EN

Movement by Perfection

Fans

for railroad engineering
01/2017 edition

Addendum
09/2018

The Royal League in **ventilation**, control and drive technology

ZIEHL-ABEGG

Contents

Technical description

MAXventowlet

Product specification for railroad engineering

Medium pressure axial fan with extremely low noise emissions, high efficiency, and more power due to high performance internal rotor motor.
Factory adjusted pitch angle and various number of blades to precisely meet customer's operating point.
Seven available sizes 315, 350, 400, 450, 500, 560 and 630 mm.
Flow rates up to 31,000 m^3/h and static pressures up to 1,500 Pa.
Motors are available in 2- or 4-pole and 2/4-pole configurations in 50 Hz or 60 Hz versions

Features and special features

- Housing with motor, impeller and nozzle as ready-to-install unit
- Low operating costs due to optimum efficiency with minimal noise as a result of the bionic wing design
- Adaptation for tight spaces or special dimensions
- High power density due to internal rotor motor
- High durability with low vibration due to dynamic balancing on 2 levels
- Plug and play solutions

Motor concepts

Internal rotor motors

- AC technology
- Electrical design according to DIN EN 60034-1 or EN 60349-2 (railway auxiliary motor).

Customer-specific design

- Degree of protections
- Insulation classes
- Temperature application ranges
- Voltage and frequency ranges
- Corrosion prevention

Application examples

- Traction motor cooling
- Braking resistor cooling
- Transformer and oil cooling

Technical description

FE2owlet

Product specification for railroad engineering

Profiled, sickle-shaped blades based on bionic insights. Available sizes 300 - 800 mm, air flows up to 30,000 m^3/h and static pressure increase up to 400 Pa.

Properties and special features

- Low operating costs due to optimum efficiency with minimum noise levels
- High flexibility due to 100% speed controllable air flow rate
- Very smooth running and long service life due to dynamic balancing in two levels
- Compact dimensions for every installation situation
- Numerous approvals (incl. VDE, UL, CCC, EAC, CE)
- Fire safety in accordance with DIN EN 45545

Motor concepts

External rotor motors

- ECblue EC technology with integrated controller matched to the fan
- AC technology

Application examples

- Transformer cooling and oil cooler
- Ventilation for machine rooms
- Air conditioning in driver's cabin/passenger compartment

Technical description

FE2owlet with ZAplus

Product specification for railroad engineering

Optimised full nozzle with guide vane, motor suspension and short diffusor. Profiled, sickle-shaped blades based on bionic insights. Available sizes 450 - 630 mm, volume flow rates up to 23,000 m^3/h and static pressure increase up to 480 Pa.

Properties and special features

- Intelligent ventilation system with built-in efficiency guarantee
- Lowest operating costs due to optimum efficiency with minimum noise levels due to bionic blade design and aerodynamically optimised ZAplus nozzle
- High level of flexibility due to 100% speed controllable volume flow rate
- High corrosion protection with corrosion-free nozzle made of high performance composite material
- Very smooth running and long service life due to dynamic balancing in two levels
- Minimal handling effort as no packaging needed
- Numerous approvals (incl. VDE, UL, CCC, EAC, CE)
- Fire safety in accordance with DIN EN 45545

Motor concepts

External rotor motors

- ECblue EC technology with integrated controller matched to the fan
- AC technology

Application examples

- Transformer cooling and oil cooler
- Ventilation for machine rooms
- Air conditioning in driver’s cabin/passenger compartment

Technical description

ZArail in semi-spiral housing

cp. edition 01/2017 catalogue chapter „ZArail“

Product specification

Backward curved centrifugal impeller made of powder coated sheet metal. Semi-spiral housing made of galvanized or powder coated sheet metal.
Five sizes available 315, 355, 400, 450 and 500 mm. Air flow rates up to 18.000 m³/h and static pressures up to 4.000 Pa.
Motors are available in 2 or 4 pole and 2/4 pole configurations in 50 Hz or 60 Hz versions.

Characteristics and features

Housing with motor, impeller, and nozzle as ready-to-install unit.
Flanges and fixing points of the housing can be adapted to the required installation situation.
Adaptation for tight spaces or special dimensions.
Fully balanced fan, allowed vibration severity less than 2.8 mm/s according to ISO 14694.
Vibration resistant and self-supporting unit.
High power density due to internal rotor motor.
Plug and play solutions

Motor concepts

Internal rotor motor

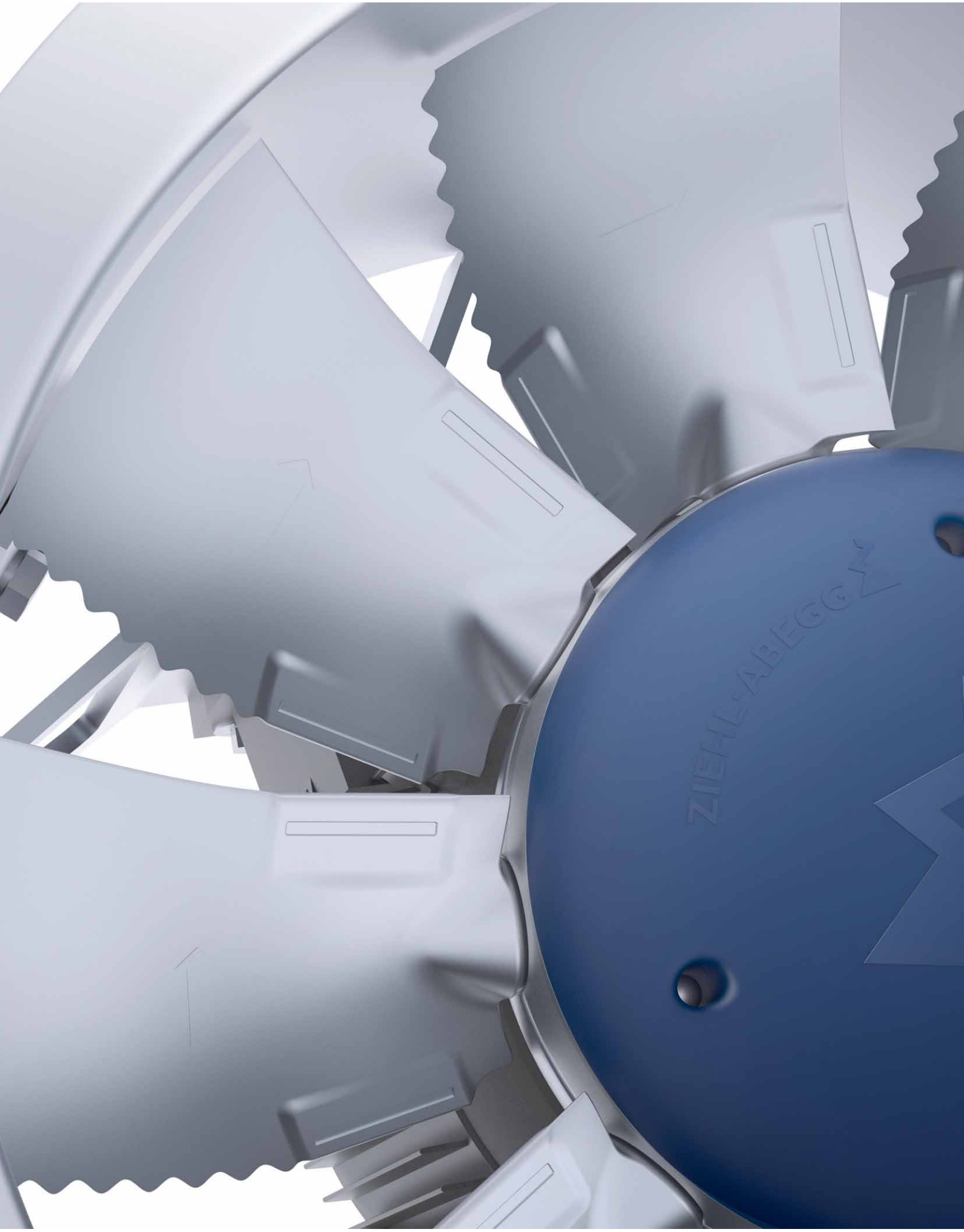
- AC technology
- Electrical design according to DIN EN 60034-1 or EN 60349-2 (railway auxiliary motor)

Customer-specific design

- Degree of protections
- Insulation classes
- Temperature application ranges
- Voltage and frequency ranges
- Corrosion preve

Application examples

- Traction motor cooling
- Braking resistor cooling
- Transformer and Oil cooling


ZIEHL-ABEGG

MAXventowlet

Product overview

MAXventowlet

for three phase alternating-current, 2- and 4-pole

DN31/DN35

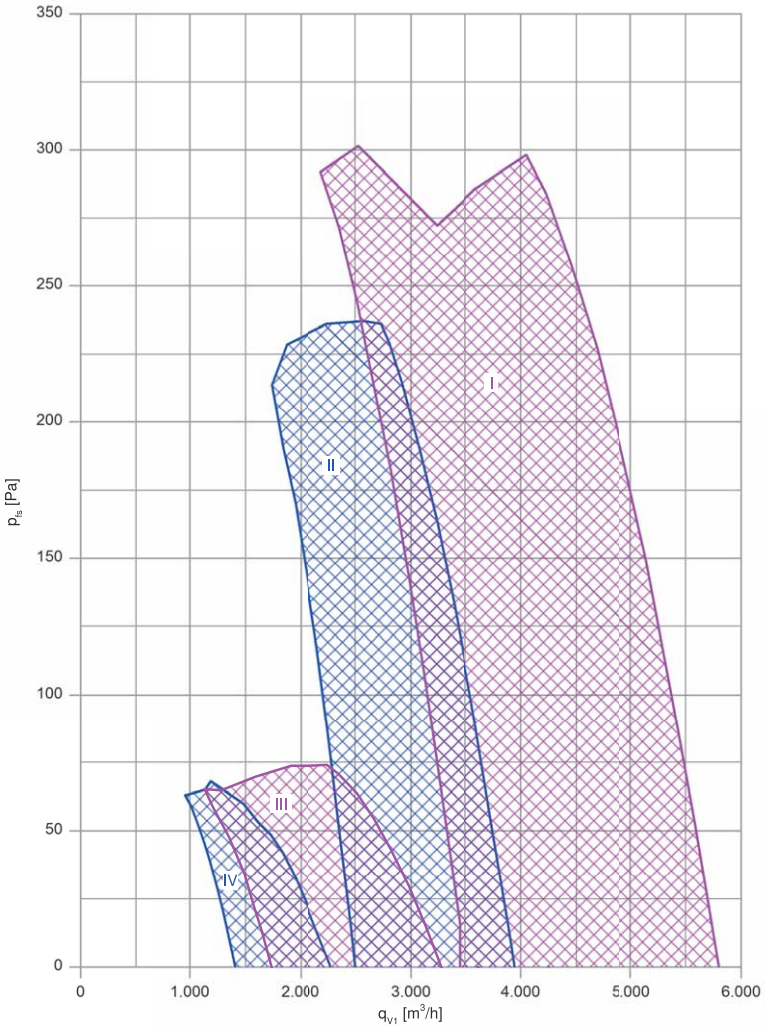
Description 50 Hz

Motor technology: AC
Rated voltage U_N: 3~ 400 V
Rated frequency f_N: 50 Hz
Min. permitted ambient temperature $t_{amb(min)}$: -30 °C
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Degree of protection: IP55

Description 60 Hz

Motor technology: AC
Rated voltage U_N: 3~ 460 V
Rated frequency f_N: 60 Hz
Min. permitted ambient temperature $t_{amb(min)}$: -30 °C
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Degree of protection: IP55

Characteristic curves 50Hz



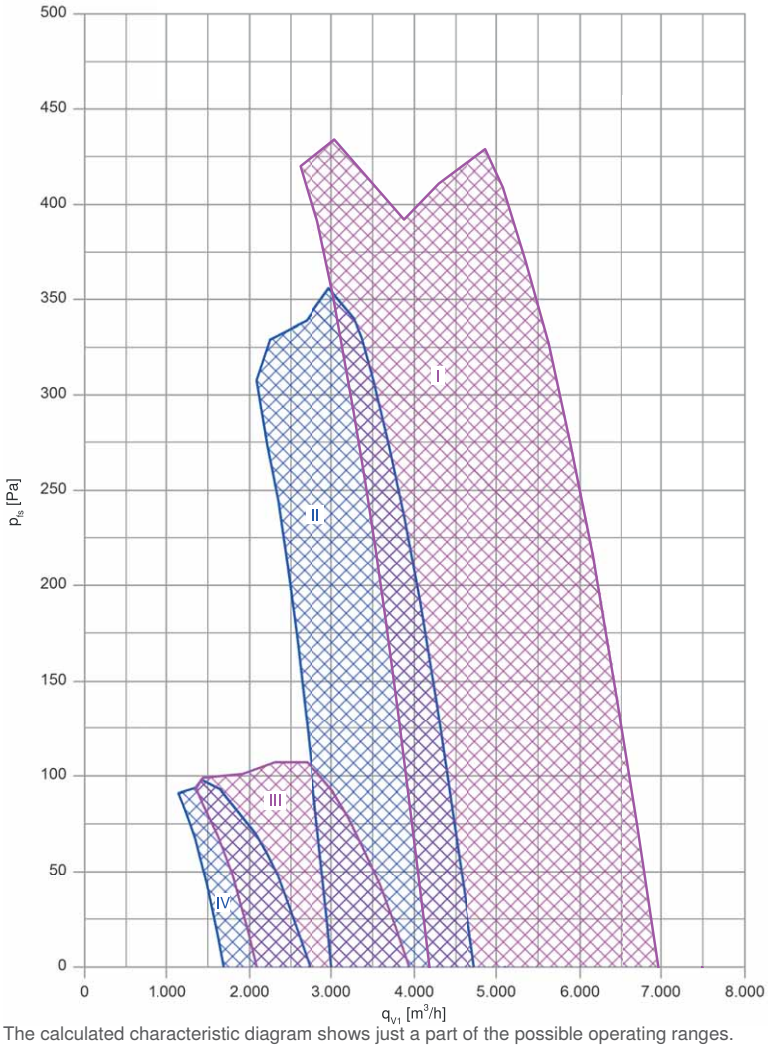
The calculated characteristic diagram shows just a part of the possible operating ranges.
For a detailed configuration of your project please contact ZIEHL-ABEGG.

Technical data

Characteristic diagram	Type	Blade setting angle* min. - max. degree °	Motor size* min. - max.	Number of blades
I	DN35_-2_K	11 - 29	71 ... 90	7
II	DN31_-2_K	11 - 19	71 ... 80	7
III	DN35_-4_K	11 - 34	63 ... 71	7
IV	DN31_-4_K	14 - 34	63	7

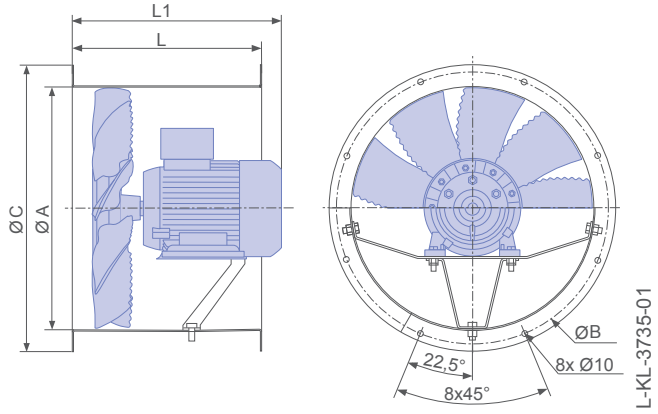
*The smallest and the largest motor, as well as the smallest and the largest blade angle are shown.

Characteristic curves 60Hz



The calculated characteristic diagram shows just a part of the possible operating ranges.
For a detailed configuration of your project please contact ZIEHL-ABEGG.

Dimensions mm



Type	Ø A mm	Ø B mm	Ø C mm	L mm	L1* mm
DN35_-2_K	355	395	425	260	345
DN31_-2_K	315	355	372	260	303
DN35_-4_K	355	395	425	260	257
DN31_-4_K	315	355	372	260	249

*Motor size depends on blade setting angle, number of blades and number of poles.

MAXventowlet

for three phase alternating-current, 2- and 4-pole

DN40/DN45

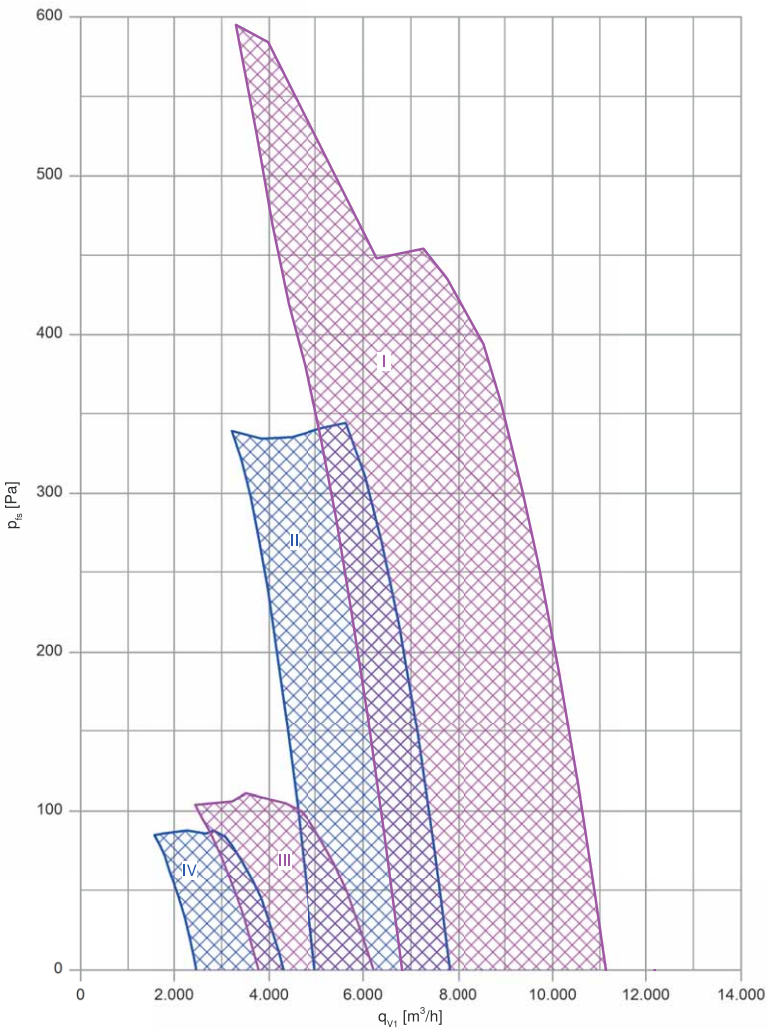
Description 50 Hz

Motor technology: AC
Rated voltage U_N: 3~ 400 V
Rated frequency f_N: 50 Hz
Min. permitted ambient temperature $t_{amb(min)}$: -30 °C
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Degree of protection: IP55
Number of Blades: 9

Description 60 Hz

Motor technology: AC
Rated voltage U_N: 3~ 460 V
Rated frequency f_N: 60 Hz
Min. permitted ambient temperature $t_{amb(min)}$: -30 °C
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Degree of protection: IP55
Number of blades: 9

Characteristic curves 50Hz



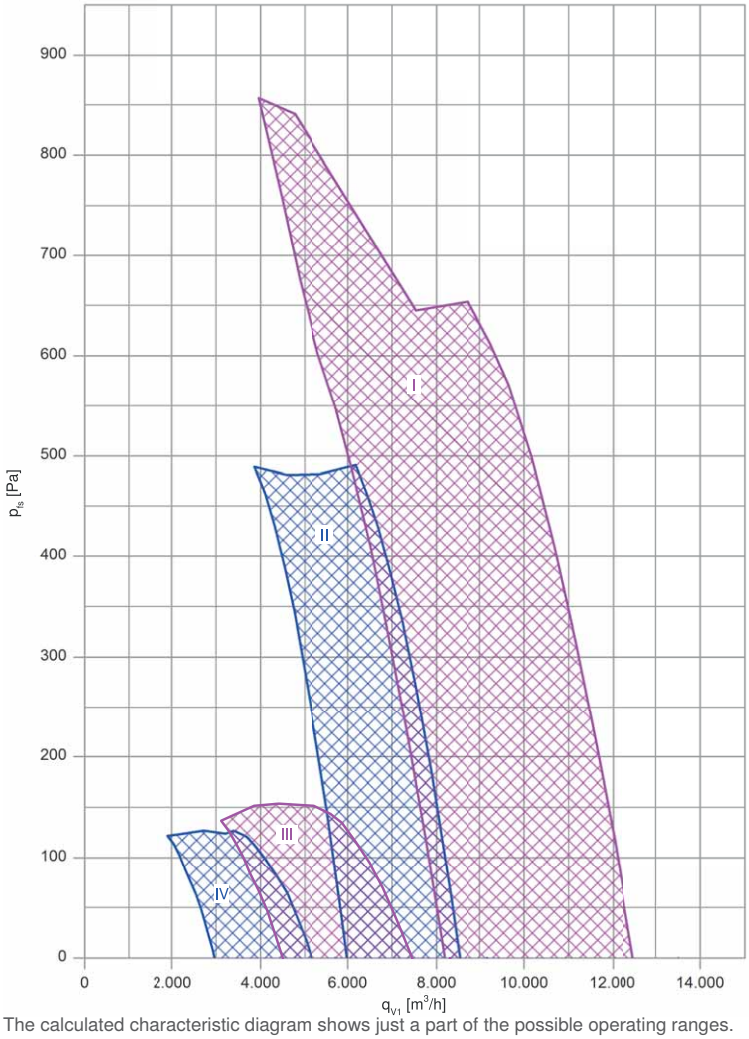
The calculated characteristic diagram shows just a part of the possible operating ranges.
For a detailed configuration of your project please contact ZIEHL-ABEGG.

Technical data

Characteristic diagram	Type	Blade setting angle* min. - max. degree °	Motor size* min. - max.	Number of blades
I	DN45_-2_K	11 - 29	90 … 112	3; 6; 9
II	DN40_-2_K	11 - 29	80 … 100	3; 6; 9
III	DN45_-4_K	14 - 34	63 … 90	3; 6; 9
IV	DN40_-4_K	11 - 34	63 … 80	3; 6; 9

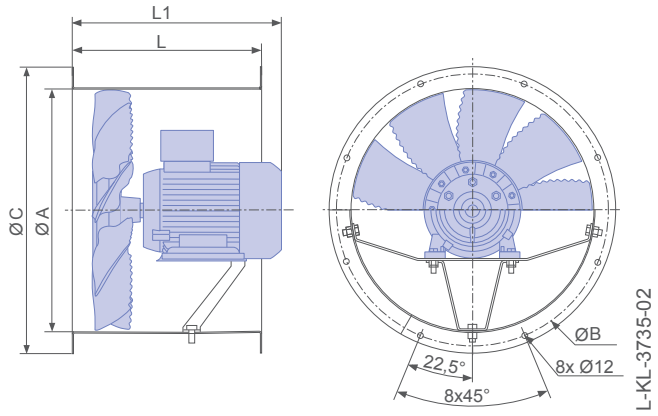
*The smallest and the largest motor, as well as the smallest and the largest blade angle are shown.

Characteristic curves 60Hz



The calculated characteristic diagram shows just a part of the possible operating ranges.
For a detailed configuration of your project please contact ZIEHL-ABEGG.

Dimensions mm



Type	Ø A mm	Ø B mm	Ø C mm	L** mm	L1* max. mm
DN45_-2_K	450	500	530	320	410
DN40_-2_K	400	450	470	320	398
DN45_-4_K	450	500	530	260	370
DN40_-4_K	400	450	470	260	329

* Motor size depends on blade setting angle, number of blades and number of poles.
** Length of casing depends on motor size.

MAXventowlet

for three phase alternating-current, 2- and 4-pole

DN50/DN56

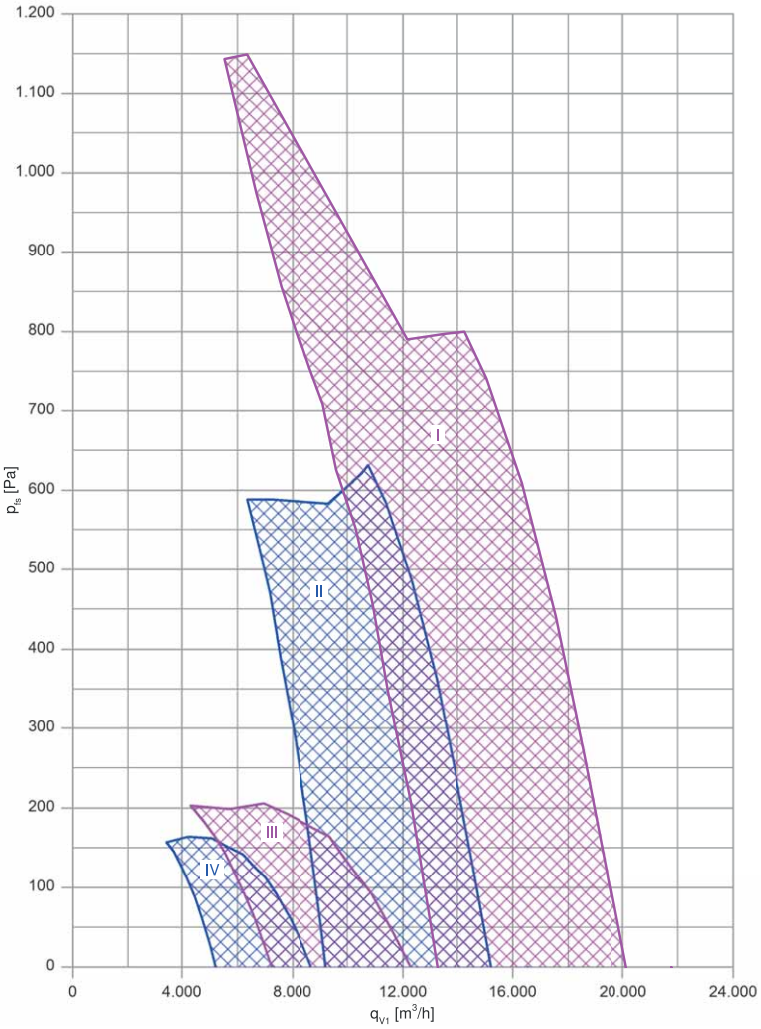
Description 50 Hz

Motor technology: AC
Rated voltage U_N: 3~ 400 V
Rated frequency f_N: 50 Hz
Min. permitted ambient temperature $t_{amb(min)}$: -30 °C
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Degree of protection: IP55
Number of Blades: 9

Description 60 Hz

Motor technology: AC
Rated voltage U_N: 3~ 460 V
Rated frequency f_N: 60 Hz
Min. permitted ambient temperature $t_{amb(min)}$: -30 °C
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Degree of protection: IP55
Number of blades: 9

Characteristic curves 50Hz



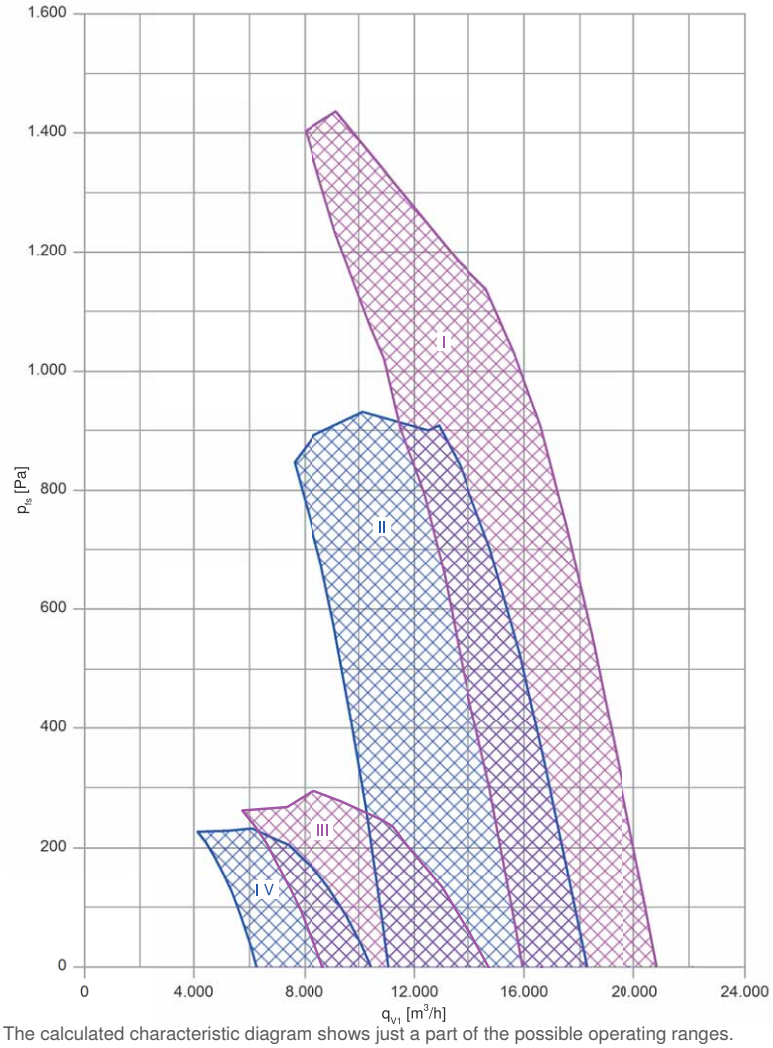
The calculated characteristic diagram shows just a part of the possible operating ranges.
For a detailed configuration of your project please contact ZIEHL-ABEGG.

Technical data

Characteristic diagram	Type	Blade setting angle* min. - max. degree °	Motor size* min. - max.	Number of blades
I	DN50_-2_K	11 - 29	90 … 132	3; 6; 9
II	DN56_-2_K	11 - 24	100 … 132	3; 6; 9
III	DN50_-4_K	14 - 34	71 … 100	3; 6; 9
IV	DN56_-4_K	14 - 34	80 … 100	3; 6; 9

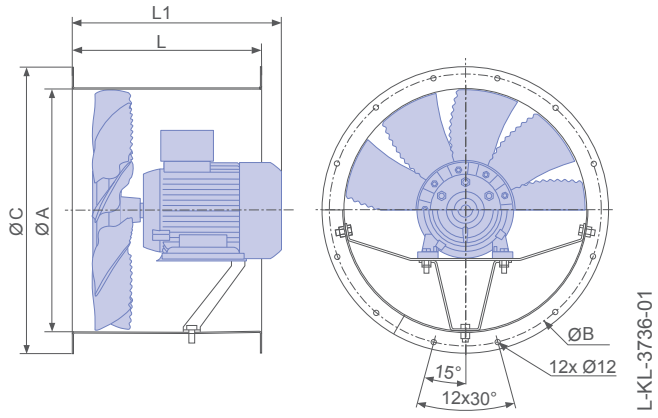
*The smallest and the largest motor, as well as the smallest and the largest blade angle are shown.

Characteristic curves 60Hz



The calculated characteristic diagram shows just a part of the possible operating ranges.
For a detailed configuration of your project please contact ZIEHL-ABEGG.

Dimensions mm



Type	Ø A mm	Ø B mm	Ø C mm	L** mm	L1*max. mm
DN56_-2_K	560	620	650	360	511
DN50_-2_K	500	560	590	360	511
DN56_-4_K	560	620	650	360	404
DN50_-4_K	500	560	590	360	404

* Motor size depends on blade setting angle, number of blades and number of poles.
** Length of casing depends on motor size.

MAXventowlet

for three phase alternating-current, 2- and 4-pole

DN63

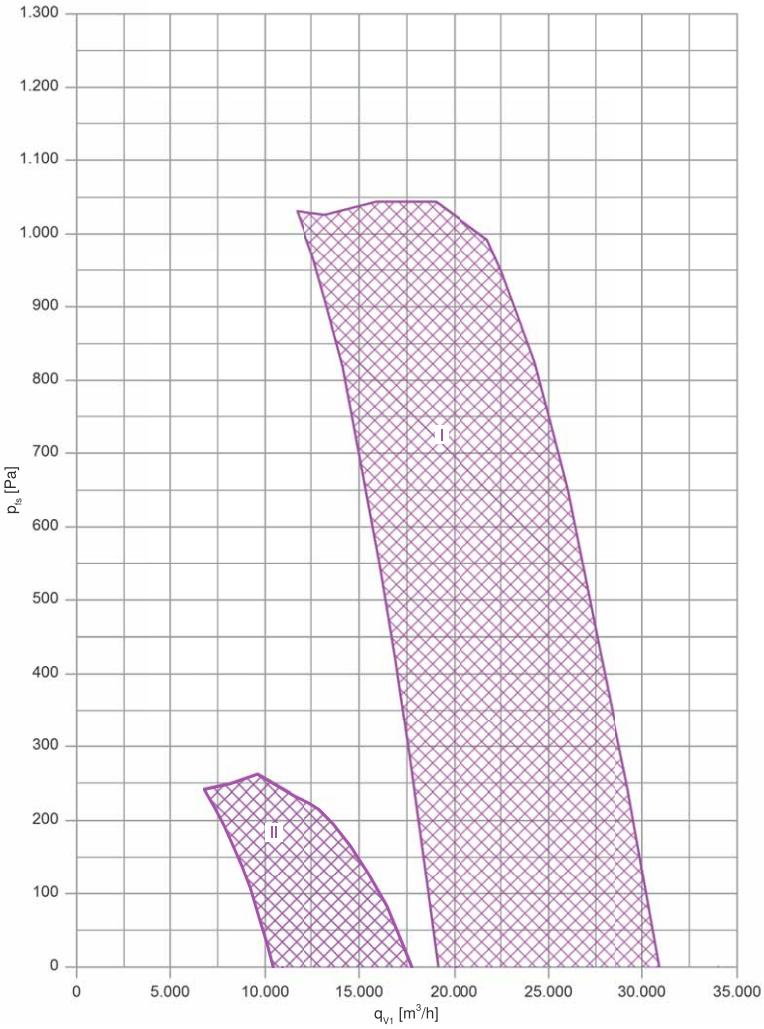
Description 50 Hz

Motor technology: AC
Rated voltage U_N: 3~ 400 V
Rated frequency f_N: 50 Hz
Min. permitted ambient temperature $t_{amb(min)}$: -30 °C
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Degree of protection: IP55
Number of Blades: 9

Description 60 Hz

Motor technology: AC
Rated voltage U_N: 3~ 460 V
Rated frequency f_N: 60 Hz
Min. permitted ambient temperature $t_{amb(min)}$: -30 °C
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Degree of protection: IP55
Number of blades: 9

Characteristic curves 50Hz



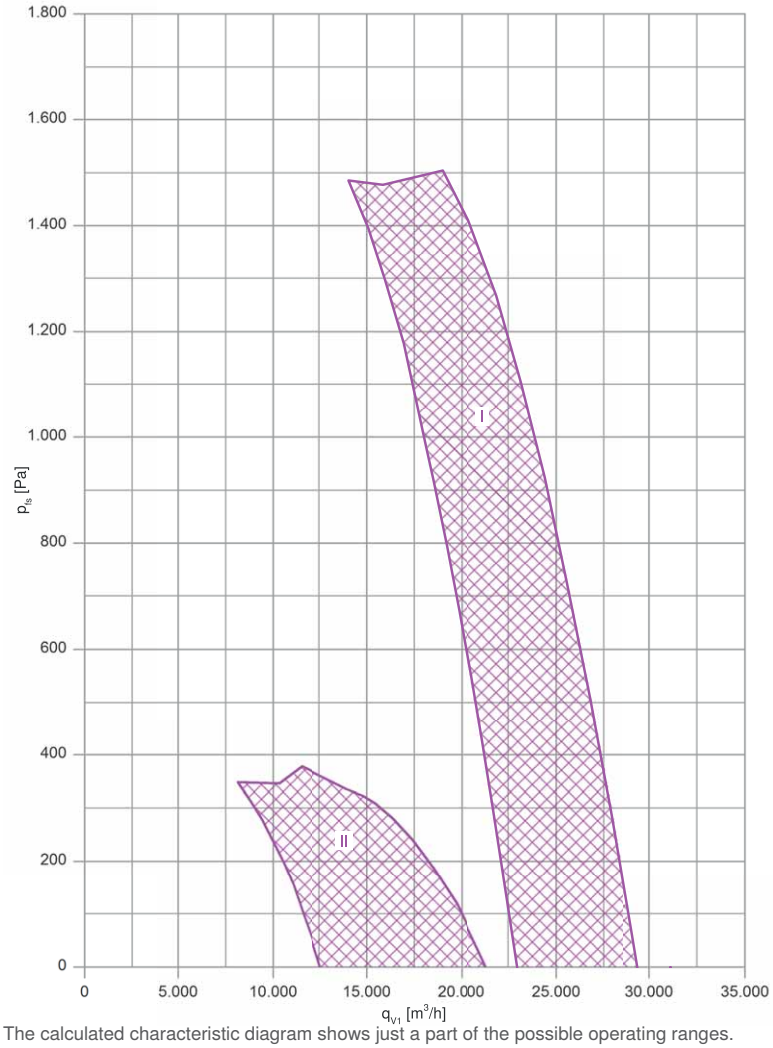
The calculated characteristic diagram shows just a part of the possible operating ranges.
For a detailed configuration of your project please contact ZIEHL-ABEGG.

Technical data

Characteristic diagram	Type	Blade setting angle* min. - max. degree °	Motor size* min. - max.	Number of blades
I	DN63_-2_K	11 - 29	132 … 160	3; 6; 9
II	DN63_-4_K	14 - 34	100 … 132	3; 6; 9

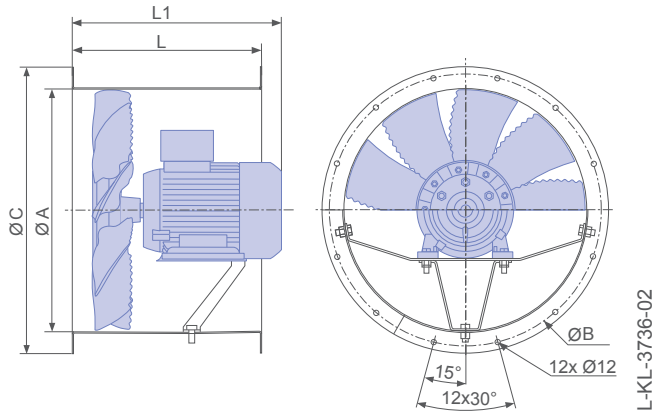
*The smallest and the largest motor, as well as the smallest and the largest blade angle are shown.

Characteristic curves 60Hz



The calculated characteristic diagram shows just a part of the possible operating ranges.
For a detailed configuration of your project please contact ZIEHL-ABEGG.

Dimensions mm



Type	Ø A mm	Ø B mm	Ø C mm	L** mm	L1*max. mm
DN63_-2_K	630	690	720	410	600
DN63_-4_K	630	690	720	335	470

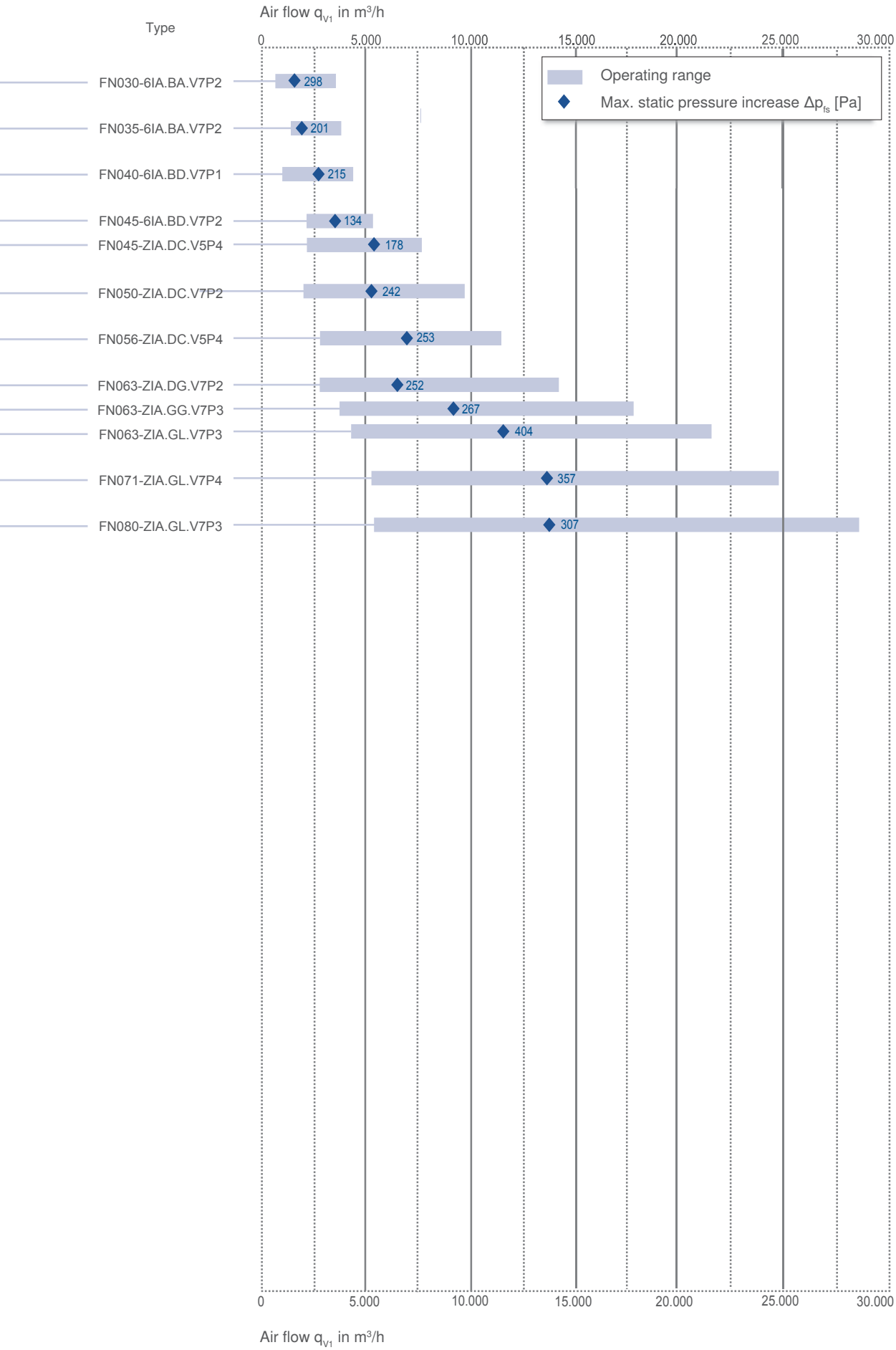
* Motor size depends on blade setting angle, number of blades and number of poles.
** Length of casing depends on motor size.

FE2owlet-ECblue

EC-Technology

Product overview

Size	Voltage	Type	Air flow direction	Page
300	110V DC	FN030-6IA.BA.V7P2	V	22
350	110V DC	FN035-6IA.BA.V7P2	V	24
400	110V DC	FN040-6IA.BD.V7P1	V	26
450	110V DC	FN045-6IA.BD.V7P2	V	28
	3~380-480V	FN045-ZIA.DC.V5P4	V	30
500	3~380-480V	FN050-ZIA.DC.V7P2	V	32
560	3~380-480V	FN056-ZIA.DC.V5P4	V	34
630	3~380-480 V	FN063-ZIA.DG.V7P2	V	36
		FN063-ZIA.GG.V7P3	V	38
		FN063-ZIA.GL.V7P3	V	40
710	3~380-480V	FN071-ZIA.GL.V7P4	V	42
800	3~380-480V	FN080-ZIA.GL.V7P3	V	44


Type
Air flow q_{V1} in m³/h
0
5.000
10.000
15.000
20.000
25.000
30.000
Operating range
Max. static pressure increase Δp_{fs} [Pa]
FN030-6IA.BA.V7P2
298
FN035-6IA.BA.V7P2
201
FN040-6IA.BD.V7P1
215
FN045-6IA.BD.V7P2
134
FN045-ZIA.DC.V5P4
178
FN050-ZIA.DC.V7P2
242
FN056-ZIA.DC.V5P4
253
FN063-ZIA.DG.V7P2
252
FN063-ZIA.GG.V7P3
267
FN063-ZIA.GL.V7P3
404
FN071-ZIA.GL.V7P4
357
FN080-ZIA.GL.V7P3
307
Air flow q_{V1} in m³/h

FE2owlet-ECblue

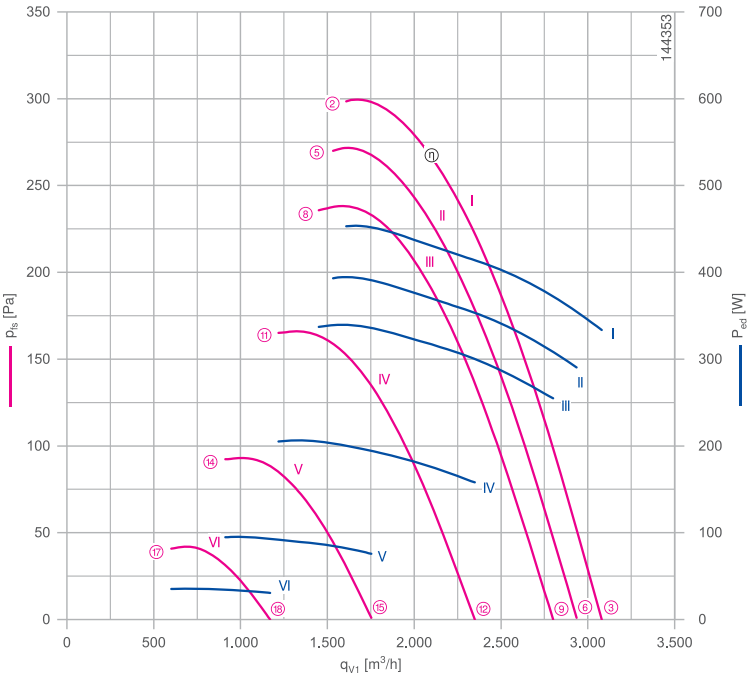
for direct current, 110 V

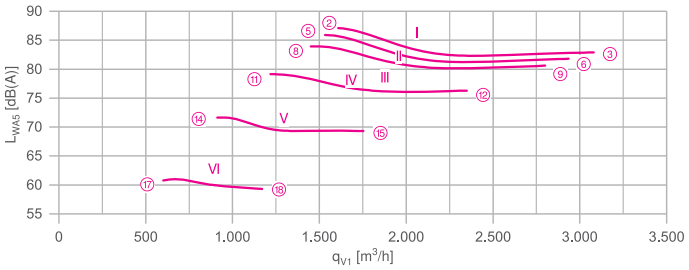
FN030

Description

Motor technology: EC
Rated voltage U_N: **DC 110 V***
Input power P_{ed}: **460 W***
Rated current I_N: **4.20 A***
Rated speed n_N: **2750 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 50 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: High Performance Composite Material, uncoated, black
Rotor: Steel, 2 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve





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

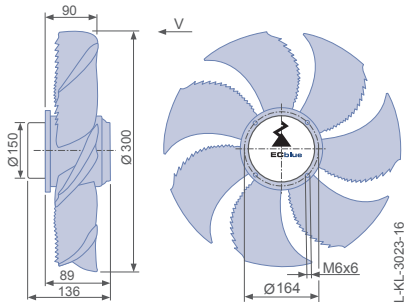
Connection diagram

1360-384

Dimensions mm

Air flow direction V

Design A - without suspension



Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature $t_{amb\ (max.)}$ °C
FN030-6I_.BA._7P2	I	**2750***	②	**4.20***	460	87	50
		2750	③	3.00	330	83	
	II	2620	⑤	3.60	390	86	60
			⑥	2.60	290	82	
	III	2500	⑧	3.10	340	84	70
			⑨	2.30	250	81	
	IV	2100	⑪	1.85	210	79	
			⑫	1.45	160	76	
	V	1570	⑭	0.86	95	71	
			⑮	0.68	75	69	
	VI	1050	⑰	0.32	36	61	
			⑱	0.28	30	59	

*rated data

Fan ordering information

Air flow direction V

Design	A
Installation position	H/Vu/Vo

Type	**FN030-6IA.BA.V7P2**
Article no.	**178861**
Weight kg	5.92

Control technology

Operating terminal

FE2owlet-ECblue

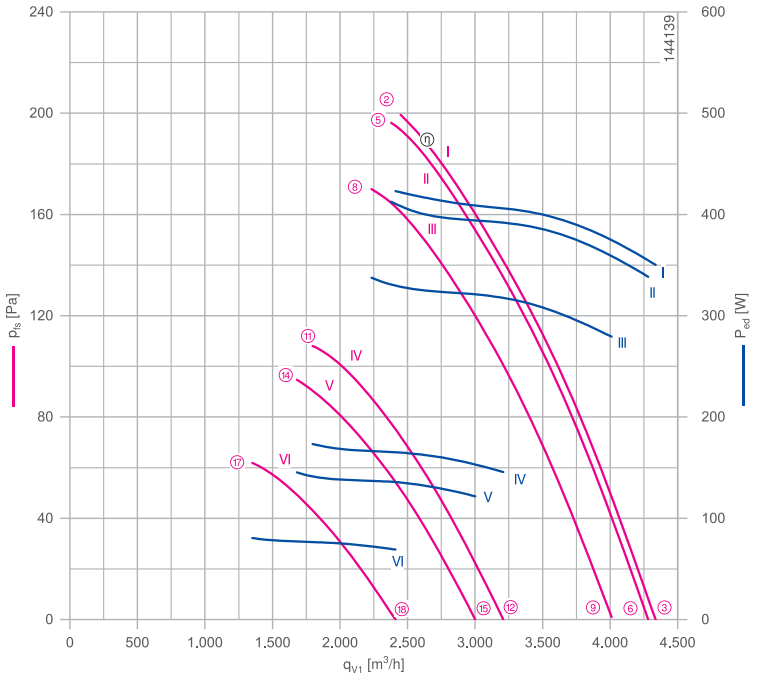
for direct current, 110 V

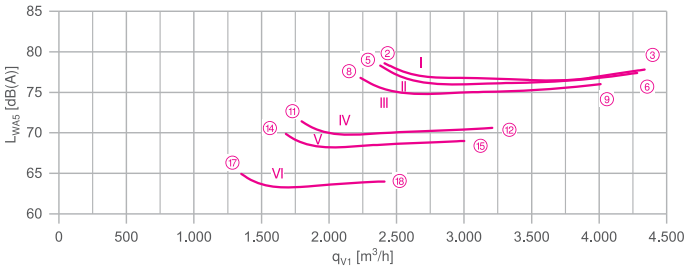
FN035

Description

Motor technology: EC
Rated voltage U_N: **DC 110 V***
Input power P_{ed}: **420 W***
Rated current I_N: **3.80 A***
Rated speed n_N: **1920 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 40 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: High Performance Composite Material, uncoated, black
Rotor: Steel, 2 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve





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

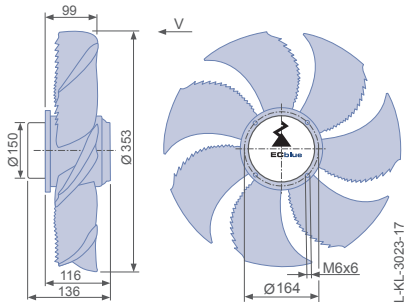
Connection diagram

1360-384

Dimensions mm

Air flow direction V

Design A - without suspension



Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature $t_{amb\ (max.)}$ °C
FN035-6I_.BA._7P2	I	**1920***	②	**3.80***	420	79	40
		1920	③	3.20	350	78	
	II	1900	⑤	3.70	420	78	50
			⑥	3.10	340	77	
	III	1780	⑧	3.10	340	77	60
			⑨	2.50	280	76	
	IV	1420	⑪	1.55	170	71	
			⑫	1.30	150	71	
	V	1330	⑭	1.30	150	70	70
			⑮	1.10	120	69	
	VI	1070	⑰	0.72	80	65	
			⑱	0.62	70	64	

*rated data

Fan ordering information

Air flow direction V

Design	A
Installation position	H/Vu/Vo

Type	**FN035-6IA.BA.V7P2**
Article no.	**178862**
Weight kg	6.05

Control technology

Operating terminal

FE2owlet-ECblue

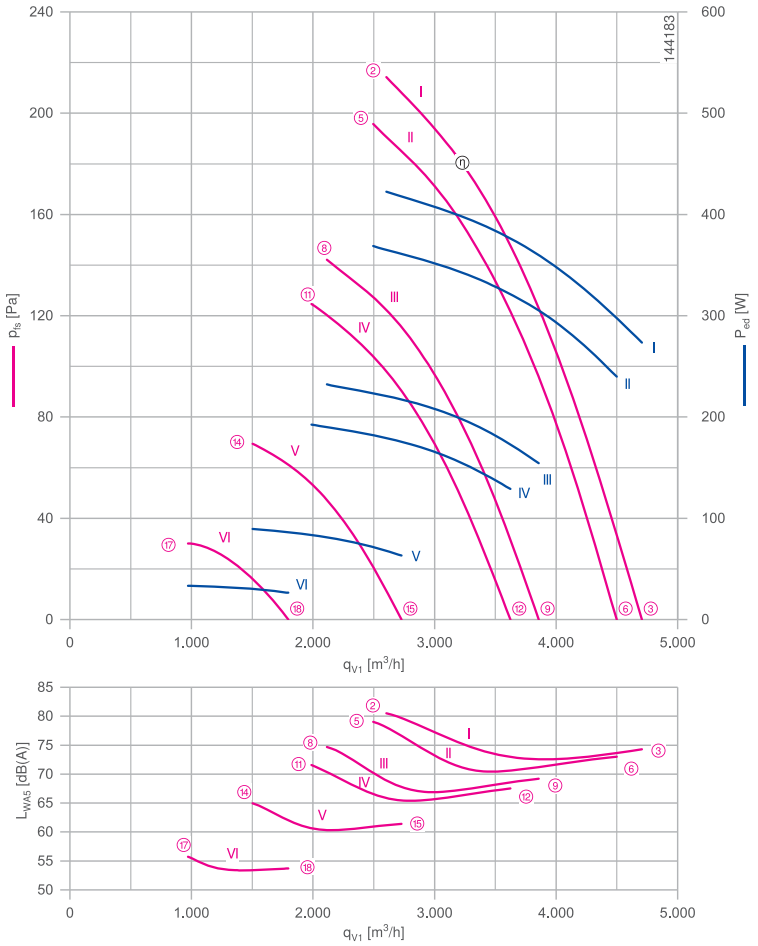
for direct current, 110 V

FN040

Description

Motor technology: EC
Rated voltage U_N: **DC 110 V***
Input power P_{ed}: **440 W***
Rated current I_N: **3.90 A***
Rated speed n_N: **1790 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 40 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: High Performance Composite Material, uncoated, black
Rotor: Steel, 2 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve



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

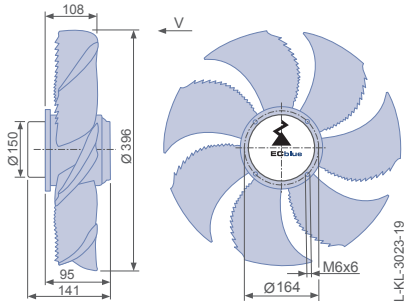
Connection diagram

1360-384

Dimensions mm

Air flow direction V

Design A - without suspension



Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature $t_{amb\ (max.)}$ °C
FN040-6I_.BD._7P1	I	**1790***	②	**3.80***	420	81	50
		1790	③	2.50	270	74	
	II	1710	⑤	3.40	370	79	60
			⑥	2.20	240	73	
	III	1450	⑧	2.10	230	75	70
			⑨	1.40	150	69	
	IV	1370	⑪	1.75	190	72	
			⑫	1.15	130	68	
	V	1030	⑭	0.82	90	65	
			⑮	0.58	65	61	
	VI	680	⑰	0.30	34	56	
			⑱	0.24	26	54	

*rated data

Fan ordering information

Air flow direction V

Design	A
Installation position	H/Vu/Vo

Type	**FN040-6IA.BD.V7P1**
Article no.	**178863**
Weight kg	6.16

Control technology

Operating terminal

FE2owlet-ECblue

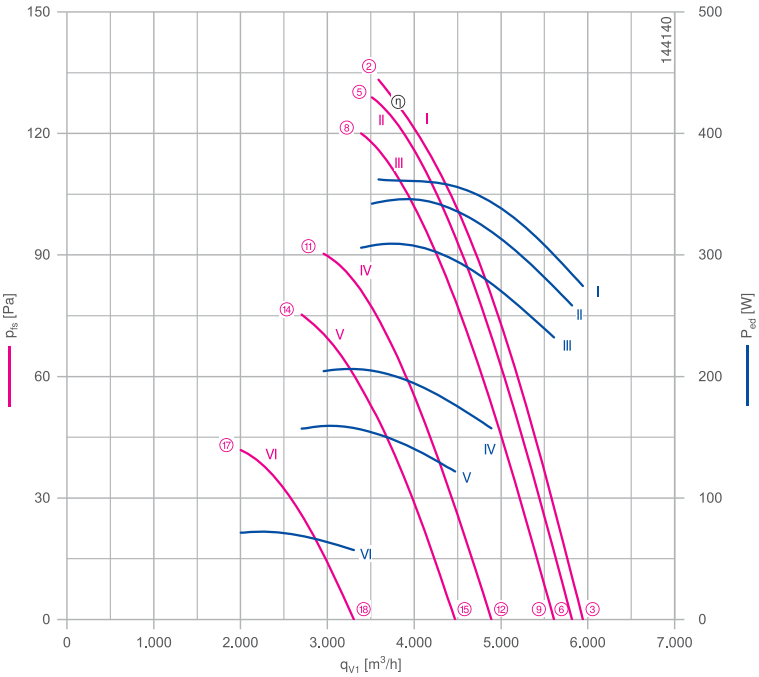
for direct current, 110 V

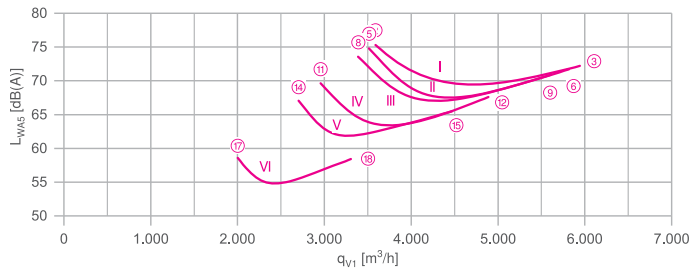
FN045

Description

Motor technology: EC
Rated voltage U_N: **DC 110 V***
Input power P_{ed}: **360 W***
Rated current I_N: **3.30 A***
Rated speed n_N: **1430 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 40 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: High Performance Composite Material, uncoated, black
Rotor: Steel, 2 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve





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

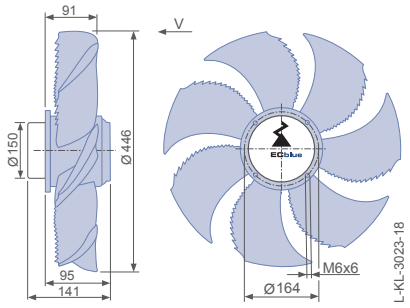
Connection diagram

1360-384

Dimensions mm

Air flow direction V

Design A - without suspension



Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature $t_{amb\ (max.)}$ °C
FN045-6I_.BD._7P2	I	**1430***	②	**3.30***	360	76	40
		1430	③	2.50	270	72	
	II	1400	⑤	3.10	340	75	50
			⑥	2.30	260	72	
	III	1350	⑧	2.80	310	74	60
			⑨	2.10	230	71	
	IV	1180	⑪	1.85	200	70	70
			⑫	1.45	160	68	
	V	1080	⑭	1.45	160	67	
			⑮	1.10	120	66	
	VI	810	⑰	0.64	70	59	
			⑱	0.52	55	58	

*rated data

Fan ordering information

Air flow direction V

Design	A
Installation position	H/Vu/Vo

Type	**FN045-6IA.BD.V7P2**
Article no.	**178864**
Weight kg	6.17

Control technology

Operating terminal

FE2owlet-ECblue

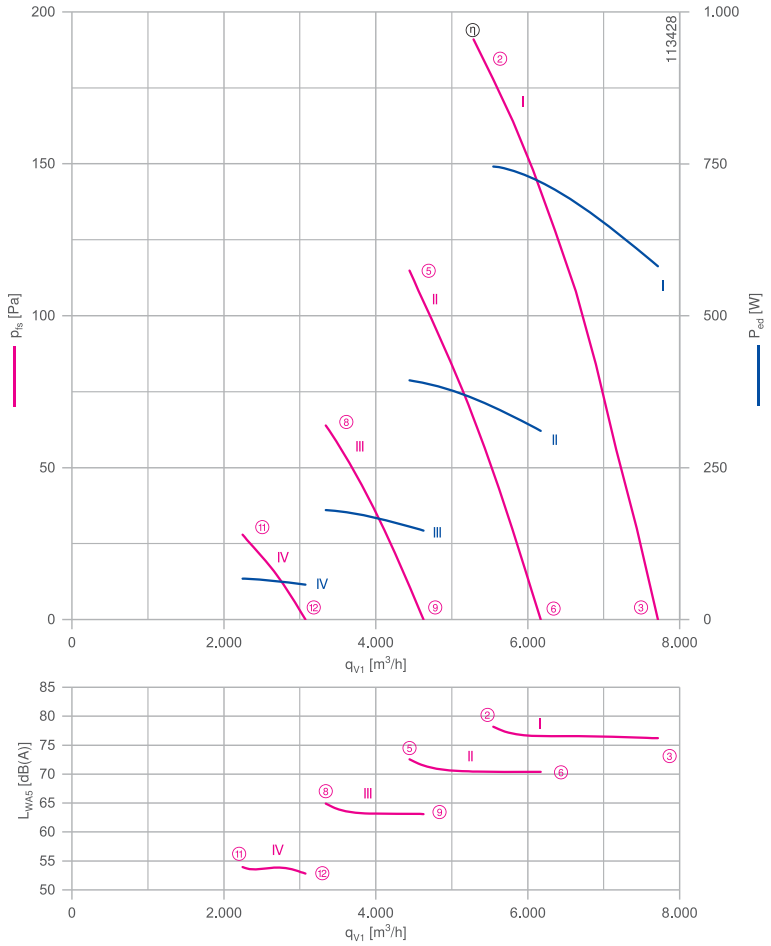
for three phase alternating current, 380-480 V

FN045

Description

Motor technology: EC
Rated voltage U_N: **3~ 380-480 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{ed}: **0.74 kW***
Rated current I_N: **1.35- 1.10 A***
Rated speed n_N: **1650 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Electrical connection: Integrated controller
Number of blades: 5
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: High Performance Composite Material, uncoated, black
Rotor: Steel, 2 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve



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

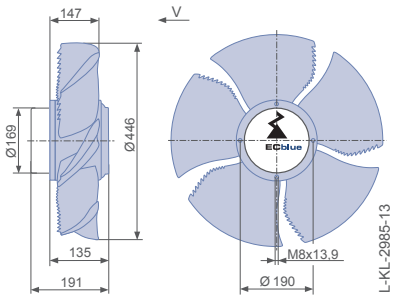
Connection diagram

1360-403

Dimensions mm

Air flow direction V

Design A - without suspension



Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)
FN045-ZI_.DC._5P4	I	1650	②	1.30	740	78
			③	1.05	580	76
	II	1320	⑤	0.84	390	72
			⑥	0.74	310	70
	III	990	⑧	0.54	180	65
			⑨	0.46	150	63
	IV	660	⑪	0.34	65	54
			⑫	0.32	60	53

Current values determined at 400V

Fan ordering information

Air flow direction V

Design	A
Installation position	H/Vu/Vo

Type	**FN045-ZIA.DC.V5P4**
Article no.	**178865**
Weight kg	9.40

Control technology

Add-on modules

Operating terminal

FE2owlet-ECblue

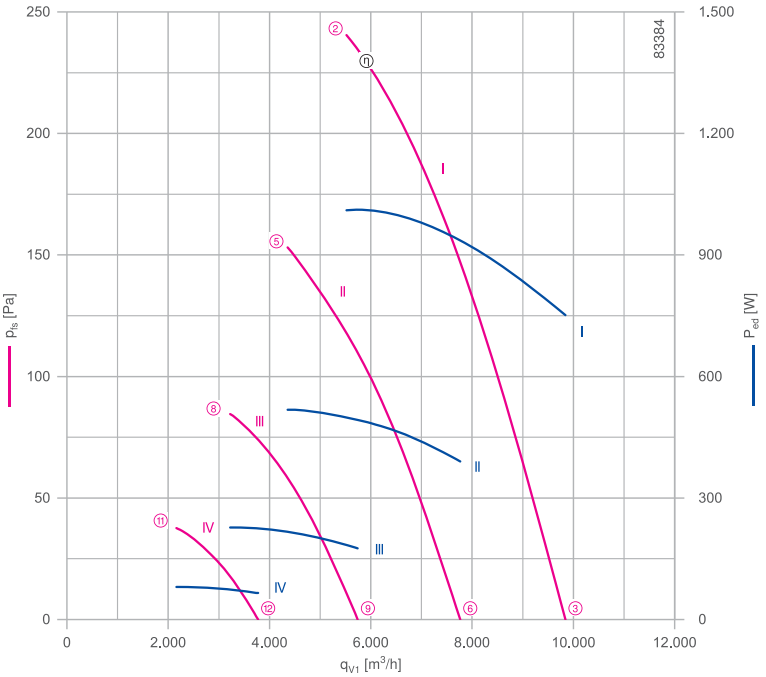
for three phase alternating current, 380-480 V

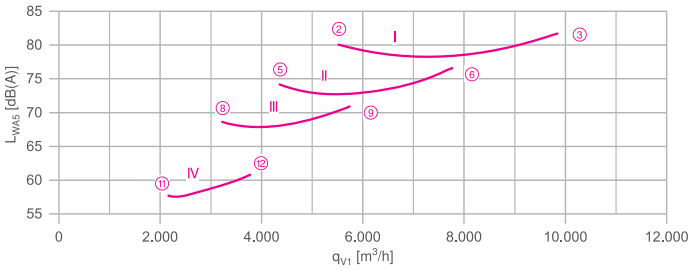
FN050

Description

Motor technology: EC
Rated voltage U_N: **3~ 380-480 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{ed}: **1.00 kW***
Rated current I_N: **1.70- 1.35 A***
Rated speed n_N: **1550 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: High Performance Composite Material, uncoated, black
Rotor: Steel, 2 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve





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

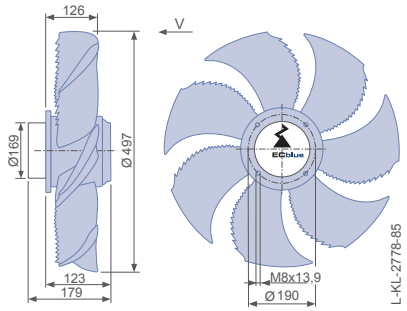
Connection diagram

1360-403

Dimensions mm

Air flow direction V

Design A - without suspension



Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)
FN050-ZI_.DC._7P2	I	1550	②	1.60	1000	80
			③	1.25	760	82
	II	1240	⑤	0.92	520	74
			⑥	0.76	390	77
	III	930	⑧	0.54	230	69
			⑨	0.46	180	71
	IV	620	⑪	0.29	80	58
			⑫	0.26	65	61

Current values determined at 400V

Fan ordering information

Air flow direction V

Design	A
Installation position	H/Vu/Vo

Type	**FN050-ZIA.DC.V7P2**
Article no.	**178866**
Weight kg	9.60

Control technology

Add-on modules

Operating terminal

FE2owlet-ECblue

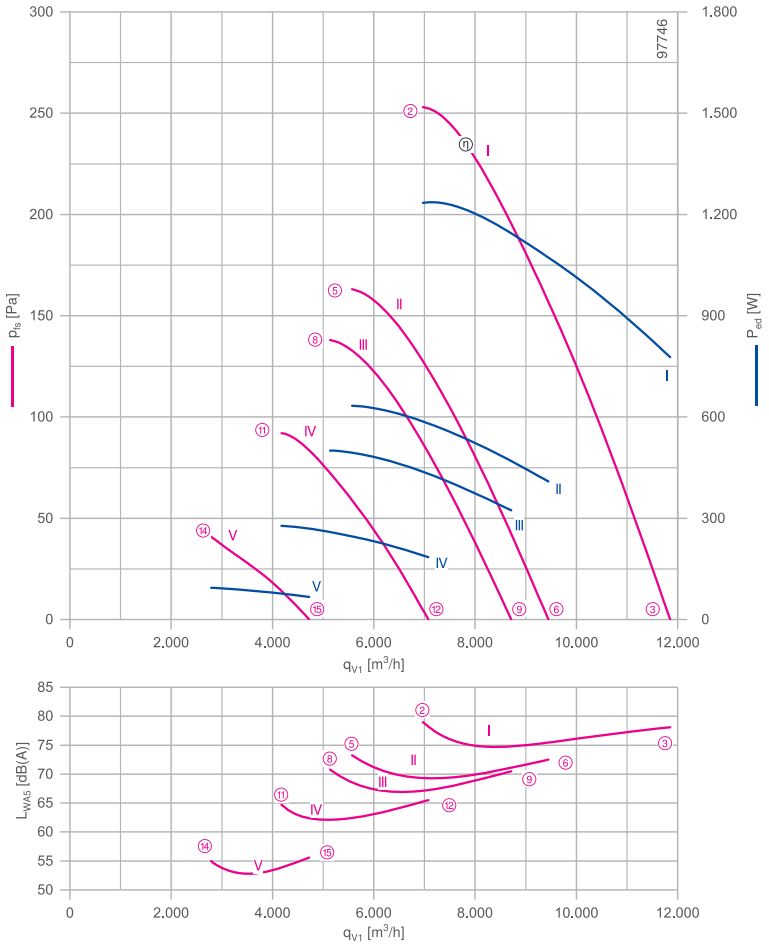
for three phase alternating current, 380-480 V

FN056

Description

Motor technology: EC
Rated voltage U_N: **3~ 380-480 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{ed}: **1.25 kW***
Rated current I_N: **2.10- 1.65 A***
Rated speed n_N: **1450 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Electrical connection: Integrated controller
Number of blades: 5
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: High Performance Composite Material, uncoated, black
Rotor: Steel, 2 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve



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

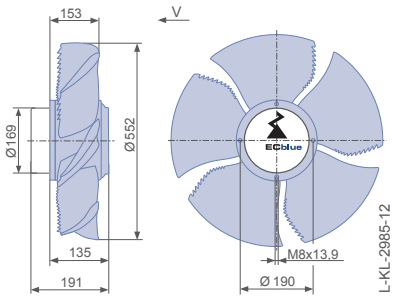
Connection diagram

1360-403

Dimensions mm

Air flow direction V

Design A - without suspension



Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)
FN056-ZI_.DC._5P4	I	1450	②	1.95	1250	79
			③	1.30	780	78
	II	1160	⑤	1.10	640	73
			⑥	0.80	400	73
	III	1070	⑧	0.94	500	71
			⑨	0.72	320	71
	IV	870	⑪	0.64	280	65
			⑫	0.50	180	66
	V	580	⑭	0.32	95	55
			⑮	0.26	65	56

Current values determined at 400V

Fan ordering information

Air flow direction V

Design	A
Installation position	H/Vu/Vo

Type	**FN056-ZIA.DC.V5P4**
Article no.	**178867**
Weight kg	10.00

Control technology

Add-on modules

Operating terminal

FE2owlet-ECblue

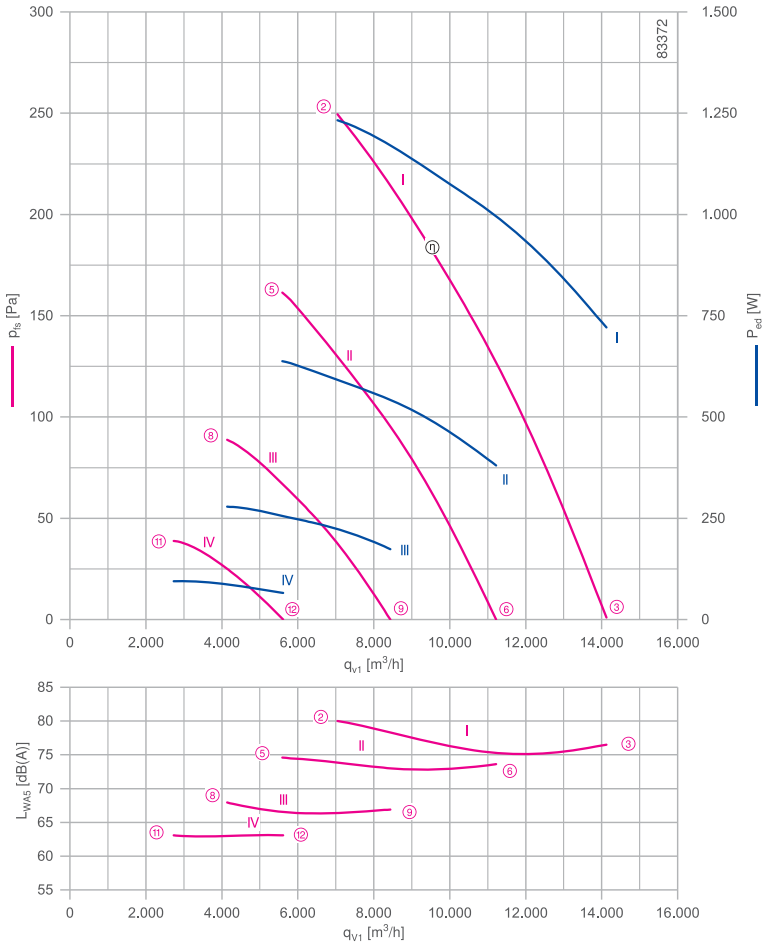
for three phase alternating current, 380-480 V

FN063

Description

Motor technology: EC
Rated voltage U_N: **3~ 380-480 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{ed}: **1.25 kW***
Rated current I_N: **2.00- 1.60 A***
Rated speed n_N: **1200 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: High Performance Composite Material, uncoated, black
Rotor: Steel, 2 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve



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

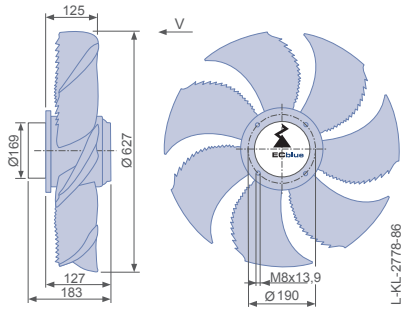
Connection diagram

1360-403

Dimensions mm

Air flow direction V

Design A - without suspension



Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)
FN063-ZI_.DG._7P2	I	1200	②	1.90	1250	81
			③	1.20	720	77
	II	960	⑤	1.05	580	78
			⑥	0.74	380	74
	III	720	⑧	0.60	270	69
			⑨	0.44	170	67
	IV	480	⑪	0.29	95	63
			⑫	0.25	65	63

Current values determined at 400V

Fan ordering information

Air flow direction V

Design	A
Installation position	H/Vu/Vo

Type	**FN063-ZIA.DG.V7P2**
Article no.	**178868**
Weight kg	11.50

Control technology

Add-on modules

Operating terminal

FE2owlet-ECblue

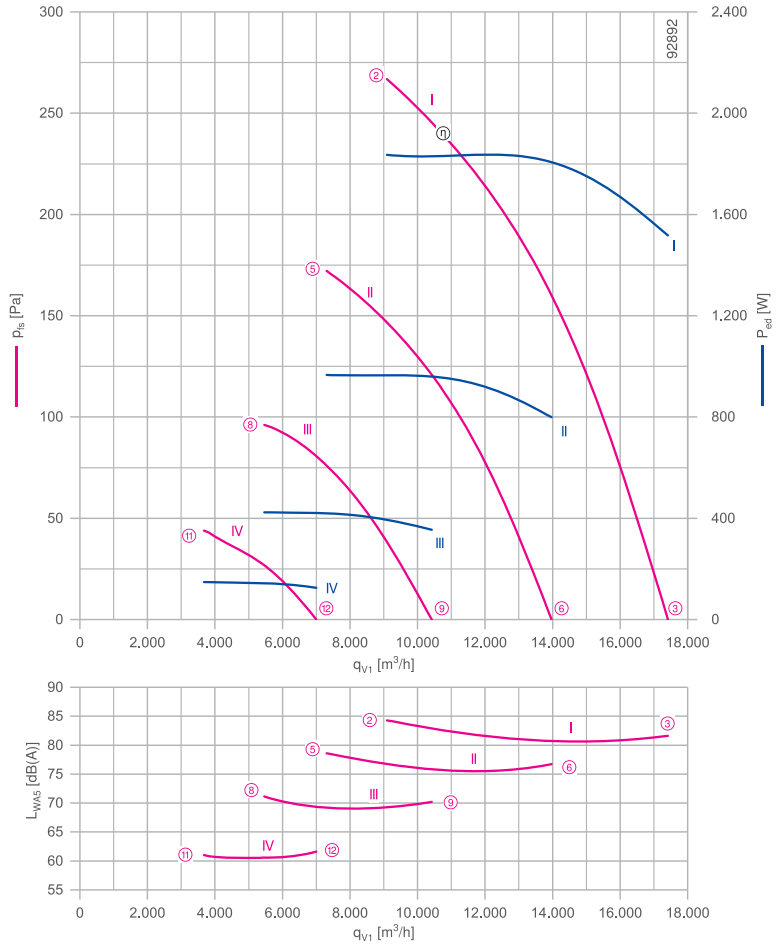
for three phase alternating current, 380-480 V

FN063

Description

Motor technology: EC
Rated voltage U_N: **3~ 380-480 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{ed}: **1.85 kW***
Rated current I_N: **3.10- 2.50 A***
Rated speed n_N: **1270 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 65 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: Aluminium, powder-coated, jet black
Rotor: Aluminium, 1 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve



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

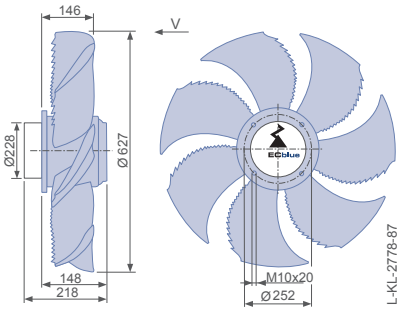
Connection diagram

1360-403

Dimensions mm

Air flow direction V

Design A - without suspension



Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)
FN063-ZI_.GG._7P3	I	1270	②	3.00	1850	84
			③	2.50	1500	82
	II	1020	⑤	1.70	960	79
			⑥	1.45	800	77
	III	760	⑧	0.84	420	71
			⑨	0.72	360	70
	IV	510	⑪	0.36	150	61
			⑫	0.32	130	62

Current values determined at 400V

Fan ordering information

Air flow direction V

Design	A
Installation position	H/Vu/Vo

Type	**FN063-ZIA.GG.V7P3**
Article no.	**178869**
Weight kg	24.40

Control technology

Add-on modules

Operating terminal

FE2owlet-ECblue

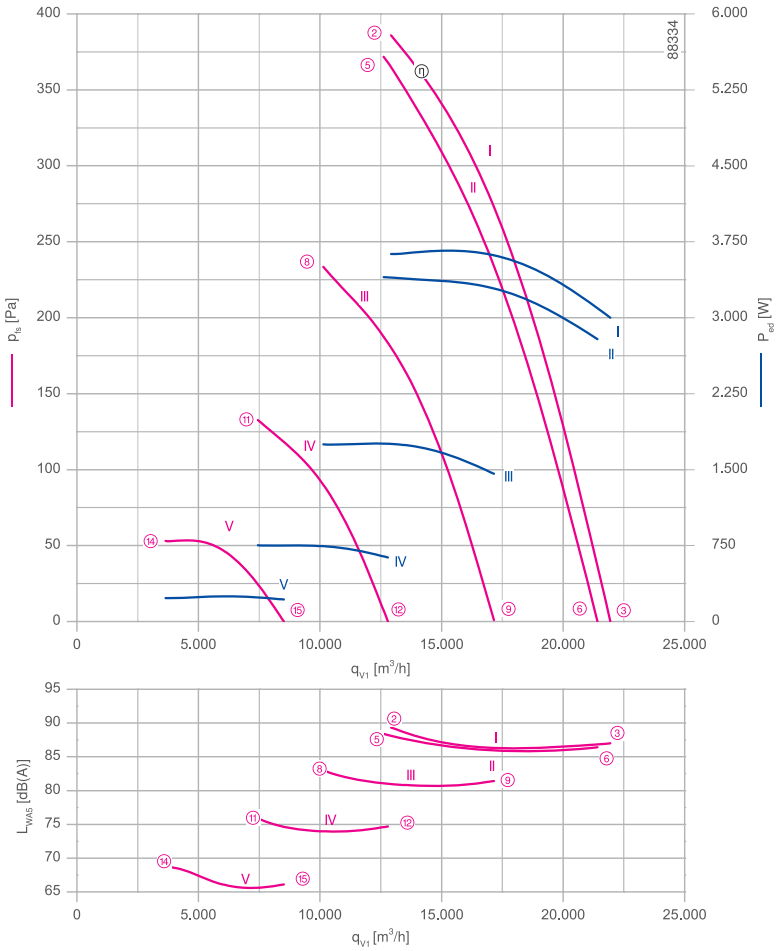
for three phase alternating current, 380-480 V

FN063

Description

Motor technology: EC
Rated voltage U_N: **3~ 380-480 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{ed}: **3.70 kW***
Rated current I_N: **5.90- 4.70 A***
Rated speed n_N: **1600 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 55 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: Aluminium, powder-coated, jet black
Rotor: Aluminium, 1 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve



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

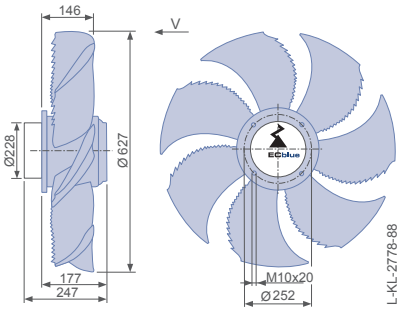
Connection diagram

1360-403

Dimensions mm

Air flow direction V

Design A - without suspension



Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature $t_{amb\ (max.)}$ °C
FN063-ZI_.GL._7P3	I	1600	②	5.60	3600	91	55
			③	4.60	3000	87	
	II	1560	⑤	5.20	3400	90	60
			⑥	4.20	2800	86	
	III	1250	⑧	2.70	1750	85	
			⑨	2.30	1450	81	
	IV	930	⑪	1.25	740	77	
			⑫	1.10	640	75	
	V	620	⑭	0.60	250	67	
			⑮	0.54	220	66	

Current values determined at 400V

Fan ordering information

Air flow direction V

Design	A
Installation position	H/Vu/Vo

Type	**FN063-ZIA.GL.V7P3**
Article no.	**178870**
Weight kg	28.80

Control technology

Add-on modules

Operating terminal

FE2owlet-ECblue

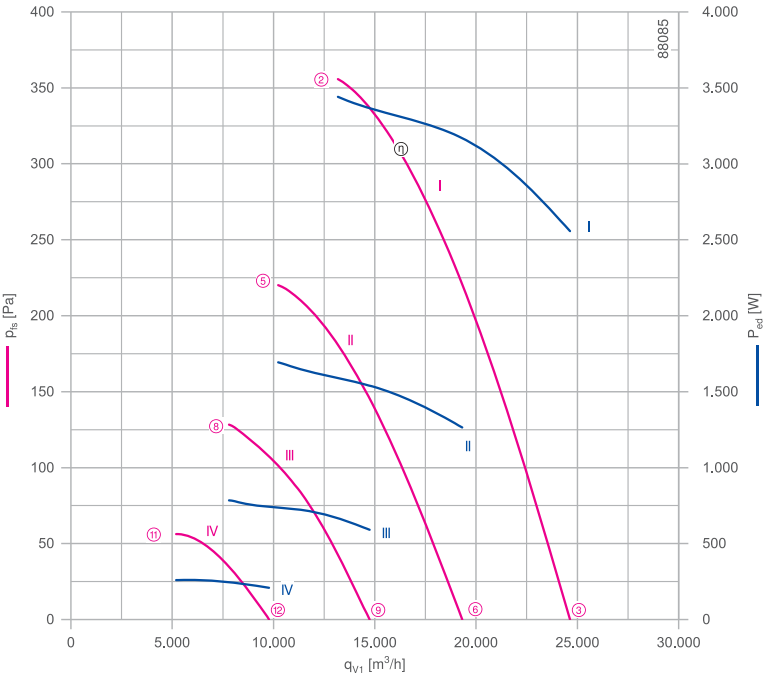
for three phase alternating current, 380-480 V

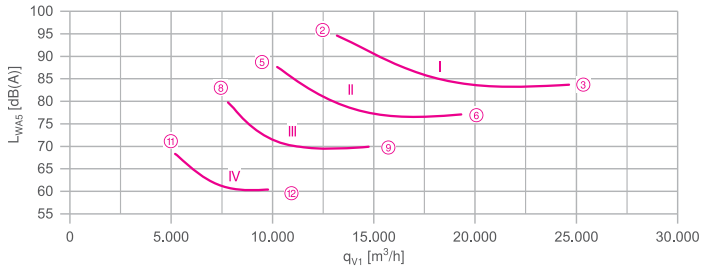
FN071

Description

Motor technology: EC
Rated voltage U_N: **3~ 380-480 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{ed}: **3.50 kW***
Rated current I_N: **5.40- 4.30 A***
Rated speed n_N: **1400 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: Aluminium, powder-coated, jet black
Rotor: Aluminium, 1 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve





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

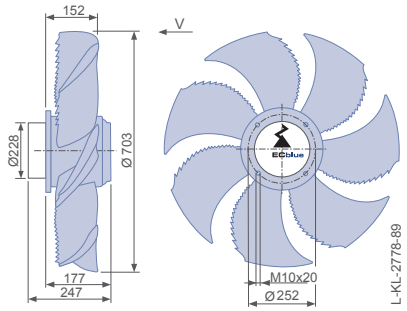
Connection diagram

1360-403

Dimensions mm

Air flow direction V

Design A - without suspension



Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)
FN071-ZI_.GL._7P4	I	1400	②	5.20	3500	95
			③	3.90	2600	84
	II	1100	⑤	2.60	1700	88
			⑥	1.95	1250	77
	III	840	⑧	1.30	780	80
			⑨	1.00	600	70
	IV	560	⑪	0.60	260	69
			⑫	0.50	210	60

Current values determined at 400V

Fan ordering information

Air flow direction V

Design	A
Installation position	H/Vu/Vo

Type	**FN071-ZIA.GL.V7P4**
Article no.	**178871**
Weight kg	27.40

Control technology

Add-on modules

Operating terminal

FE2owlet-ECblue

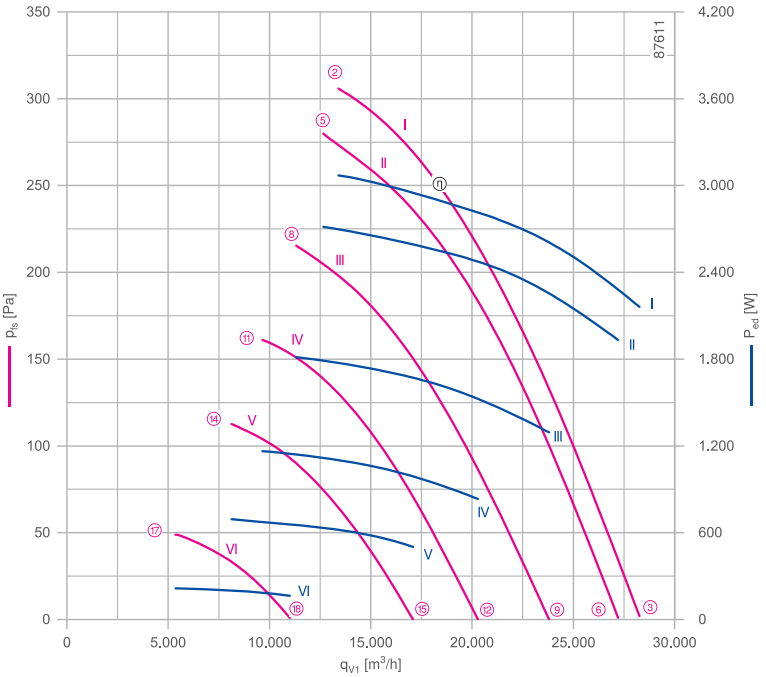
for three phase alternating current, 380-480 V

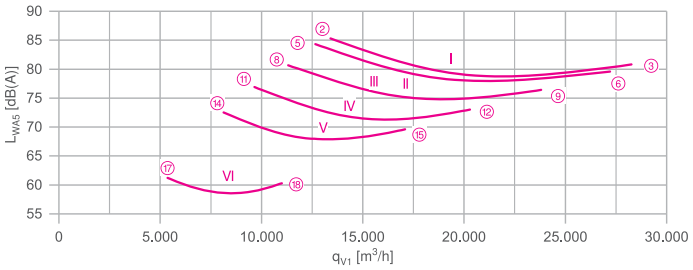
FN080

Description

Motor technology: EC
Rated voltage U_N: **3~ 380-480 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{ed}: **3.10 kW***
Rated current I_N: **4.80- 3.80 A***
Rated speed n_N: **1100 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 55 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: Aluminium, powder-coated, jet black
Rotor: Aluminium, 1 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve





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

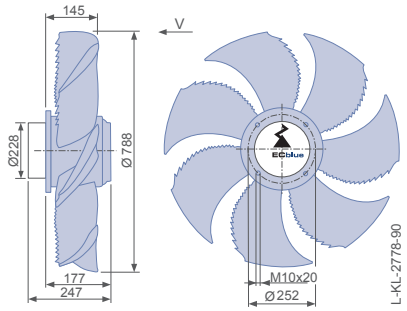
Connection diagram

1360-403

Dimensions mm

Air flow direction V

Design A - without suspension



Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature $t_{amb\ (max.)}$ °C
FN080-ZI_.GL._7P3	I	1100	②	4.60	3100	86	55
			③	3.30	2200	81	
	II	1060	⑤	4.20	2700	84	60
			⑥	2.90	1950	80	
	III	930	⑧	2.80	1800	81	
			⑨	2.00	1300	76	
	IV	800	⑪	1.80	1150	77	
			⑫	1.35	840	73	
	V	670	⑭	1.15	680	73	
			⑮	0.90	500	70	
	VI	440	⑰	0.52	220	61	
			⑱	0.44	160	60	

Current values determined at 400V

Fan ordering information

Air flow direction V

Design	A
Installation position	H/Vu/Vo

Type	**FN080-ZIA.GL.V7P3**
Article no.	**178872**
Weight kg	30.70

Control technology

Add-on modules

Operating terminal

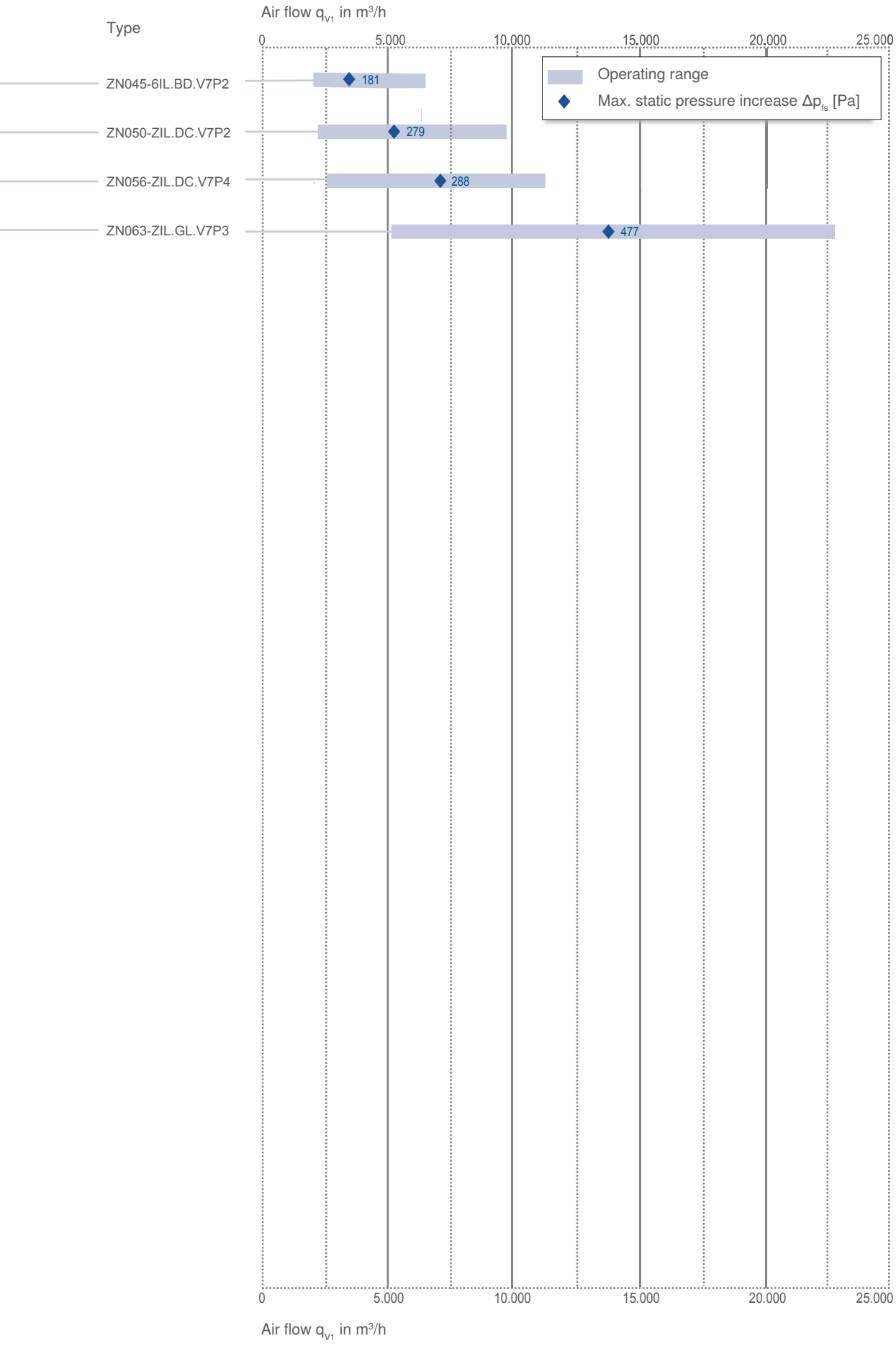

Bewegung durch Perfektion | Movement by Perfection
ZIEHL-ABEGG

FE2owlet-ECblue with ZAplus

EC-Technology

Product overview

Size	Voltage	Type	Air flow direction	Page
450	110V DC	ZN045-6IL.BD.V7P2	⇐ V	50
500	3~ 380-480V	ZN050-ZIL.DC.V7P2	⇐ V	52
560	3~ 380-480V	ZN056-ZIL.DC.V7P4	⇐ V	54
630	3~ 380-480V	ZN063-ZIL.GL.V7P3	⇐ V	56


Type
Air flow q_{v1} in m³/h
0
5.000
10.000
15.000
20.000
25.000
Operating range
Max. static pressure increase Δp_{fs} [Pa]
ZN045-6IL.BD.V7P2
181
ZN050-ZIL.DC.V7P2
279
ZN056-ZIL.DC.V7P4
288
ZN063-ZIL.GL.V7P3
477
Air flow q_{v1} in m³/h

FE2owlet-ECblue with ZAplus

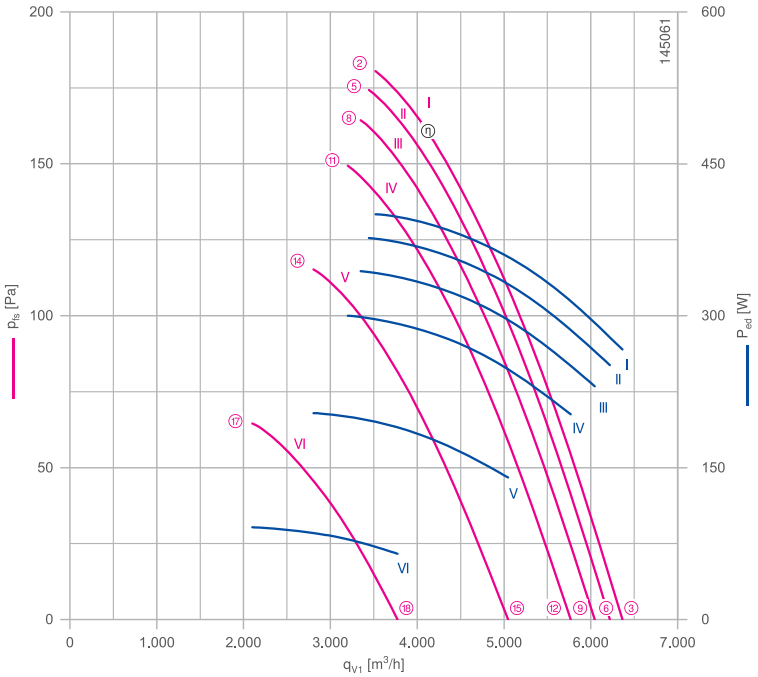
for direct current, 110 V

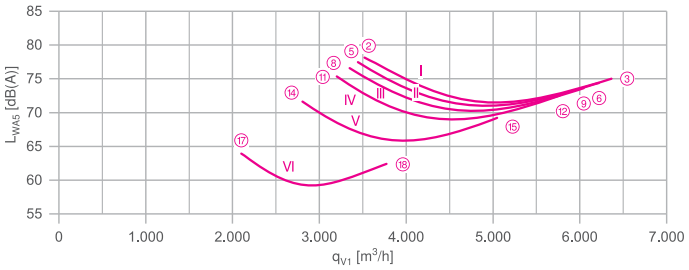
ZN045

Description

Motor technology: EC
Rated voltage U_N: **DC 110 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{ed}: **400 W***
Rated current I_N: **3.60 A***
Rated speed n_N: **1460 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 40 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: High Performance Composite Material, uncoated, black
Rotor: Steel, 2 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve





Measured in ZAplus without guard grille in installation type A according to ISO 5801

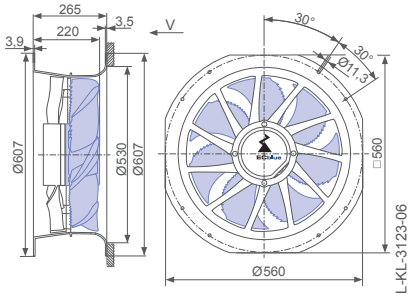
Connection diagram

1360-384

Dimensions mm

Air flow direction V

Design L - ZAplus Ontop without guard grille



Performance data

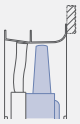
Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature $t_{amb\ (max.)}$ °C
ZN045-6I_.BD.V7P2	I	**1460***	②	**3.60***	400	78	40
		1460	③	2.40	270	75	
	II	1430	⑤	3.40	380	78	50
			⑥	2.30	250	74	
	III	1390	⑧	3.10	340	77	60
			⑨	2.10	230	74	
	IV	1330	⑪	2.70	300	76	70
			⑫	1.85	200	73	
	V	1170	⑭	1.85	200	72	
			⑮	1.25	140	69	
	VI	880	⑰	0.82	90	64	
			⑱	0.58	65	62	

*rated data

Fan ordering information

Air flow direction V

Design	L (without guard grille) Ontop
Installation position	H/Vu/Vo



Type	**ZN045-6IL.BD.V7P2**
Article no.	**179754**
Weight kg	9.20

Control technology

Operating terminal

FE2owlet-ECblue with ZAplus

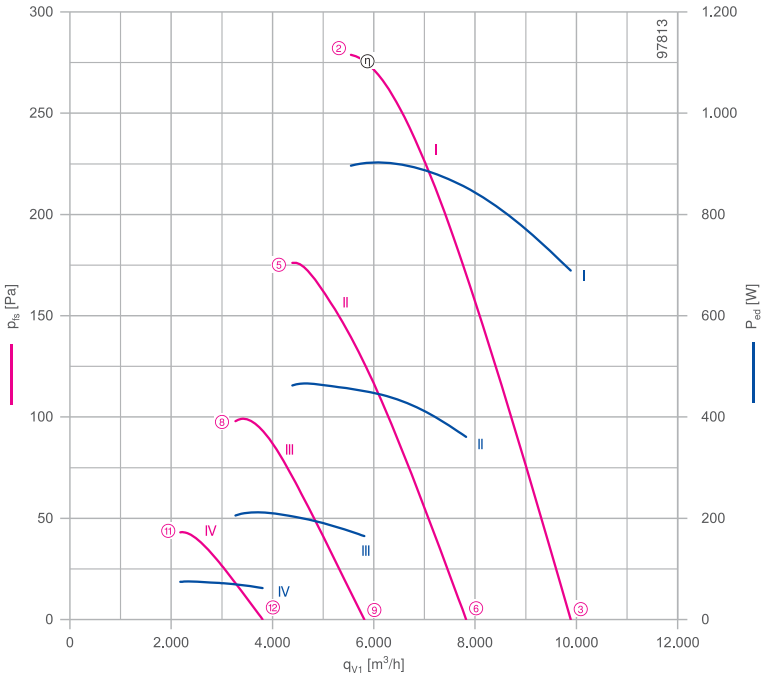
for three phase alternating current, 380-480 V

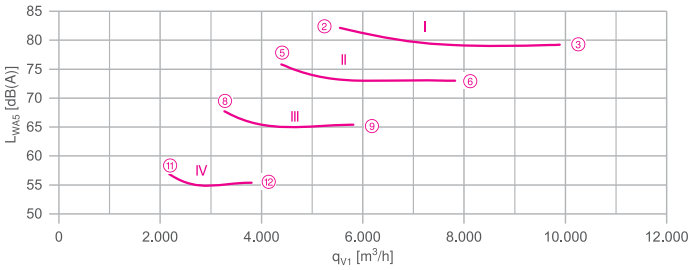
ZN050

Description

Motor technology: EC
Rated voltage U_N: **3~ 380-480 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{ed}: **0.90 kW***
Rated current I_N: **1.55- 1.25 A***
Rated speed n_N: **1550 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 60 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: High Performance Composite Material, uncoated, black
Rotor: Steel, 2 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve





Measured in ZAplus without guard grille in installation type A according to ISO 5801

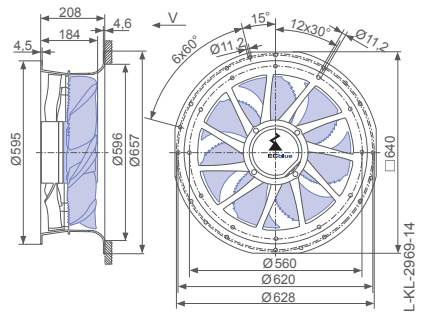
Connection diagram

1360-403

Dimensions mm

Air flow direction V

Design L - ZAplus Ontop without guard grille



Performance data

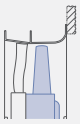
Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)
ZN050-ZI_.DC.V7P2	I	1550	②	1.45	900	82
			③	1.20	680	79
	II	1240	⑤	0.90	460	76
			⑥	0.76	360	73
	III	930	⑧	0.54	210	68
			⑨	0.46	160	65
	IV	620	⑪	0.29	75	57
			⑫	0.26	60	55

Current values determined at 400V

Fan ordering information

Air flow direction V

Design	L (without guard grille) Ontop
Installation position	H/Vu/Vo



Type	**ZN050-ZIL.DC.V7P2**
Article no.	**179755**
Weight kg	13.90

Control technology

Add-on modules

Operating terminal

FE2owlet-ECblue with ZAplus

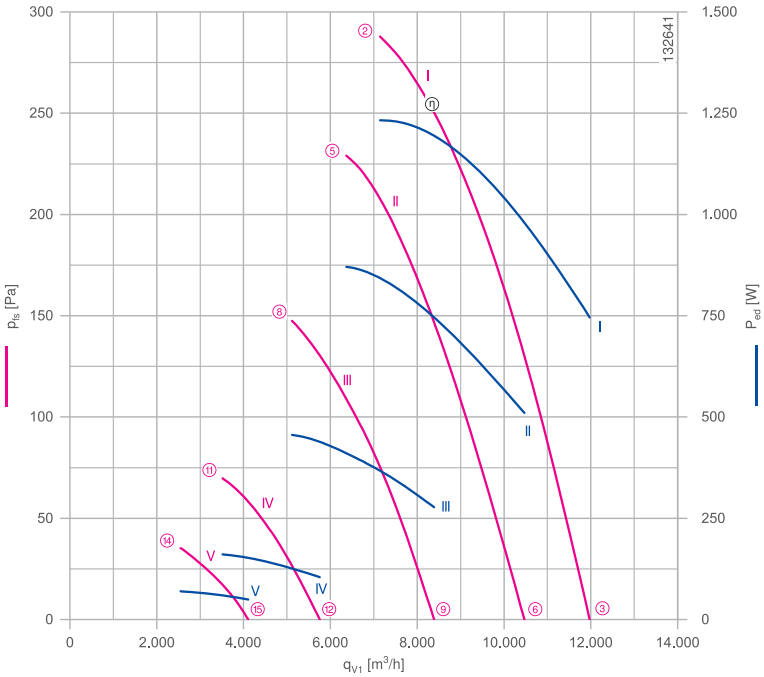
for three phase alternating current, 380-480 V

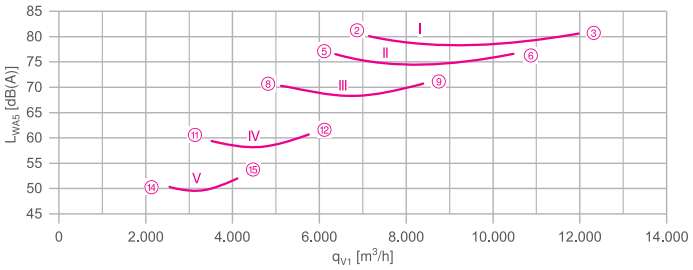
ZN056

Description

Motor technology: EC
Rated voltage U_N: **3~ 380-480 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{ed}: **1.25 kW***
Rated current I_N: **2.00- 1.60 A***
Rated speed n_N: **1440 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 50 °C
Electrical connection: Integrated controller
Number of blades: 5
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: High Performance Composite Material, uncoated, black
Rotor: Steel, 2 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve





Measured in ZAplus without guard grille in installation type A according to ISO 5801

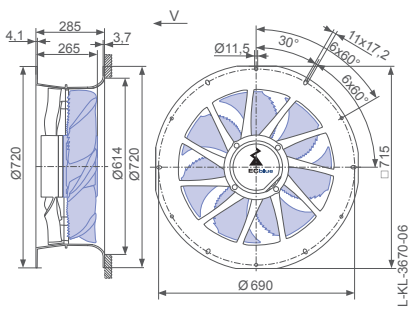
Connection diagram

1360-403

Dimensions mm

Air flow direction V

Design L - ZAplus Ontop without guard grille



Performance data

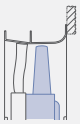
Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature $t_{amb\ (max.)}$ °C
ZN056-ZI_.DC.V5P4	I	1450	②	1.95	1250	80	50
			③	1.25	740	81	
	II	1270	⑤	1.45	880	76	60
			⑥	0.96	520	77	
	III	1020	⑧	0.88	460	70	
			⑨	0.64	280	71	
	IV	700	⑪	0.46	160	59	70
			⑫	0.34	100	61	
	V	500	⑭	0.27	70	51	
			⑮	0.23	50	52	

Current values determined at 400V

Fan ordering information

Air flow direction V

Design	L (without guard grille) Ontop
Installation position	H/Vu/Vo



Type **Article no.**	**ZN056-ZIL.DC.V5P4** **179756**
Weight kg	16.70

Control technology

Add-on modules

Operating terminal

FE2owlet-ECblue with ZAplus

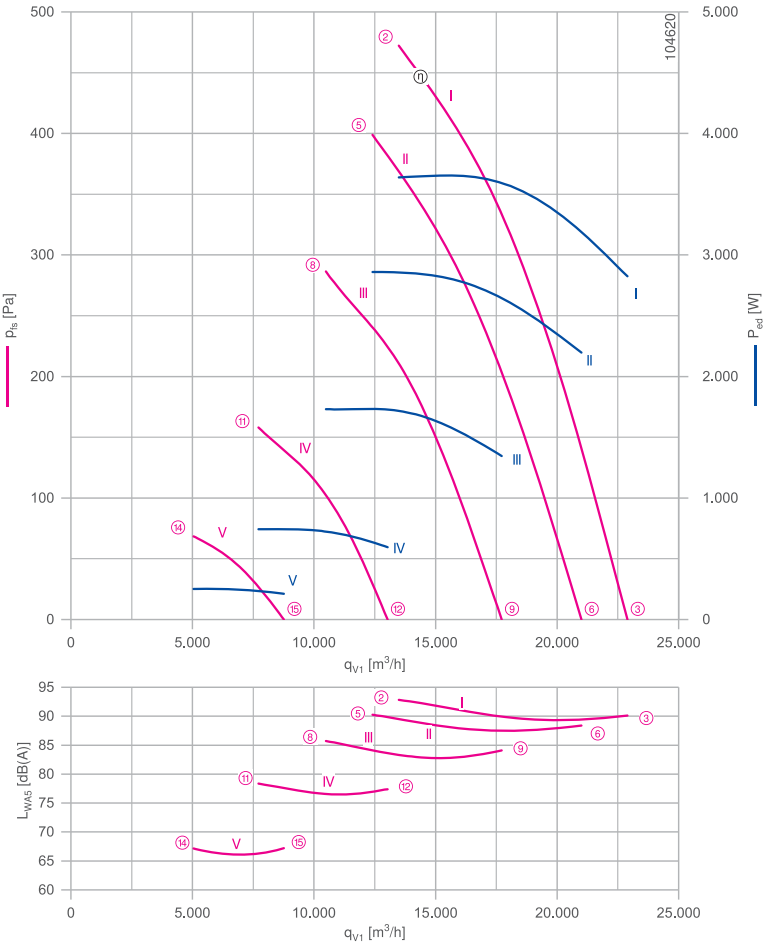
for three phase alternating current, 380-480 V

ZN063

Description

Motor technology: EC
Rated voltage U_N: **3~ 380-480 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{ed}: **3.70 kW***
Rated current I_N: **6.00- 4.70 A***
Rated speed n_N: **1600 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{amb(min)}$: -35 °C***
Max. permitted ambient temperature $t_{amb(max)}$: 55 °C
Electrical connection: Integrated controller
Number of blades: 7
Degree of protection : IP54
Motor protection: Integrated active temperature management
Blades: Aluminium, powder-coated, jet black
Rotor: Aluminium, 1 coat paint, ultramarine blue
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve



Measured in ZAplus without guard grille in installation type A according to ISO 5801

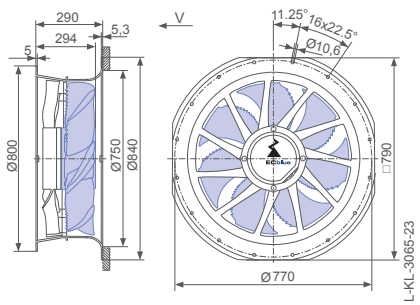
Connection diagram

1360-403

Dimensions mm

Air flow direction V

Design L - ZAplus Ontop without guard grille



Performance data

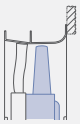
Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{ed} W	Suction side sound power level L_{WA5} dB(A)	Maximum ambient temperature $t_{amb\ (max.)}$ °C
ZN063-ZI_.GL.V7P3	I	1600	②	5.60	3600	93	55
			③	4.40	2800	90	
	II	1480	⑤	4.40	2900	90	60
			⑥	3.40	2200	88	
	III	1250	⑧	2.70	1700	86	
			⑨	2.10	1350	84	
	IV	930	⑪	1.25	740	78	
			⑫	1.05	600	77	
	V	620	⑭	0.58	250	67	
			⑮	0.52	210	67	

Current values determined at 400V

Fan ordering information

Air flow direction V

Design	L (without guard grille) Ontop
Installation position	H/Vu/Vo

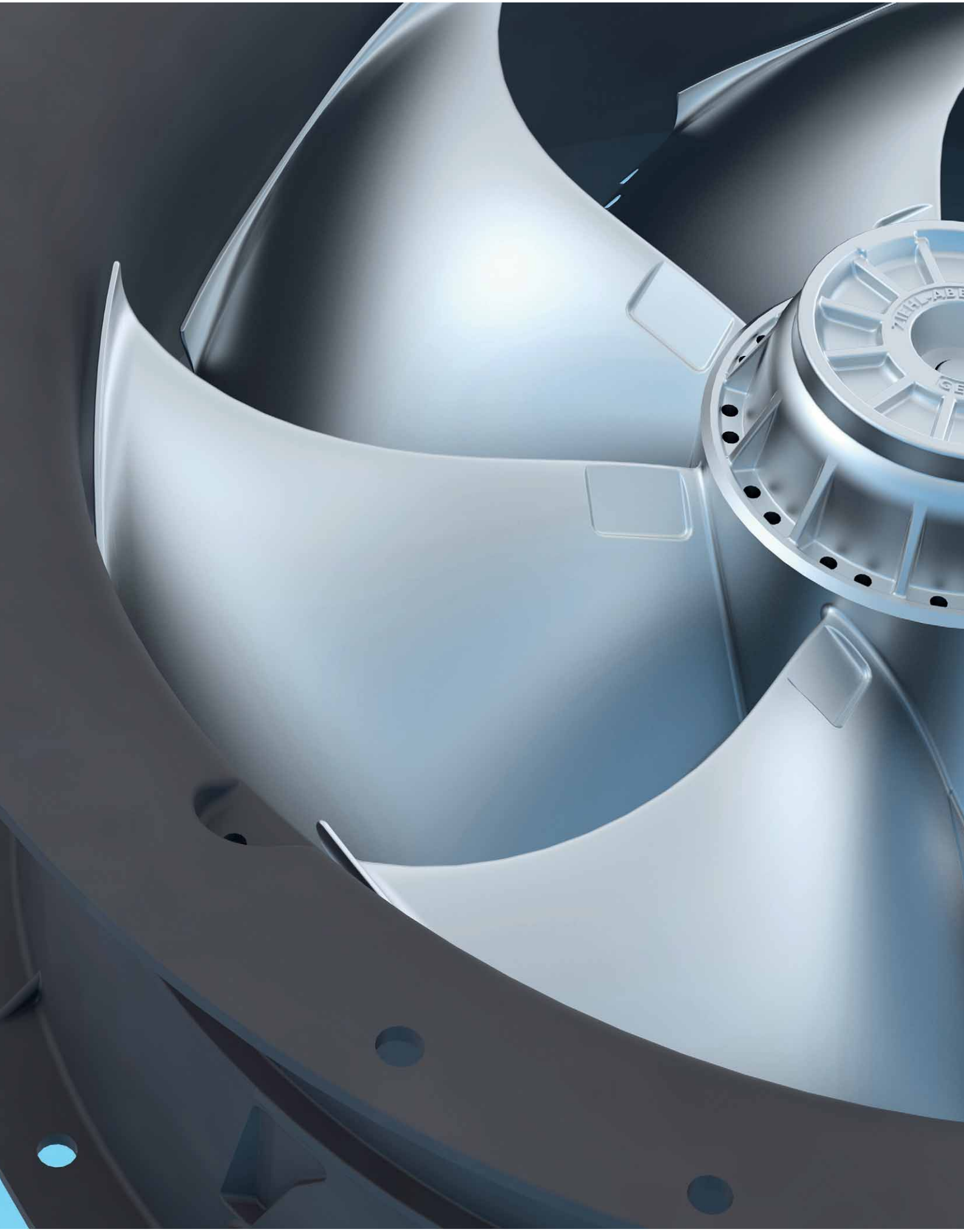


Type	**ZN063-ZIL.GL.V7P3**
Article no.	**179757**
Weight kg	37.42

Control technology

Add-on modules

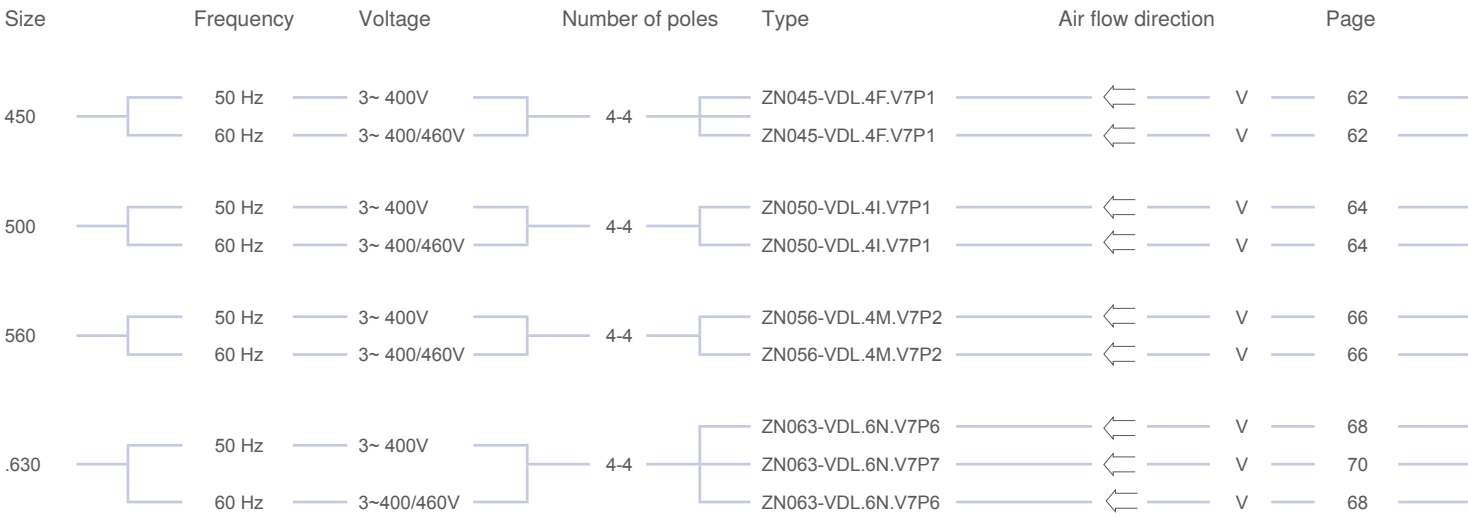
Operating terminal

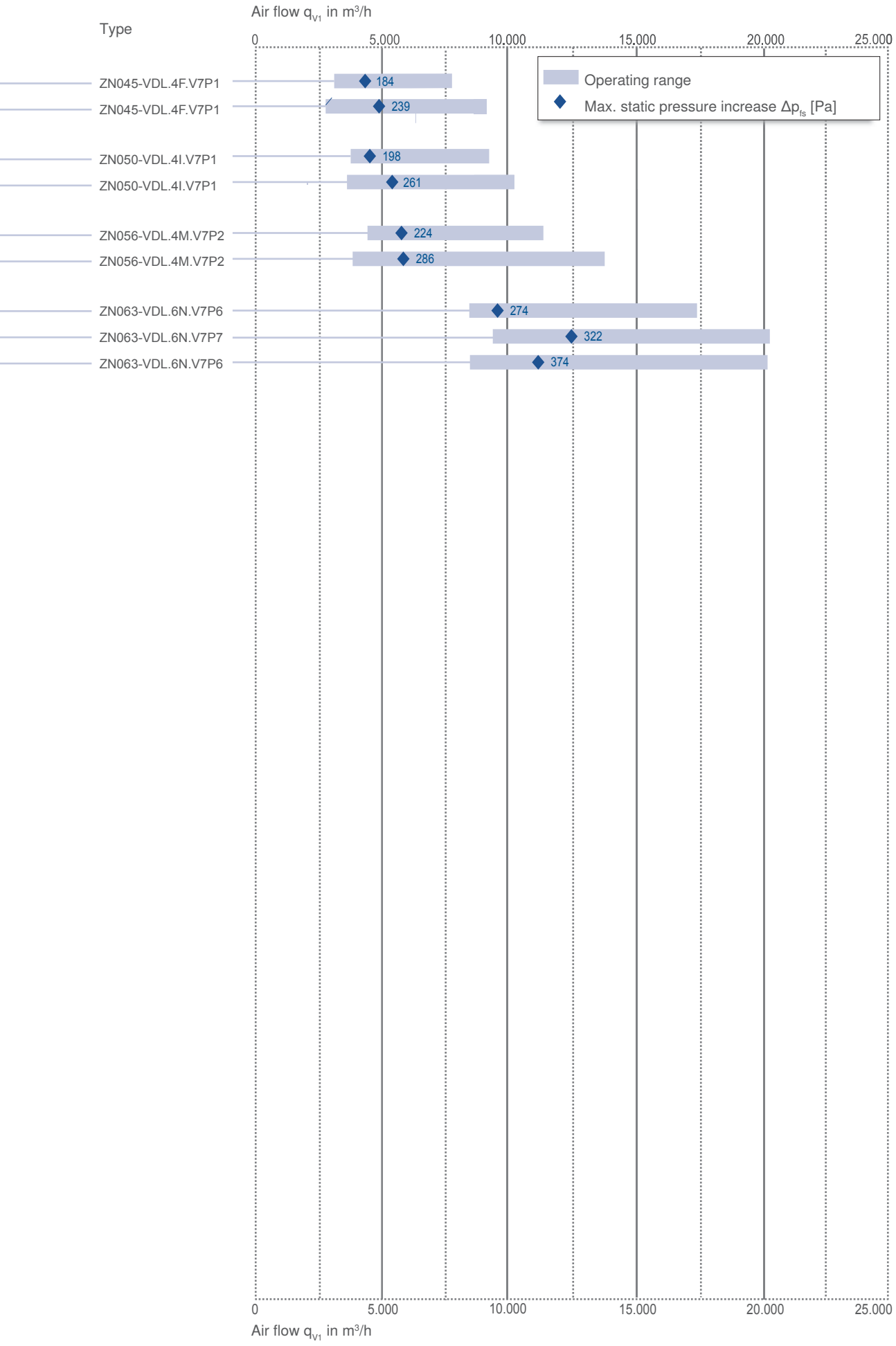


FE2owlet with ZAplus

AC-Technology

Product overview


Size
Frequency
Voltage
Number of poles
Type
Air flow direction
Page
450
50 Hz
60 Hz
3~ 400V
3~ 400/460V
4-4
ZN045-VDL.4F.V7P1
ZN045-VDL.4F.V7P1
V
V
62
62
500
50 Hz
60 Hz
3~ 400V
3~ 400/460V
4-4
ZN050-VDL.4I.V7P1
ZN050-VDL.4I.V7P1
V
V
64
64
560
50 Hz
60 Hz
3~ 400V
3~ 400/460V
4-4
ZN056-VDL.4M.V7P2
ZN056-VDL.4M.V7P2
V
V
66
66
.630
50 Hz
60 Hz
3~ 400V
3~400/460V
4-4
ZN063-VDL.6N.V7P6
ZN063-VDL.6N.V7P7
ZN063-VDL.6N.V7P6
V
V
V
68
70
68


Type
Air flow q_{v1} in m³/h
0
5.000
10.000
15.000
20.000
25.000
Operating range
Max. static pressure increase Δp_{fs} [Pa]
ZN045-VDL.4F.V7P1
184
ZN045-VDL.4F.V7P1
239
ZN050-VDL.4I.V7P1
198
ZN050-VDL.4I.V7P1
261
ZN056-VDL.4M.V7P2
224
ZN056-VDL.4M.V7P2
286
ZN063-VDL.6N.V7P6
274
ZN063-VDL.6N.V7P7
322
ZN063-VDL.6N.V7P6
374
Air flow q_{v1} in m³/h

FE2owlet with ZAplus

for three phase alternating current, 4-4 pole

ZN045-VD

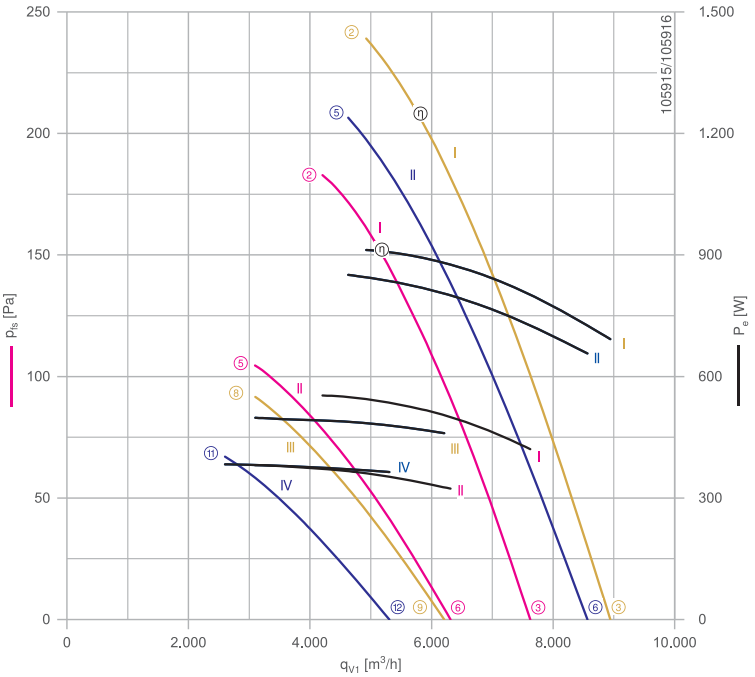
Description

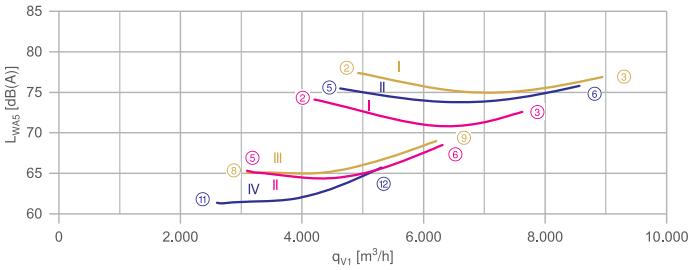
Motor technology: AC
Rated voltage U_N:
3~ 400 V (Δ/Y) | 3~400 V (Δ/Y) | 3~460 V (Δ/Y) * Rated
frequency f_N: 50 Hz | 60 Hz | 60 Hz*
Input power P_e:
560/380 W | 840/380 W | 920/500 W*
Rated current I_N:
1.10/0.68 A | 1.50/0.76 A | 1.45/0.82 A*
Rated speed n_N:
1350/1020 min^{-1} | 1450/820 min^{-1} | 1560/960 min^{-1}*
Starting current I_A: 4.00/1.20 A | 3.60/1.00 A | 4.20/1.20 A
Current increase ΔI: 10 % | 0 % | 5 %
Thermal class: THCL155*
Min. permitted ambient temperature $t_{amb(min)}$: -40 °C***
Max. permitted ambient temperature $t_{amb(max)}$:
70 °C | 50 °C | 50 °C
Electrical connection: Terminal box
Number of blades: 7
Degree of protection : IP54
Motor protection: thermal contact
Blades: Aluminium, 2 coat paint, jet black
Rotor: Aluminium, 2 coat paint, jet black
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -40 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Connection diagram

1360-108XA

Characteristic curve



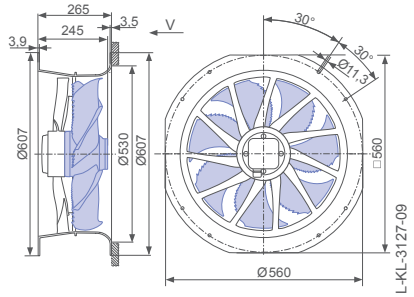


Measured in ZAplus without guard grille in installation type A according to ISO 5801

Dimensions mm

Air flow direction V

Design L - ZAplus Ontop without guard grille



Performance data

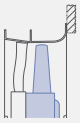
Type	Connection	Characteristic curve	Voltage U V	Frequency f Hz	Operating point	Current I A	Input power P_e W	Speed n min^{-1}	Suction side sound power level L_{WA5} dB(A)
ZN045-VD_.4F.V7P1	Δ	I	**400***	50	②	**1.10***	**560***	**1350***	74
			400		③	0.92	420	1400	73
	Y	II	**400***		⑤	**0.68***	**380***	**1010***	66
			400		⑥	0.58	320	1160	69
	Δ	I	**460***	60	②	**1.45***	**920***	**1550***	77
			460		③	1.15	700	1640	77
		II	**400***		⑤	**1.50***	**840***	**1440***	76
			400		⑥	1.15	660	1570	76
	Y	III	**460***		⑧	**0.82***	**500***	**960***	65
			460		⑨	0.74	460	1140	69
		IV	**400***		⑪	**0.74***	**380***	**820***	62
			400		⑫	0.70	360	970	66

*rated data

Fan ordering information

Air flow direction V

Design	L (without guard grille) Ontop
Installation position	H/Vu



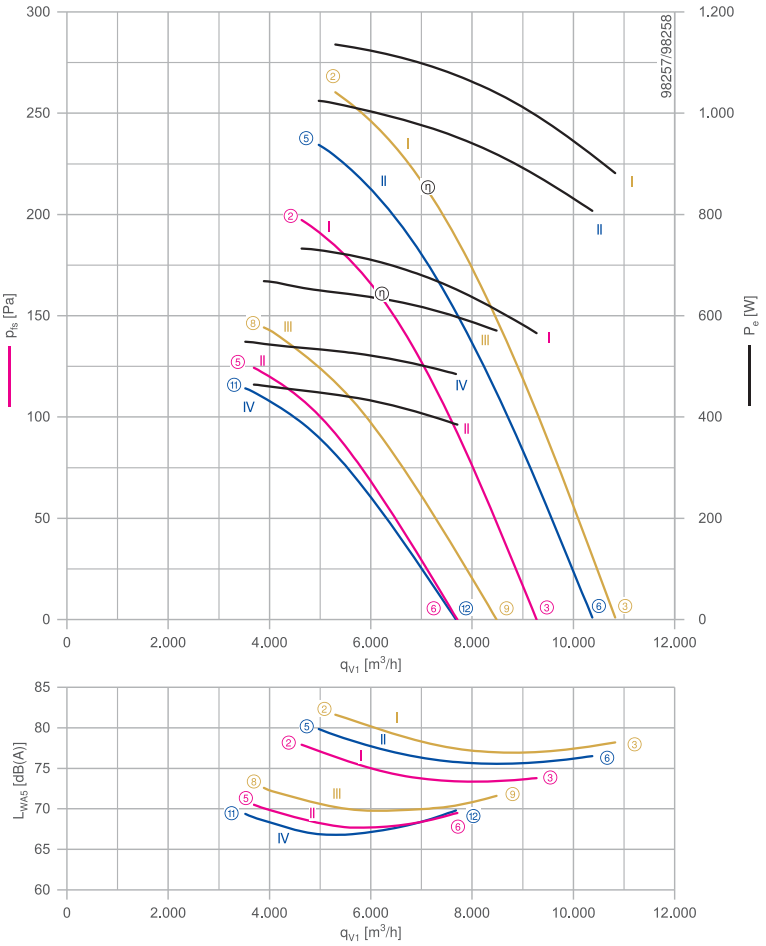
Type	**ZN045-VDL.4F.V7P1**
Article no.	**179979**
Weight kg	13.40

FE2owlet with ZAplus

for three phase alternating current, 4-4 pole

ZN050-VD

Characteristic curve



Measured in ZAplus without guard grille in installation type A according to ISO 5801

Description

Motor technology: AC
Rated voltage U_N:
3~ 400 V (Δ/Y) | 3~400 V (Δ/Y) | 3~460 V (Δ/Y) *
Rated frequency f_N: 50 Hz | 60 Hz | 60 Hz*
Input power P_e:
0.74/0.46 kW | 1.00/0.56 kW | 1.15/0.66 kW*
Rated current I_N:
1.60/0.80 A | 1.85/0.94 A | 1.90/0.99 A*
Rated speed n_N:
1290/1020 min^{-1} | 1390/980 min^{-1} | 1480/1090 min^{-1}*
Starting current I_A: 5.50/1.70 A | 5.00/1.60 A | 6.00/1.80 A
Current increase ΔI: 0 % | 0 % | 0 %
Thermal class: THCL155*
Min. permitted ambient temperature $t_{amb(min)}$: -40 °C***
Max. permitted ambient temperature $t_{amb(max)}$:
70 °C | 70 °C | 70 °C
Electrical connection: Terminal box
Number of blades: 7
Degree of protection : IP54
Motor protection: thermal contact
Blades: Aluminium, 2 coat paint, jet black
Rotor: Aluminium, 2 coat paint, jet black
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -40 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

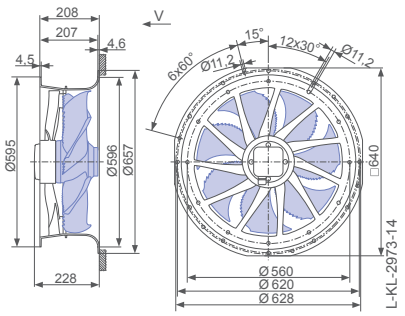
Connection diagram

1360-108XA

Dimensions mm

Air flow direction V

Design L - ZAplus Ontop without guard grille



Performance data

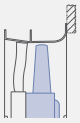
Type	Connection	Characteristic curve	Voltage U V	Frequency f Hz	Operating point	Current I A	Input power P_e W	Speed n min^{-1}	Suction side sound power level L_{WA5} dB(A)
ZN050-VD_.4I.V7P1	Δ	I	**400***	50	②	**1.60***	**740***	**1290***	78
			400		③	1.45	560	1340	74
	Y	II	**400***		⑤	**0.80***	**460***	**1020***	71
			400		⑥	0.68	380	1120	70
	Δ	I	**460***	60	②	**1.90***	**1150***	**1470***	82
			460		③	1.60	880	1560	78
		II	**400***		⑤	**1.85***	**1000***	**1390***	80
			400		⑥	1.55	800	1500	77
	Y	III	**460***		⑧	**0.98***	**660***	**1090***	73
			460		⑨	0.86	580	1240	72
		IV	**400***		⑪	**0.94***	**540***	**980***	70
			400		⑫	0.84	480	1120	70

*rated data

Fan ordering information

Air flow direction V

Design	L (without guard grille) Ontop
Installation position	H/Vu



Type	**ZN050-VDL.4I.V7P1**
Article no.	**179980**
Weight kg	15.80

FE2owlet with ZAplus

for three phase alternating current, 4-4 pole

ZN056-VD

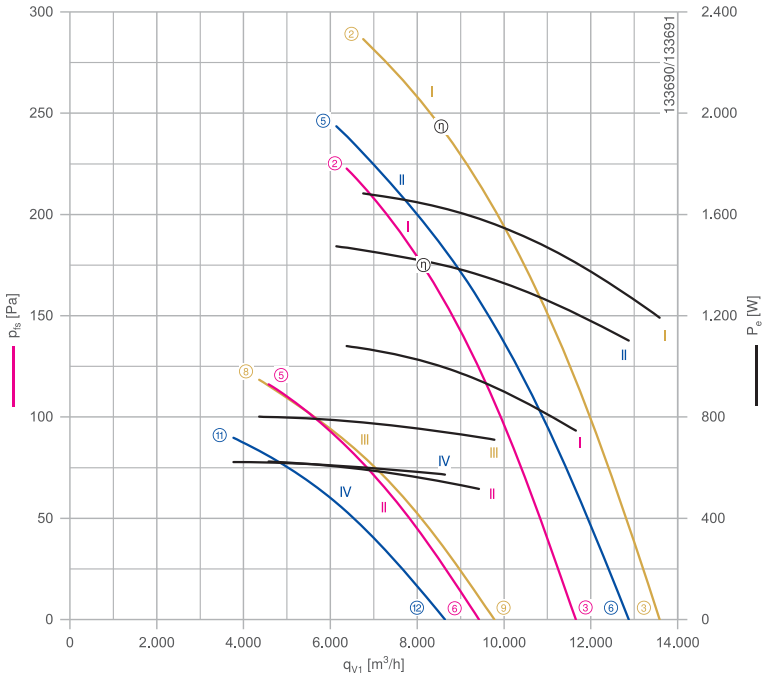
Description

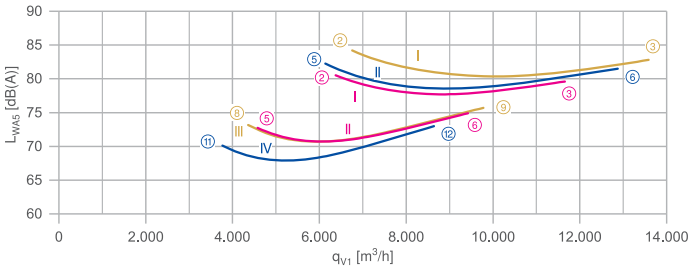
Motor technology: AC
Rated voltage U_N:
3~ 400 V (Δ/Y) | 3~400 V (Δ/Y) | 3~460 V (Δ/Y) *
Rated frequency f_N: 50 Hz | 60 Hz | 60 Hz*
Input power P_e:
1.10/0.62 kW | 1.45/0.62 kW | 1.70/0.80 kW*
Rated current I_N:
2.30/1.20 A | 2.90/1.25 A | 2.90/1.40 A*
Rated speed n_N:
1310/940 min^{-1} | 1340/830 min^{-1} | 1470/950 min^{-1}*
Starting current I_A: 6.50/1.90 A | 5.50/1.60 A | 7.00/1.90 A
Current increase ΔI: 0 % | 0 % | 0 %
Thermal class: THCL155*
Min. permitted ambient temperature $t_{amb(min)}$: -40 °C***
Max. permitted ambient temperature $t_{amb(max)}$:
70 °C | 40 °C | 40 °C
Electrical connection: Terminal box
Number of blades: 7
Degree of protection : IP54
Motor protection: thermal contact
Blades: Aluminium, 2 coat paint, jet black
Rotor: Aluminium, 2 coat paint, jet black
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -40 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Connection diagram

1360-108XA

Characteristic curve



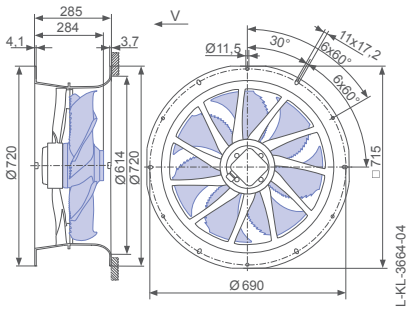


Measured in ZAplus without guard grille in installation type A according to ISO 5801

Dimensions mm

Air flow direction V

Design L - ZAplus Ontop without guard grille



Performance data

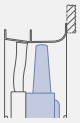
Type	Connection	Characteristic curve	Voltage U V	Frequency f Hz	Operating point	Current I A	Input power P_e W	Speed n min^{-1}	Suction side sound power level L_{WA5} dB(A)
ZN056-VD_.4M.V7P2	Δ	I	**400***	50	②	**2.30***	**1100***	**1310***	81
			400		③	1.90	740	1380	80
	Y	II	**400***		⑤	**1.20***	**620***	**940***	73
			400		⑥	1.00	520	1130	75
	Δ	I	**460***	60	②	**2.90***	**1700***	**1460***	84
			460		③	2.20	1200	1610	83
		II	**400***		⑤	**2.90***	**1450***	**1340***	82
			400		⑥	2.20	1100	1530	82
	Y	III	**460***		⑧	**1.40***	**800***	**950***	73
			460		⑨	1.20	720	1160	76
		IV	**400***		⑪	**1.25***	**620***	**820***	70
			400		⑫	1.15	580	1030	73

*rated data

Fan ordering information

Air flow direction V

Design	L (without guard grille) Ontop
Installation position	H/Vu



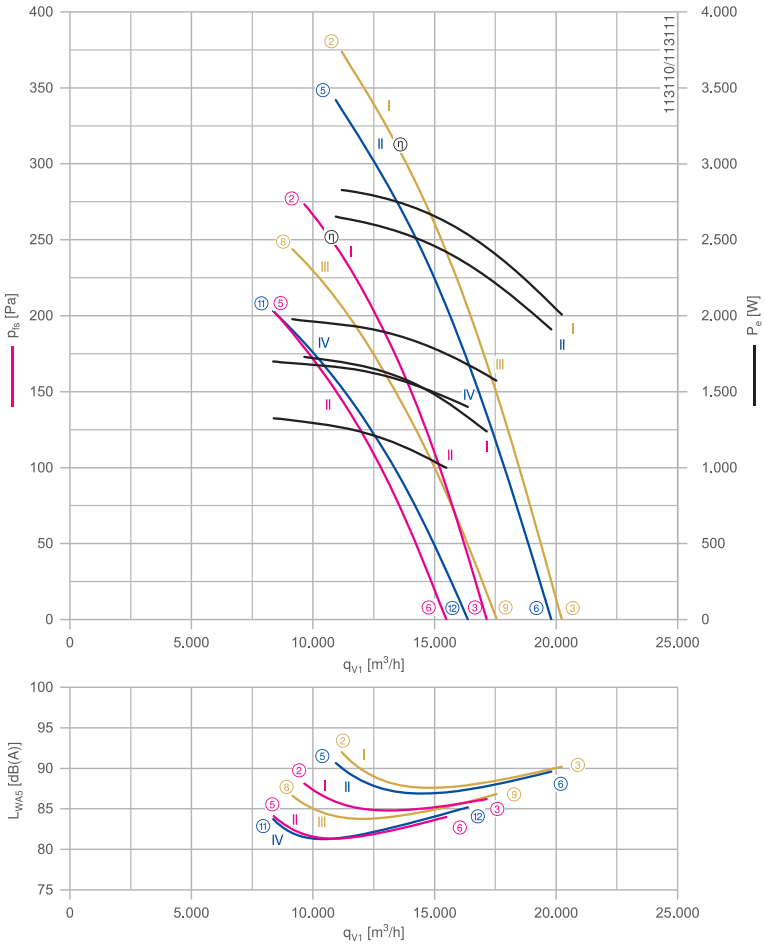
Type	**ZN056-VDL.4M.V7P2**
Article no.	**179981**
Weight kg	19.00

FE2owlet with ZAplus

for three phase alternating current, 4-4 pole

ZN063-VD

Characteristic curve



Measured in ZAplus without guard grille in installation type A according to ISO 5801

Description

Motor technology: AC
Rated voltage U_N:
3~ 400 V (Δ/Y) | 3~400 V (Δ/Y) | 3~460 V (Δ/Y) *
Rated frequency f_N: 50 Hz | 60 Hz | 60 Hz*
Input power P_e:
1.75/1.35 kW | 2.70/1.70 kW | 2.80/2.00 kW*
Rated current I_N:
3.70/2.20 A | 4.60/2.90 A | 4.60/2.90 A*
Rated speed n_N:
1400/1210 min^{-1} | 1590/1220 min^{-1} | 1640/1330 min^{-1}*
Starting current I_A: 20.00/6.50 A | 19.00/6.00 A | 22.00/7.00 A
Current increase ΔI: 5 % | 10 % | 10 %
Thermal class: THCL155*
Min. permitted ambient temperature $t_{amb(min)}$: -40 °C***
Max. permitted ambient temperature $t_{amb(max)}$:
70 °C | 65 °C | 65 °C
Electrical connection: Terminal box
Number of blades: 7
Degree of protection : IP54
Motor protection: thermal contact
Blades: Aluminium, 2 coat paint, jet black
Rotor: Aluminium, 2 coat paint, jet black
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -40 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

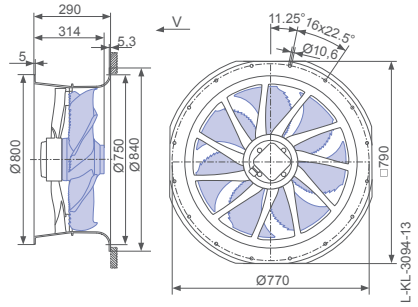
Connection diagram

1360-108XA

Dimensions mm

Air flow direction V

Design L - ZAplus Ontop without guard grille



Performance data

Type	Connection	Characteristic curve	Voltage U V	Frequency f Hz	Operating point	Current I A	Input power P_e W	Speed n min^{-1}	Suction side sound power level L_{WA5} dB(A)
ZN063-VD_.6N.V7P6	Δ	I	**400***	50	②	**3.70***	**1750***	**1400***	88
			400		③	3.10	1250	1440	86
	Y	II	**400***		⑤	**2.20***	**1300***	**1210***	84
			400		⑥	1.75	1000	1300	84
	Δ	I	**460***	60	②	**4.60***	**2800***	**1640***	92
			460		③	3.60	2000	1700	90
		II	**400***		⑤	**4.60***	**2700***	**1590***	91
			400		⑥	3.50	1900	1660	90
	Y	III	**460***		⑧	**2.90***	**2000***	**1330***	87
			460		⑨	2.30	1550	1470	87
		IV	**400***		⑪	**2.90***	**1700***	**1220***	84
			400		⑫	2.40	1400	1380	85

*rated data

Fan ordering information

Air flow direction V

Design	L (without guard grille) Ontop
Installation position	H/Vu

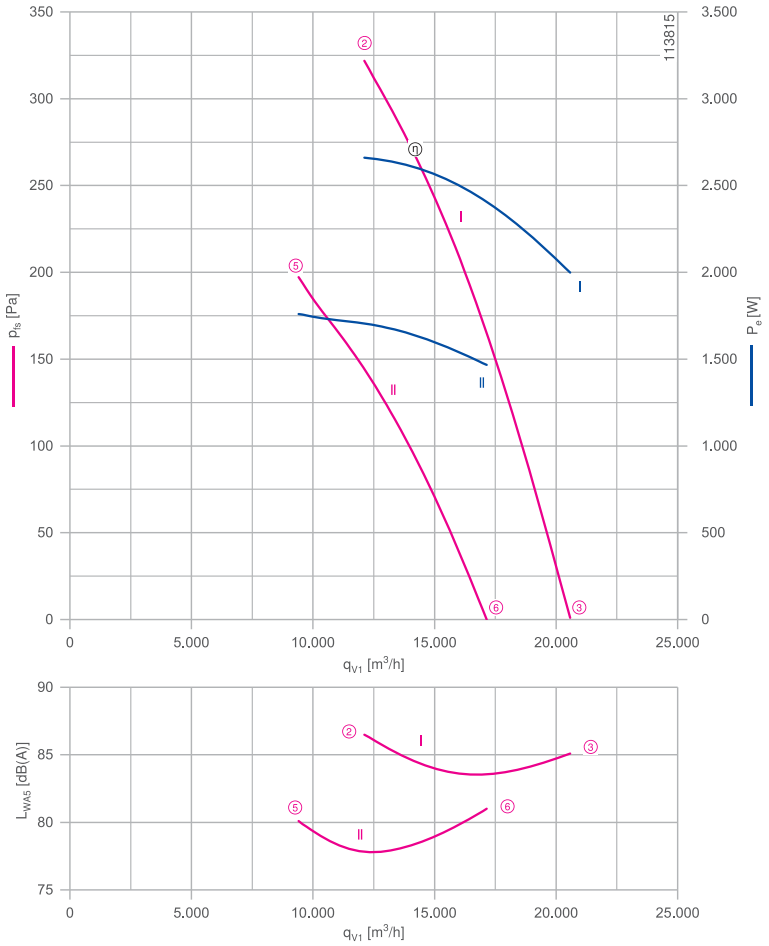
Type	**ZN063-VDL.6N.V7P6**
Article no.	**179982**
Weight kg	32.00

FE2owlet with ZAplus

for three phase alternating current, 4-4 pole

ZN063-VD

Characteristic curve



Measured in ZAplus without guard grille in installation type A according to ISO 5801

Description

Motor technology: AC
Rated voltage U_N:
3~ 400 V (Δ/Y)*
Rated frequency f_N: 50 Hz*
Input power P_e:
2.70/1.75 kW*
Rated current I_N:
5.00/2.90 A*
Rated speed n_N:
1330/1040 min^{-1}*
Starting current I_A: 19.00/6.00 A
Current increase ΔI: 5 %
Thermal class: THCL155*
Min. permitted ambient temperature $t_{amb(min)}$: -40 °C*** Max. permitted ambient temperature $t_{amb(max)}$:
60 °C
Electrical connection: Terminal box
Number of blades: 7
Degree of protection : IP54
Motor protection: thermal contact
Blades: Aluminium, 2 coat paint, jet black
Rotor: Aluminium, 2 coat paint, jet black
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -40 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

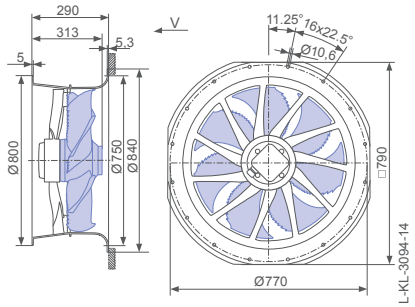
Connection diagram

1360-108XA

Dimensions mm

Air flow direction V

Design L - ZAplus Ontop without guard grille



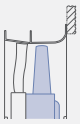
Performance data

Type	Connection	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P_e W	Speed n min^{-1}	Suction side sound power level L_{WA5} dB(A)
ZN063-VD_.6N.V7P7	Δ	I	**400***	②	**5.00***	**2700***	**1330***	87
			400	③	4.00	2000	1380	85
	Y	II	**400***	⑤	**2.90***	**1750***	**1040***	80
			400	⑥	2.50	1450	1150	81

*rated data

Fan ordering information

Air flow direction V

Design	L (without guard grille) Ontop
Installation position	H/Vu
	
Type **Article no.**	**ZN063-VDL.6N.V7P7** **179983**
Weight kg	35.00

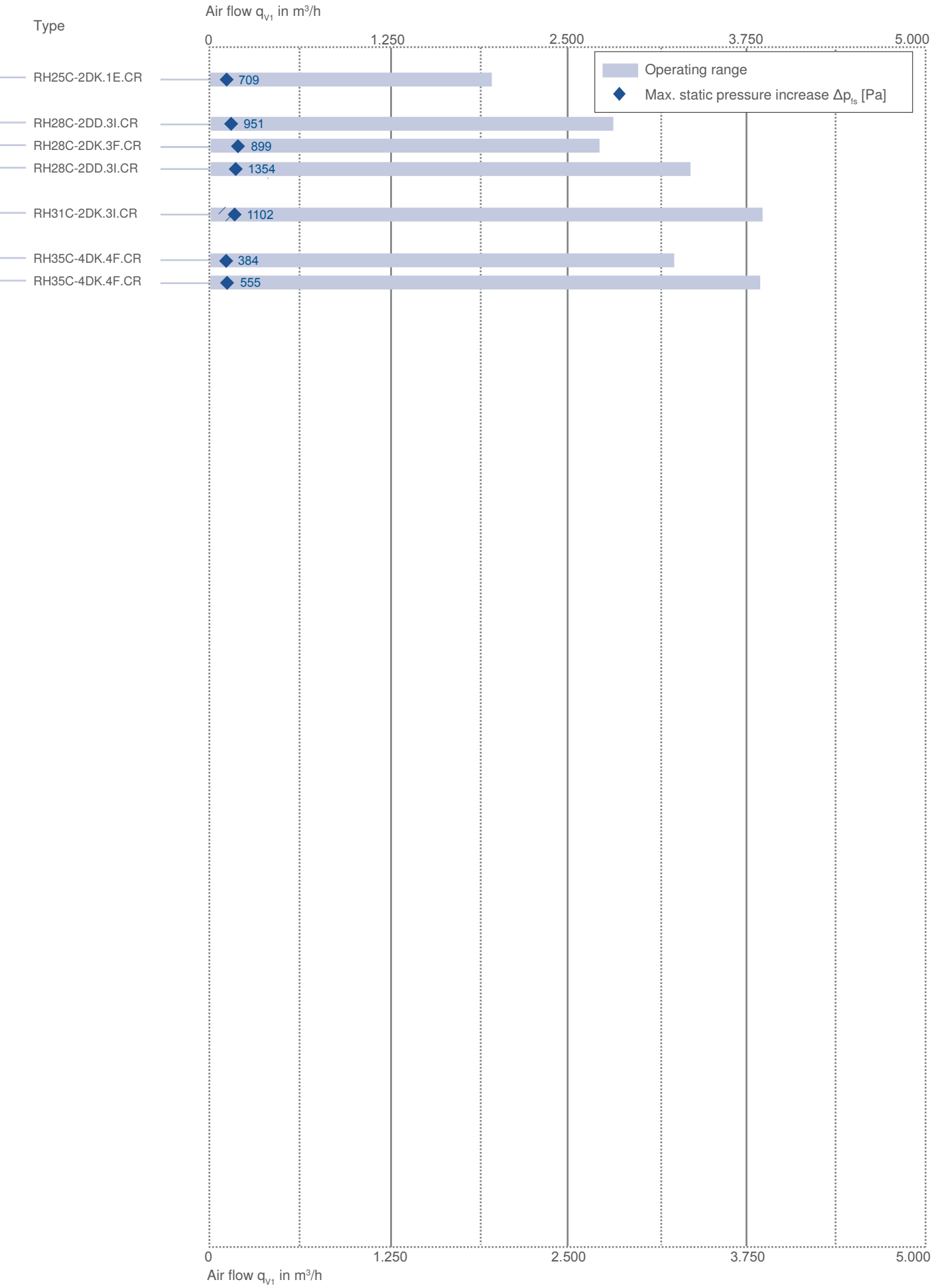

ZIEHL-ABEGG

Cpro

AC-Technology

Product overview

Size	Frequency	Voltage	Number of poles	Type	Impeller position	Page
250	50Hz	3~400V	2	RH25C-2DK.1E.CR	K	76
280	50 Hz	3~ 400V	2	RH28C-2DD.3I.CR	D	78
				RH28C-2DK.3F.CR	K	80
	60 Hz	3~ 400/460V	2	RH28C-2DD.3I.CR	D	78
315	50 Hz	3~ 400V	2	RH31C-2DK.3I.CR	K	82
355	50 Hz	3~ 400V	4	RH35C-4DK.4F.CR	K	84
	60 Hz	3~ 400/460V	4	RH35C-4DK.4F.CR	K	84

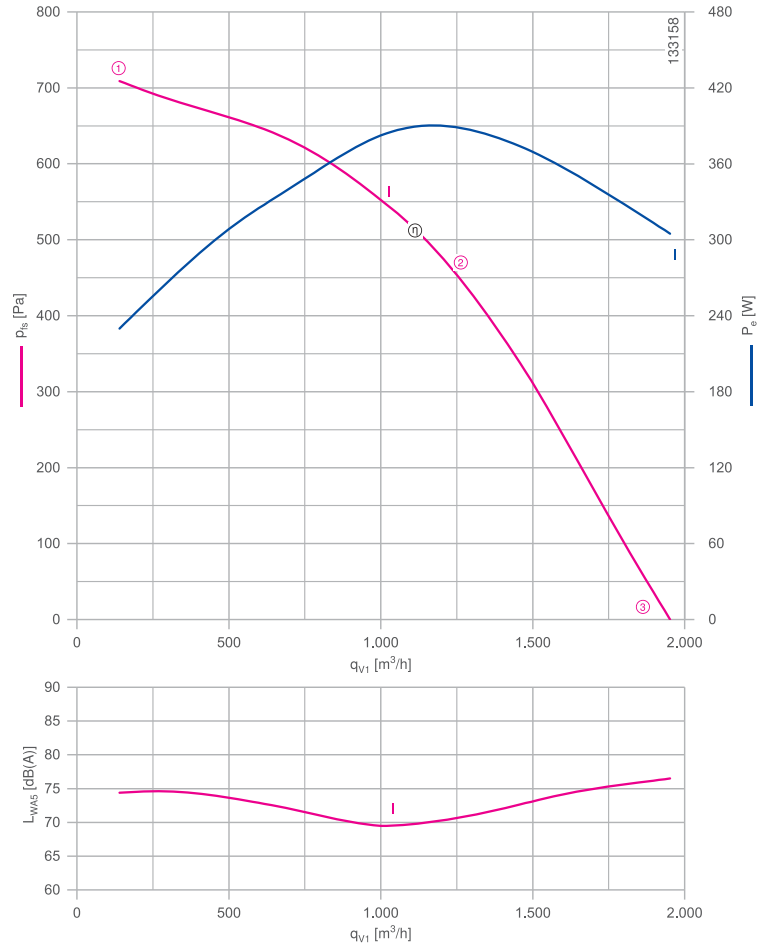

Type
Air flow q_{v1} in m³/h
0
1.250
2.500
3.750
5.000
Operating range
Max. static pressure increase Δp_{fs} [Pa]
RH25C-2DK.1E.CR
709
RH28C-2DD.3I.CR
951
RH28C-2DK.3F.CR
899
RH28C-2DD.3I.CR
1354
RH31C-2DK.3I.CR
1102
RH35C-4DK.4F.CR
384
RH35C-4DK.4F.CR
555
0
1.250
2.500
3.750
5.000
Air flow q_{v1} in m³/h

Cpro

for three phase alternating current, 2 pole

RH25C-2D

Characteristic curve



Measured with inlet nozzle, without guard grille according to ISO 5801
Not voltage controllable fan.

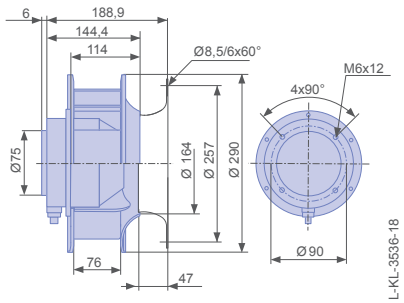
Description

Motor technology: AC
Rated voltage U_N: 3~ 230/400 V (Δ/Y)*
Rated frequency f_N: 50 Hz*
Input power P_e: 390 W*
Rated current I_N: 1.10/0.64 A*
Rated speed n_N: 2620 min^{-1}*
Starting current I_A: 4.00/2.20 A
Current increase ΔI: 10 %
Thermal class: THCL155*
Min. permitted ambient temperature $t_{amb(min)}$: -40 °C***
Max. permitted ambient temperature $t_{amb(max)}$:
65 °C
Electrical connection: Supply cable side, 105cm
Degree of protection : IP54Z
Motor protection: thermal contact
Impeller : Impeller made of ZAmid, unpainted
Motor: Aluminium, 1 coat paint, pebble grey
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

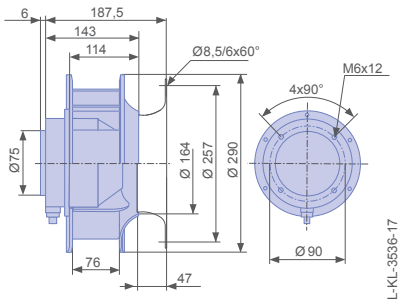
Inlet ring	00401777	RAL 7032 (pebble grey)
Inlet ring	00400803	unpainted
Connection diagram	1360-106XA	

Dimensions mm

Free-running motorized impeller RH
in installation position H/Vu



Free-running motorized impeller RH
in installation position H/Vo



Performance data

Type	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P_e W	Speed n min^{-1}	Suction side sound power level L_{WA5} dB(A)
RH25C-2DK.1E.CR	I	400	①	0.44	230	2800	74
		400*	②	**0.64***	**390***	**2620***	70
		400	③	0.54	300	2730	77

*rated data

Fan ordering information

Design	RH*	RH*
Installation position	H/Vu	H/Vo
		
Type	**RH25C-2DK.1E.CR**	**RH25C-2DK.1E.CR**
Article no.	**175806**	**175805**
Weight kg	4.00	4.00

* Inlet nozzle not included in the scope of delivery

Cpro

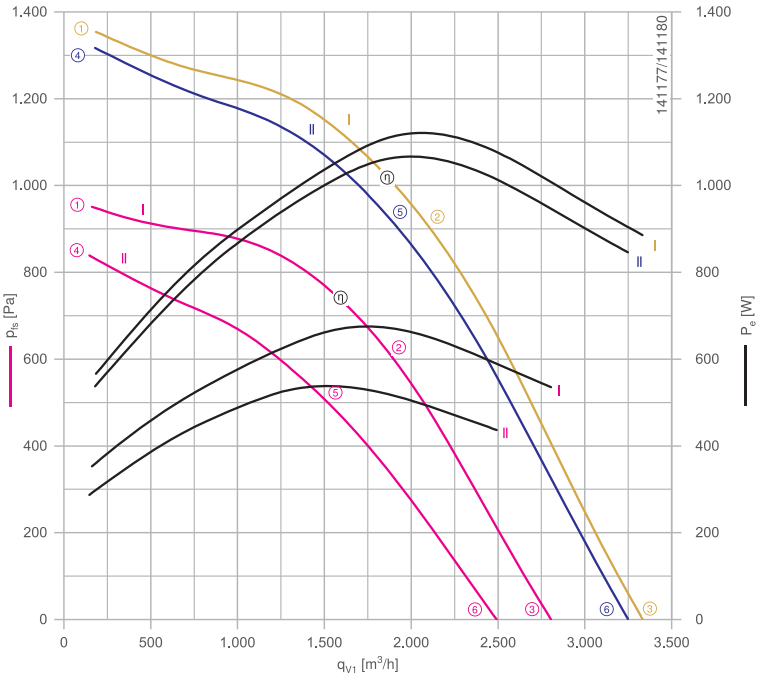
for three phase alternating current, 2 pole

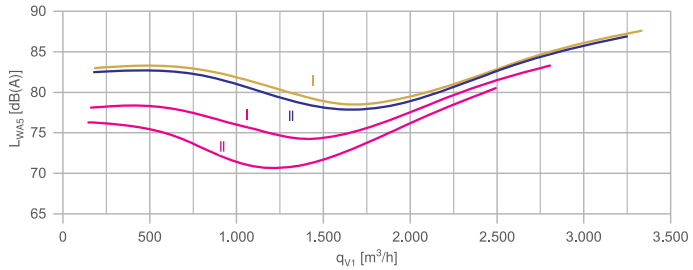
RH28C-2D

Description

Motor technology: AC
Rated voltage U_N:
3~ 230/400 V (Δ/Y) | 3~230/400 V (Δ/Y) | 3~265/460 V (Δ/Y) *
Rated frequency f_N: 50 Hz | 60 Hz | 60 Hz*
Input power P_e:
0.68 kW | 1.05 kW | 1.10 kW*
Rated current I_N:
2.20/1.30 A | 2.90/1.70 A | 2.90/1.65 A*
Rated speed n_N:
2810 min^{-1} | 3190 min^{-1} | 3300 min^{-1}*
Starting current I_A: 13.00/7.50 A | 12.00/7.00 A | 14.00/8.00 A
Current increase ΔI: 20 % | 20 % | 15 %
Thermal class: THCL155*
Min. permitted ambient temperature $t_{amb(min)}$: -40 °C***
Max. permitted ambient temperature $t_{amb(max)}$:
70 °C | 65 °C | 65 °C
Electrical connection: Supply cable side, 105cm
Degree of protection : IP54
Motor protection: thermal contact
Impeller : Impeller made of ZAmid, unpainted
Motor: Aluminium, 1 coat paint, pebble grey
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve



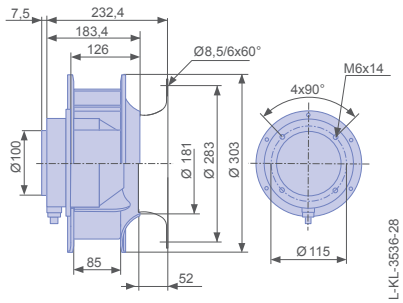


Measured with inlet nozzle, without guard grille according to ISO 5801
Not 60Hz voltage controllable fan.

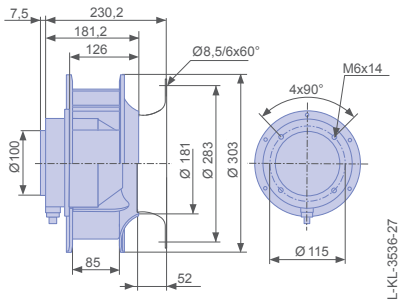
Inlet ring	00401778	RAL 7032 (pebble grey)
Inlet ring	00400804	unpainted
Connection diagram	1360-106XA	

Dimensions mm

Free-running motorized impeller RH in installation position H/Vu



Free-running motorized impeller RH in installation position H/Vo

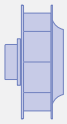
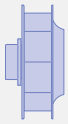


Performance data

Type	Characteristic curve	Voltage U V	Frequency f Hz	Operating point	Current I A	Input power P_e W	Speed n min^{-1}	Suction side sound power level L_{WA5} dB(A)
RH28C-2DD.3I.CR	I	400	50	①	0.98	350	2910	78
		400*	50	②	**1.30***	**680***	**2810***	76
		400	50	③	1.15	540	2860	83
	II	230	50	④	0.82	290	2740	76
		230	50	⑤	1.45	540	2430	72
		230	50	⑥	1.20	440	2570	81
	I	460	60	①	1.05	560	3480	83
		460*	60	②	**1.65***	**1100***	**3300***	80
		460	60	③	1.35	880	3380	88
	II	400	60	④	0.98	540	3430	83
		400*	60	⑤	**1.70***	**1050***	**3190***	78
		400	60	⑥	1.40	840	3300	87

*rated data

Fan ordering information

Design	RH*	RH*
Installation position	H/Vu	H/Vo
		
Type	**RH28C-2DD.3I.CR**	**RH28C-2DD.3I.CR**
Article no.	**175808**	**175807**
Weight kg	10.00	10.00

* Inlet nozzle not included in the scope of delivery

Cpro

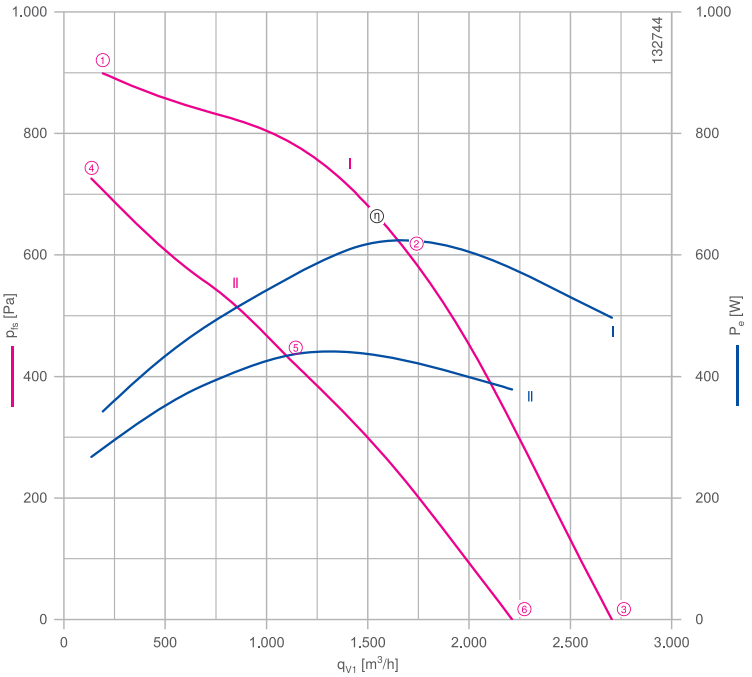
for three phase alternating current, 2 pole

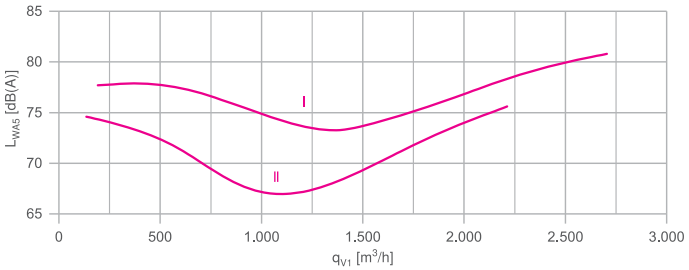
RH28C-2D

Description

Motor technology: AC
Rated voltage U_N: 3~ 230/400 V (Δ/Y)*
Rated frequency f_N: 50 Hz*
Input power P_e: 0.62 kW*
Rated current I_N: 1.80/1.05 A*
Rated speed n_N: 2700 min^{-1}*
Starting current I_A: 7.50/4.40 A
Current increase ΔI: 15 %
Thermal class: THCL155*
Min. permitted ambient temperature $t_{amb(min)}$: -40 °C***
Max. permitted ambient temperature $t_{amb(max)}$:
60 °C
Electrical connection: Supply cable side, 105cm
Degree of protection : IP54
Motor protection: thermal contact
Impeller : Impeller made of ZAmid, unpainted
Motor: Aluminium, 1 coat paint, pebble grey
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve



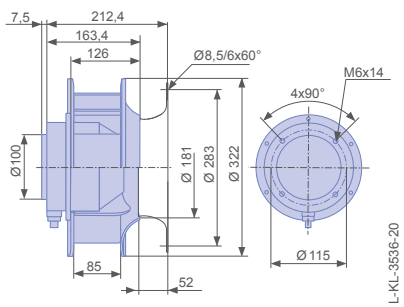


Measured with inlet nozzle, without guard grille according to ISO 5801

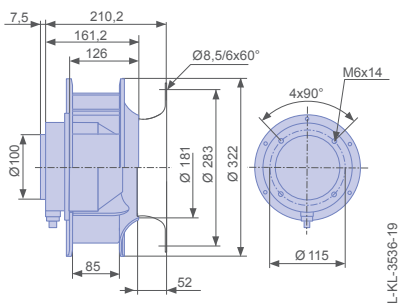
Inlet ring	00401778	RAL 7032 (pebble grey)
Inlet ring	00400804	unpainted
Connection diagram	1360-106X	

Dimensions mm

Free-running motorized impeller RH
in installation position H/Vu



Free-running motorized impeller RH
in installation position H/Vo



Performance data

Type	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P_e W	Speed n min^{-1}	Suction side sound power level L_{WA5} dB(A)
RH28C-2DK.3F.CR	I	400	①	0.74	340	2850	78
		400*	②	**1.05***	**620***	**2700***	75
		400	③	0.92	500	2770	81
	II	230	④	0.74	270	2570	75
		230	⑤	1.20	440	2100	67
		230	⑥	1.05	380	2300	76

*rated data

Fan ordering information

Design	RH*	RH*
Installation position	H/Vu	H/Vo
		
Type	**RH28C-2DK.3F.CR**	**RH28C-2DK.3F.CR**
Article no.	**175811**	**175810**
Weight kg	10.00	10.00

* Inlet nozzle not included in the scope of delivery

Cpro

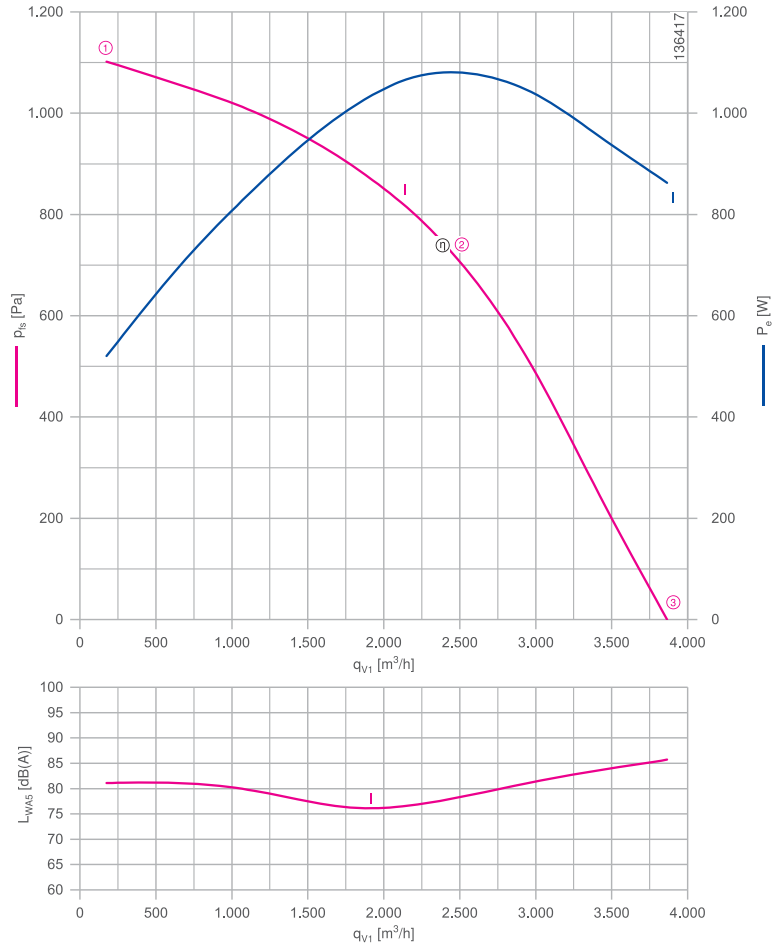
for three phase alternating current, 2 pole

RH31C-2D

Description

Motor technology: AC
Rated voltage U_N: 3~ 230/400 V (Δ/Y)*
Rated frequency f_N: 50 Hz*
Input power P_e: 1.05 kW*
Rated current I_N: 3.10/1.80 A*
Rated speed n_N: 2670 min^{-1}*
Starting current I_A: 13.00/7.50 A
Thermal class: THCL155*
Min. permitted ambient temperature $t_{amb(min)}$: -40 °C***
Max. permitted ambient temperature $t_{amb(max)}$:
60 °C
Electrical connection: Supply cable side, 105cm
Degree of protection : IP54
Motor protection: thermal contact
Impeller : Impeller made of ZAmid, unpainted
Motor: Aluminium, 1 coat paint, pebble grey
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve

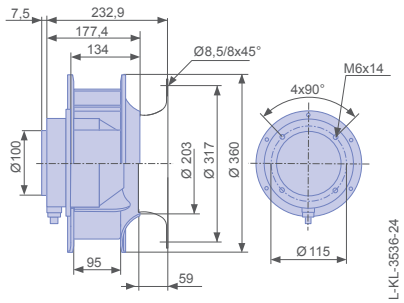


Measured with inlet nozzle, without guard grille according to ISO 5801
Not voltage controllable fan.

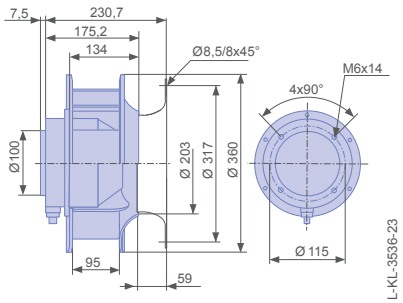
Inlet ring	00411853	RAL 7032 (pebble grey)
Inlet ring	00411846	unpainted
Connection diagram	1360-106XA	

Dimensions mm

Free-running motorized impeller RH in installation position H/Vu



Free-running motorized impeller RH in installation position H/Vo



Performance data

Type	Characteristic curve	Voltage U V	Operating point	Current I A	Input power P_e W	Speed n min^{-1}	Suction side sound power level L_{WA5} dB(A)
RH31C-2DK.3I.CR	I	400	①	1.10	520	2860	81
		400*	②	**1.80***	**1100***	**2660***	78
		400	③	1.50	860	2750	86

*rated data

Fan ordering information

Design	RH*	RH*
Installation position	H/Vu	H/Vo
		
Type	**RH31C-2DK.3I.CR**	**RH31C-2DK.3I.CR**
Article no.	**175815**	**175814**
Weight kg	11.00	11.00

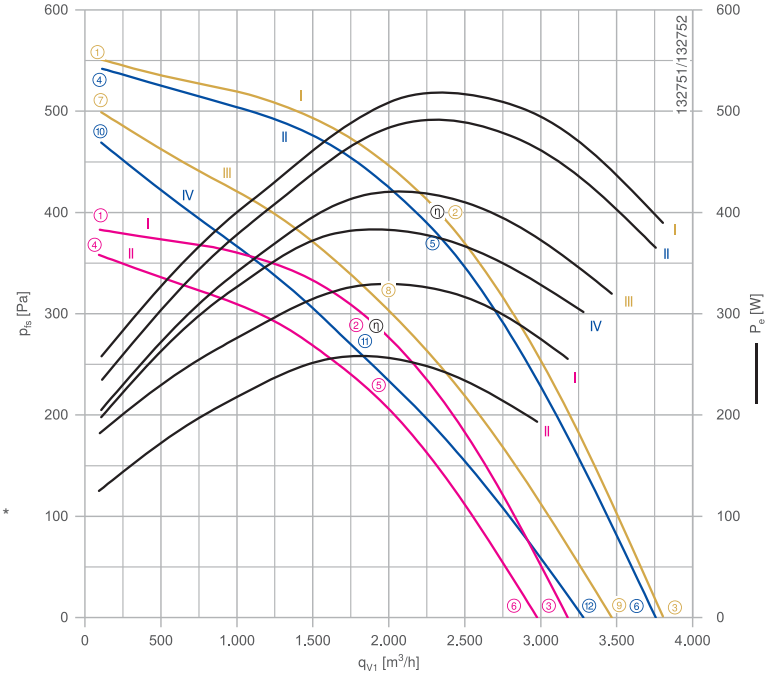
* Inlet nozzle not included in the scope of delivery

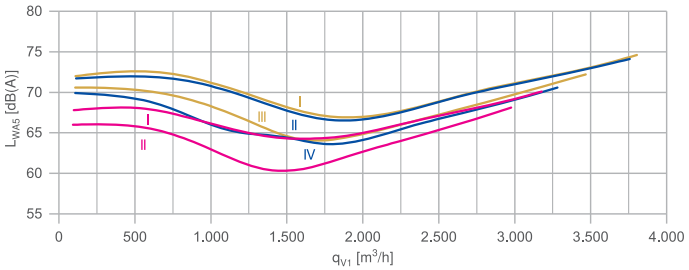
Cpro

for three phase alternating current, 4 pole

RH35C-4D

Characteristic curve





Measured with inlet nozzle, without guard grille according to ISO 5801

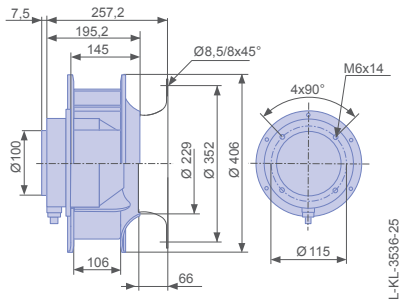
Description

Motor technology: AC
Rated voltage U_N:
3~ 230/400 V (Δ/Y) | 3~230/400 V (Δ/Y) | 3~265/460 V (Δ/Y) *
Rated frequency f_N: 50 Hz | 60 Hz | 60 Hz*
Input power P_e:
330 W | 0.50 kW | 520 W*
Rated current I_N:
1.50/0.88 A | 1.55/0.90 A | 1.60/0.94 A*
Rated speed n_N:
1430 min^{-1} | 1670 min^{-1} | 1700 min^{-1}*
Starting current I_A: 8.00/4.60 A | 7.00/4.00 A | 8.50/4.80 A
Current increase ΔI: 0 % | 15 % | 20 %
Thermal class: THCL155*
Min. permitted ambient temperature $t_{amb(min)}$: -40 °C***
Max. permitted ambient temperature $t_{amb(max)}$:
70 °C | 70 °C | 70 °C
Electrical connection: Supply cable side, 105cm
Degree of protection : IP54
Motor protection: thermal contact
Impeller : Impeller made of ZAmid, unpainted
Motor: Aluminium, 1 coat paint, pebble grey
Conformity: CE
* Rated data
*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

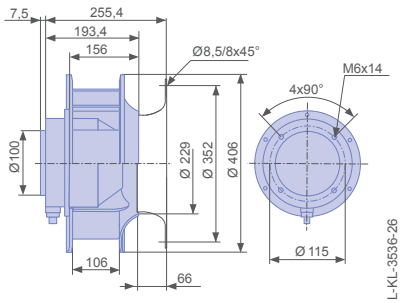
Inlet ring	00411854	RAL 7032 (pebble grey)
Inlet ring	00411847	unpainted
Connection diagram	1360-106XA	

Dimensions mm

Free-running motorized impeller RH in installation position H/Vu



Free-running motorized impeller RH in installation position H/Vo



Performance data

Type	Characteristic curve	Voltage U V	Frequency f Hz	Operating point	Current I A	Input power P_e W	Speed n min^{-1}	Suction side sound power level L_{WA5} dB(A)
RH35C-4DK.4F.CR	I	400	50	①	0.80	180	1470	68
		400*		②	**0.88***	**330***	**1430***	65
		400		③	0.84	260	1450	70
	II	230		④	0.44	130	1420	66
		230		⑤	0.74	260	1310	62
		230		⑥	0.58	190	1360	68
	I	460	60	①	0.74	260	1760	72
		460*		②	**0.92***	**520***	**1700***	68
		460		③	0.82	390	1730	75
	II	400		④	0.60	230	1750	72
		400*		⑤	**0.88***	**500***	**1670***	68
		400		⑥	0.74	370	1710	74
	III	265		⑦	0.54	210	1680	71
		265		⑧	1.05	420	1480	65
		265		⑨	0.80	320	1580	72
	IV	230		⑩	0.58	200	1630	70
		230		⑪	1.10	380	1360	64
		230		⑫	0.86	300	1500	71

*rated data

Fan ordering information

Design	RH*	RH*
Installation position	H/Vu	H/Vo
		
Type	**RH35C-4DK.4F.CR**	**RH35C-4DK.4F.CR**
Article no.	**175816**	**175817**
Weight kg	9.00	9.00

* Inlet nozzle not included in the scope of delivery

General notes

The information and data contained in this catalogue were composed to the best of our best ability and do not absolve the user from its duty to check the suitability of the products with respect to its intended application.

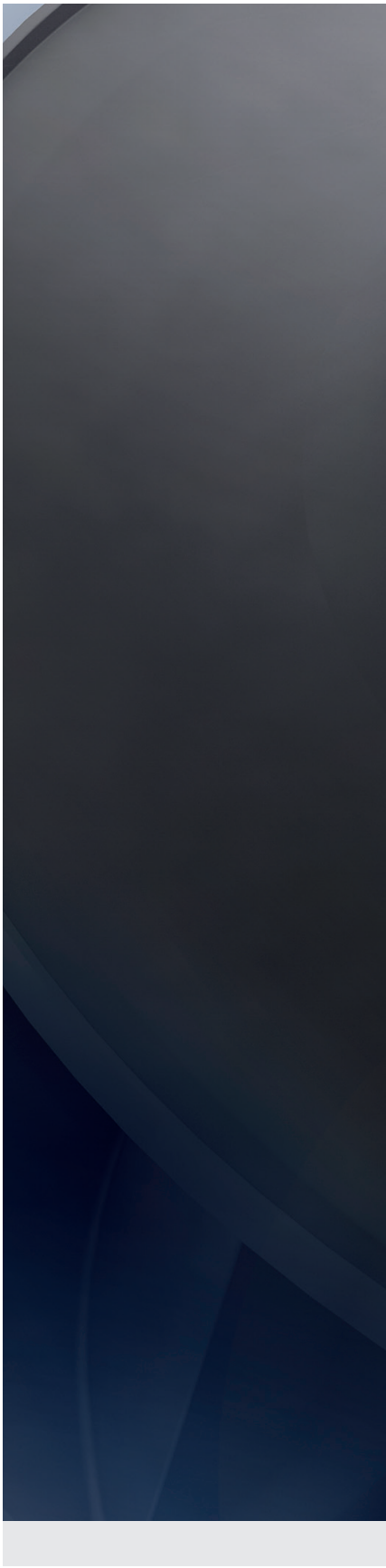
The customer is obligated to inform the supplier about general information concerning the intended use, the type of installation, the operating conditions and any other conditions that need to be taken into consideration if the order is not based on catalogue information.

ZIEHL-ABEGG SE reserves the right to make design changes, which are used for continuous technical improvement.

This catalogue contains information for your guidance. No guarantee is provided with regard to the accuracy of all information and no legal claims may be derived from this. Reproduction of this information, or extracts thereof, is permitted only with written approval.

Copyright

The Royal League



ZIEHL-ABEGG

ZIEHL-ABEGG SE Heinz-Ziehl-Straße 74653 Künzelsau +49 7940 16-0 info@ziehl-abegg.de ziehl-abegg.com