 V	4	FN045-4E_4I_7P1	⇒ A ⇐ V	2013	170
			FN045-4E_2F_7P2	⇒ A ⇐ V	2013	172
			FN045-6E_2F_7P3	⇒ A ⇐ V	-	174
			FN045-6E_4F_7P1	⇒ A ⇐ V	2015 *	176
			FN045-VD_2F_7P2	⇒ A ⇐ V	2015 *	178
			FN045-VD_4F_7P1	⇒ A ⇐ V	2015	180
			FN045-SD_2C_7P3	⇒ A ⇐ V	2013	182
FN045-SD_4F_7P1	⇒ A ⇐ V	2015	184			
500 mm	1~ 230 V	4	FN050-4E_4I_7P1	⇒ A ⇐ V	2013	186
			FN050-6E_4F_7P1	⇒ A ⇐ V	2013	188
			FN050-8E_4C_7P1	⇒ A ⇐ V	-	190
			FN050-VD_4I_7P1	⇒ A ⇐ V	2015	192
			FN050-SD_4F_7P1	⇒ A ⇐ V	2015	194
			FN050-AD_4C_7P1	⇒ A ⇐ V	-	196
560 mm	1~ 230 V	4	FN056-6E_4I_7P2	⇒ A ⇐ V	2013	198
			FN056-VD_4M_7P2	⇒ A ⇐ V	2015	200
			FN056-SD_4F_7P2	⇒ A ⇐ V	2015	202
			FN056-AD_4F_7P2	⇒ A ⇐ V	2013	204

* with ZIEHL-ABEGG frequency inverter

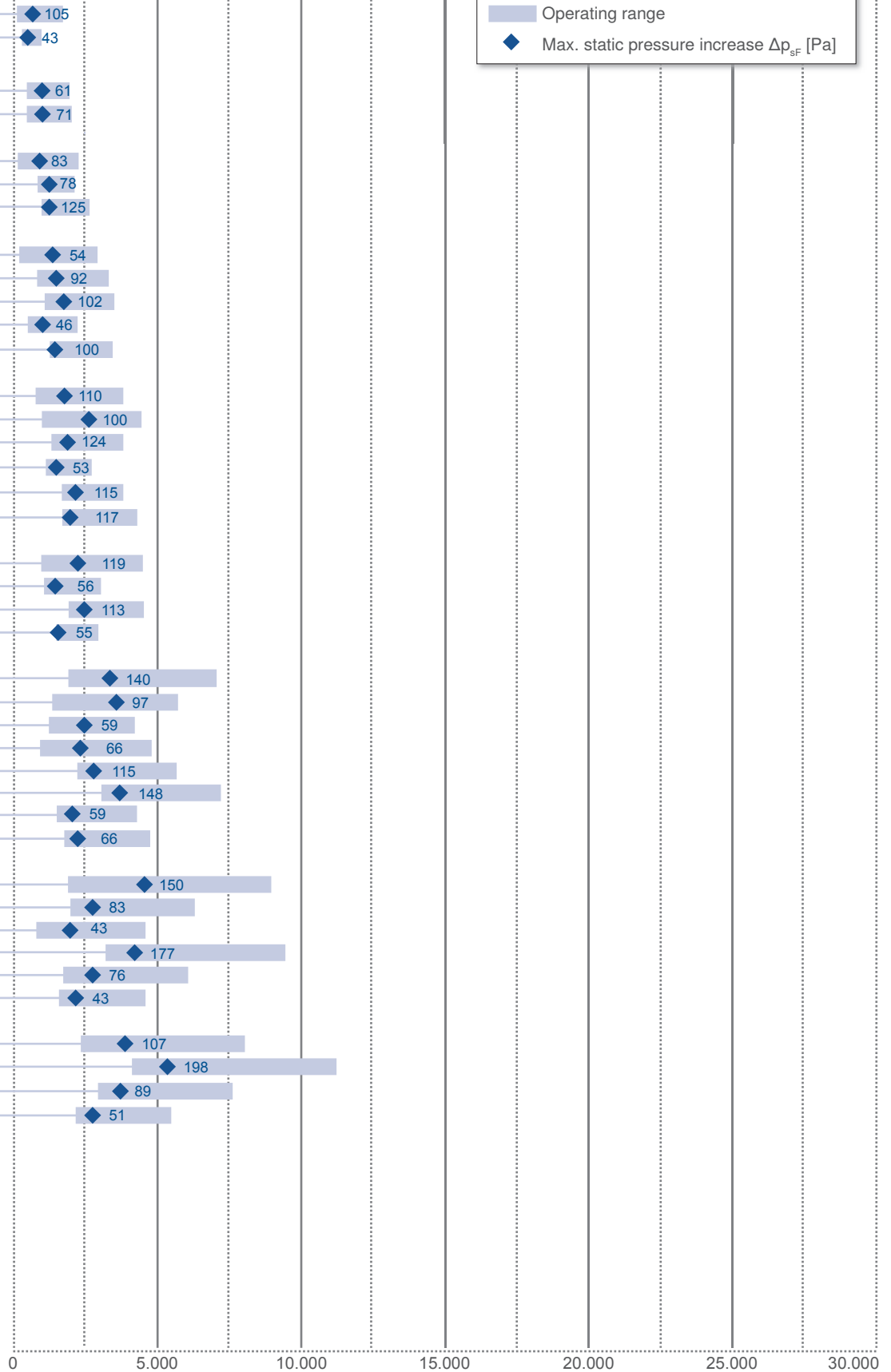
Air flow q_v in m³/h

Type

0 5.000 10.000 15.000 20.000 25.000 30.000

Operating range
◆ Max. static pressure increase Δp_{sF} [Pa]

- FN025-2E_WA_7
- FN025-4E_W8_7
- FN030-4E_WA_7
- FN030-4E_WC_7
- FN031-4E_WD_7
- FN031-4E_0F.V7P2
- FN031-4D_0F.V7P2
- FN035-4E_WD_7
- FN035-4E_WD_7
- FN035-4E_0F_7P2
- FN035-6E_0C_7P2
- FN035-VD_0F_7P2
- FN040-4E_0F_7P1
- FN040-4E_0F_7P2
- FN040-4E_2F_7P1
- FN040-6E_0F_7P1
- FN040-VD_0F_7P1
- FN040-VD_0F_7P2
- FN042-4E_2F_7P1
- FN042-6E_0F_7P1
- FN042-VD_2F_7P1
- FN042-SD_2C_7P1
- FN045-4E_4I_7P1
- FN045-4E_2F_7P2
- FN045-6E_2F_7P3
- FN045-6E_4F_7P1
- FN045-VD_2F_7P2
- FN045-VD_4F_7P1
- FN045-SD_2C_7P3
- FN045-SD_4F_7P1
- FN050-4E_4I_7P1
- FN050-6E_4F_7P1
- FN050-8E_4C_7P1
- FN050-VD_4I_7P1
- FN050-SD_4F_7P1
- FN050-AD_4C_7P1
- FN056-6E_4I_7P2
- FN056-VD_4M_7P2
- FN056-SD_4F_7P2
- FN056-AD_4F_7P2



0 5.000 10.000 15.000 20.000 25.000 30.000

Air flow q_v in m³/h

Information

FE2owlet
ECblue

FE2owlet

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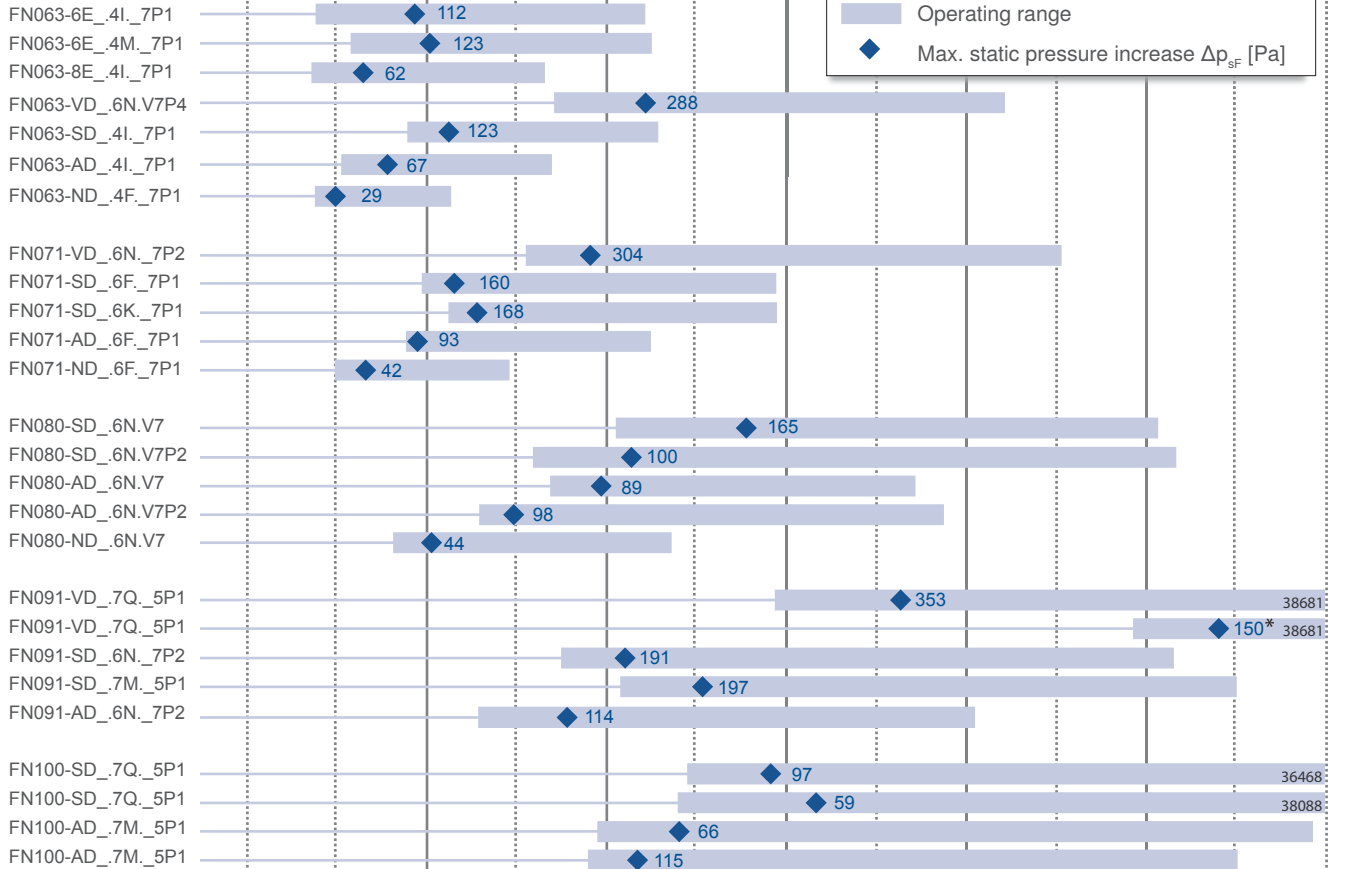
Size	Voltage	Number of poles	Type	Airflow direction	ErP	Page	
630 mm	1~ 230 V	6	FN063-6E_4I_7P1	→ - A - ← - V	2013	206	
			FN063-6E_4M_7P1	→ - A - ← - V	2013	208	
	3~ 400 V	8	FN063-8E_4I_7P1	→ - A - ← - V	-	210	
			4-4	FN063-VD_6N.V7P4	← - V	2013	212
			6-6	FN063-SD_4I_7P1	→ - A - ← - V	2015	214
			8-8	FN063-AD_4I_7P1	→ - A - ← - V	2013	216
			12-12	FN063-ND_4F_7P1	→ - A - ← - V	-	218
710 mm	3~ 400 V	4-4	FN071-VD_6N_7P2	→ - A - ← - V	2015	220	
			6-6	FN071-SD_6F_7P1	→ - A - ← - V	2015	222
			8-8	FN071-SD_6K_7P1	→ - A - ← - V	2015	224
			8-8	FN071-AD_6F_7P1	→ - A - ← - V	2015	226
			12-12	FN071-ND_6F_7P1	→ - A - ← - V	2015 *	228
800 mm	3~ 400 V	6-6	FN080-SD_6N.V7	← - V	2015	230	
			FN080-SD_6N.V7P2	← - V	2013	232	
			8-8	FN080-AD_6N.V7	← - V	2015	234
				FN080-AD_6N.V7P2	← - V	2013	236
			8-8	FN080-ND_6N.V7	← - V	2013	238
910 mm	3~ 400 V	4-4	FN091-VD_7Q_5P1	→ - A - ← - V	2015	240	
			FN091-VD_7Q_5P1	→ - A - ← - V	-	242	
		6-6	FN091-SD_6N_7P2	→ - A - ← - V	2015	244	
			FN091-SD_7M_5P1	→ - A - ← - V	2015	246	
			8-8	FN091-AD_6N_7P2	→ - A - ← - V	2015	248
1000 mm	3~ 400 V	6-6	FN100-SD_7Q_5P1	→ - A - ← - V	2015	250	
			FN100-SD_7Q_5P1	→ - A - ← - V	2015	252	
		8-8	FN100-AD_7M_5P1	→ - A - ← - V	2015	254	
			FN100-AD_7M_5P1	→ - A - ← - V	2015	256	

* with ZIEHL-ABEGG frequency inverter

Air flow q_v in m^3/h

Type

0 5,000 10,000 15,000 20,000 25,000 30,000



* max. $q_v = 31313$
max. $psF = 150$

0 5,000 10,000 15,000 20,000 25,000 30,000

Air flow q_v in m^3/h

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FE2owlet

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FE2owlet

for single phase alternating current, 4 pole

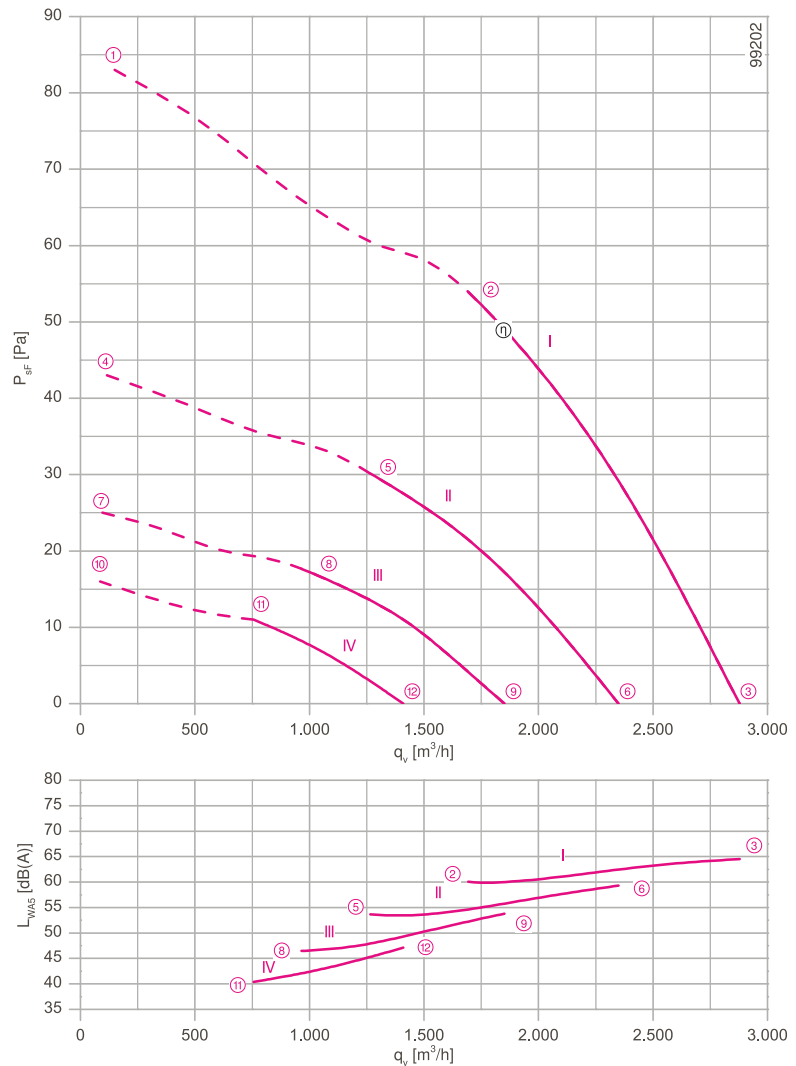
FN035-4E



Description

- Motor technology: AC
 - Rated voltage U_N : 1~ 230 V*
 - Rated frequency f_N : 50 Hz* (60Hz data available)
 - Motor input power P_1 : 0.13 kW*
 - Rated current I_N : 0.56 A*
 - Rated speed n_N : 1070 min⁻¹*
 - Starting current I_s : 0.70 A
 - Current increase ΔI : 0 %
 - Service capacitor C_{400V} : 5.0 μ F
 - Thermal class: **THCL155***
 - Min. permitted conveyor temperature $t_{R(min)}$: -40 °C
 - Max. permitted conveyor temperature $t_{R(max)}$: 60 °C
 - Electrical connection: Supply cable variable 45 cm
 - Number of blades: 7
 - Motor protection: Thermal contact
 - Blades: High Performance Composite Material, uncoated, black
 - Rotor: Aluminium, 1 coat paint, Ultramarine blue
 - Conformity: CE
- ErP Data**
Is not subject to the ErP Guidelines ($P_1 < 125$ W)
* Rated data

Characteristic curve



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

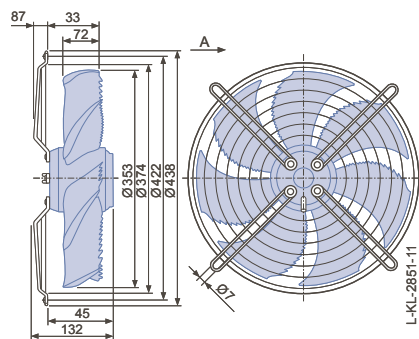
➤ Connection diagram 1360-177X Page 609

➤ System components Page 524

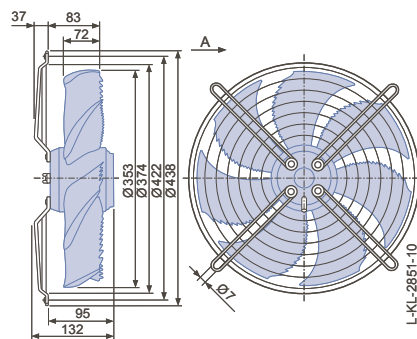
Dimensions [mm]

Airflow direction A

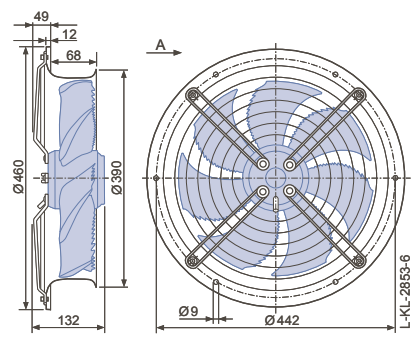
Design W - axial bolted, mounting for short bell mouth E



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



Design L - round, full bell mouth





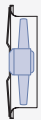



Performance data

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 ⁻¹]	
FN035-4E_WD_7	I	230	①	0.60	140	910	
		230*	②	0.56*	130*	1070*	60
		230	③	0.50	110	1220	65
	II	170	④	0.48	80	660	
		170	⑤	0.46	80	810	54
		170	⑥	0.44	70	1000	59
	III	135	⑦	0.39	55	510	
		135	⑧	0.38	50	620	47
		135	⑨	0.37	50	780	54
	IV	110	⑩	0.32	36	400	
		110	⑪	0.32	36	490	40
		110	⑫	0.32	34	610	47

*rated data

Fan ordering information

Airflow direction A		Airflow direction V				
Design	W	D	L	K	H	I
						
Type	FN035-4EW.WD.A7	FN035-4ED.WD.A7	FN035-4EL.WD.A7	FN035-4EK.WD.V7	FN035-4EH.WD.V7	FN035-4EI.WD.V7
Article no.	162549	162547	162548	162545	162544	162543
Weight [kg]	4.90	4.50	6.50	4.90	6.50	4.50

Control technology

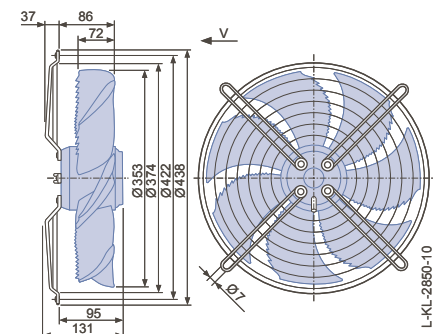
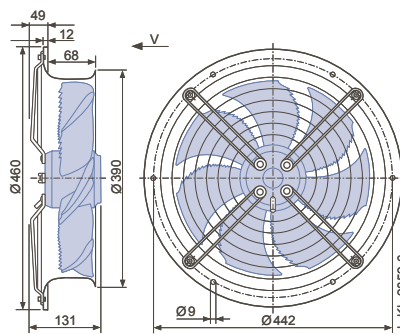
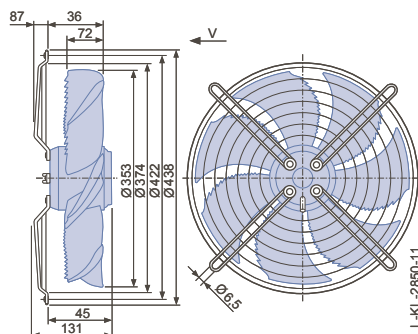
<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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Airflow direction V

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

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



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FE2owlet

for single phase alternating current, 4 pole

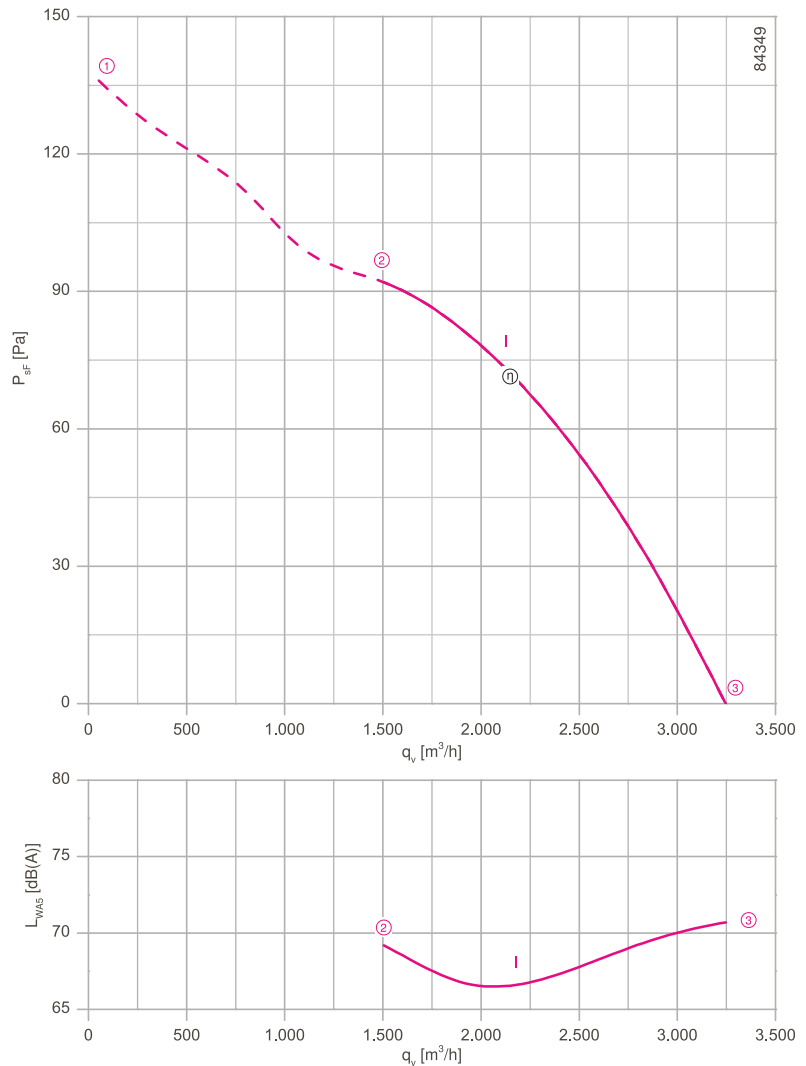
FN035-4E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V*
 Rated frequency f_N : 50 Hz*
 Motor input power P_1 : 0.18 kW*
 Rated current I_N : 0.77 A*
 Rated speed n_N : 1230 min⁻¹*
 Starting current I_A : 1.20 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 5.0 μ F
 Thermal class: THCL155*
 Min. permitted conveyor temperature $t_{R(min)}$: -40 °C
 Max. permitted conveyor temperature $t_{R(max)}$: 60 °C
 Electrical connection: Supply cable variable 45 cm
 Number of blades: 7
 Motor protection: Thermal contact
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Aluminium, 1 coat paint, Ultramarine blue
 Conformity: ErP 2013, CE
ErP Data
 Efficiency η_{statA} : 27.5 %
 Efficiency: $N_{actual} = 38.8 / N_{target} = 36$ **
 * Rated data
 **ErP 2013

Characteristic curve



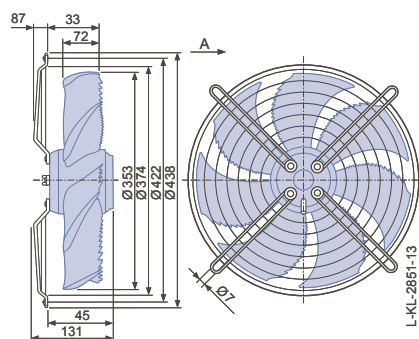
Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

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

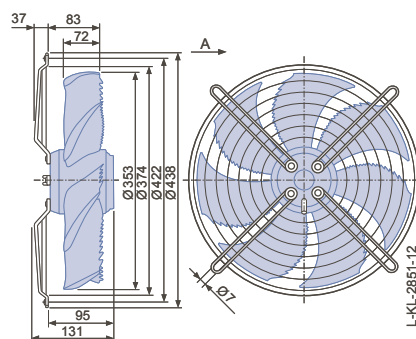
Dimensions [mm]

Airflow direction A

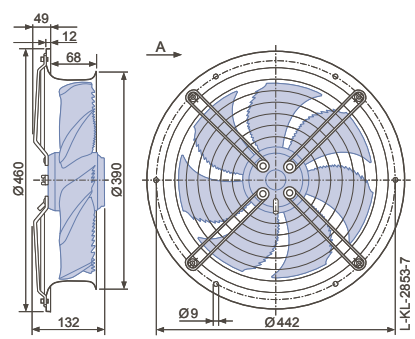
Design W - axial bolted, mounting for short bell mouth E



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



Design L - round, full bell mouth









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 ⁻¹]	
FN035-4E_WD_7	I	230	①	0.86	200	1140	
		230*	②	0.78*	180*	1230*	69
		230	③	0.58	130	1370	71

*rated data

Fan ordering information

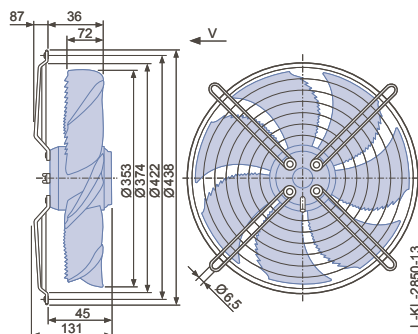
Airflow direction A				Airflow direction V		
Design	W	D	L	K	H	I
						
Type	FN035-4EW.WD.A7	FN035-4ED.WD.A7	FN035-4EL.WD.A7	FN035-4EK.WD.V7	FN035-4EH.WD.V7	FN035-4EI.WD.V7
Article no.	141417	141415	141416	141420	141419	141418
Weight [kg]	4.90	4.50	6.50	4.90	6.50	4.50

Control technology

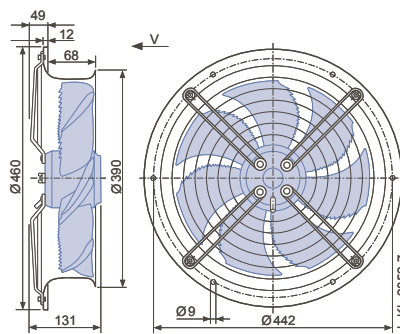
<p>Frequency inverter Fcontrol 1~</p>  <p>Page 552</p>	<p>Motor protection units 1~</p>  <p>Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>Page 562</p>
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Airflow direction V

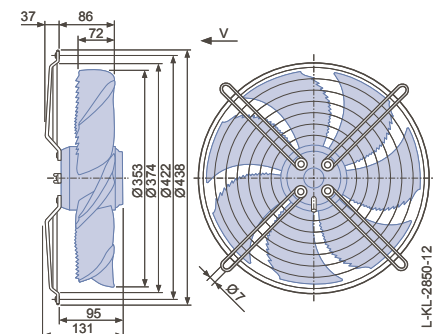
Design K - axial bolted, mounted for short bell mouth E



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



FE2owlet

for single phase alternating current, 4 pole

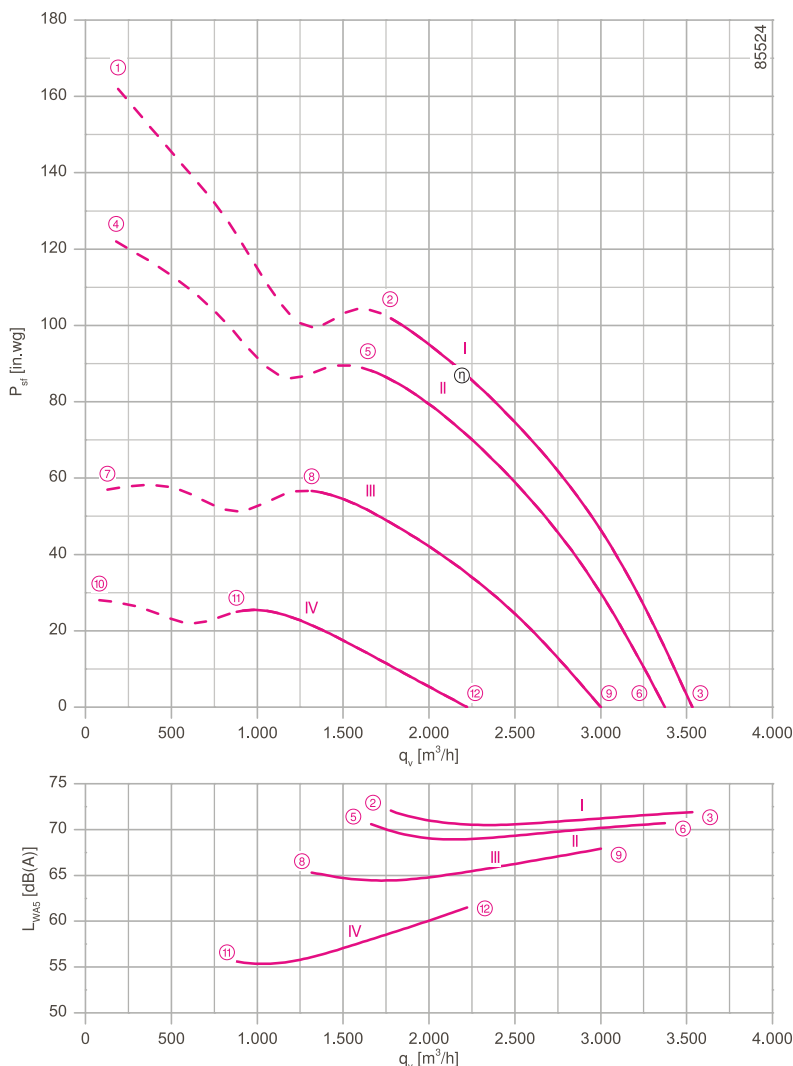
FN035-4E



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 : 0.23 kW*
 Rated current I_N : 1.05 A*
 Rated speed n_N : 1410 min⁻¹*
 Starting current I_s : 3.00 A
 Current increase ΔI : 15 %
 Service capacitor C_{400V} : 6.0 μ 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: 7
 Protection class: IP54
 Motor protection: Thermal contact
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Aluminium, 1 coat paint, black
 Conformity: ErP 2013, CE
ErP Data
 Efficiency η_{statA} : 24.2 %
 Efficiency: $N_{actual} = 36.2 / N_{target} = 36^{**}$
 Frequency inverter required
 * Rated data
 **ErP 2013

Characteristic curve



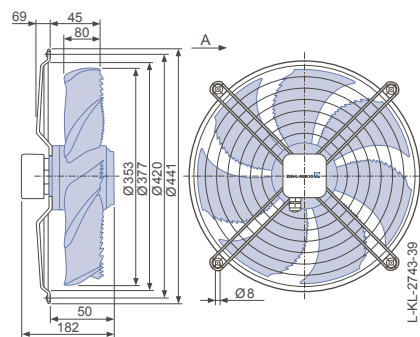
Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

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

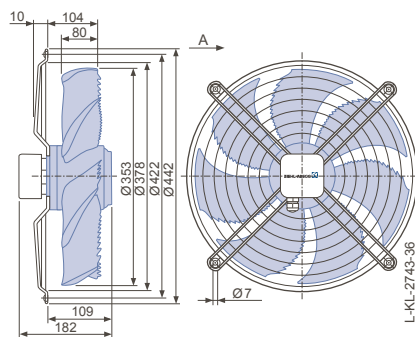
Dimensions [mm]

Airflow direction A

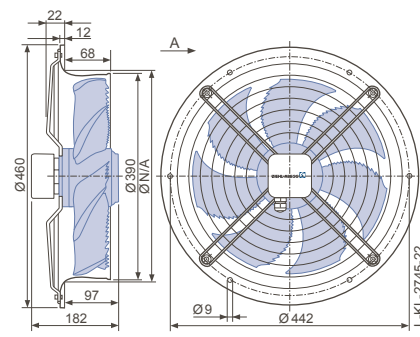
Design W - axial bolted, mounting for short bell mouth E



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



Design L - round, full bell mouth









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 ⁻¹]	
FN035-4E_0F_7P2	I	230	①	1.20	270	1370	72
		230*	②	1.05*	230*	1410*	
		230	③	0.98	210	1430	
	II	170	④	1.35	220	1190	71
		170	⑤	1.05	180	1310	
		170	⑥	0.90	150	1360	
	III	135	⑦	1.35	180	810	65
		135	⑧	1.20	160	1040	
		135	⑨	1.00	140	1220	
	IV	110	⑩	1.15	120	570	56
		110	⑪	1.15	120	700	
		110	⑫	1.10	120	900	

*rated data

Fan ordering information

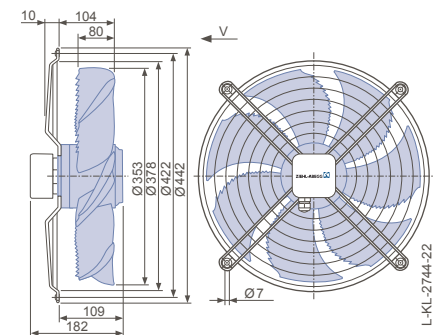
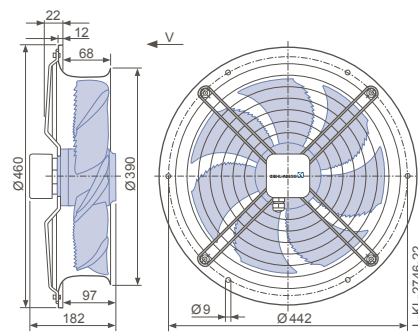
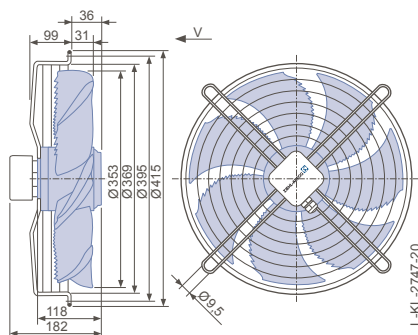
Design	Airflow direction A			Airflow direction V		
	W	D	L	K	H	I
						
Type	FN035-4EW.0F.A7P2	FN035-4ED.0F.A7P2	FN035-4EL.0F.A7P2	FN035-4EK.0F.V7P2	FN035-4EH.0F.V7P2	FN035-4EI.0F.V7P2
Article no.	155879	155877	155878	155883	155882	155881
Weight [kg]	5.10	4.80	6.80	5.30	6.80	4.70

Airflow direction V

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

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



FE2owlet

for single phase alternating current, 6 pole

FN035-6E



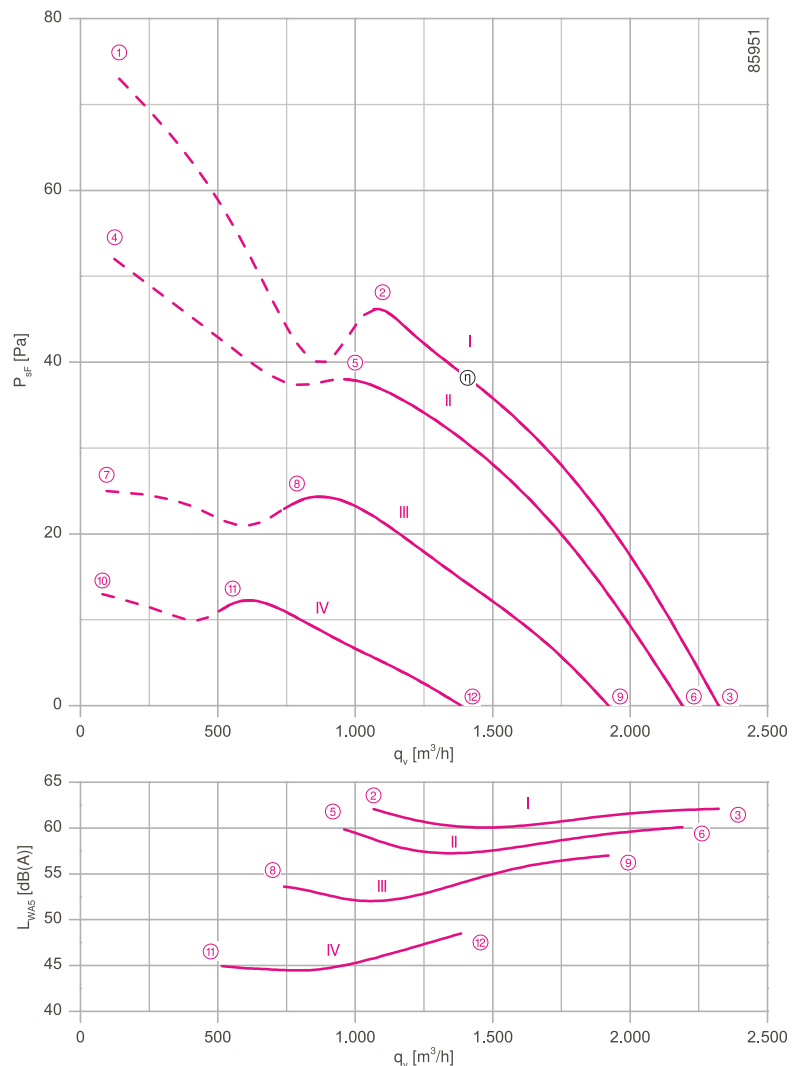
Description

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 : 0.085 kW*
 Rated current I_N : 0.39 A*
 Rated speed n_N : 930 min⁻¹*
 Starting current I_s : 0.75 A
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 3.0 μ 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: 7
 Protection class: IP54
 Motor protection: Thermal contact
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Aluminium, 1 coat paint, black
 Conformity: CE
ErP Data
 Is not subject to the ErP Guidelines ($P_1 < 125$ W)
 * Rated data

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

➤ System components Page 524

Characteristic curve

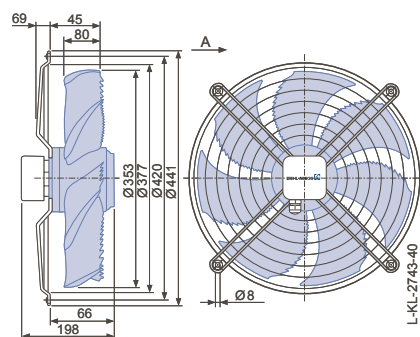


Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

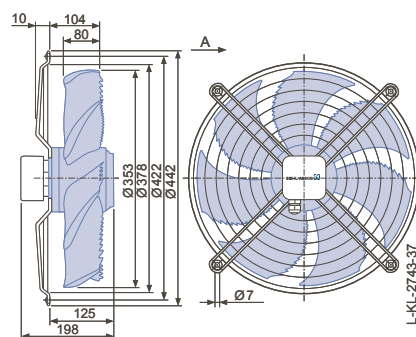
Dimensions [mm]

Airflow direction A

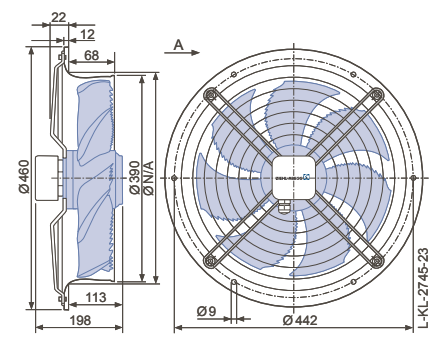
Design W - axial bolted, mounting for short bell mouth E



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



Design L - round, full bell mouth









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 ⁻¹]	
FN035-6E_0C_7P2	I	230	①	0.42	95	900	
		230*	②	0.39*	85*	930*	62
		230	③	0.37	80	940	62
	II	170	④	0.42	70	760	
		170	⑤	0.36	60	850	60
		170	⑥	0.31	55	890	60
	III	135	⑦	0.38	50	530	
		135	⑧	0.36	48	670	54
		135	⑨	0.32	42	780	57
	IV	110	⑩	0.33	36	390	
		110	⑪	0.32	34	470	45
		110	⑫	0.31	34	570	49

*rated data

Fan ordering information

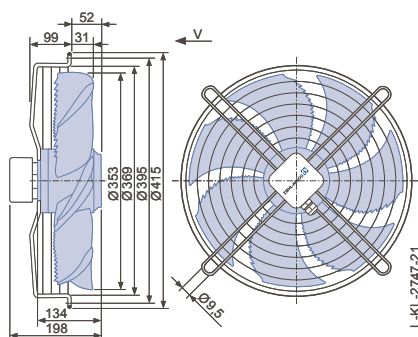
Airflow direction A		Airflow direction V				
Design	W	D	L	K	H	I
						
Type	FN035-6EW.0C.A7P2	FN035-6ED.0C.A7P2	FN035-6EL.0C.A7P2	FN035-6EK.0C.V7P2	FN035-6EH.0C.V7P2	FN035-6EI.0C.V7P2
Article no.	155897	155895	155896	155901	155900	155899
Weight [kg]	4.50	4.10	6.10	4.60	6.10	4.10

Control technology

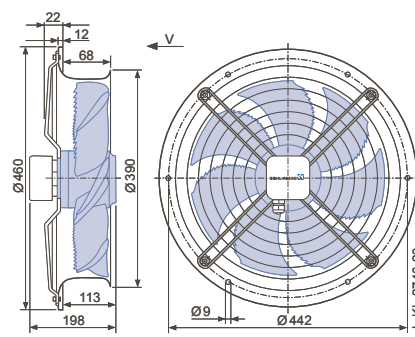
<p>Frequency inverter Fcontrol 1~</p>  <p>➤ Page 552</p>	<p>Motor protection units 1~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 1~</p>  <p>➤ Page 587</p>	<p>Electronic voltage controllers 1~</p>  <p>➤ Page 562</p>
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Airflow direction V

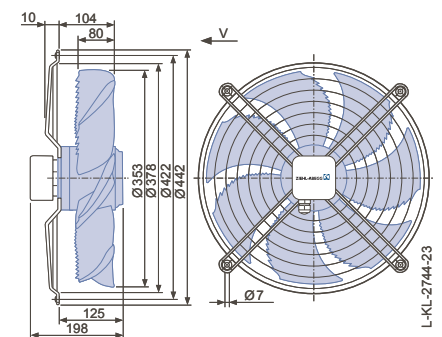
Design K - axial bolted, mounted for short bell mouth E



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



Information
FE2owlet ECblue
FE2owlet
FB
FC
System components
Control technology
Appendix

FE2owlet

for three phase alternating current, 4-4 pole

FN035-VD



Description

Motor technology: AC
 Rated voltage U_N : 3~ 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz* (60Hz data available)
 Motor input power P_1 : 0.19/0.14 kW*
 Rated current I_N : 0.40/0.23 A*
 Rated speed n_N : 1390/1170 min⁻¹*
 Starting current I_s : 1.60 A / 0.55 A
 Current increase ΔI : 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: 7
 Protection class: IP54
 Motor protection: Thermal contact
 Blades: High Performance Composite Material, uncoated, black
 Rotor: Aluminium, 1 coat paint, black
 Conformity: ErP 2015, CE

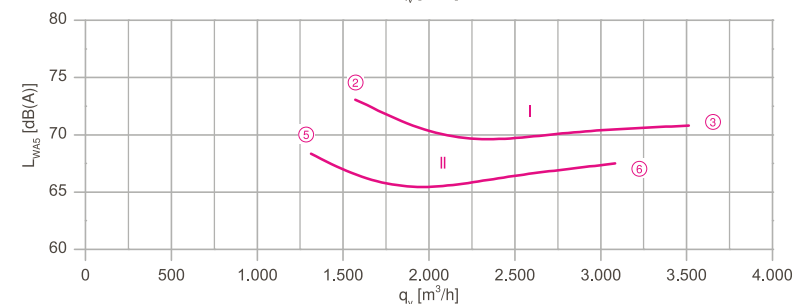
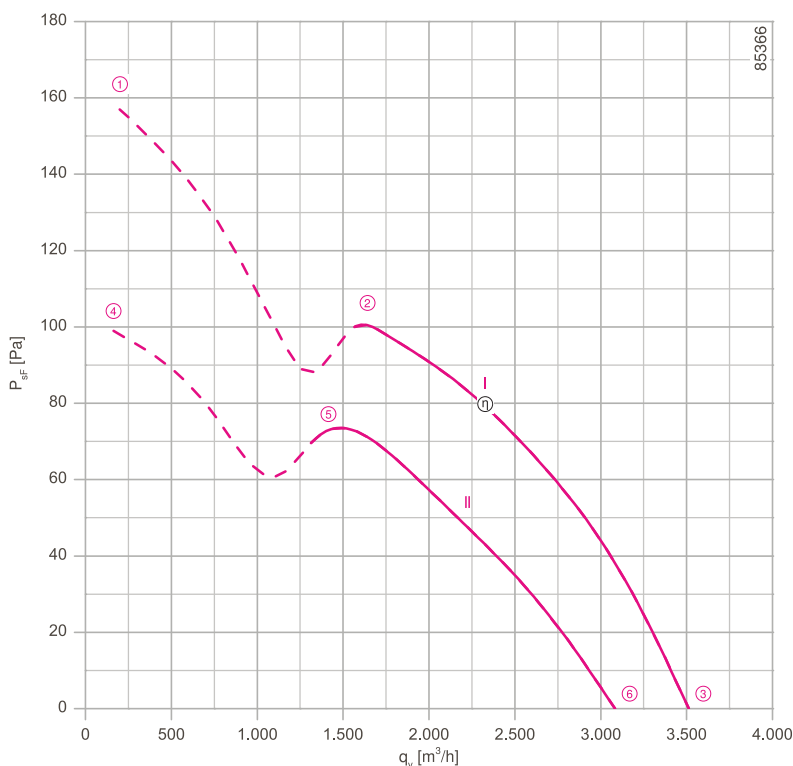
ErP Data

Efficiency η_{statA} : 29.3 %
 Efficiency: $N_{actual} = 40.3 / N_{target} = 40$ **
 * 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

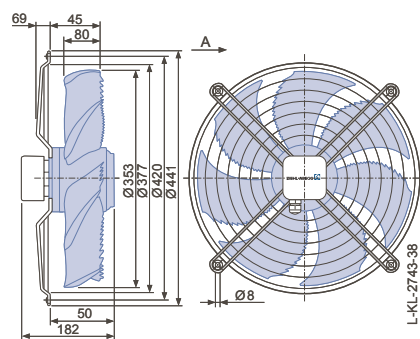


Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

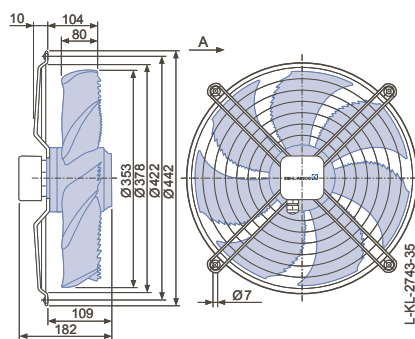
Dimensions [mm]

Airflow direction A

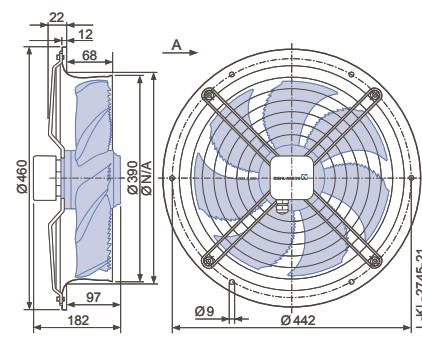
Design W - axial bolted, mounting for short bell mouth E



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



Design L - round, full bell mouth









Performance data

Type	Connection	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 ⁻¹]	
FN035-VD_OF_7P2	Δ	I	400	①	0.44	230	1360	73
			400*	②	0.40*	190*	1390*	
			400	③	0.37	150	1420	
	Y	II	400	④	0.27	170	1080	68
			400*	⑤	0.23*	140*	1170*	
			400	⑥	0.19	120	1240	

*rated data

Fan ordering information

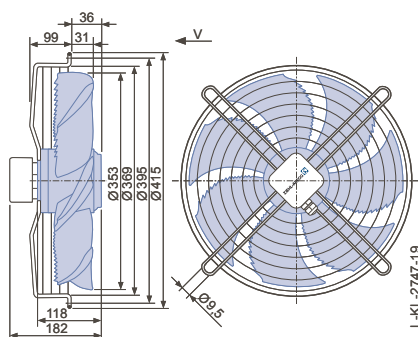
Design	Airflow direction A			Airflow direction V		
	W	D	L	K	H	I
						
Type	FN035-VDW.0F.A7P2	FN035-VDD.0F.A7P2	FN035-VDL.0F.A7P2	FN035-VDK.0F.V7P2	FN035-VDH.0F.V7P2	FN035-VDI.0F.V7P2
Article no.	155888	155886	155887	155892	155891	155890
Weight [kg]	5.10	4.80	6.80	5.30	6.80	4.70

Control technology

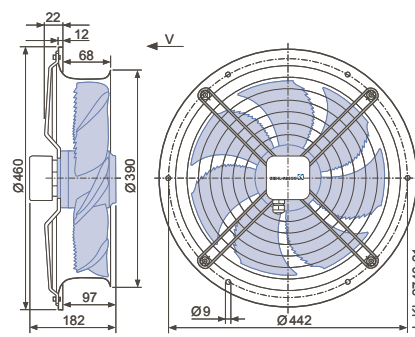
<p>Frequency inverter Fcontrol 3~</p>  <p>➤ Page 558</p>	<p>Motor protection units 3~</p>  <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p>  <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p>  <p>➤ Page 578</p>
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Airflow direction V

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



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

