

# FE2owlet-ECblue

for single phase alternating current, 200-277 V

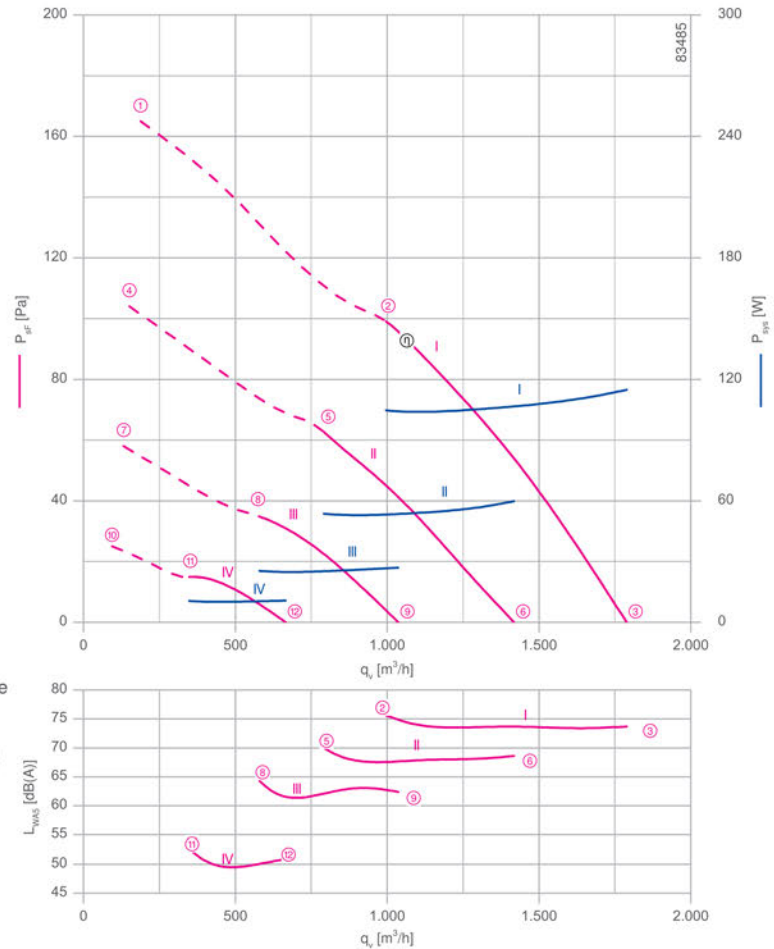
FN025



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 110 W\*  
 Rated current  $I_N$ : 0.90- 0.65 A\*  
 Rated speed  $n_N$ : 2580 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: Integrated controller with attached cable  
 Number of blades: 7  
 Protection class: IP44  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, powder-coated, ultramarine blue  
 Conformity: CE  
**ErP-data**  
 Not subject to the regulations of ErP directive ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



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

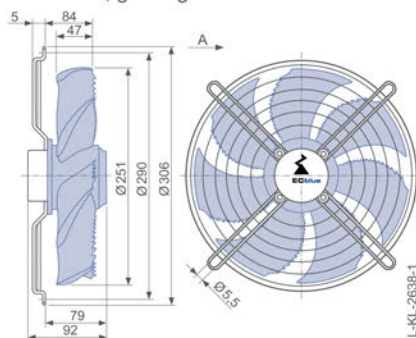
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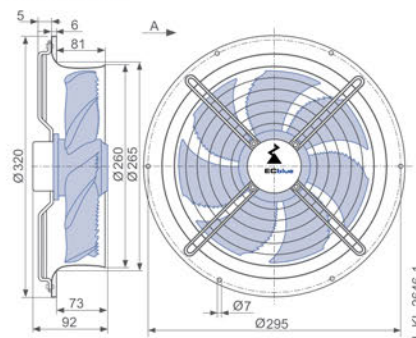
## Dimensions mm

Airflow direction A

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

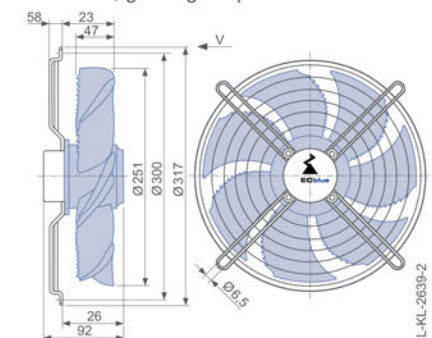


Design L - round full bell mouth, guard grille suction side



Airflow direction V

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



Performance data

Type	Characteristic curve	Torque	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		%		I A	$P_{sys}$ W	
FN025-6I_0B_7	I	100	①	0.64	90	
		100	②	0.72	100	76
		100	③	0.78	110	74
	II	80	④	0.35	46	
		80	⑤	0.40	55	70
		80	⑥	0.44	60	69
	III	60	⑦	0.19	22	
		60	⑧	0.21	26	64
		60	⑨	0.22	28	62
	IV	40	⑩	0.11	10	
		40	⑪	0.11	10	51
		40	⑫	0.12	11	51

Current values determined at 230V

Fan ordering information

Design	Airflow direction A		Airflow direction V		
	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
Type	FN025-6ID.0B.A7	FN025-6IL.0B.A7	FN025-6IK.0B.V7	FN025-6II.0B.V7	FN025-6IH.0B.V7
Article no.	140029	140033	140049	140041	140045
Weight kg	2.50	3.50	2.90	2.50	3.50

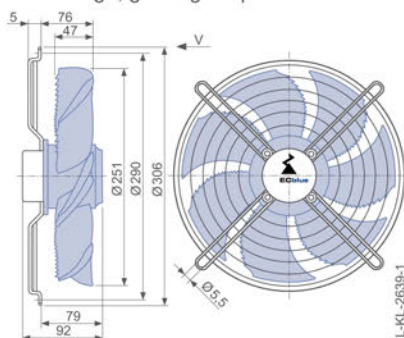
Control technology

Control modules

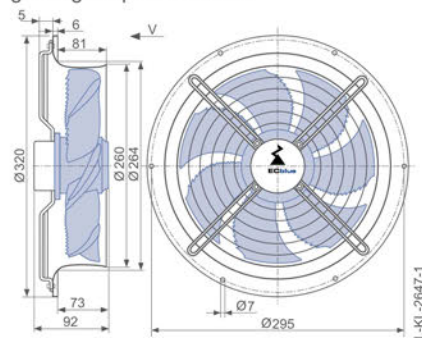


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Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



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



# FE2owlet-ECblue

for single phase alternating current, 200-277 V

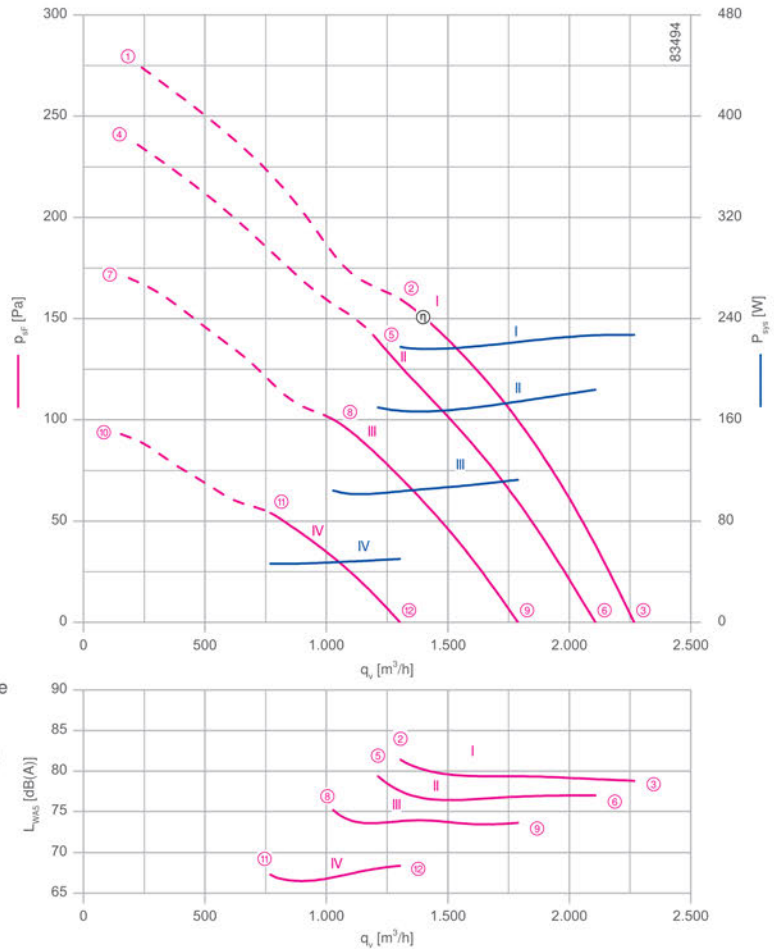
FN025



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 230 W\*  
 Rated current  $I_N$ : 1.65- 1.20 A\*  
 Rated speed  $n_N$ : 3250 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: Integrated controller with attached cable  
 Number of blades: 7  
 Protection class: IP44  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, powder-coated, ultramarine blue  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 31.7 %  
 Efficiency:  $N_{actual} = 42.2 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

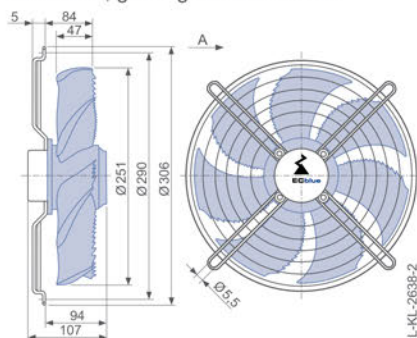
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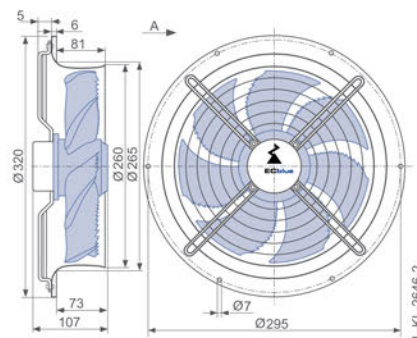
## Dimensions mm

Airflow direction A

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

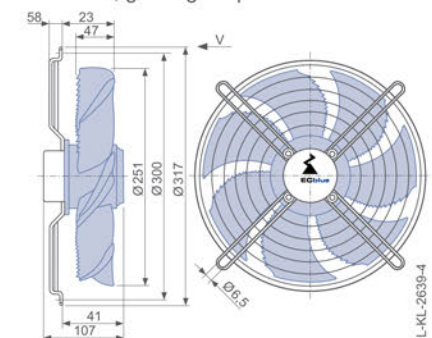


Design L - round full bell mouth, guard grille suction side



Airflow direction V

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






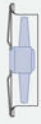


Performance data

Type	Characteristic curve	Torque	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		%		I A	$P_{sys}$ W	
FN025-6I_0E_7	I	100	①	1.20	190	
		100	②	1.40	220	82
		100	③	1.45	230	79
	II	80	④	0.98	150	
		80	⑤	1.10	170	79
		80	⑥	1.20	180	77
	III	60	⑦	0.62	90	
		60	⑧	0.72	100	75
		60	⑨	0.76	110	74
	IV	40	⑩	0.31	42	
		40	⑪	0.35	46	67
		40	⑫	0.37	50	68

Current values determined at 230V

Fan ordering information

	Airflow direction A		Airflow direction V		
Design	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
					
Type	FN025-6ID.0E.A7	FN025-6IL.0E.A7	FN025-6IK.0E.V7	FN025-6II.0E.V7	FN025-6IH.0E.V7
Article no.	140030	140034	140050	140042	140046
Weight kg	3.00	4.00	3.40	3.00	4.00

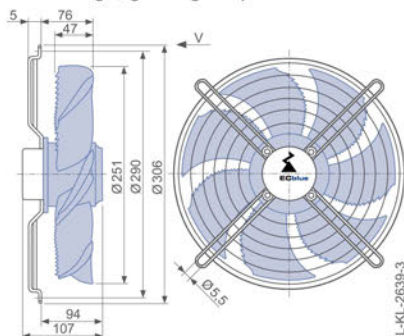
Control technology

Control modules

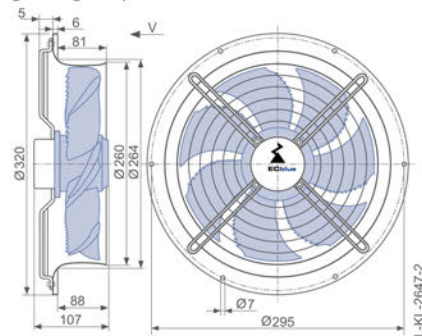


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Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



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





# FE2owlet-ECblue

for single phase alternating current, 200-277 V

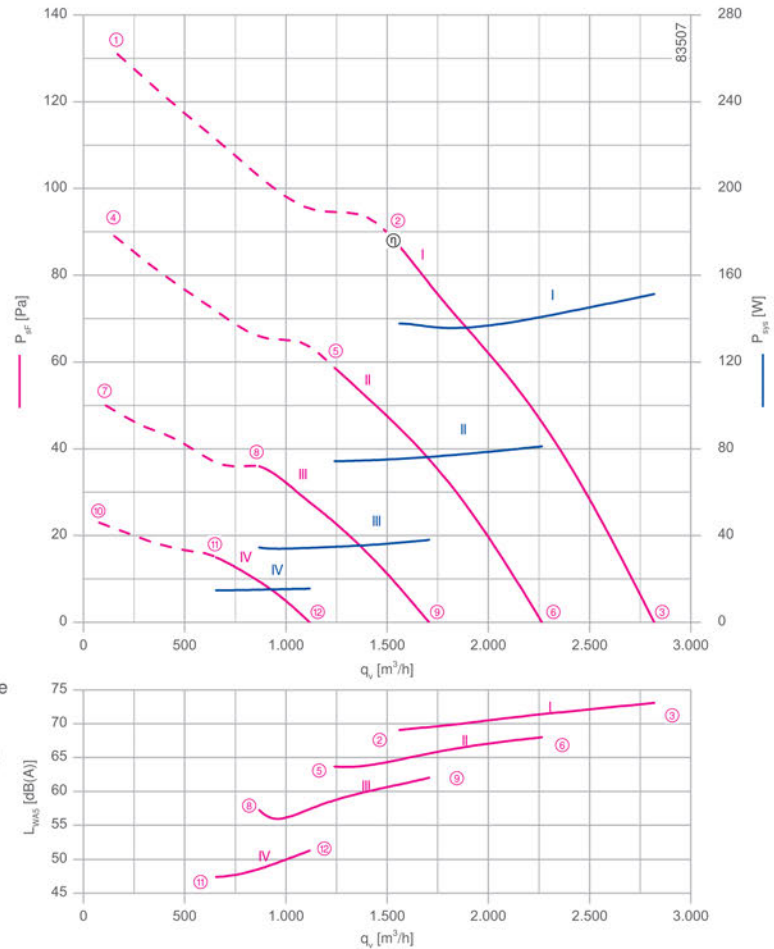
FNO30



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 150 W\*  
 Rated current  $I_N$ : 1.15- 0.84 A\*  
 Rated speed  $n_N$ : 1900 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: Integrated controller with attached cable  
 Number of blades: 7  
 Protection class: IP44  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, powder-coated, ultramarine blue  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 32.0 %  
 Efficiency:  $N_{actual} = 43.7 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

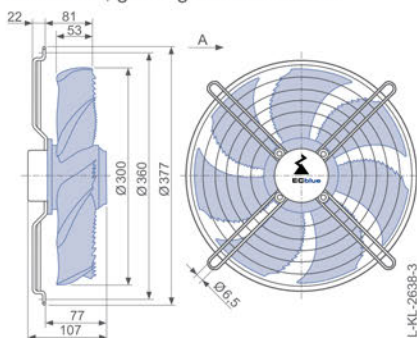
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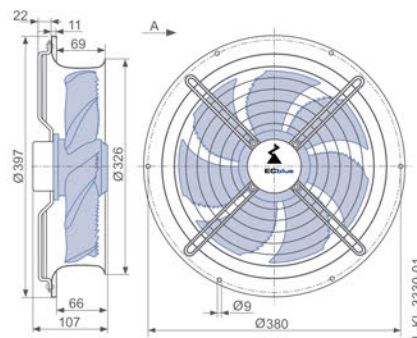
## Dimensions mm

Airflow direction A

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

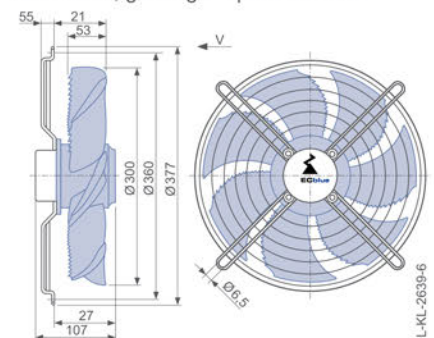


Design L - round full bell mouth, guard grille suction side



Airflow direction V

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



Performance data

Type	Characteristic curve	Torque	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		%		I A	$P_{sys}$ W	
FN030-6L_0E_7	I	100	①	0.82	120	
		100	②	0.94	140	69
		100	③	1.00	150	73
	II	80	④	0.48	70	
		80	⑤	0.52	75	64
		80	⑥	0.58	80	68
	III	60	⑦	0.26	32	
		60	⑧	0.27	34	57
		60	⑨	0.29	38	62
	IV	40	⑩	0.14	14	
		40	⑪	0.15	15	47
		40	⑫	0.15	16	51

Current values determined at 230V

Fan ordering information

Design	Airflow direction A		Airflow direction V		
	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
Type	FN030-6ID.0E.A7	FN030-6IL.0E.A7	FN030-6IK.0E.V7	FN030-6II.0E.V7	FN030-6IH.0E.V7
Article no.	140031	140035	140051	140043	140047
Weight kg	3.70	5.30	3.90	3.70	5.30

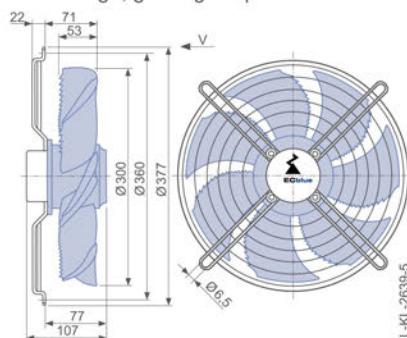
Control technology

Control modules

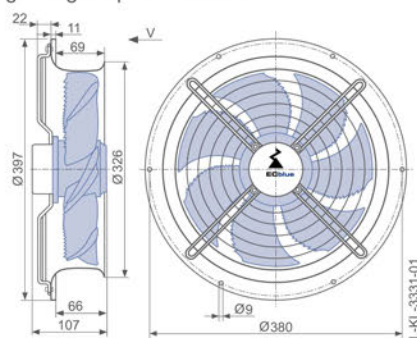


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Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



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



# FE2owlet-ECblue

for single phase alternating current, 200-277 V

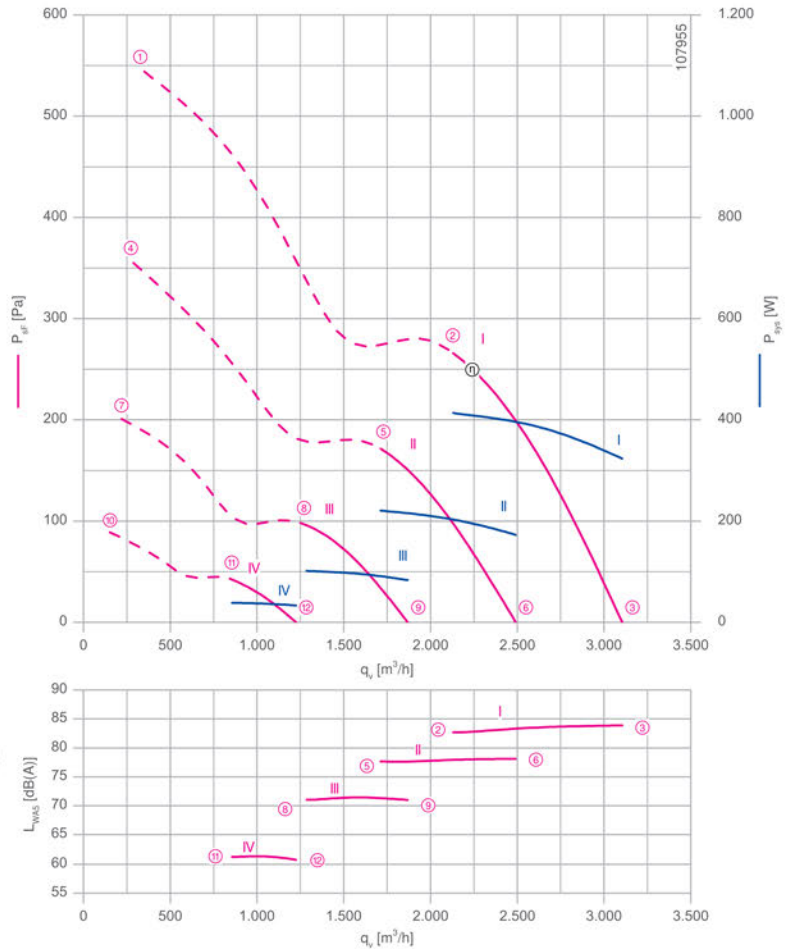
FNO30



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 420 W\*  
 Rated current  $I_N$ : 2.20- 1.55 A\*  
 Rated speed  $n_N$ : 2750 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 43.5 %  
 Efficiency:  $N_{actual} = 52.3 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

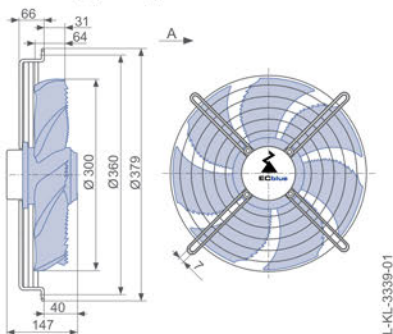
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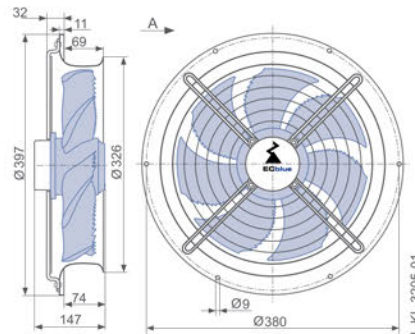
## Dimensions mm

Airflow direction A

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

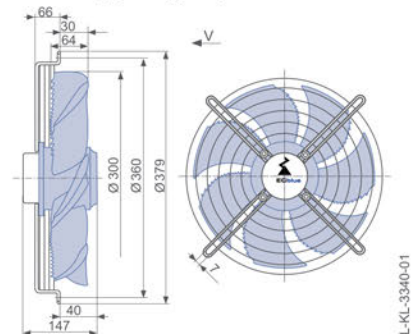


Design L - round full bell mouth, guard grille suction side



Airflow direction V

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





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN030-6L_BA_7P2	I	2750	①	2.20	520	
			②	1.80	420	83
			③	1.40	320	84
	II	2200	④	1.20	280	
			⑤	0.96	220	78
			⑥	0.76	170	78
	III	1650	⑦	0.56	130	
			⑧	0.46	100	71
			⑨	0.39	85	71
	IV	1100	⑩	0.24	46	
			⑪	0.22	38	61
			⑫	0.20	34	61

Current values determined at 230V

Fan ordering information

Design	Airflow direction A		Airflow direction V	
	W (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	H (guard grille pressure side)
<b>Type</b>	<b>FN030-6IW.BA.A7P2</b>	<b>FN030-6IL.BA.A7P2</b>	<b>FN030-6IK.BA.V7P2</b>	<b>FN030-6IH.BA.V7P2</b>
<b>Article no.</b>	<b>165253</b>	<b>165254</b>	<b>165257</b>	<b>165258</b>
<b>Weight kg</b>	6.70	8.00	6.70	8.00

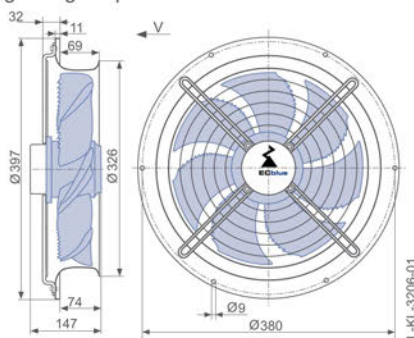
Control technology

Control modules



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



# FE2owlet-ECblue

for single phase alternating current, 200-277 V

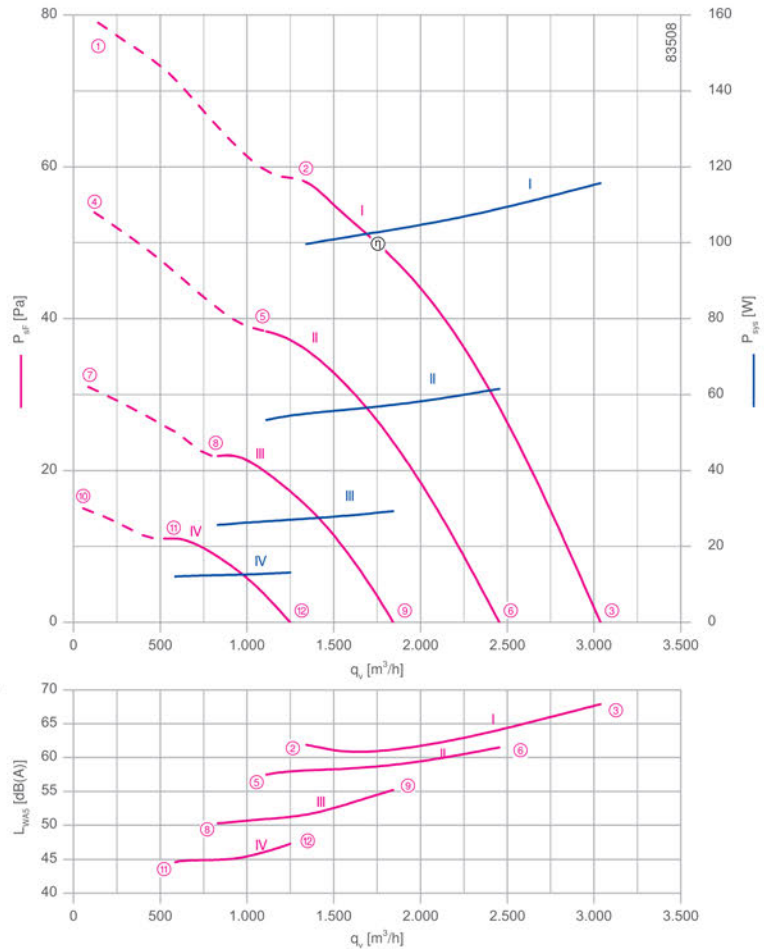
FN035



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1 ~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 120 W\*  
 Rated current  $I_N$ : 0.90-0.65 A\*  
 Rated speed  $n_N$ : 1290 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: Integrated controller with attached cable  
 Number of blades: 7  
 Protection class: IP44  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, powder-coated, ultramarine blue  
 Conformity: CE  
**ErP-data**  
 Not subject to the regulations of ErP directive ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



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

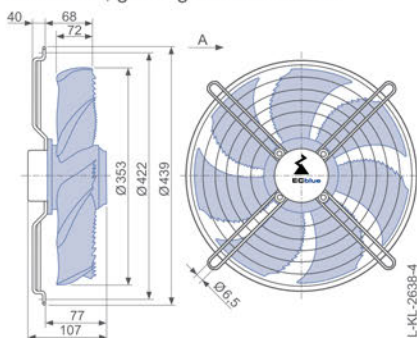
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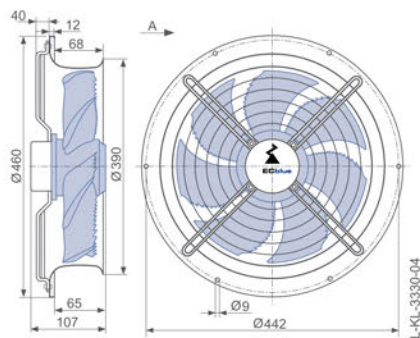
## Dimensions mm

Airflow direction A

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

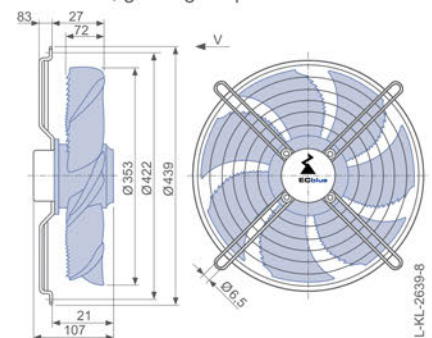


Design L - round full bell mouth, guard grille suction side



Airflow direction V

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



Performance data

Type	Characteristic curve	Torque	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		%		I A	$P_{sys}$ W	
FN035-6L_0E_7	I	100	①	0.66	95	
		100	②	0.70	100	62
		100	③	0.78	120	68
	II	80	④	0.37	50	
		80	⑤	0.39	55	58
		80	⑥	0.44	60	62
	III	60	⑦	0.20	24	
		60	⑧	0.21	26	50
		60	⑨	0.24	30	55
	IV	40	⑩	0.12	12	
		40	⑪	0.13	12	45
		40	⑫	0.13	13	47

Current values determined at 230V

Fan ordering information

	Airflow direction A		Airflow direction V		
Design	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
Type	FN035-6ID.0E.A7	FN035-6IL.0E.A7	FN035-6IK.0E.V7	FN035-6II.0E.V7	FN035-6IH.0E.V7
Article no.	140032	140036	140052	140044	140048
Weight kg	4.40	6.40	4.80	4.40	6.40

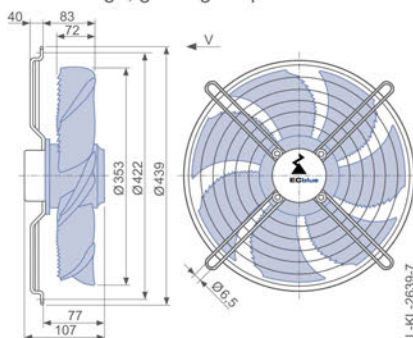
Control technology

Control modules

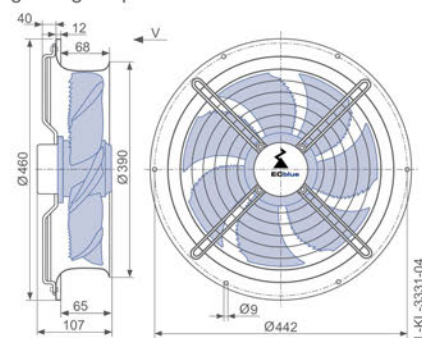


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Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



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





# FE2owlet-ECblue

for single phase alternating current, 200-277 V

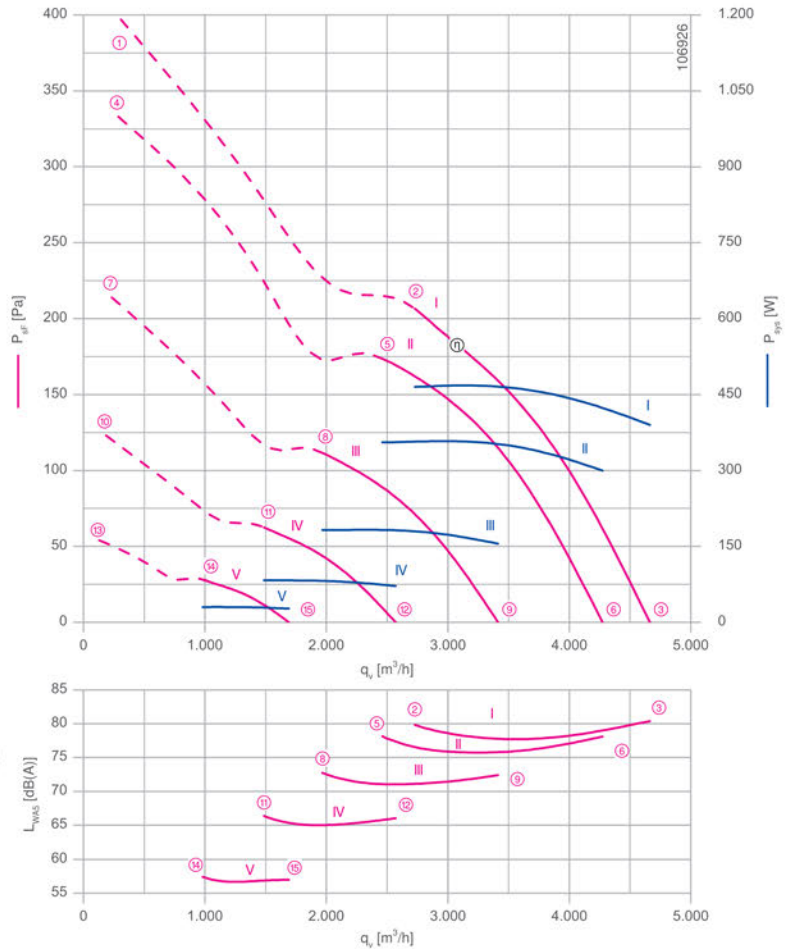
FN035



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 460 W\*  
 Rated current  $I_N$ : 2.40- 1.70 A\*  
 Rated speed  $n_N$ : 2000 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 55 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 38.8 %  
 Efficiency:  $N_{actual} = 47.2 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

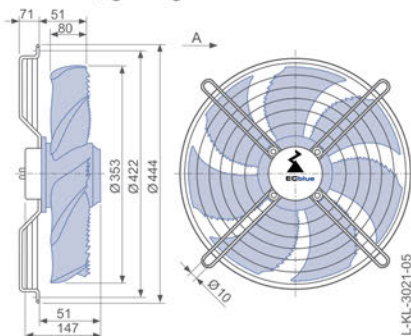
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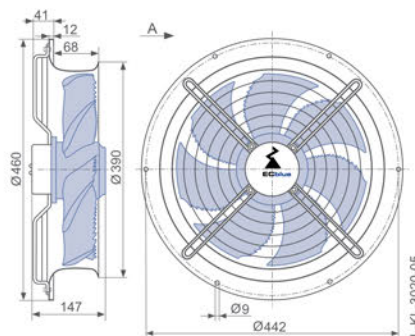
## Dimensions mm

### Airflow direction A

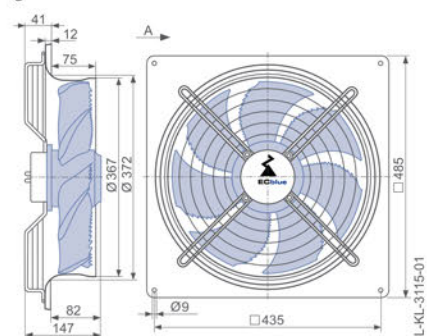
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



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



Design Q - square full bell mouth, guard grille suction side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		$n$ $\text{min}^{-1}$		$I$ A	$P_{\text{sys}}$ W	$L_{\text{WAS}}$ dB(A)	
FN035-6L_BA_7P2	I	2000	①	2.90	660		55
			②	2.00	460	80	
			③	1.70	390	80	
	II	1830	④	2.20	500		60
			⑤	1.55	360	78	
			⑥	1.30	300	78	
	III	1460	⑦	1.10	250		70
			⑧	0.80	180	73	
			⑨	0.68	160	72	
	IV	1100	⑩	0.50	110		70
			⑪	0.38	85	66	
			⑫	0.34	70	66	
	V	730	⑬	0.22	40		70
			⑭	0.18	30	57	
			⑮	0.17	26	57	

Current values determined at 230V

Fan ordering information

Design	Airflow direction A				Airflow direction V
	W (guard grille suction side)	L (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
Type Article no.	FN035-6IW.BA.A7P2 165261	FN035-6IL.BA.A7P2 165262	FN035-6IQ.BA.A7P2 165263	FN035-6IK.BA.V7P2 165265	FN035-6IQ.BA.V7P2 165267
Weight kg	7.20	8.70	9.50	7.20	9.50

Control technology

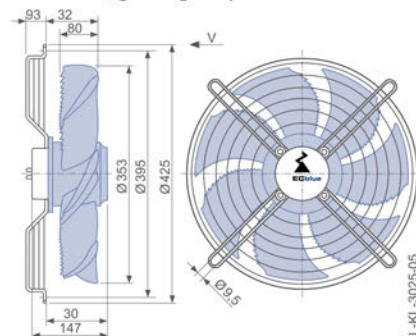
Control modules



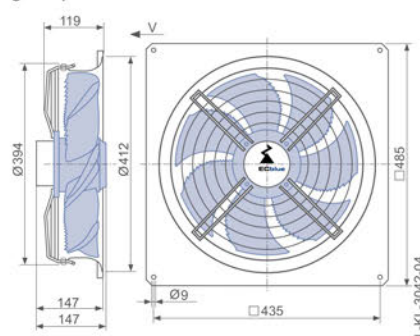
Page 452

Airflow direction V

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



Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for single phase alternating current, 200-277 V

FNO40



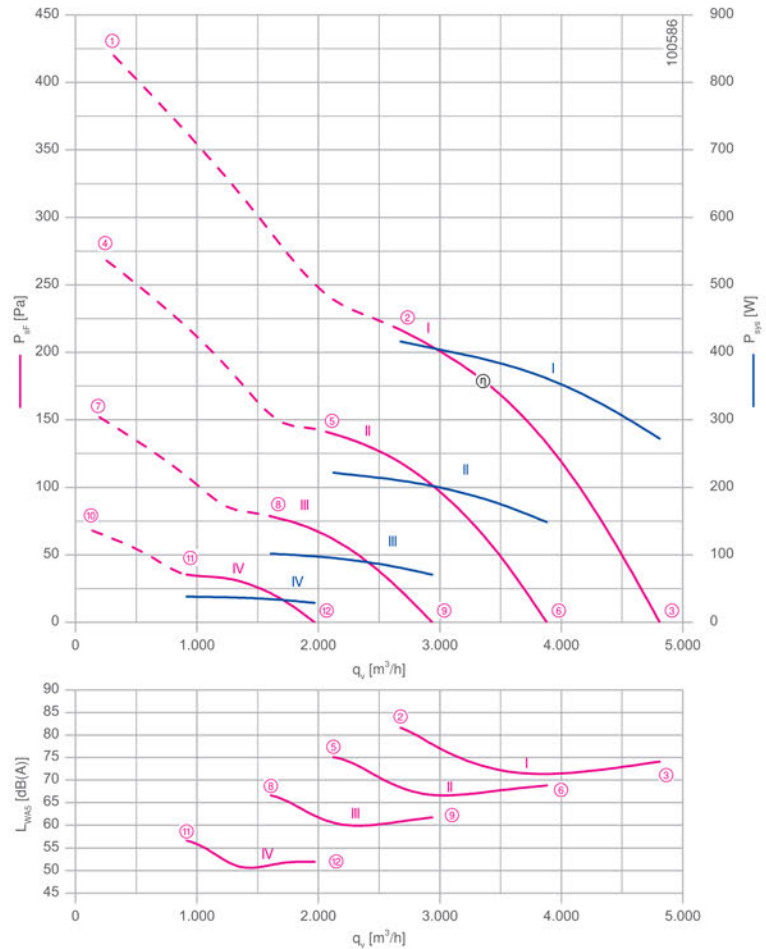
## Beschreibung

Motortechnologie: EC  
 Bemessungsspannung U: 1- 200-277 V\*  
 Bemessungsfrequenz f: 50/60 Hz\*  
 Aufnahmeleistung  $P_{sys}$ : 420 W\*  
 Bemessungsstrom I: 2,20- 1,55 A\*  
 Bemessungsdrehzahl  $n_{max}$ : 1800 min<sup>-1</sup>\*  
 Thermische Klasse: THCL155\*  
 Min. zulässige Fördermitteltemperatur  $t_{R(min)}$ : -35 °C  
 Max. zulässige Fördermitteltemperatur  $t_{R(max)}$ : 60 °C  
 Elektrischer Anschluss: Integrierter Controller  
 Flügelanzahl: 7  
 Schutzart: IP54  
 Motorschutz: Integriertes aktives Temperaturmanagement  
 Flügel: Hochleistungs-Verbundwerkstoff, unlackiert, schwarz  
 Rotor: Stahl, 2-Schicht-Lackierung, ultramarinblau  
 Konformität: ErP 2015, CE

## ErP-Daten

Wirkungsgrad  $\eta_{statA}$ : 49,5 %  
 Effizienzgrad:  $N_{st} = 58,5 / N_{sol} = 40^{**}$   
 EC-Controller integriert  
 \* Leistungsschilddaten  
 \*\*ErP 2015

## Characteristic curve



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

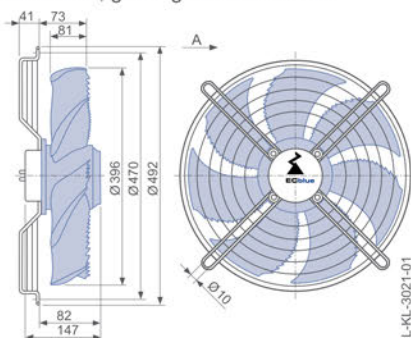
Connection diagram Page 529  
1360-384

System components Page 430

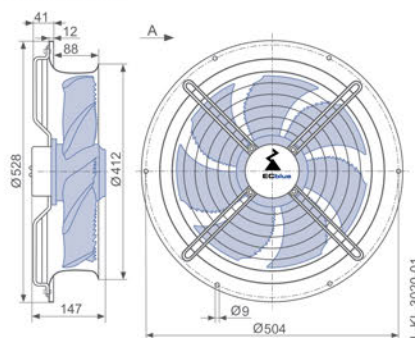
## Dimensions mm

Airflow direction A

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

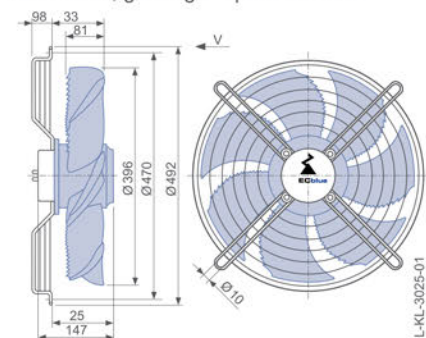


Design L - round full bell mouth, guard grille suction side



Airflow direction V

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





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min <sup>-1</sup>		I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)
FN040-6L_BD_7P1	I	1800	①	2.50	580	
			②	1.85	420	83
			③	1.20	270	74
	II	1440	④	1.35	300	
			⑤	0.98	220	75
			⑥	0.66	150	69
	III	1080	⑦	0.62	140	
			⑧	0.48	100	67
			⑨	0.35	70	62
	IV	720	⑩	0.28	48	
			⑪	0.24	38	56
			⑫	0.19	28	52

Current values determined at 230V

Fan ordering information

Design	Airflow direction A		Airflow direction V	
	W (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
<b>Type</b>	<b>FN040-6IW.BD.A7P1</b>	<b>FN040-6IL.BD.A7P1</b>	<b>FN040-6IK.BD.V7P1</b>	<b>FN040-6IQ.BD.V7P1</b>
<b>Article no.</b>	<b>162115</b>	<b>162114</b>	<b>162133</b>	<b>162272</b>
<b>Weight kg</b>	7.00	9.50	7.50	10.40

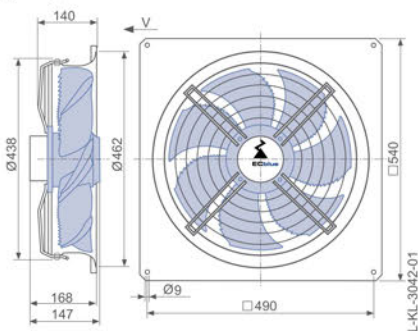
Control technology

Control modules



Page 452

Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for single phase alternating current, 200-277 V

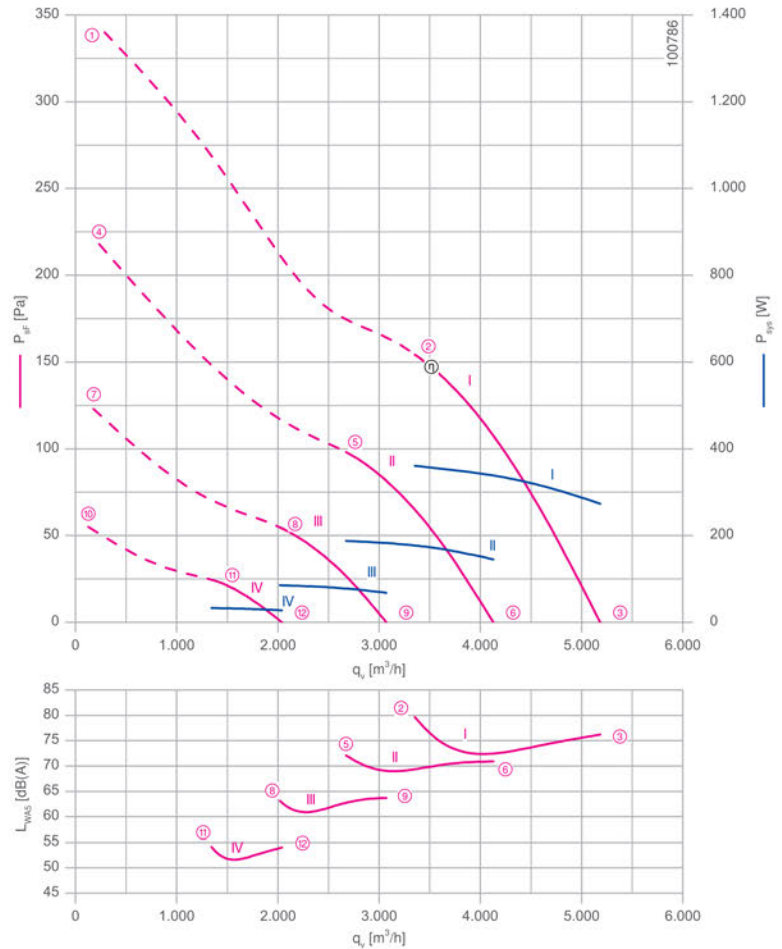
FNO42



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 390 W\*  
 Rated current  $I_N$ : 1.95- 1.45 A\*  
 Rated speed  $n_N$ : 1600 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 46.2 %  
 Efficiency:  $N_{actual} = 55.3 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

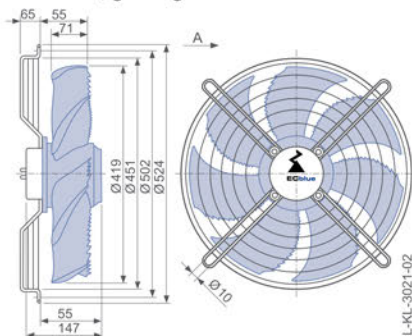
Connection diagram Page 529  
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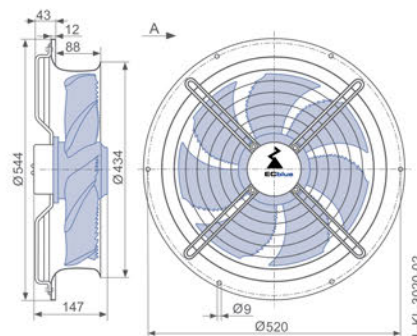
## Dimensions mm

Airflow direction A

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

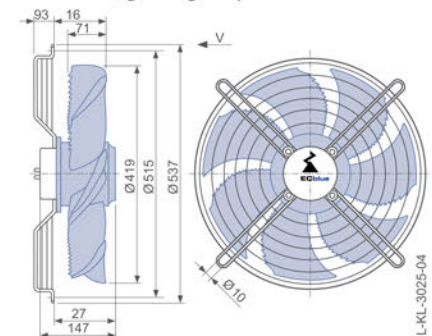


Design L - round full bell mouth, guard grille suction side



Airflow direction V

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



Performance data

Type	Characteristic curve	Speed n min <sup>-1</sup>	Operating point	Current	Input power	Suction side sound power level
				I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)
FN042-6L_BD_7P1	I	1600	①	2.30	540	
			②	1.60	360	80
			③	1.20	270	76
	II	1280	④	1.20	270	
			⑤	0.84	190	72
			⑥	0.66	150	71
	III	960	⑦	0.56	120	
			⑧	0.40	85	63
			⑨	0.33	70	64
	IV	640	⑩	0.24	44	
			⑪	0.20	32	51
			⑫	0.18	28	54

Current values determined at 230V

Fan ordering information

Design	Airflow direction A		Airflow direction V	
	W (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	H (guard grille pressure side)
<b>Type</b>	<b>FN042-6IW.BD.A7P1</b>	<b>FN042-6IL.BD.A7P1</b>	<b>FN042-6IK.BD.V7P1</b>	<b>FN042-6IH.BD.V7P1</b>
<b>Article no.</b>	<b>162118</b>	<b>162117</b>	<b>162136</b>	<b>162135</b>
<b>Weight kg</b>	7.30	9.70	7.80	9.60

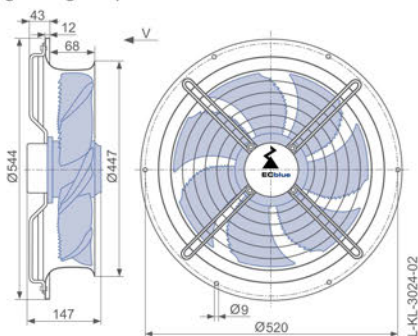
Control technology

Control modules



Page 452

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





# FE2owlet-ECblue

for single phase alternating current, 200-277 V

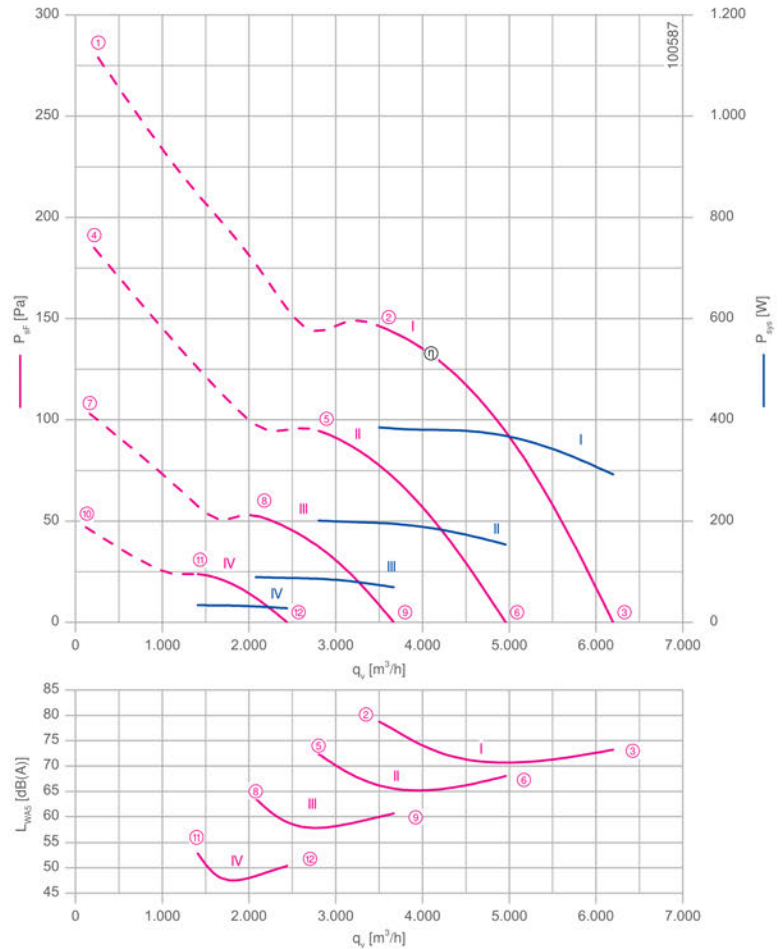
FNO45



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1- 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 390 W\*  
 Rated current  $I_N$ : 1.95- 1.40 A\*  
 Rated speed  $n_N$ : 1470 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 45.1 %  
 Efficiency:  $N_{actual} = 54.1 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

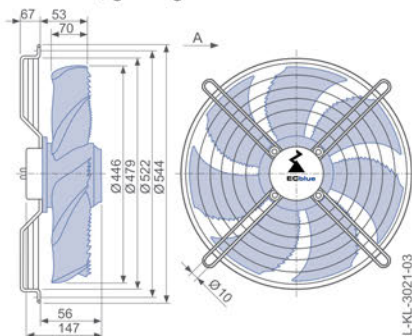
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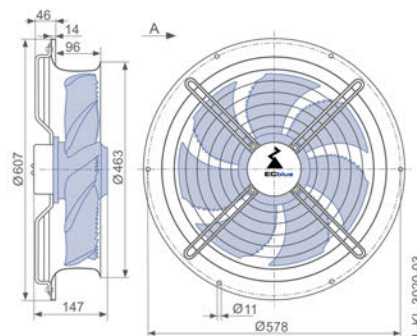
## Dimensions mm

Airflow direction A

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

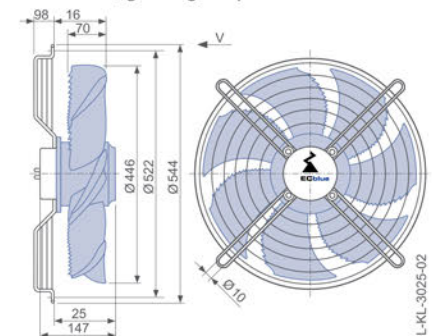


Design L - round full bell mouth, guard grille suction side



Airflow direction V

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



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN045-6L_BD_7P2	I	1470	①	2.30	540	
			②	1.70	380	79
			③	1.25	290	73
	II	1180	④	1.25	280	
			⑤	0.88	200	72
			⑥	0.68	150	68
	III	880	⑦	0.54	120	
			⑧	0.40	90	63
			⑨	0.33	70	61
	IV	590	⑩	0.23	44	
			⑪	0.20	34	52
			⑫	0.18	28	50


Current values determined at 230V

Fan ordering information

Design	Airflow direction A		Airflow direction V	
	W (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
<b>Type</b>	<b>FN045-6IW.BD.A7P2</b>	<b>FN045-6IL.BD.A7P2</b>	<b>FN045-6IK.BD.V7P2</b>	<b>FN045-6IQ.BD.V7P2</b>
<b>Article no.</b>	<b>162121</b>	<b>162120</b>	<b>162139</b>	<b>162273</b>
<b>Weight kg</b>	7.40	10.60	7.80	11.10

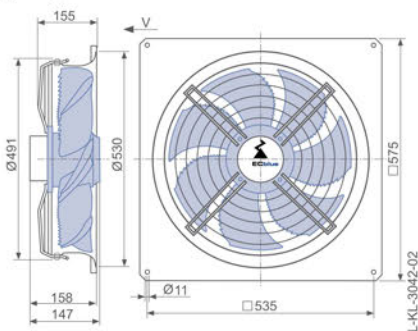
Control technology

Control modules



Page 452

Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for single phase alternating current, 200-277 V

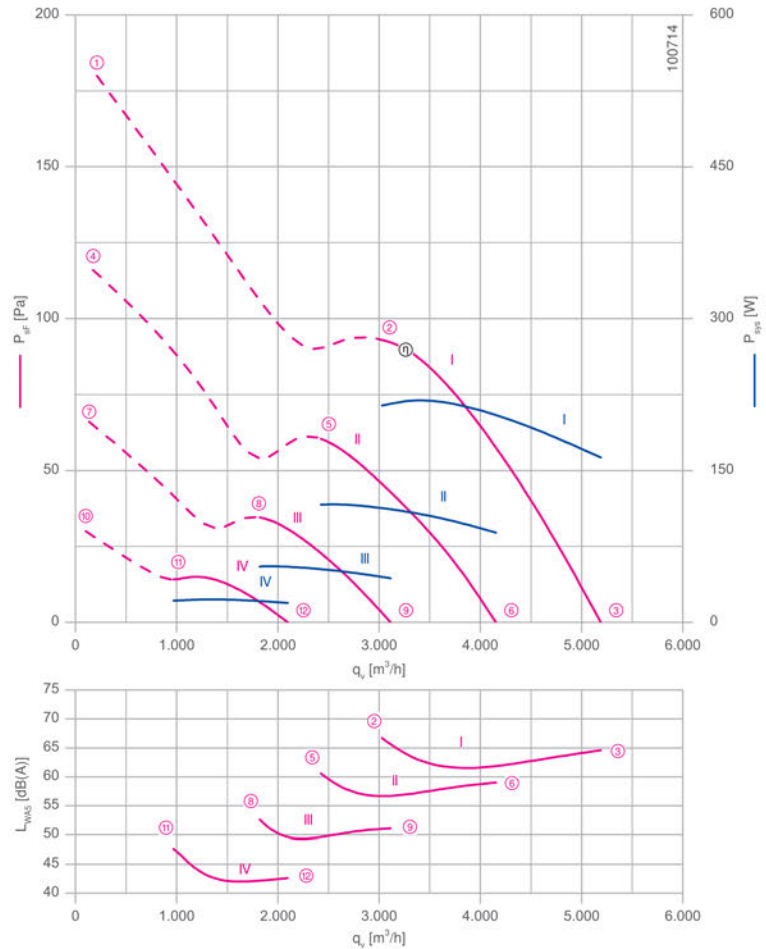
FNO45



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 220 W\*  
 Rated current  $I_N$ : 1.10- 0.80 A\*  
 Rated speed  $n_N$ : 1100 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 65 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 43.3 %  
 Efficiency:  $N_{actual} = 53.8 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

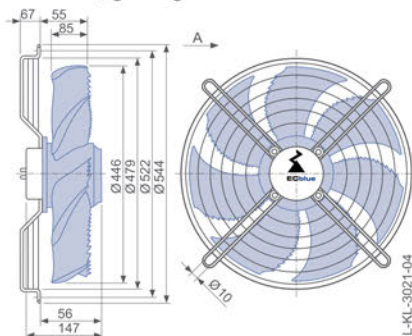
Connection diagram Page 529  
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System components Page 430

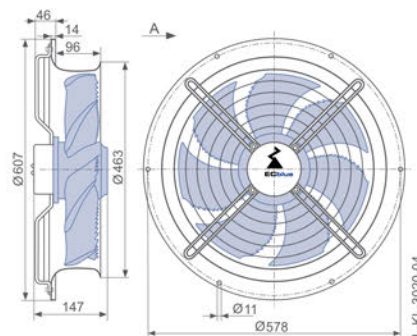
## Dimensions mm

Airflow direction A

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

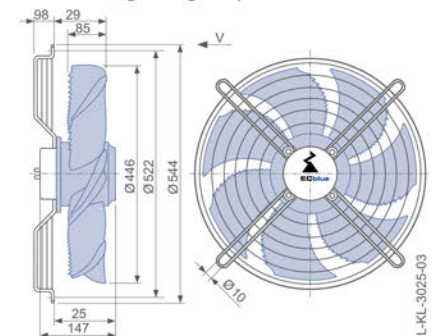


Design L - round full bell mouth, guard grille suction side



Airflow direction V

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





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN045-6L_BD_7P3	I	1100	①	1.25	290	
			②	0.94	210	67
			③	0.72	160	65
	II	880	④	0.68	150	
			⑤	0.52	120	60
			⑥	0.40	90	59
	III	660	⑦	0.34	70	
			⑧	0.27	55	52
			⑨	0.23	44	51
	IV	440	⑩	0.18	28	
			⑪	0.16	22	43
			⑫	0.15	19	43

Current values determined at 230V

Fan ordering information

Design	Airflow direction A		Airflow direction V	
	W (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
<b>Type</b>	<b>FN045-6IW.BD.A7P3</b>	<b>FN045-6IL.BD.A7P3</b>	<b>FN045-6IK.BD.V7P3</b>	<b>FN045-6IQ.BD.V7P3</b>
<b>Article no.</b>	<b>162124</b>	<b>162123</b>	<b>162142</b>	<b>162274</b>
<b>Weight kg</b>	7.50	10.60	7.90	11.20

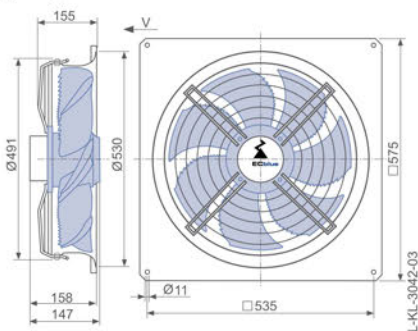
Control technology

Control modules



Page 452

Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for single phase alternating current, 200-277 V

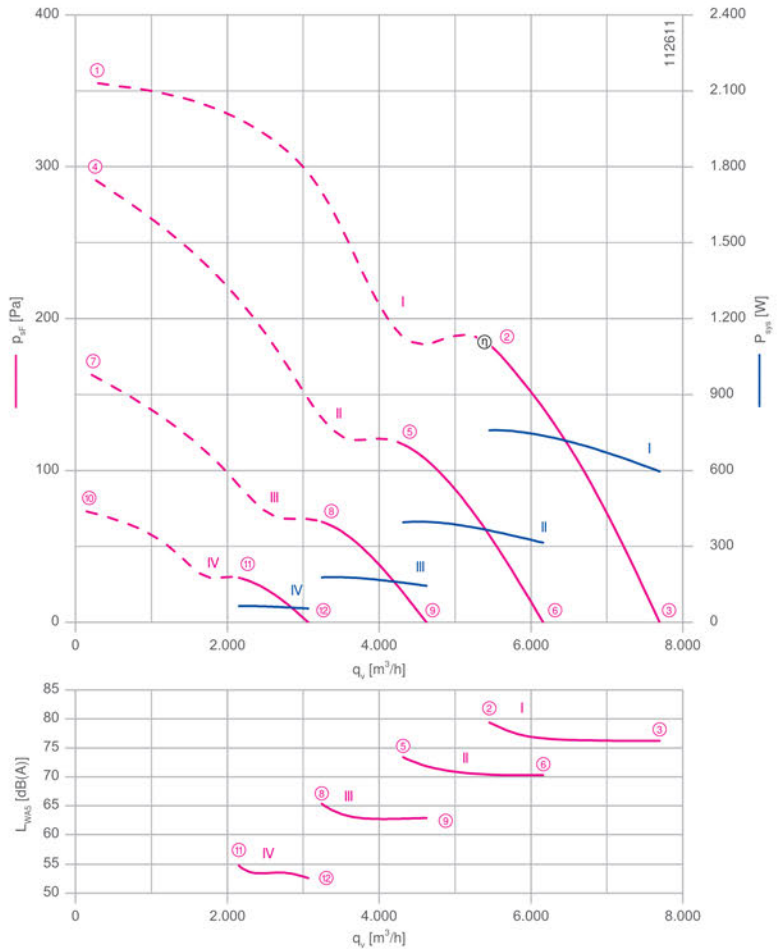
FNO45



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 0.76 kW\*  
 Rated current  $I_N$ : 3.90- 3.30 A\*  
 Rated speed  $n_N$ : 1650 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 5  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 41.2 %  
 Efficiency:  $N_{actual} = 48.3 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

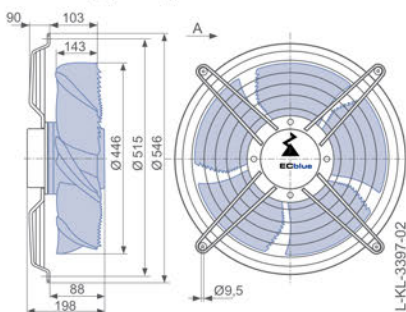
Connection diagram Page 530  
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System components Page 430

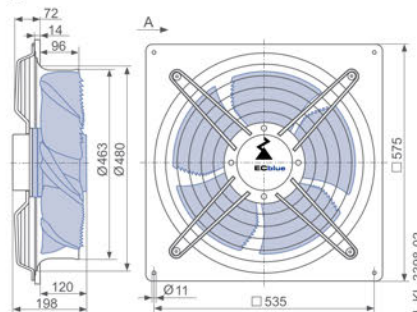
## Dimensions mm

Airflow direction A

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

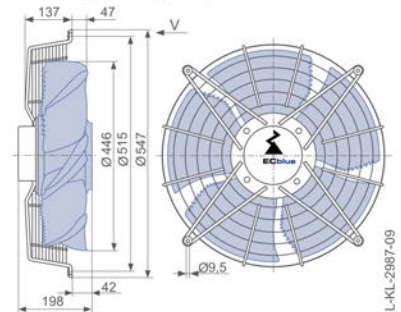


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

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



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min <sup>-1</sup>		I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)
FN045-ZL_DC_5P4	I	1650	①	3.50	780	
			②	3.40	760	80
			③	2.70	600	76
	II	1320	④	2.60	580	
			⑤	1.85	390	73
			⑥	1.50	310	70
	III	990	⑦	1.20	250	
			⑧	0.84	180	65
			⑨	0.68	140	63
	IV	660	⑩	0.44	85	
			⑪	0.37	65	55
			⑫	0.33	55	53

Current values determined at 230V

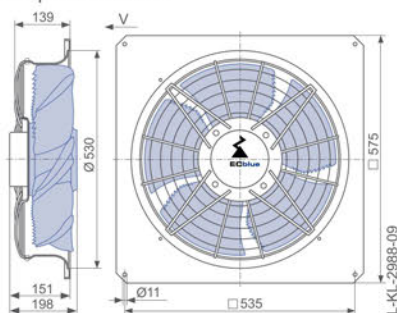
Fan ordering information

Design	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
				
<b>Type</b>	<b>FN045-ZIW.DC.A5P4</b>	<b>FN045-ZIQ.DC.A5P4</b>	<b>FN045-ZIK.DC.V5P4</b>	<b>FN045-ZIQ.DC.V5P4</b>
<b>Article no.</b>	<b>168971</b>	<b>168972</b>	<b>168974</b>	<b>168975</b>
<b>Weight kg</b>	12.20	15.60	12.50	15.20

Control technology

Control modules	Add-on modules	Operating terminal
 Page 452	 Page 463	 Page 472

Design Q - square full bell mouth, guard grille pressure side





# FE2owlet-ECblue

for three phase alternating current, 380-480 V

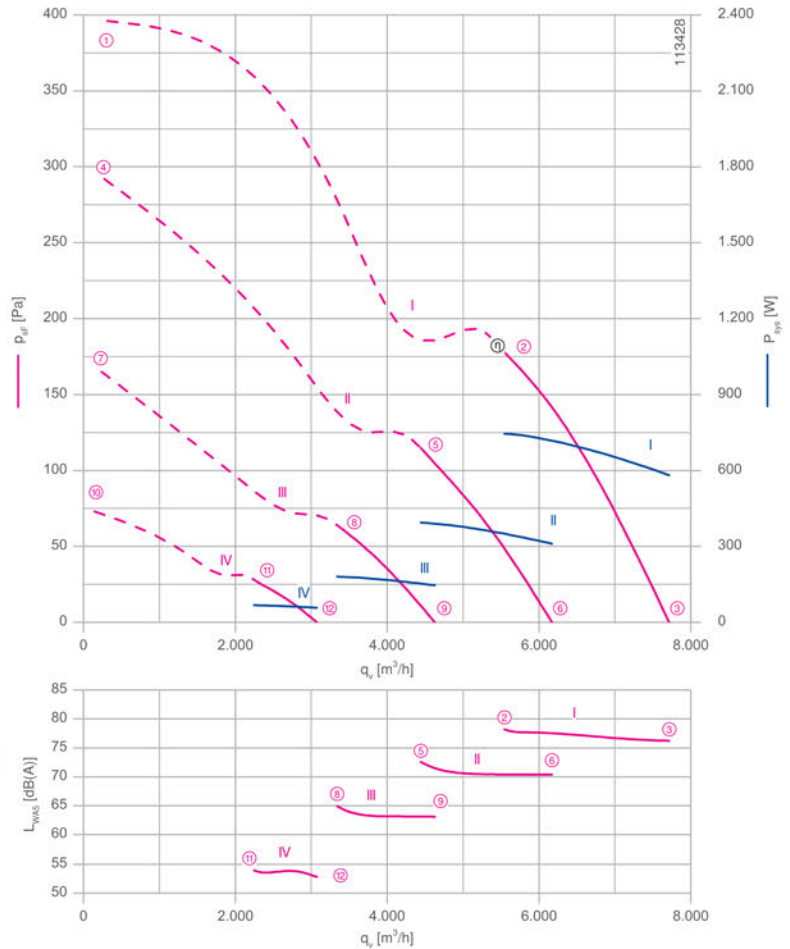
FNO45



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 0.74 kW\*  
 Rated current  $I_N$ : 1.35- 1.10 A\*  
 Rated speed  $n_N$ : 1650 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 5  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 41.4 %  
 Efficiency:  $N_{actual} = 48.5 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

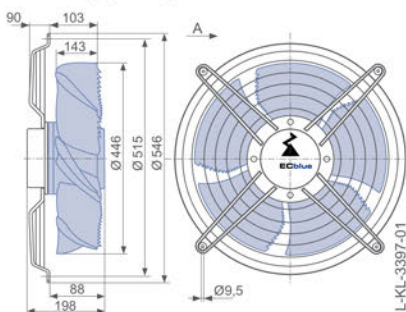
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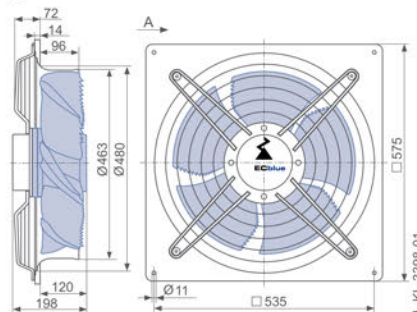
## Dimensions mm

Airflow direction A

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

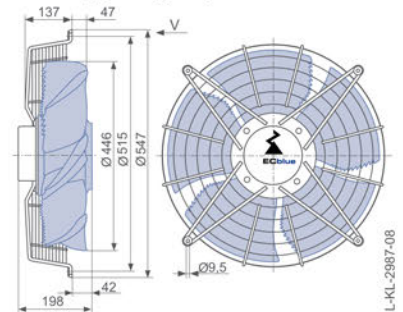


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

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



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min <sup>-1</sup>		I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)
FN045-ZI_DC_5P4	I	1650	①	1.45	860	
			②	1.30	740	78
			③	1.05	580	76
	II	1320	④	1.05	560	
			⑤	0.84	390	72
			⑥	0.74	310	70
	III	990	⑦	0.66	250	
			⑧	0.54	180	65
			⑨	0.46	150	63
	IV	660	⑩	0.37	90	
			⑪	0.34	65	54
			⑫	0.32	60	53

Current values determined at 400V

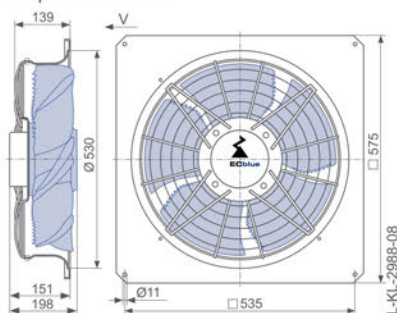
Fan ordering information

Design	Airflow direction A		Airflow direction V	
	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
<b>Type</b>	<b>FN045-ZIW.DC.A5P4</b>	<b>FN045-ZIQ.DC.A5P4</b>	<b>FN045-ZIK.DC.V5P4</b>	<b>FN045-ZIQ.DC.V5P4</b>
<b>Article no.</b>	<b>168965</b>	<b>168966</b>	<b>168968</b>	<b>168969</b>
<b>Weight kg</b>	12.20	15.60	12.50	15.20

Control technology

Control modules	Add-on modules	Operating terminal
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Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for single phase alternating current, 200-277 V

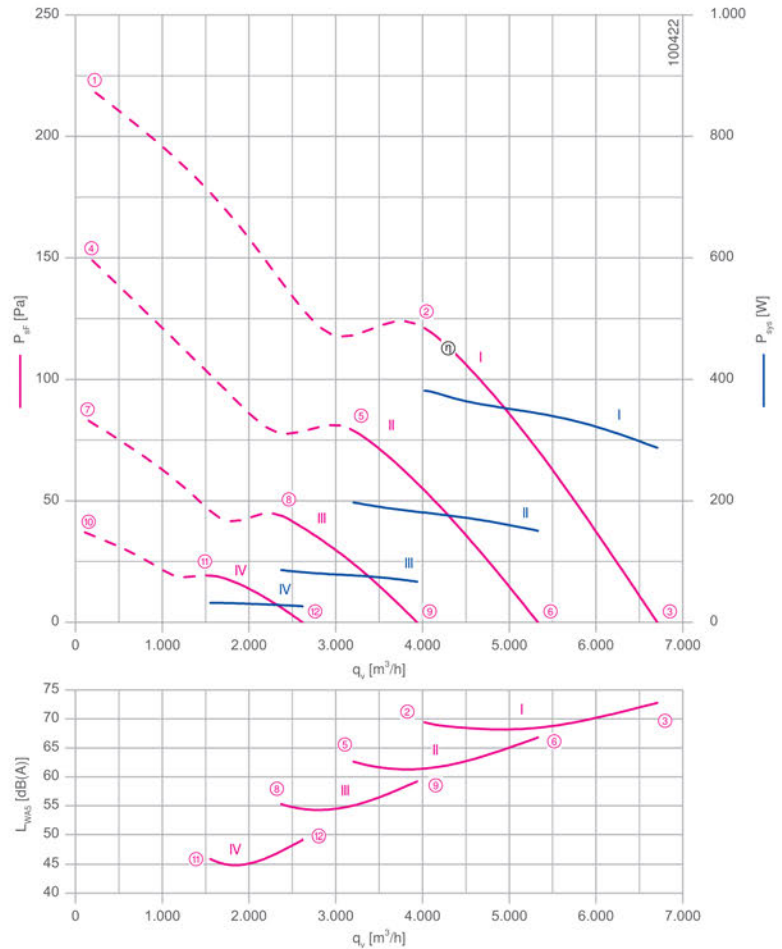
FN050



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 380 W\*  
 Rated current  $I_N$ : 1.95- 1.40 A\*  
 Rated speed  $n_N$ : 1120 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 41.7 %  
 Efficiency:  $N_{actual} = 50.8 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

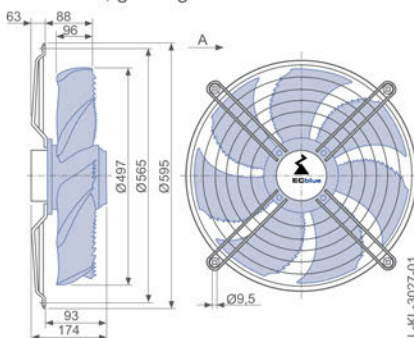
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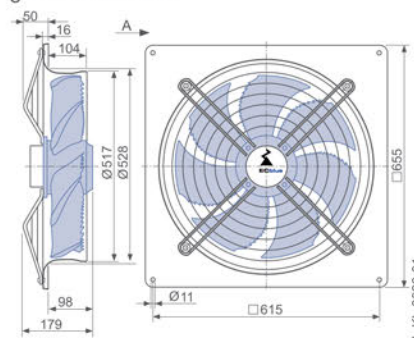
## Dimensions mm

Airflow direction A

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

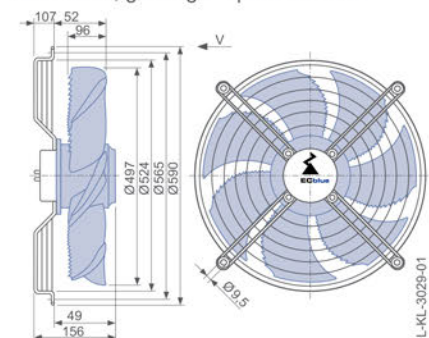


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

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






Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN050-6I...BD...7P2	I	1120	①	2.00	460	
			②	1.70	380	69
			③	1.25	290	73
	II	900	④	1.15	260	
			⑤	0.86	200	63
			⑥	0.68	150	67
	III	670	⑦	0.50	110	
			⑧	0.40	85	55
			⑨	0.32	65	59
	IV	450	⑩	0.22	40	
			⑪	0.19	32	46
			⑫	0.17	26	49

Current values determined at 230V

Fan ordering information

Design	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
				
<b>Type</b>	<b>FN050-6IW.BD.A7P2</b>	<b>FN050-6IQ.BD.A7P2</b>	<b>FN050-6IK.BD.V7P2</b>	<b>FN050-6IQ.BD.V7P2</b>
<b>Article no.</b>	<b>162127</b>	<b>162126</b>	<b>162145</b>	<b>162146</b>
<b>Weight kg</b>	9.40	15.80	9.50	14.30

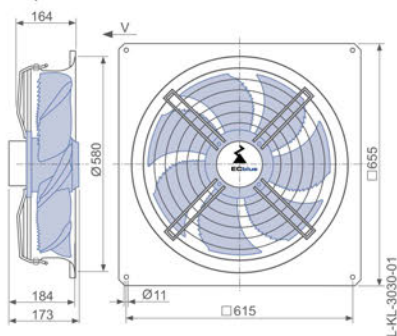
Control technology

Control modules



Page 452

Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for single phase alternating current, 200-277 V

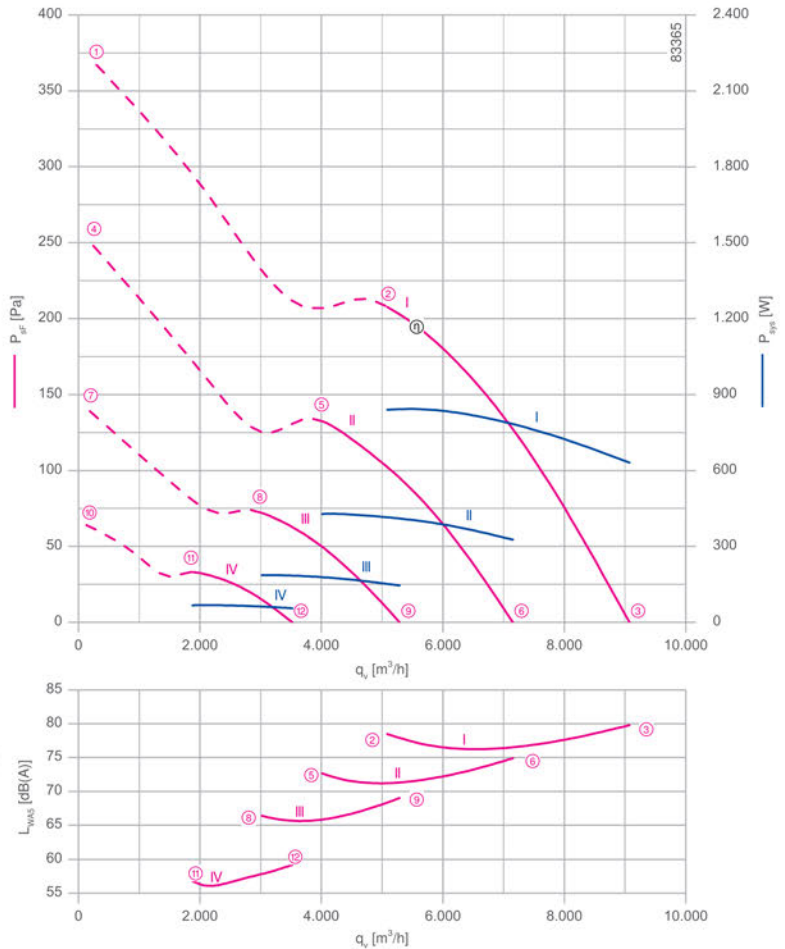
FN050



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 0.84 kW\*  
 Rated current  $I_N$ : 4.40- 3.20 A\*  
 Rated speed  $n_N$ : 1440 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 40.1 %  
 Efficiency:  $N_{actual} = 46.9 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

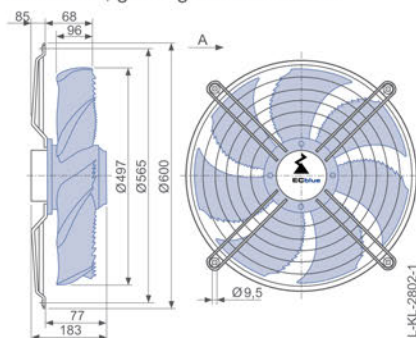
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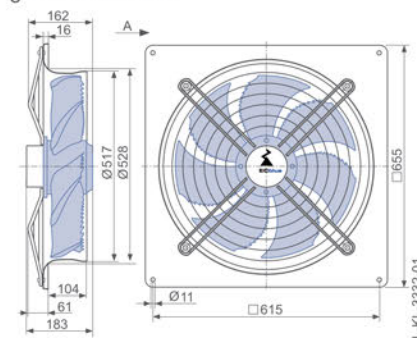
## Dimensions mm

Airflow direction →

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

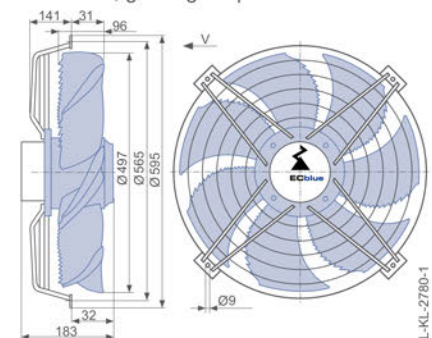


Design Q - square full bell mouth, guard grille suction side



← Airflow direction

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






Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN050-ZL_DC_V7P2	I	1440	①	4.80	1050	
			②	3.80	840	79
			③	2.90	640	80
	II	1150	④	2.70	580	
			⑤	2.00	420	73
			⑥	1.55	330	75
	III	860	⑦	1.15	250	
			⑧	0.86	190	66
			⑨	0.68	150	69
	IV	580	⑩	0.46	85	
			⑪	0.39	70	56
			⑫	0.35	55	59

Current values determined at 230V

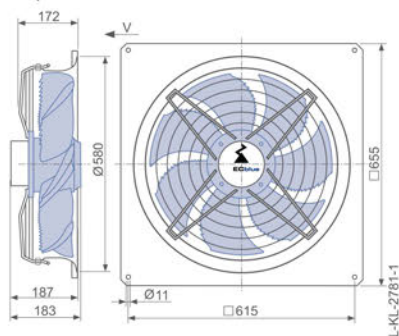
Fan ordering information

Design	Airflow direction A		Airflow direction V	
	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
				
<b>Type</b>	<b>FN050-ZIW.DC.A7P2</b>	<b>FN050-ZIQ.DC.A7P2</b>	<b>FN050-ZIK.DC.V7P2</b>	<b>FN050-ZIQ.DC.V7P2</b>
<b>Article no.</b>	<b>154375</b>	<b>154381</b>	<b>154399</b>	<b>154405</b>
<b>Weight kg</b>	12.30	18.70	13.90	17.60

Control technology

Control modules	Add-on modules	Operating terminal
		
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Design Q - square full bell mouth, guard grille pressure side





# FE2owlet-ECblue

for three phase alternating current, 200-240 V

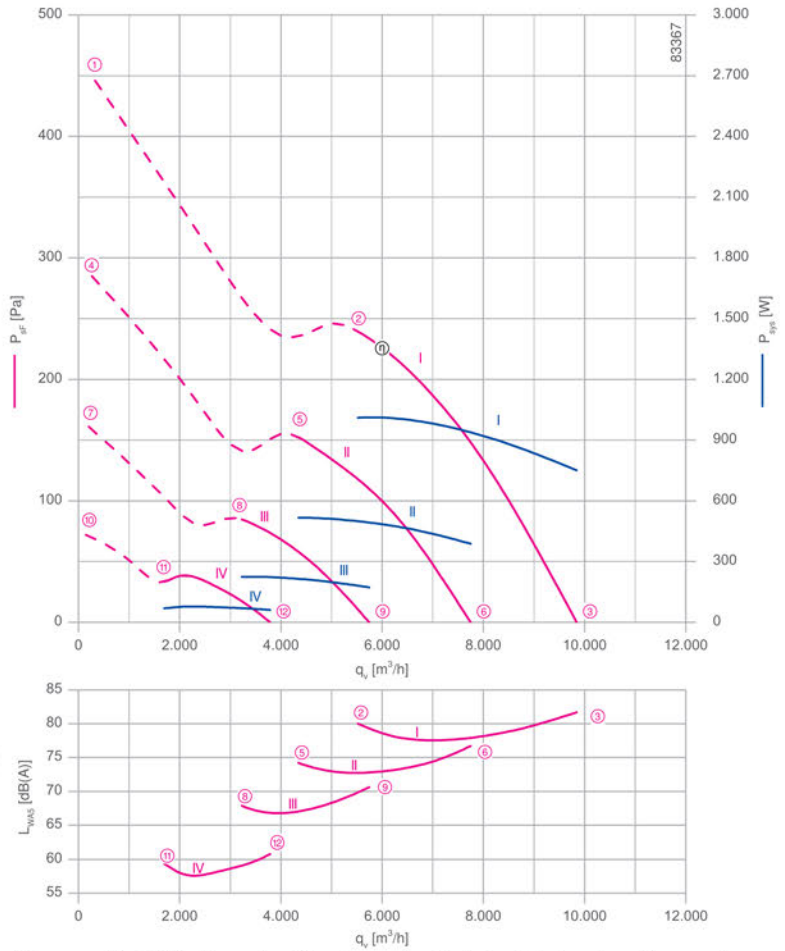
FN050



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 200-240 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 1.00 kW\*  
 Rated current  $I_N$ : 3.00- 2.50 A\*  
 Rated speed  $n_N$ : 1550 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 41.6 %  
 Efficiency:  $N_{actual} = 47.9 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

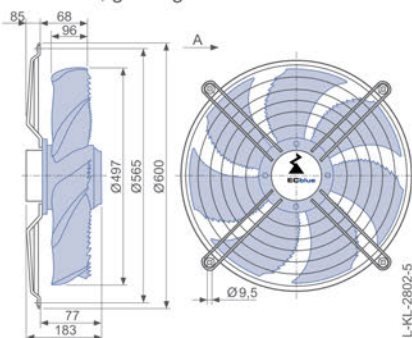
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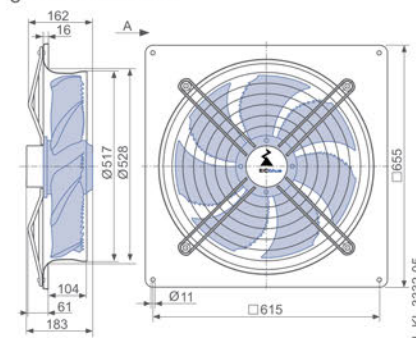
## Dimensions mm

Airflow direction A

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

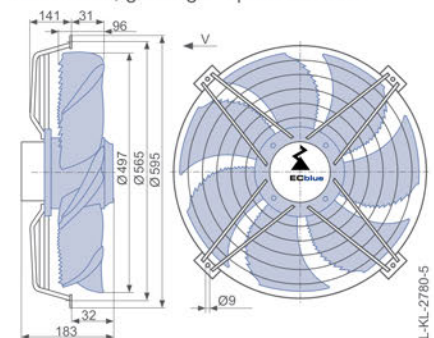


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

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



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN050-ZI_DC_V7P2	I	1550	①	3.60	1400	
			②	2.60	1000	80
			③	2.00	760	82
	II	1240	④	1.85	700	
			⑤	1.40	520	74
			⑥	1.05	390	77
	III	930	⑦	0.84	300	
			⑧	0.66	220	68
			⑨	0.54	170	71
	IV	620	⑩	0.38	100	
			⑪	0.32	75	57
			⑫	0.28	60	61

Current values determined at 230V

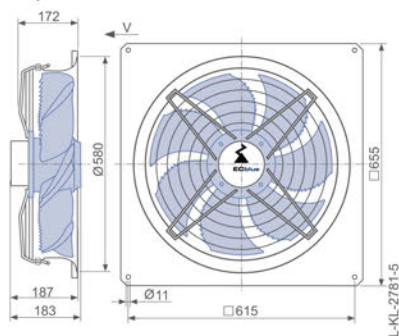
Fan ordering information

Design	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
				
<b>Type</b>	<b>FN050-ZIW.DC.A7P2</b>	<b>FN050-ZIQ.DC.A7P2</b>	<b>FN050-ZIK.DC.V7P2</b>	<b>FN050-ZIQ.DC.V7P2</b>
<b>Article no.</b>	<b>154373</b>	<b>154379</b>	<b>154397</b>	<b>154403</b>
<b>Weight kg</b>	12.30	18.70	13.90	17.60

Control technology

Control modules	Add-on modules	Operating terminal
		
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Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for three phase alternating current, 380-480 V

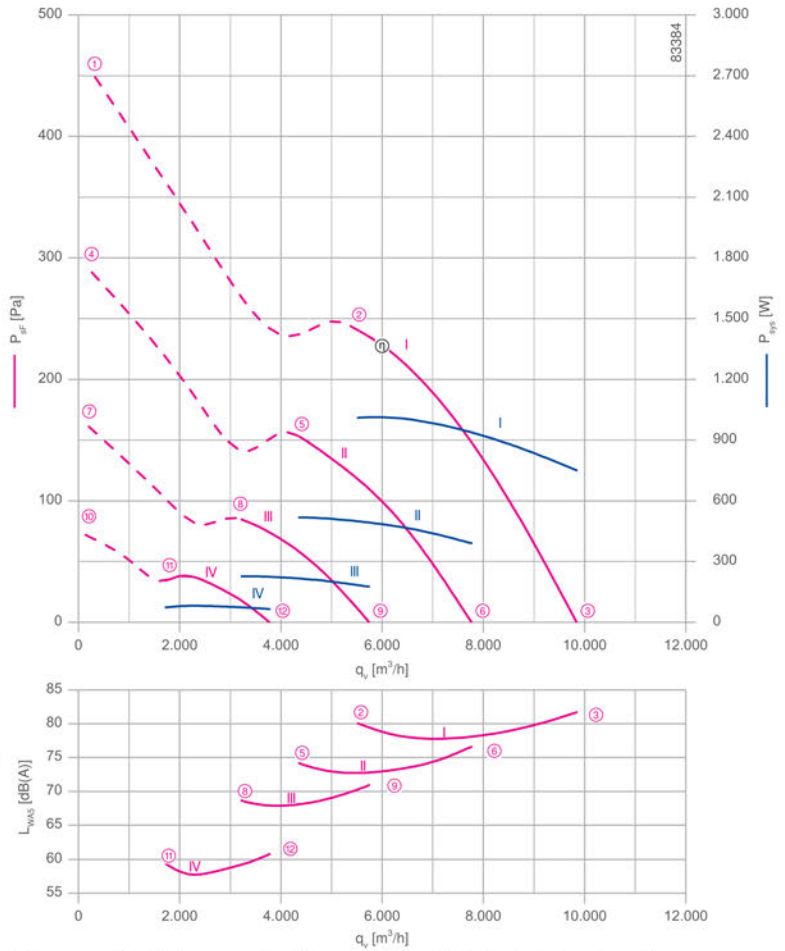
FN050



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 1.00 kW\*  
 Rated current  $I_N$ : 1.70- 1.35 A\*  
 Rated speed  $n_N$ : 1550 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 41.8 %  
 Efficiency:  $N_{actual} = 48.1 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

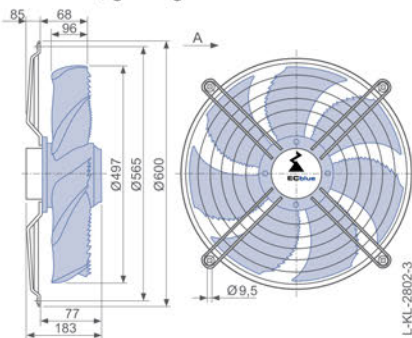
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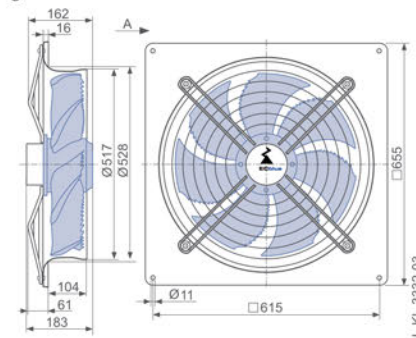
## Dimensions mm

Airflow direction A

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

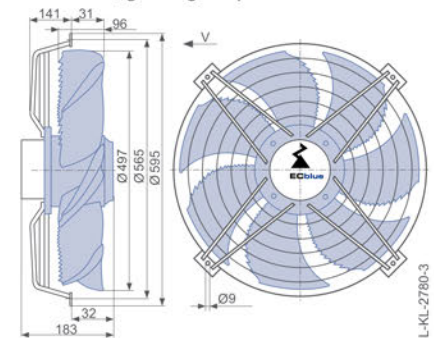


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

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





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min <sup>-1</sup>		I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)
FN050-ZI_DC_V7P2	I	1550	①	2.10	1400	
			②	1.60	1000	80
			③	1.25	760	82
	II	1240	④	1.15	700	
			⑤	0.92	520	74
			⑥	0.76	390	77
	III	930	⑦	0.64	300	
			⑧	0.54	230	69
			⑨	0.46	180	71
	IV	620	⑩	0.33	100	
			⑪	0.29	80	58
			⑫	0.26	65	61

Current values determined at 400V

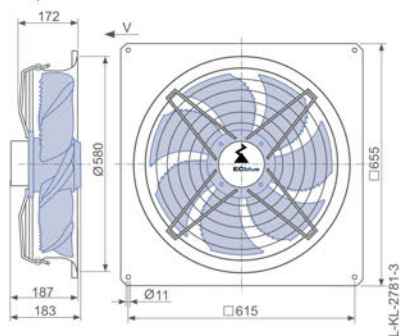
Fan ordering information

Design	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
				
<b>Type</b>	<b>FN050-ZIW.DC.A7P2</b>	<b>FN050-ZIQ.DC.A7P2</b>	<b>FN050-ZIK.DC.V7P2</b>	<b>FN050-ZIQ.DC.V7P2</b>
<b>Article no.</b>	<b>154371</b>	<b>154377</b>	<b>154395</b>	<b>154401</b>
<b>Weight kg</b>	12.30	18.70	13.90	17.60

Control technology

Control modules	Add-on modules	Operating terminal
		
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Design Q - square full bell mouth, guard grille pressure side





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		$n$ $\text{min}^{-1}$		$I$ A	$P_{\text{sys}}$ W	$L_{\text{WAS}}$ dB(A)	
FN056-6I_BD_5P4	I	940	①	2.40	560		50
			②	1.70	390	66	
			③	1.05	240	66	
	II	800	④	1.65	390		60
			⑤	1.05	240	62	
			⑥	0.66	150	62	
	III	640	⑦	0.84	190		
			⑧	0.54	120	56	
			⑨	0.37	80	57	
	IV	480	⑩	0.39	85		
			⑪	0.27	55	47	
			⑫	0.22	38	49	
	V	320	⑬	0.18	30		
			⑭	0.16	22	38	
			⑮	0.15	17	39	

Current values determined at 230V

Fan ordering information

	Airflow direction A	Airflow direction V		
Design	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
Type	FN056-6IW.BD.A5P4	FN056-6IQ.BD.A5P4	FN056-6IK.BD.V5P4	FN056-6IQ.BD.V5P4
Article no.	165269	165259	165272	165273
Weight kg	11.50	18.80	11.50	17.90

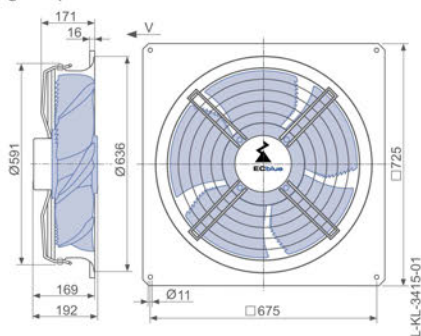
Control technology

Control modules



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Design Q - square full bell mouth, guard grille pressure side





# FE2owlet-ECblue

for single phase alternating current, 200-277 V

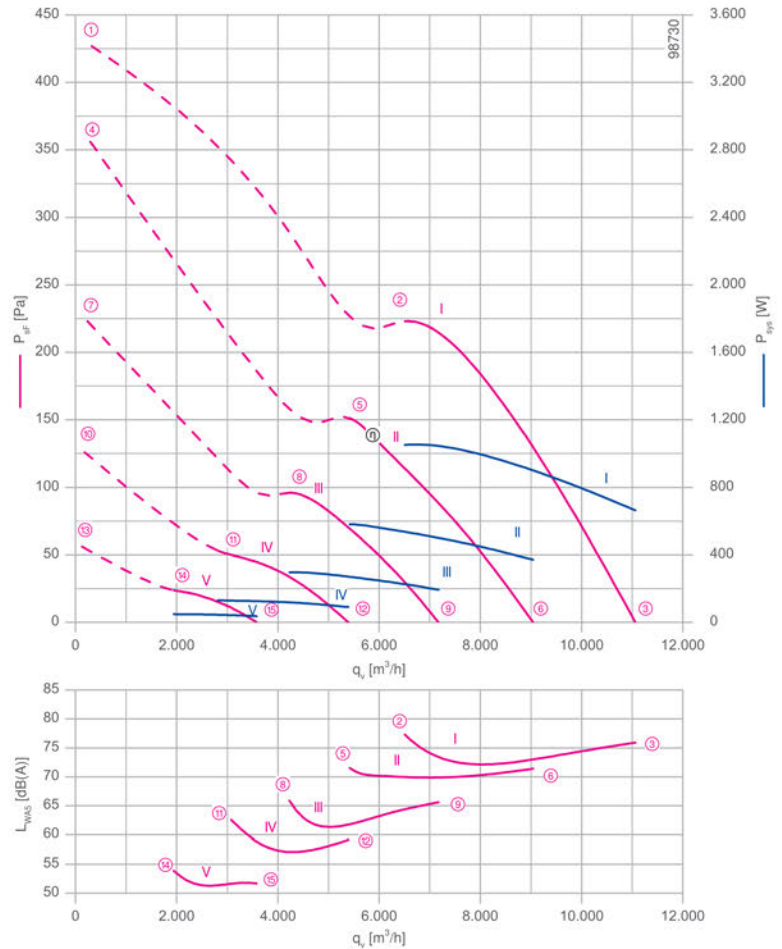
FN056



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 1.05 kW\*  
 Rated current  $I_N$ : 5.60- 4.00 A\*  
 Rated speed  $n_N$ : 1350 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 50 °C  
 Electrical connection: integrated Controller  
 Number of blades: 5  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 43.9 %  
 Efficiency:  $N_{actual} = 50.2 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

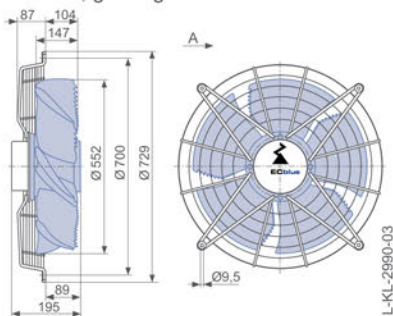
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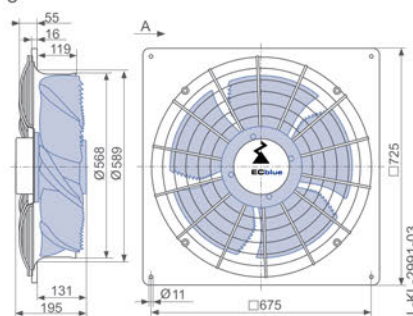
## Dimensions mm

Airflow direction A

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

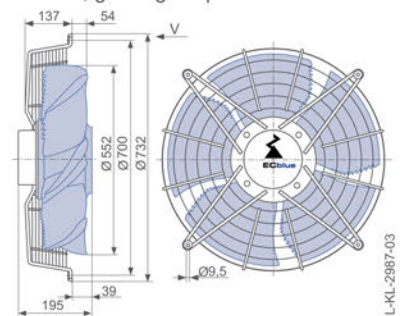


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

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





# FE2owlet-ECblue

for three phase alternating current, 200-240 V

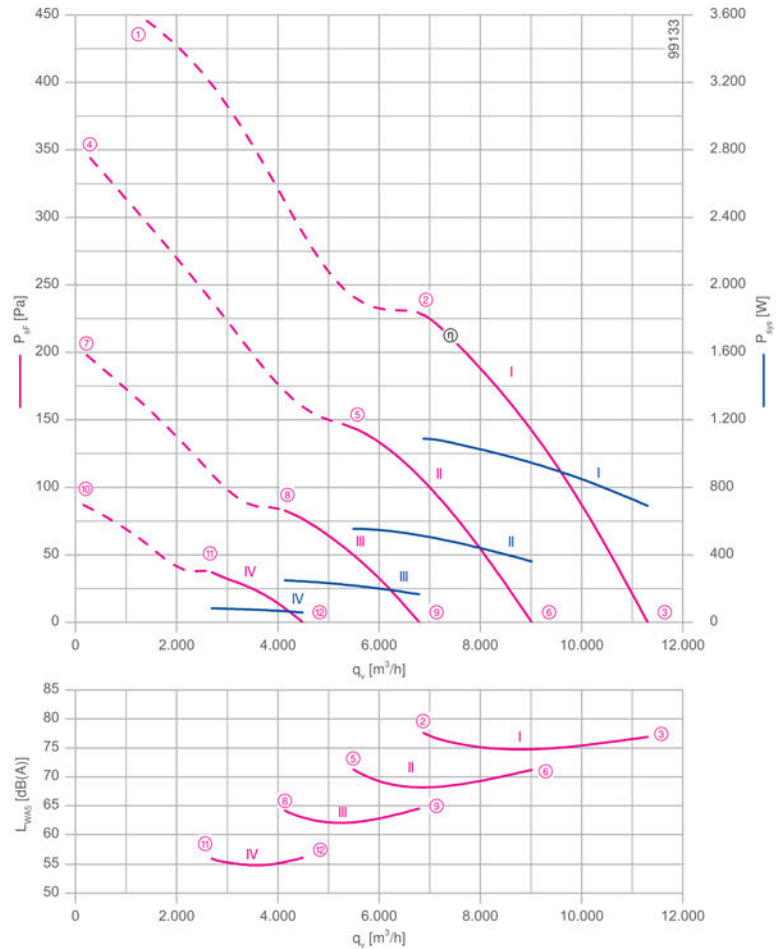
FN056



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 200-240 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 1.10 kW\*  
 Rated current  $I_N$ : 3.40- 2.80 A\*  
 Rated speed  $n_N$ : 1380 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 5  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 45.4 %  
 Efficiency:  $N_{actual} = 51.6 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

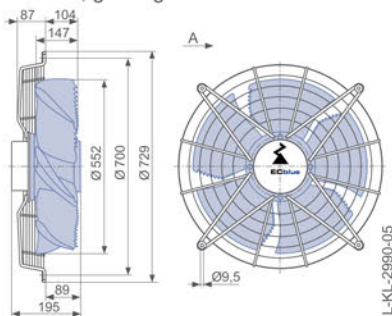
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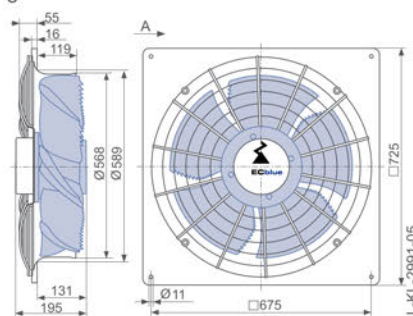
## Dimensions mm

Airflow direction A

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

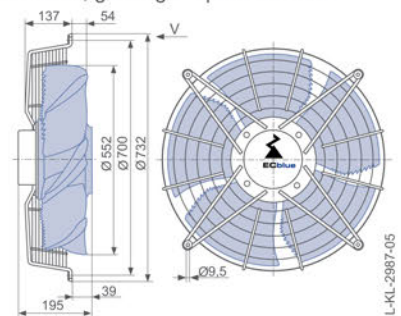


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

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





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		$n$ $\text{min}^{-1}$		$I$ A	$P_{\text{sys}}$ W	$L_{\text{WAS}}$ dB(A)	
FN056-ZI_DC_5P4	I	1380	①	3.90	1450		60
			②	2.90	1100	78	
			③	1.90	700	77	
	II	1100	④	2.40	900		70
			⑤	1.55	560	72	
			⑥	1.05	360	71	
	III	830	⑦	1.15	390		
			⑧	0.78	250	64	
			⑨	0.60	170	65	
	IV	550	⑩	0.50	120		
			⑪	0.38	85	56	
			⑫	0.31	60	56	

Current values determined at 230V

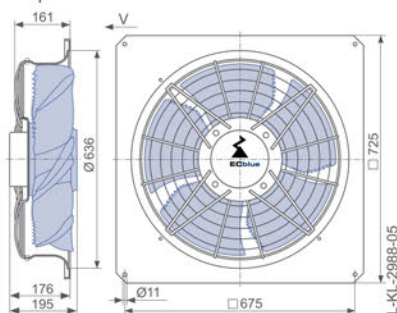
Fan ordering information

	Airflow direction A	Airflow direction V		
Design	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
				
Type	FN056-ZIW.DC.A5P4	FN056-ZIQ.DC.A5P4	FN056-ZIK.DC.V5P4	FN056-ZIQ.DC.V5P4
Article no.	162053	162051	162059	162061
Weight kg	13.60	21.00	14.10	20.40

Control technology

Control modules	Add-on modules	Operating terminal
		
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Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for three phase alternating current, 380-480 V

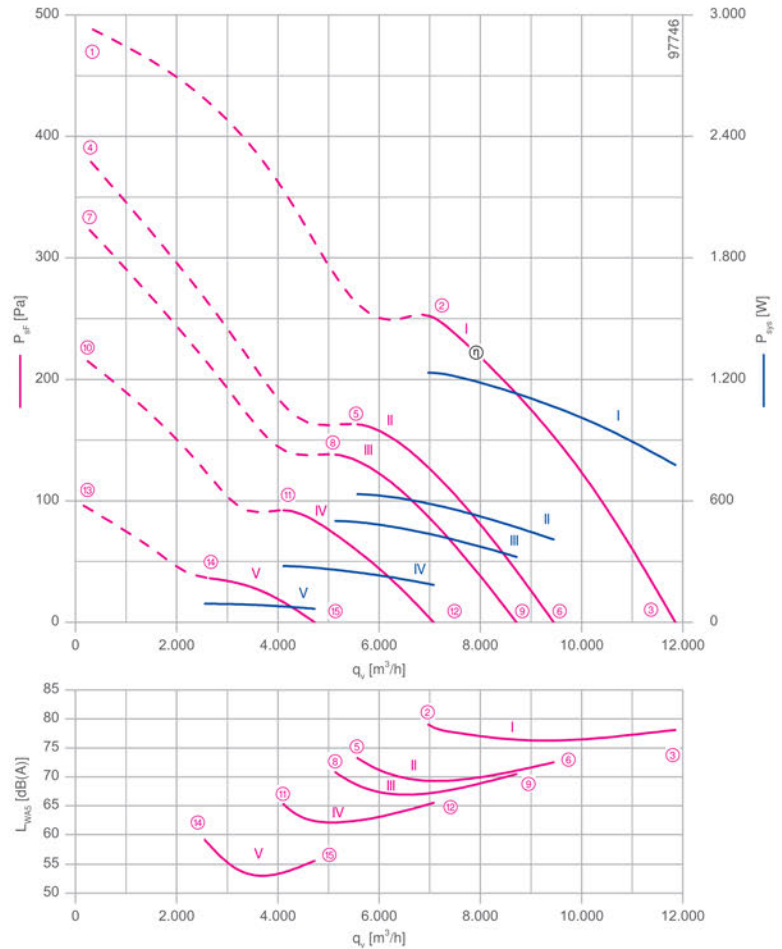
FN056



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 1.25 kW\*  
 Rated current  $I_N$ : 2.10- 1.65 A\*  
 Rated speed  $n_N$ : 1450 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 5  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 45.2 %  
 Efficiency:  $N_{actual} = 51.0 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

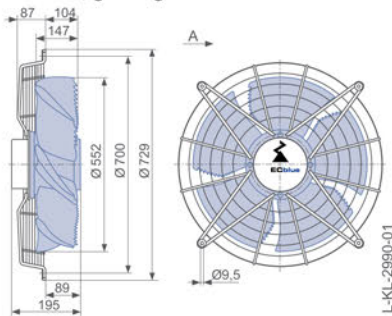
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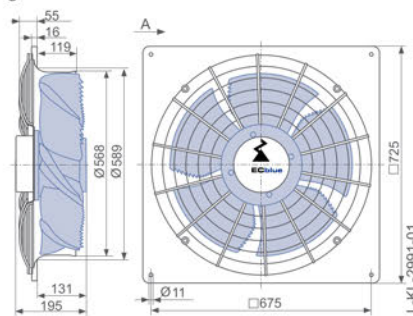
## Dimensions mm

Airflow direction A

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

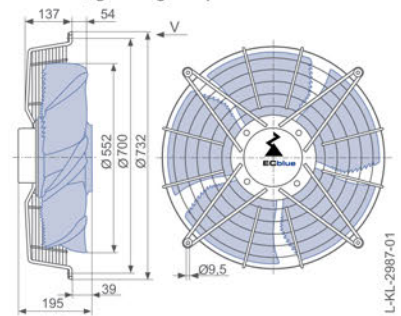


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

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



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		$n$ $\text{min}^{-1}$		$I$ A	$P_{\text{sys}}$ W	$L_{\text{WAS}}$ dB(A)	
FN056-ZI_DC_5P4	I	1450	①	2.40	1550		60
			②	1.95	1250	79	
			③	1.30	780	78	
	II	1160	④	1.65	1000		70
			⑤	1.10	640	73	
			⑥	0.80	400	73	
	III	1070	⑦	1.35	800		
			⑧	0.94	500	71	
			⑨	0.72	320	71	
	IV	870	⑩	0.84	440		
			⑪	0.64	280	65	
			⑫	0.50	180	66	
	V	580	⑬	0.40	140		
			⑭	0.32	95	55	
			⑮	0.26	65	56	

Current values determined at 400V

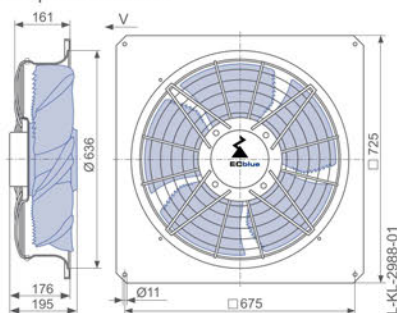
Fan ordering information

	Airflow direction A	Airflow direction V		
Design	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
				
Type	FN056-ZIW.DC.A5P4	FN056-ZIQ.DC.A5P4	FN056-ZIK.DC.V5P4	FN056-ZIQ.DC.V5P4
Article no.	162037	162035	162043	162045
Weight kg	13.60	21.00	14.10	20.40

Control technology

Control modules	Add-on modules	Operating terminal
		
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Design Q - square full bell mouth, guard grille pressure side







Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN063-6I...BD...7P2	I	660	①	1.40	320	
			②	0.98	220	67
			③	0.60	140	62
	II	530	④	0.70	160	
			⑤	0.52	120	60
			⑥	0.35	75	55
	III	400	⑦	0.34	70	
			⑧	0.27	55	52
			⑨	0.21	36	48
	IV	260	⑩	0.17	26	
			⑪	0.16	20	41
			⑫	0.15	15	38

Current values determined at 230V

Fan ordering information

Design	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
				
<b>Type</b>	<b>FN063-6IW.BD.A7P2</b>	<b>FN063-6IQ.BD.A7P2</b>	<b>FN063-6IK.BD.V7P2</b>	<b>FN063-6IQ.BD.V7P2</b>
<b>Article no.</b>	<b>162130</b>	<b>162129</b>	<b>162148</b>	<b>162149</b>
<b>Weight kg</b>	11.30	21.40	12.00	20.60

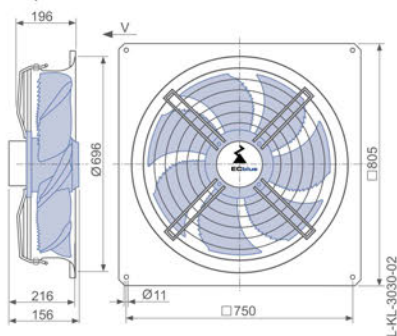
Control technology

Control modules



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Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for single phase alternating current, 200-277 V

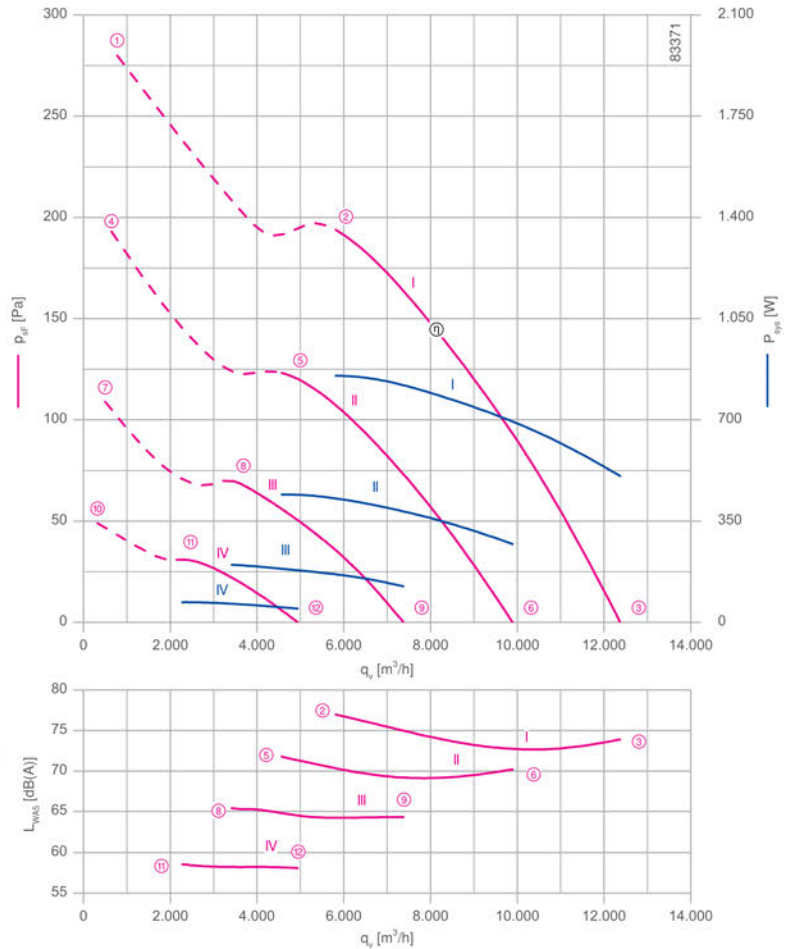
FN063



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 0.85 kW\*  
 Rated current  $I_N$ : 4.30- 3.10 A\*  
 Rated speed  $n_N$ : 1050 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 46.3 %  
 Efficiency:  $N_{actual} = 53.3 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

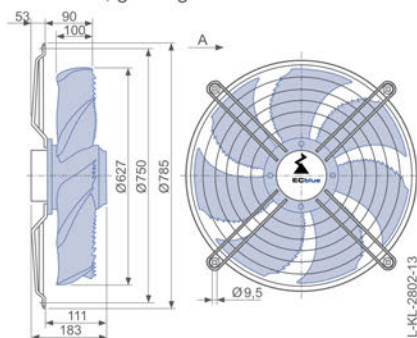
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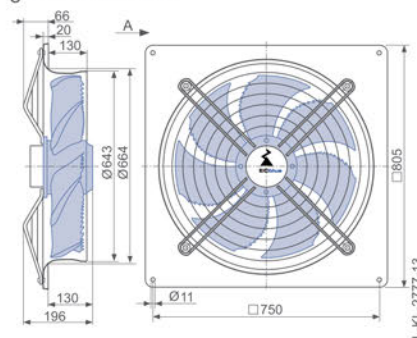
## Dimensions mm

Airflow direction A

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

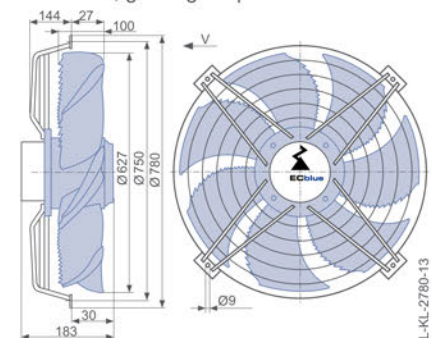


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

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













Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min <sup>-1</sup>		I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)
FN063-ZI_DG_7P2	I	1200	①	4.00	1500	
			②	3.30	1250	81
			③	1.95	740	77
	II	960	④	2.10	780	
			⑤	1.70	640	75
			⑥	1.05	390	73
	III	720	⑦	0.94	340	
			⑧	0.78	280	69
			⑨	0.54	170	67
	IV	480	⑩	0.40	110	
			⑪	0.37	90	61
			⑫	0.29	60	60

Current values determined at 230V

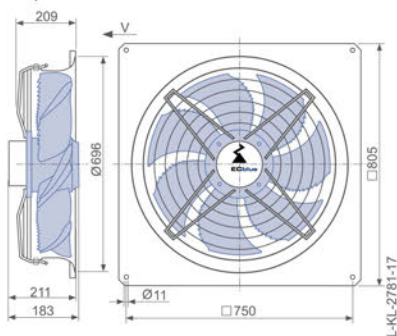
Fan ordering information

Design	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
				
<b>Type</b>	<b>FN063-ZIW.DG.A7P2</b>	<b>FN063-ZIQ.DG.A7P2</b>	<b>FN063-ZIK.DG.V7P2</b>	<b>FN063-ZIQ.DG.V7P2</b>
<b>Article no.</b>	<b>152774</b>	<b>152780</b>	<b>152798</b>	<b>152804</b>
<b>Weight kg</b>	15.40	25.60	17.30	25.30

Control technology

Control modules	Add-on modules	Operating terminal
		
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Design Q - square full bell mouth, guard grille pressure side





# FE2owlet-ECblue

for three phase alternating current, 200-240 V

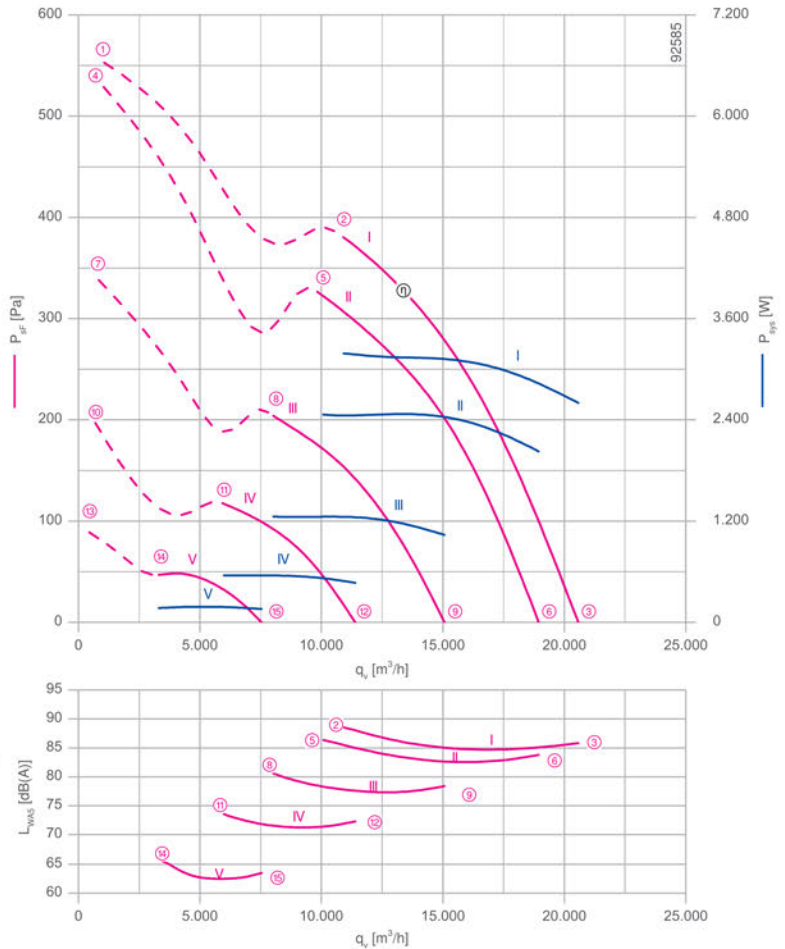
FN063



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 200-240 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 3.20 kW\*  
 Rated current  $I_N$ : 9.70- 8.10 A\*  
 Rated speed  $n_N$ : 1500 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 50 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 41.9 %  
 Efficiency:  $N_{actual} = 45.0 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

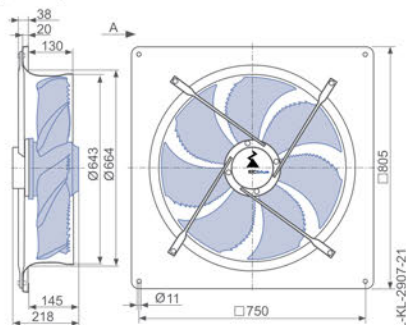
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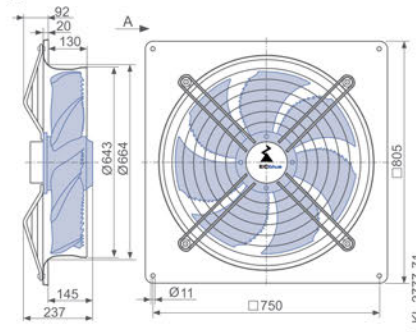
## Dimensions mm

Airflow direction A

Design Q - square full bell mouth, without guard grille

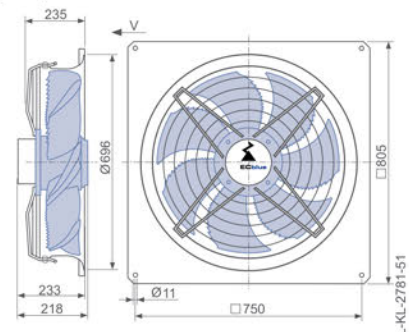


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design Q - square full bell mouth, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)	Maximum ambient temperature $t_R$ °C
		$n$ $min^{-1}$		I A	$P_{sys}$ W		
FN063-ZI_GG_7P3	I	1500	①	8.40	3200		50
			②	8.40	3200	89	
			③	6.80	2600	86	
	II	1380	④	8.00	3100		60
			⑤	6.60	2500	86	
			⑥	5.40	2000	84	
	III	1100	⑦	4.00	1550		
			⑧	3.30	1250	81	
			⑨	2.80	1050	78	
	IV	830	⑩	1.85	700		
			⑪	1.50	560	74	
			⑫	1.30	460	72	
	V	550	⑬	0.70	230		
			⑭	0.60	180	63	
			⑮	0.54	160	64	

Current values determined at 230V

Fan ordering information

	Airflow direction A	Airflow direction V
Design	Q (without guard grille)	Q (guard grille suction side)    Q (guard grille pressure side)
		 
Type	FN063-ZIQ.GG.A7P3	FN063-ZIQ.GG.A7P3    FN063-ZIQ.GG.V7P3
Article no.	159529	159824    159523
Weight kg	37.70	40.00    40.40

Control technology

Control modules	Add-on modules	Operating terminal
		
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# FE2owlet-ECblue

for three phase alternating current, 200-240 V

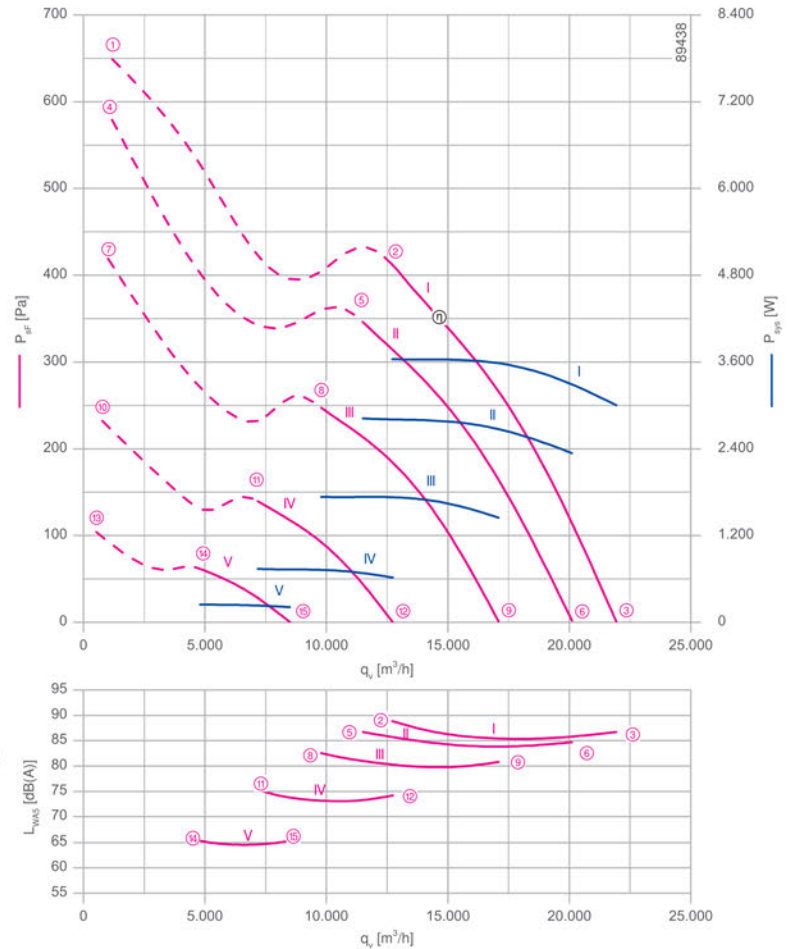
FN063



## Description

Motor technology: EC  
 Rated voltage U: 3~ 200-240 V\*  
 Rated frequency f: 50/60 Hz\*  
 Motor input power  $P_{sys}$ : 3.70 kW\*  
 Rated current I: 11.20- 9.40 A\*  
 Rated speed  $n_{max}$ : 1600 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 55 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, Ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP Data**  
 Efficiency  $\eta_{statA}$ : 43.3 %  
 Efficiency:  $N_{actual} = 46.1 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

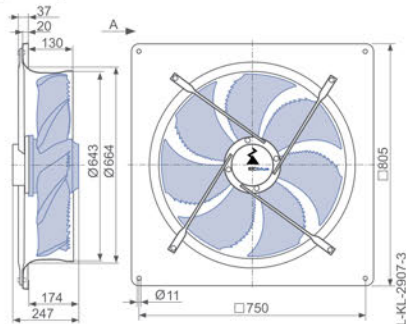
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## Dimensions mm

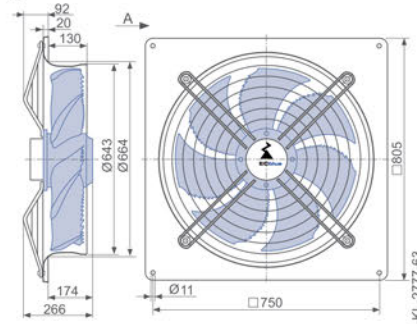
Airflow direction V

Design Q - square full bell mouth, without guard grille

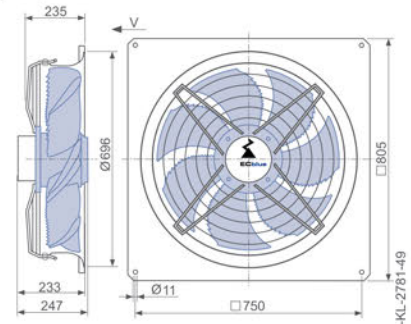


Airflow direction A

Design Q - square full bell mouth, guard grille suction side



Design Q - square full bell mouth, guard grille pressure side





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min <sup>-1</sup>		I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)	
FN063-ZI_GL_7P3	I	1600	①	11.00	4200		55
			②	9.80	3600	89	
			③	8.00	3000	87	
	II	1470	④	9.40	3500		60
			⑤	7.60	2800	87	
			⑥	6.20	2300	85	
	III	1250	⑦	5.80	2200		
			⑧	4.60	1750	83	
			⑨	3.90	1450	81	
	IV	930	⑩	2.50	920		
			⑪	2.00	740	75	
			⑫	1.70	620	74	
	V	620	⑬	0.86	300		
			⑭	0.74	240	65	
			⑮	0.66	210	65	

Current values determined at 230V

Fan ordering information

Design	Airflow direction A			Airflow direction V		
	Q (without guard grille)	Q (guard grille suction side)	Q (guard grille pressure side)	Q (without guard grille)	Q (guard grille suction side)	Q (guard grille pressure side)
						
<b>Type</b>	FN063-ZIQ.GL.A7P3	FN063-ZIQ.GL.A7P3	FN063-ZIQ.GL.V7P3			
<b>Article no.</b>	155687	155689	154897			
<b>Weight kg</b>	41.90	44.20	44.60			

Control technology

Control modules	Add-on modules	Operating terminal
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# FE2owlet-ECblue

for three phase alternating current, 380-480 V

FN063

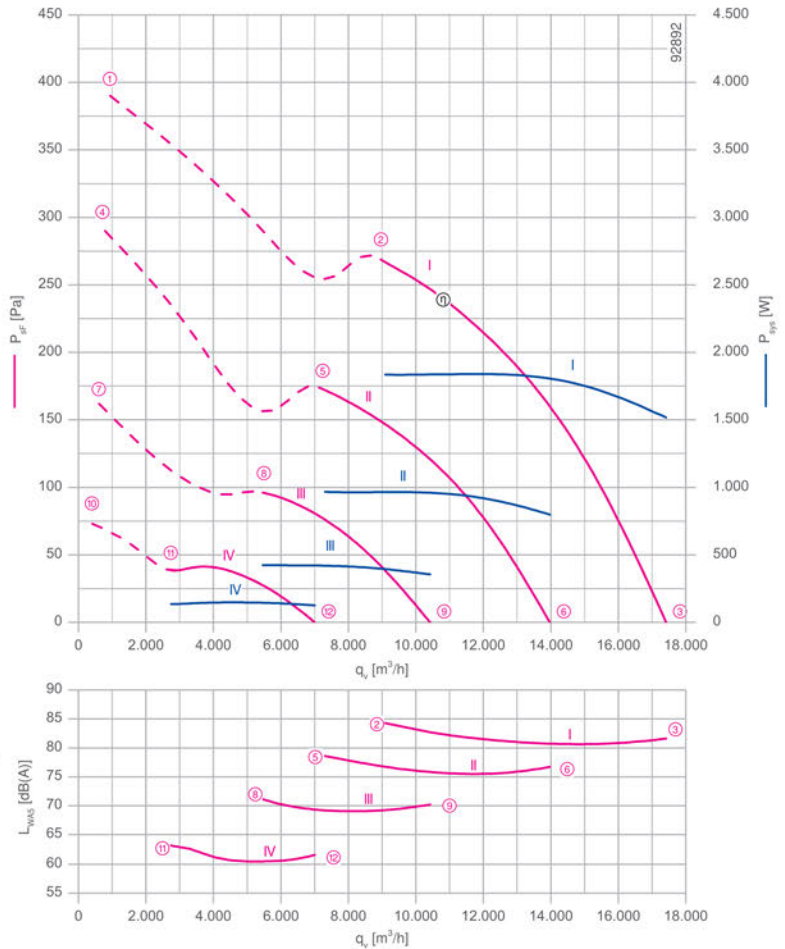


## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 1.85 kW\*  
 Rated current  $I_N$ : 3.10- 2.50 A\*  
 Rated speed  $n_N$ : 1270 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 65 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL

**ErP-data**  
 Efficiency  $\eta_{statA}$ : 43.0 %  
 Efficiency:  $N_{actual} = 47.6 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

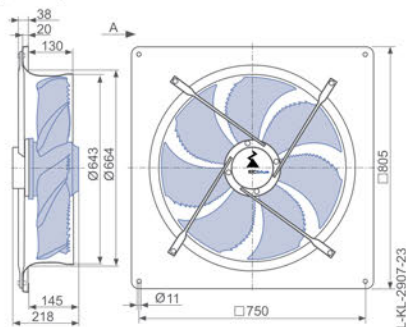
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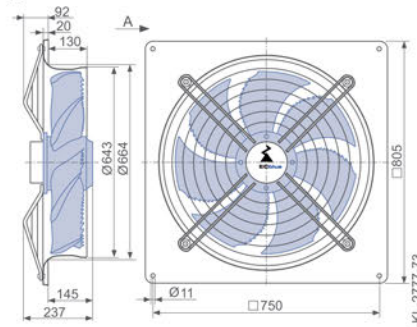
## Dimensions mm

Airflow direction A

Design Q - square full bell mouth, without guard grille

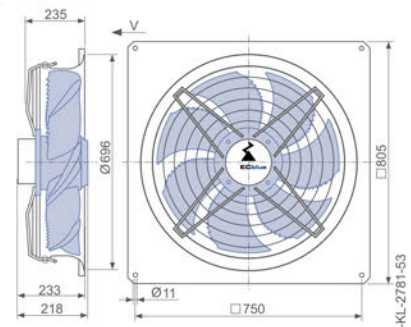


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design Q - square full bell mouth, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN063-ZL_GG_7P3	I	1270	①	3.00	1900	
			②	3.00	1850	84
			③	2.50	1500	82
	II	1020	④	2.00	1200	
			⑤	1.70	960	79
			⑥	1.45	800	77
	III	760	⑦	1.00	520	
			⑧	0.84	420	71
			⑨	0.72	360	70
	IV	510	⑩	0.42	180	
			⑪	0.36	150	61
			⑫	0.32	130	62

Current values determined at 400V

Fan ordering information

Design	Airflow direction A		Airflow direction V	
	Q (without guard grille)	Q (guard grille suction side)	Q (guard grille pressure side)	
<b>Type</b>	<b>FN063-ZIQ.GG.A7P3</b>	<b>FN063-ZIQ.GG.A7P3</b>	<b>FN063-ZIQ.GG.V7P3</b>	
<b>Article no.</b>	<b>154982</b>	<b>154986</b>	<b>154970</b>	
<b>Weight kg</b>	37.70	40.00	40.40	

Control technology

Control modules	Add-on modules	Operating terminal
Page 452	Page 463	Page 472

# FE2owlet-ECblue

for three phase alternating current, 380-480 V

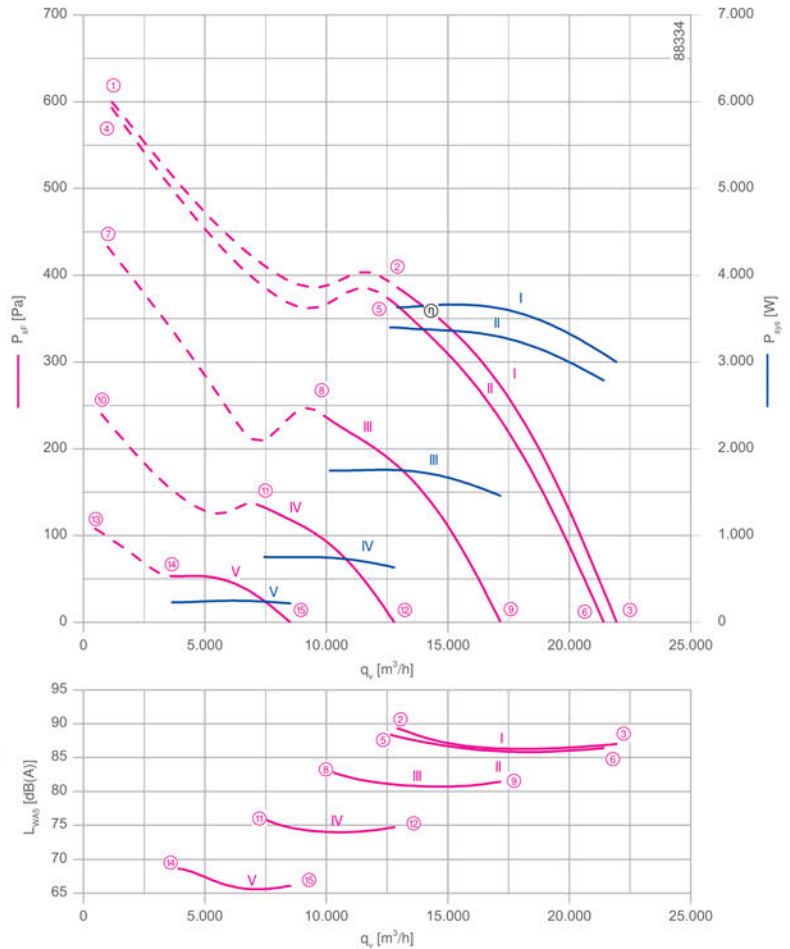
FN063



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 3.70 kW\*  
 Rated current  $I_N$ : 5.90- 4.70 A\*  
 Rated speed  $n_N$ : 1600 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 55 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 41.7 %  
 Efficiency:  $N_{actual} = 44.5 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

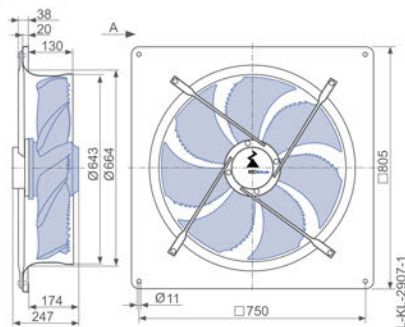
Connection diagram Page 530  
1360-403

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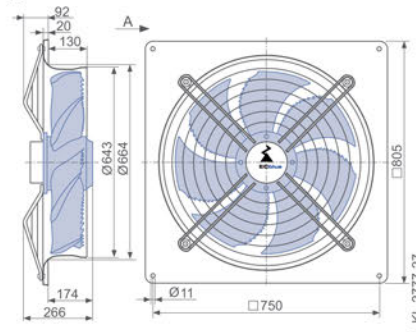
## Dimensions mm

Airflow direction A

Design Q - square full bell mouth, without guard grille

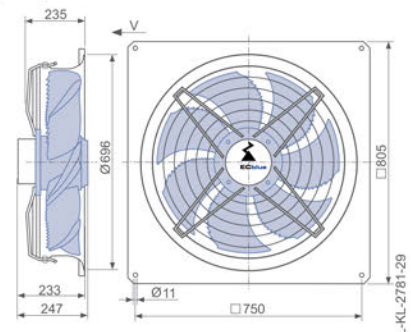


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design Q - square full bell mouth, guard grille pressure side





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min <sup>-1</sup>		I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)	
FN063-ZI_GL_7P3	I	1600	①	5.40	3500		55
			②	5.60	3600	91	
			③	4.60	3000	87	
	II	1560	④	5.40	3500		60
			⑤	5.20	3400	90	
			⑥	4.20	2800	86	
	III	1250	⑦	3.40	2200		
			⑧	2.70	1750	85	
			⑨	2.30	1450	81	
	IV	930	⑩	1.50	920		
			⑪	1.25	740	77	
			⑫	1.10	640	75	
	V	620	⑬	0.68	310		
			⑭	0.60	250	67	
			⑮	0.54	220	66	

Current values determined at 400V

Fan ordering information

Design	Airflow direction		
	A	V	V
	Q (without guard grille)	Q (guard grille suction side)	Q (guard grille pressure side)
			
<b>Type</b>	FN063-ZIQ.GL.A7P3	FN063-ZIQ.GL.A7P3	FN063-ZIQ.GL.V7P3
<b>Article no.</b>	154984	154988	154972
<b>Weight kg</b>	41.90	44.20	44.60

Control technology

Control modules	Add-on modules	Operating terminal
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# FE2owlet-ECblue

for single phase alternating current, 200-277 V

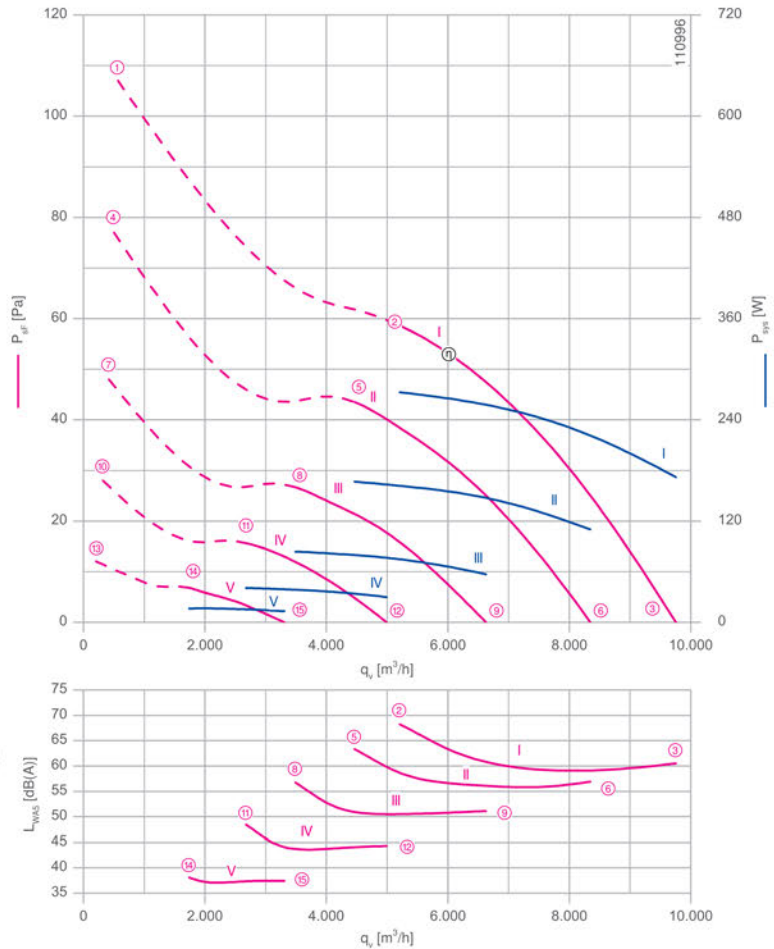
FNO71



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 280 W\*  
 Rated current  $I_N$ : 1.40- 1.00 A\*  
 Rated speed  $n_N$ : 620 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 50 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 38.7 %  
 Efficiency:  $N_{actual} = 48.7 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

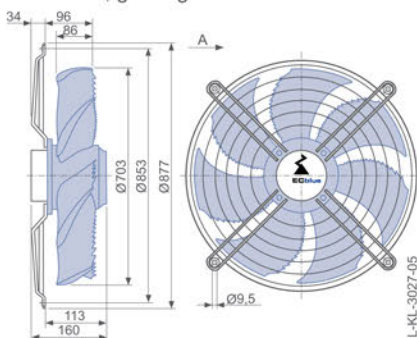
Connection diagram Page 529  
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System components Page 430

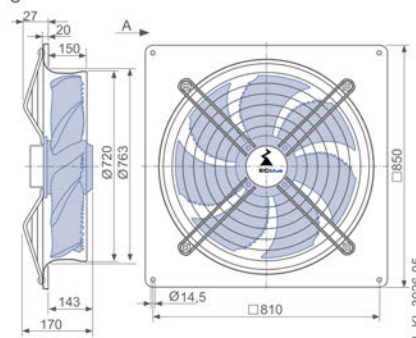
## Dimensions mm

Airflow direction A

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

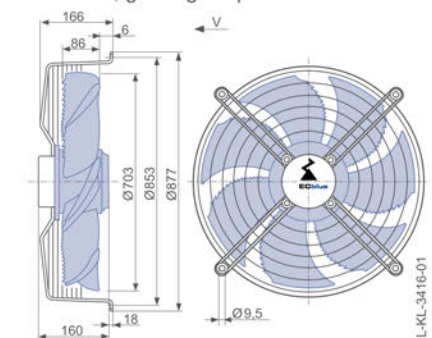


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

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



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		$n$ $\text{min}^{-1}$		$I$ A	$P_{\text{sys}}$ W	$L_{\text{WAS}}$ dB(A)	
FN071-6I_BD_7P3	I	620	①	1.80	420		50
			②	1.20	270	69	
			③	0.76	170	61	
	II	530	④	1.05	240		60
			⑤	0.74	170	64	
			⑥	0.50	110	57	
	III	420	⑦	0.52	110		
			⑧	0.39	85	57	
			⑨	0.28	55	51	
	IV	320	⑩	0.27	55		
			⑪	0.23	40	49	
			⑫	0.19	30	44	
	V	210	⑬	0.16	20		
			⑭	0.15	16	38	
			⑮	0.14	13	37	

Current values determined at 230V

Fan ordering information

Design	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
				
<b>Type</b>	<b>FN071-6IW.BD.A7P3</b>	<b>FN071-6IQ.BD.A7P3</b>	<b>FN071-6IK.BD.V7P3</b>	<b>FN071-6IQ.BD.V7P3</b>
<b>Article no.</b>	<b>165275</b>	<b>168076</b>	<b>165278</b>	<b>165279</b>
<b>Weight kg</b>	10.30	21.70	11.80	20.90

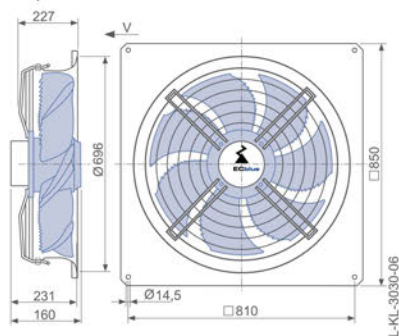
Control technology

Control modules



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Design Q - square full bell mouth, guard grille pressure side





# FE2owlet-ECblue

for single phase alternating current, 200-277 V

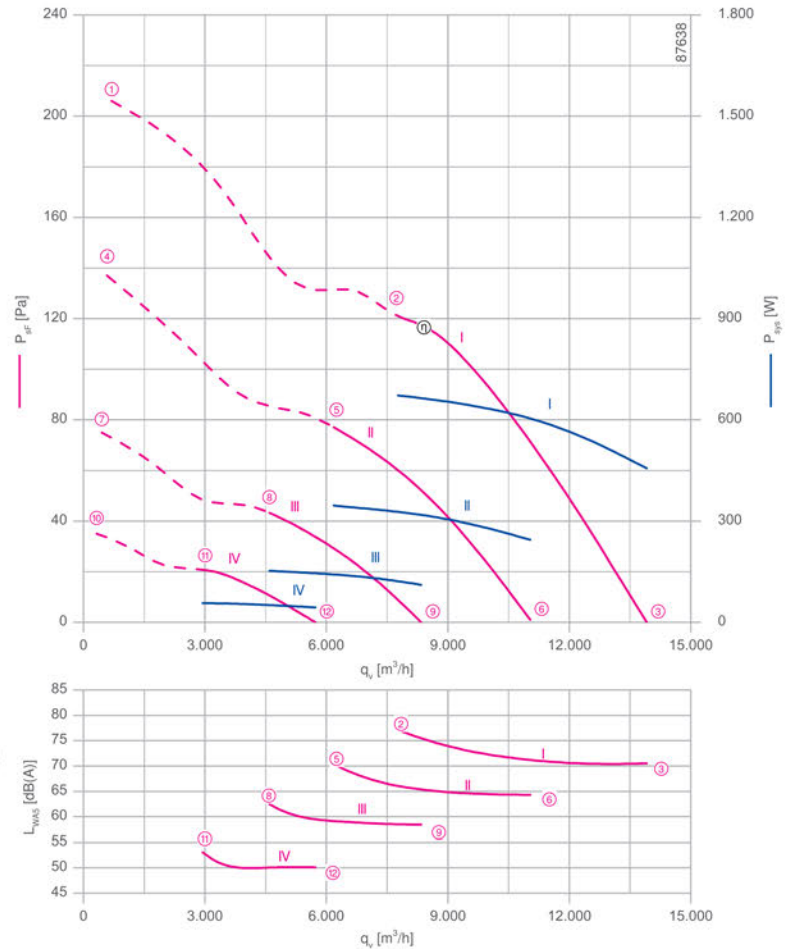
FNO71



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 0.66 kW\*  
 Rated current  $I_N$ : 3.40- 2.40 A\*  
 Rated speed  $n_N$ : 890 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 46.5 %  
 Efficiency:  $N_{actual} = 53.9 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

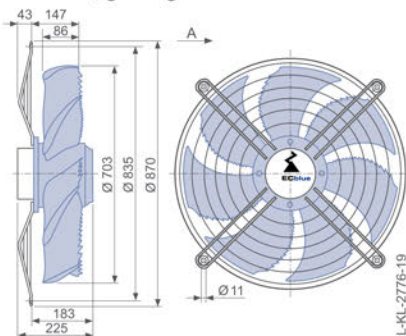
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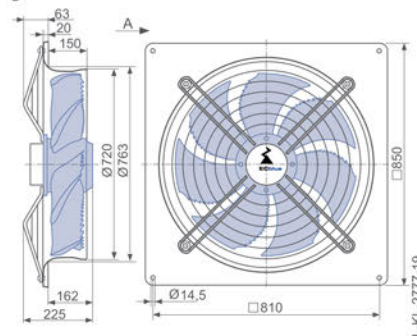
## Dimensions mm

Airflow direction A

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

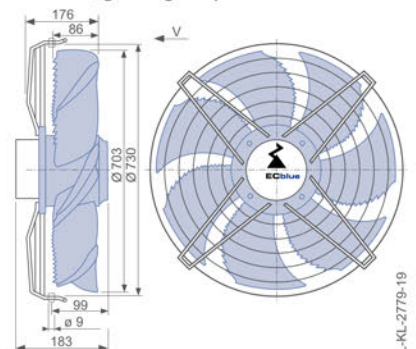


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design S - radially bolted, mounted for short bell mouth, guard grille pressure side


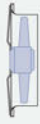




Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN071-ZL_DG_7P3	I	890	①	3.90	880	
			②	3.10	680	78
			③	2.10	460	71
	II	710	④	2.20	480	
			⑤	1.65	350	71
			⑥	1.20	240	64
	III	530	⑦	0.98	200	
			⑧	0.74	150	63
			⑨	0.56	110	58
	IV	360	⑩	0.40	75	
			⑪	0.48	55	52
			⑫	0.44	44	50

Current values determined at 230V

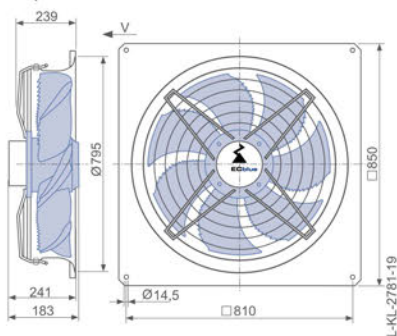
Fan ordering information

Design	Airflow direction A		Airflow direction V	
	D (guard grille suction side)	Q (guard grille suction side)	S (guard grille pressure side)	Q (guard grille pressure side)
				
<b>Type</b>	<b>FN071-ZID.DG.A7P3</b>	<b>FN071-ZIQ.DG.A7P3</b>	<b>FN071-ZIS.DG.V7P3</b>	<b>FN071-ZIQ.DG.V7P3</b>
<b>Article no.</b>	<b>154321</b>	<b>154333</b>	<b>154345</b>	<b>154357</b>
<b>Weight kg</b>	15.20	26.10	15.30	26.20

Control technology

Control modules	Add-on modules	Operating terminal
		
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Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for three phase alternating current, 200-240 V

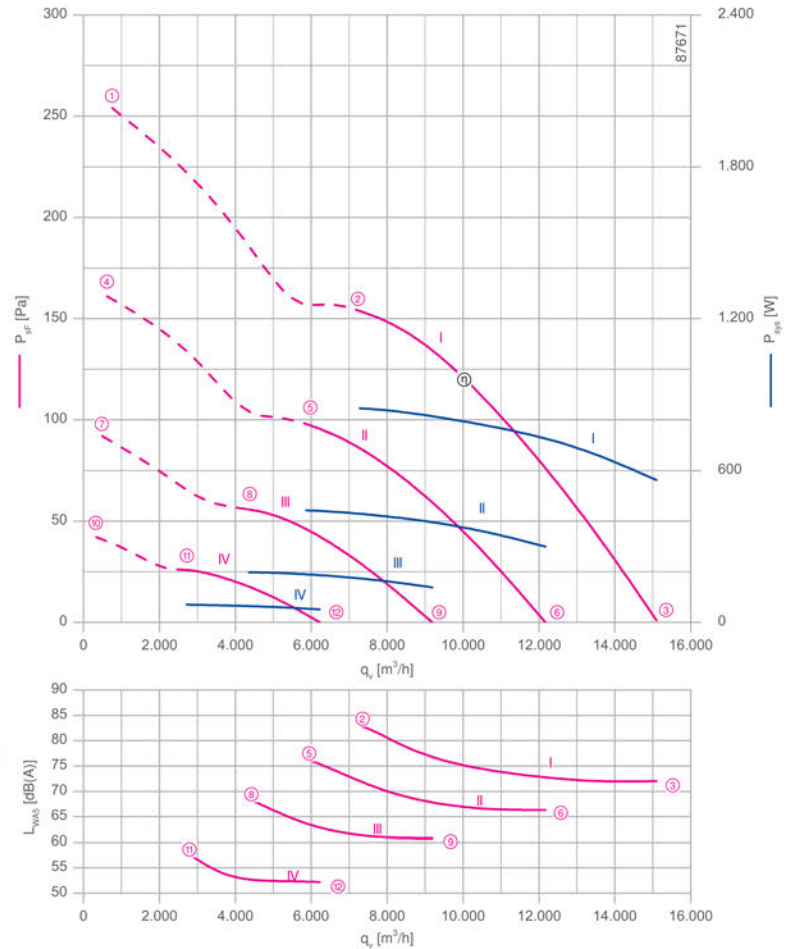
FNO71



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 200-240 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 0.81 kW\*  
 Rated current  $I_N$ : 2.50- 2.10 A\*  
 Rated speed  $n_N$ : 960 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 48.3 %  
 Efficiency:  $N_{actual} = 55.3 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

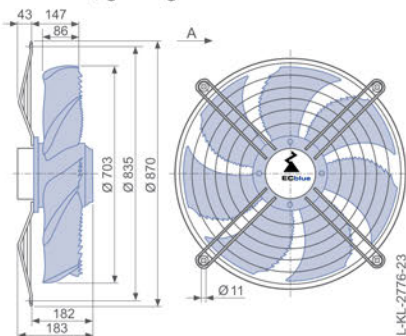
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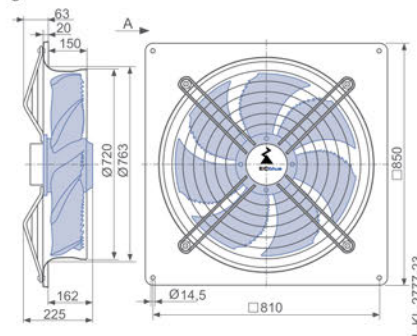
## Dimensions mm

Airflow direction A

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

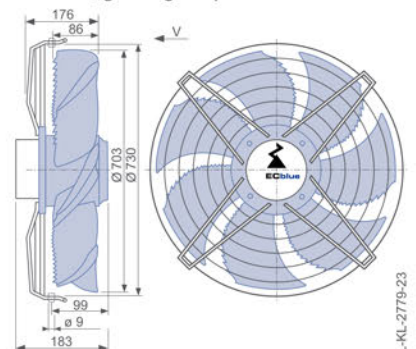


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design S - radially bolted, mounted for short bell mouth, guard grille pressure side





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN071-ZL_DG_7P3	I	960	①	3.10	1150	
			②	2.20	840	83
			③	1.50	560	72
	II	770	④	1.55	580	
			⑤	1.20	440	77
			⑥	0.84	300	66
	III	580	⑦	0.76	260	
			⑧	0.60	200	69
			⑨	0.46	140	61
	IV	390	⑩	0.36	90	
			⑪	0.30	70	57
			⑫	0.23	50	52

Current values determined at 230V

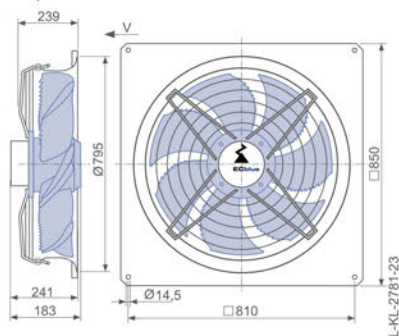
Fan ordering information

Design	Airflow direction A		Airflow direction V	
	D (guard grille suction side)	Q (guard grille suction side)	S (guard grille pressure side)	Q (guard grille pressure side)
<b>Type</b>	<b>FN071-ZID.DG.A7P3</b>	<b>FN071-ZIQ.DG.A7P3</b>	<b>FN071-ZIS.DG.V7P3</b>	<b>FN071-ZIQ.DG.V7P3</b>
<b>Article no.</b>	<b>154319</b>	<b>154331</b>	<b>154343</b>	<b>154355</b>
<b>Weight kg</b>	15.20	26.10	15.30	26.20

Control technology

Control modules	Add-on modules	Operating terminal
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Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for three phase alternating current, 200-240 V

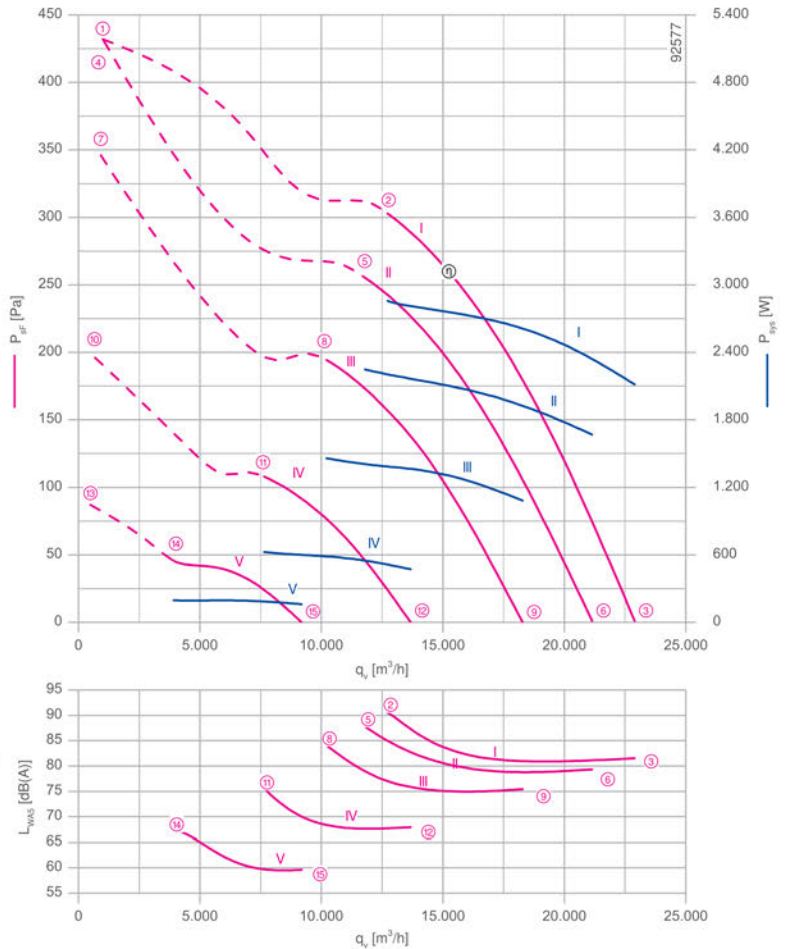
FNO71



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3~ 200-240 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 2.90 kW\*  
 Rated current  $I_N$ : 8.60- 7.20 A\*  
 Rated speed  $n_N$ : 1300 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 50 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 43.5 %  
 Efficiency:  $N_{actual} = 47.1 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



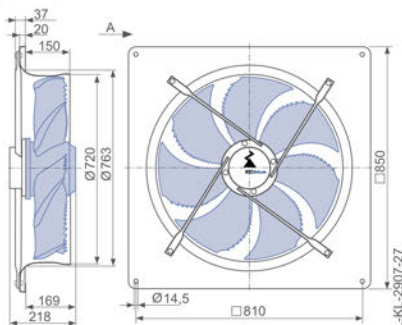
Measured in full bell mouth without guard grille in installation type A according to ISO 5801

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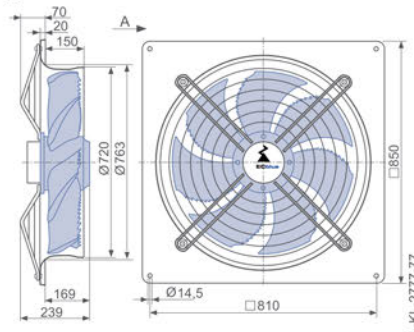
System components Page 430

### Airflow direction A

Design Q - square full bell mouth, without guard grille

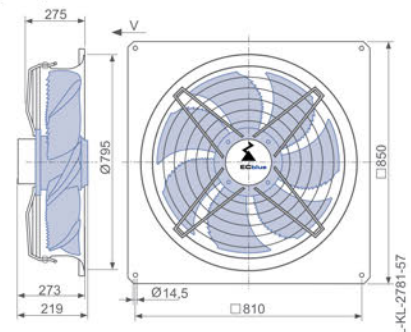


Design Q - square full bell mouth, guard grille suction side



### Airflow direction V

Design Q - square full bell mouth, guard grille pressure side



### Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)	Maximum ambient temperature $t_R$ °C
		$n$ $min^{-1}$		I A	$P_{sys}$ W		
FN071-ZI_GG_7P4	I	1300	①	7.60	2900		50
			②	7.60	2900	91	
			③	5.60	2100	82	
	II	1200	④	7.60	2900		60
			⑤	6.00	2300	88	
			⑥	4.40	1650	79	
	III	1040	⑦	5.40	2000		
			⑧	3.90	1450	84	
			⑨	2.90	1100	75	
	IV	780	⑩	2.30	880		
			⑪	1.70	620	76	
			⑫	1.30	480	68	
	V	520	⑬	0.82	280		
			⑭	0.64	200	65	
			⑮	0.56	160	60	

Current values determined at 230V

### Fan ordering information

	Airflow direction A	Airflow direction V
Design	Q (without guard grille)	Q (guard grille suction side)    Q (guard grille pressure side)
		 
Type	FN071-ZIQ.GG.A7P4	FN071-ZIQ.GG.A7P4    FN071-ZIQ.GG.V7P4
Article no.	159838	159840    159832
Weight kg	37.50	41.00    41.00

### Control technology

Control modules	Add-on modules	Operating terminal
		
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# FE2owlet-ECblue

for three phase alternating current, 200-240 V

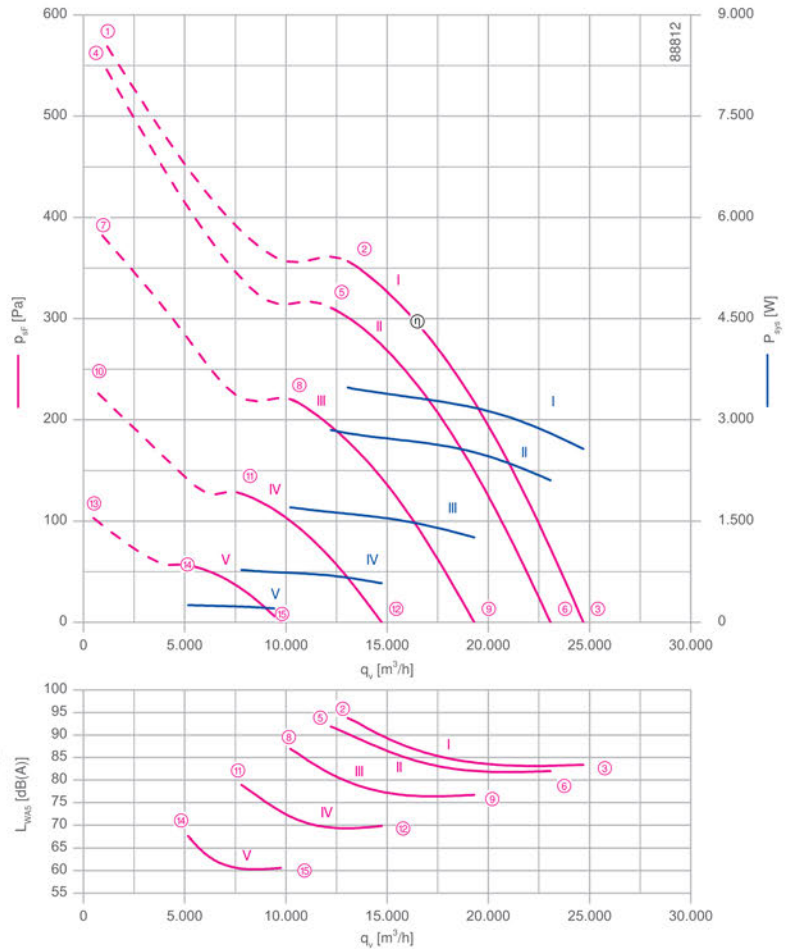
FNO71



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 200-240 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 3.50 kW\*  
 Rated current  $I_N$ : 10.60- 8.80 A\*  
 Rated speed  $n_N$ : 1400 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 55 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 44.4 %  
 Efficiency:  $N_{actual} = 47.5 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

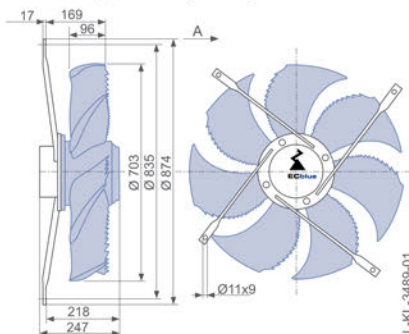
Connection diagram Page 530  
1360-403

System components Page 430

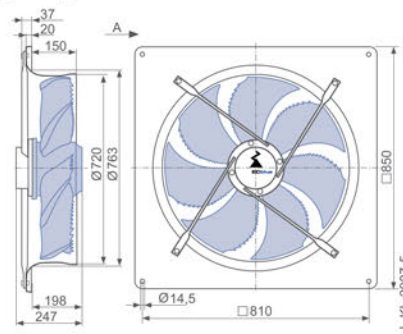
## Dimensions mm

### Airflow direction A

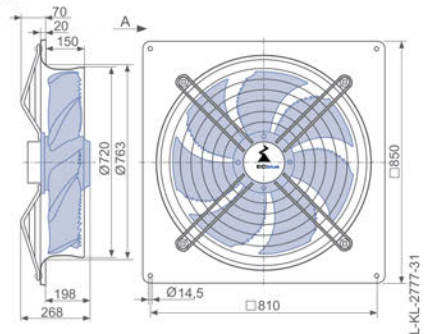
Design D - axial bolted, suspension for full bell mouth, without guard grille



Design Q - square full bell mouth, without guard grille



Design Q - square full bell mouth, guard grille suction side

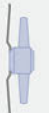

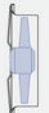





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)	Maximum ambient temperature $t_R$ °C
		$n$ $min^{-1}$		I A	$P_{sys}$ W		
FN071-ZL_GL_7P4	I	1400	①	11.00	4200		55
			②	9.20	3500	94	
			③	6.80	2600	83	
	II	1310	④	10.50	4000		60
			⑤	7.60	2900	92	
			⑥	5.60	2100	82	
	III	1100	⑦	6.20	2300		
			⑧	4.40	1700	87	
			⑨	3.30	1250	77	
	IV	840	⑩	2.80	1050		
			⑪	2.10	780	79	
			⑫	1.55	580	70	
	V	560	⑬	0.98	340		
			⑭	0.76	250	68	
			⑮	0.64	200	61	

Current values determined at 230V

Fan ordering information

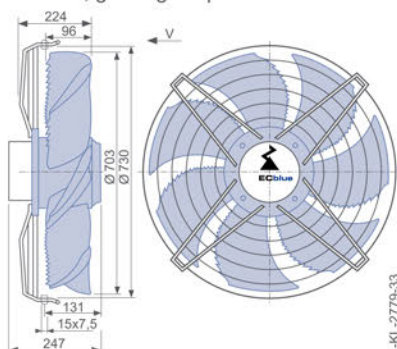
Design	Airflow direction A			Airflow direction V		
	D (without guard grille)	Q (without guard grille)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
						
Type Article no.	FN071-ZID.GL.A7P4 155701	FN071-ZIQ.GL.A7P4 155703	FN071-ZIQ.GL.A7P4 155705	FN071-ZIS.GL.V7P4 155693	FN071-ZII.GL.V7P4 155695	FN071-ZIQ.GL.V7P4 155697
Weight kg	30.70	41.70	45.20	34.30	34.00	45.10

Control technology

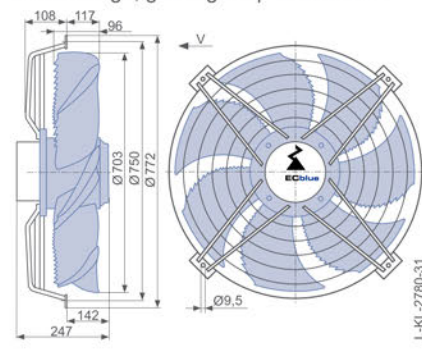
Control modules	Add-on modules	Operating terminal
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Airflow direction V

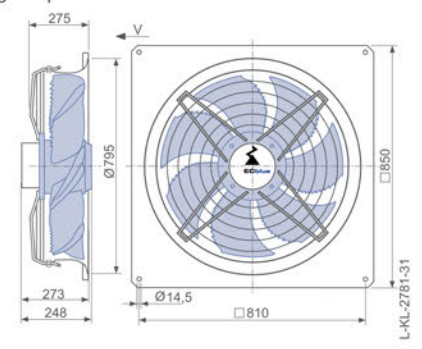
Design S - radially bolted, mounted for short bell mouth, guard grille pressure side



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



Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for three phase alternating current, 380-480 V

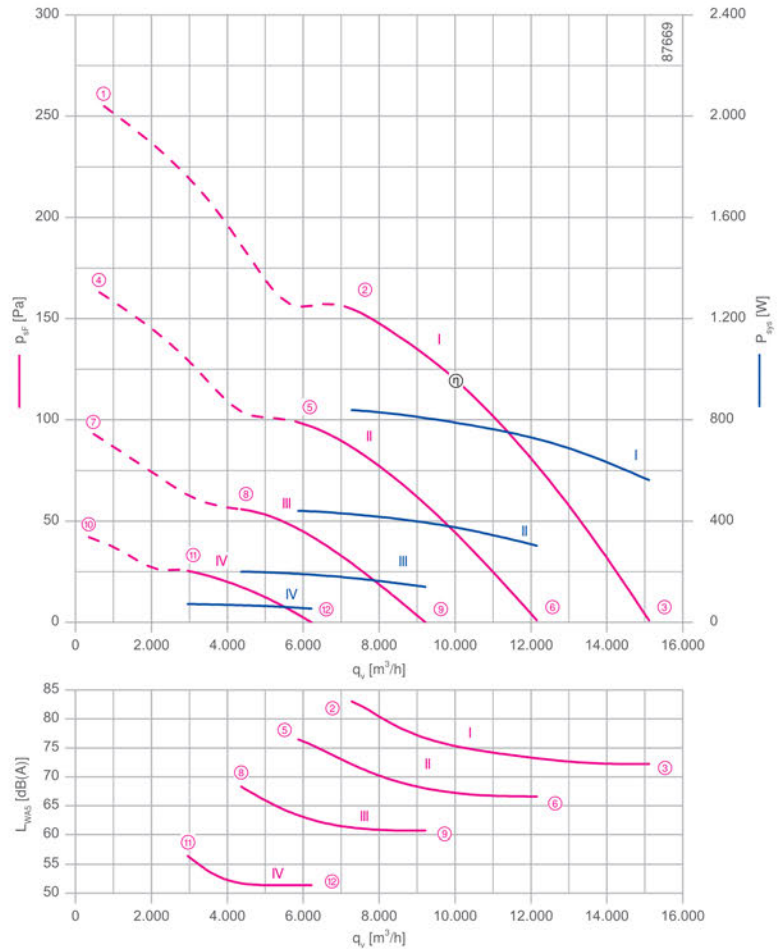
FNO71



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 0.81 kW\*  
 Rated current  $I_N$ : 1.40- 1.10 A\*  
 Rated speed  $n_N$ : 960 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 48.2 %  
 Efficiency:  $N_{actual} = 55.1 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

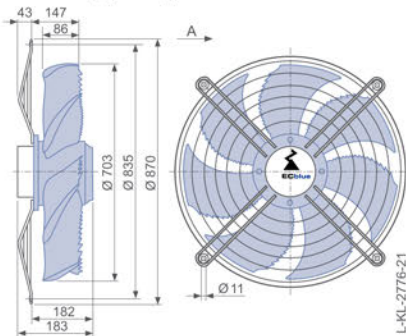
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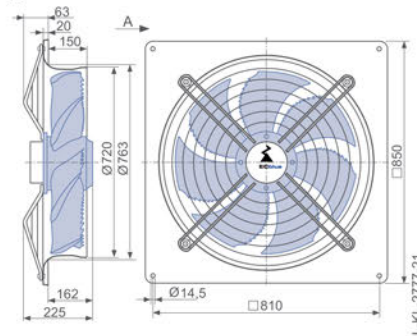
## Dimensions mm

Airflow direction A

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

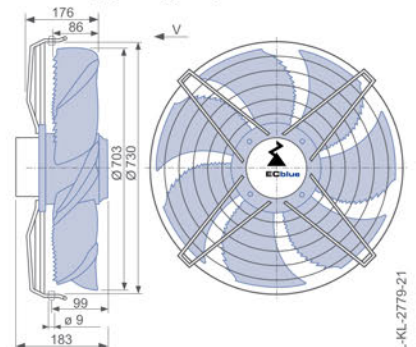


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design S - radially bolted, mounted for short bell mouth, guard grille pressure side








Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min <sup>-1</sup>		I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)
FN071-ZL_DG_7P3	I	960	①	1.80	1150	
			②	1.35	840	83
			③	0.98	560	72
	II	770	④	1.00	600	
			⑤	0.82	440	77
			⑥	0.64	300	67
	III	580	⑦	0.58	260	
			⑧	0.48	200	68
			⑨	0.37	140	61
	IV	390	⑩	0.30	90	
			⑪	0.26	70	57
			⑫	0.23	55	51

Current values determined at 400V

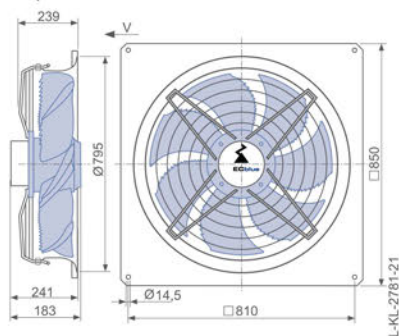
Fan ordering information

Design	D (guard grille suction side)	Q (guard grille suction side)	S (guard grille pressure side)	Q (guard grille pressure side)
				
<b>Type</b>	<b>FN071-ZID.DG.A7P3</b>	<b>FN071-ZIQ.DG.A7P3</b>	<b>FN071-ZIS.DG.V7P3</b>	<b>FN071-ZIQ.DG.V7P3</b>
<b>Article no.</b>	<b>154317</b>	<b>154329</b>	<b>154341</b>	<b>154353</b>
<b>Weight kg</b>	15.20	26.10	15.30	26.20

Control technology

Control modules	Add-on modules	Operating terminal
		
Page 452	Page 463	Page 472

Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for three phase alternating current, 380-480 V

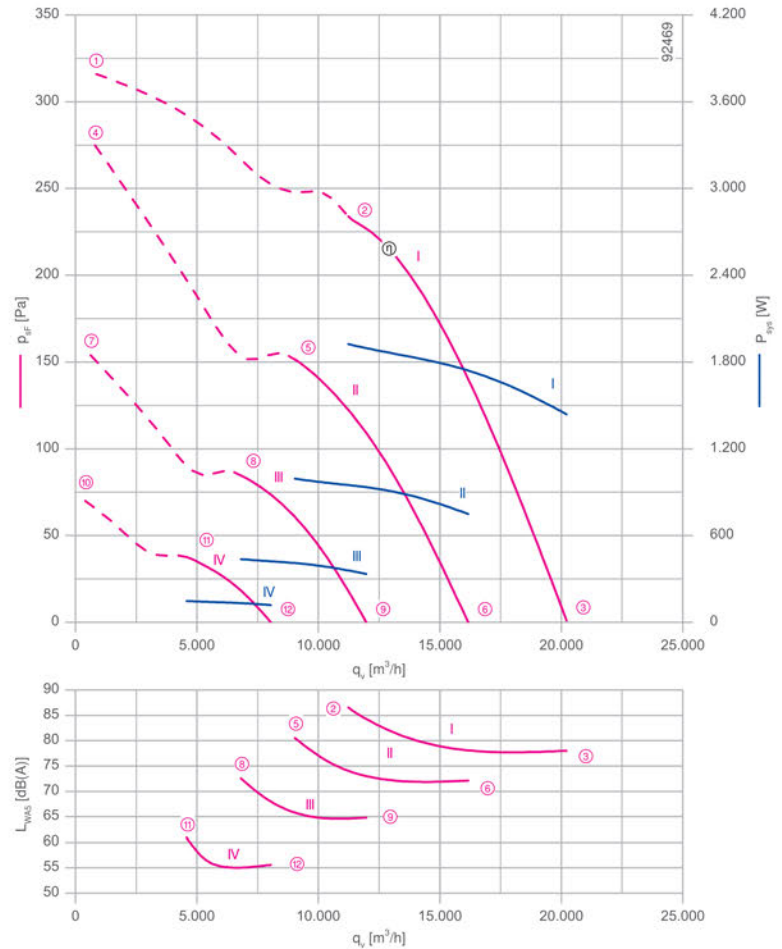
FNO71



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 1.95 kW\*  
 Rated current  $I_N$ : 3.20- 2.50 A\*  
 Rated speed  $n_N$ : 1150 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 65 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 44.8 %  
 Efficiency:  $N_{actual} = 49.5 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

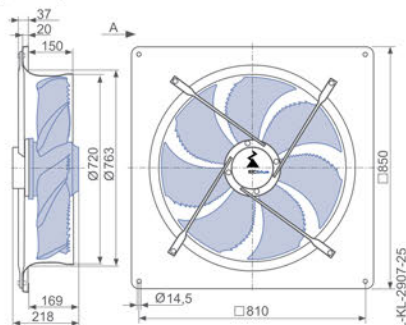
Connection diagram Page 530  
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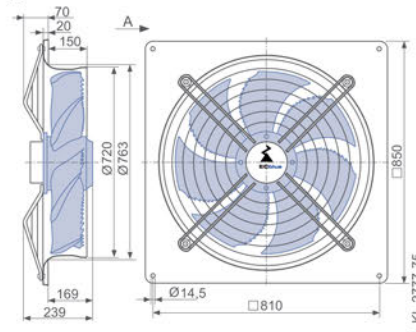
## Dimensions mm

Airflow direction A

Design Q - square full bell mouth, without guard grille

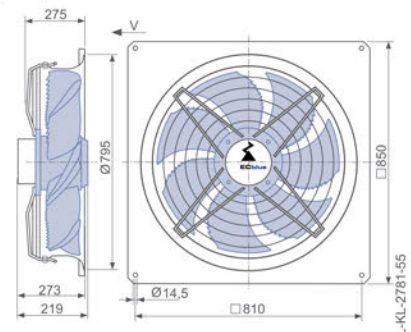


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design Q - square full bell mouth, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN071-ZL_GG_7P4	I	1150	①	2.80	1750	
			②	3.10	1950	87
			③	2.30	1450	78
	II	920	④	2.30	1400	
			⑤	1.70	1000	81
			⑥	1.30	740	72
	III	690	⑦	1.10	600	
			⑧	0.88	440	73
			⑨	0.70	330	65
	IV	460	⑩	0.48	200	
			⑪	0.39	150	61
			⑫	0.34	120	56

Current values determined at 400V

Fan ordering information

Design	Airflow direction A → Airflow direction V		
	Q (without guard grille)	Q (guard grille suction side)	Q (guard grille pressure side)
<b>Type</b>	<b>FN071-ZIQ.GG.A7P4</b>	<b>FN071-ZIQ.GG.A7P4</b>	<b>FN071-ZIQ.GG.V7P4</b>
<b>Article no.</b>	<b>154920</b>	<b>154924</b>	<b>154908</b>
<b>Weight kg</b>	37.50	41.00	41.00

Control technology

Control modules	Add-on modules	Operating terminal
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# FE2owlet-ECblue

for three phase alternating current, 380-480 V

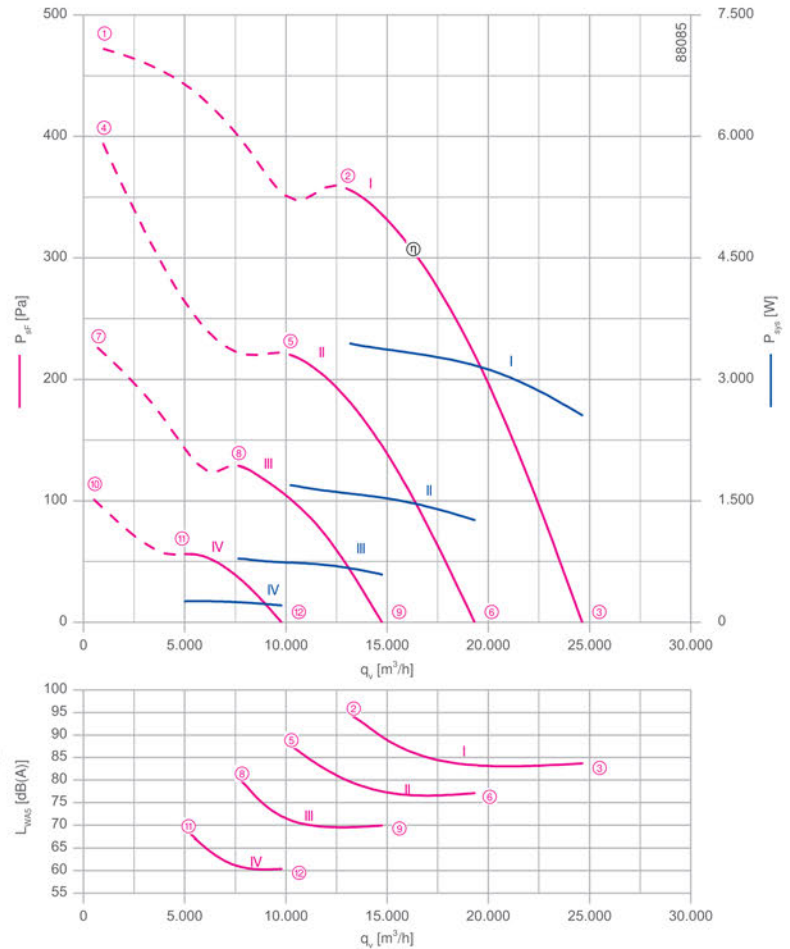
FNO71



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 3.50 kW\*  
 Rated current  $I_N$ : 5.40- 4.30 A\*  
 Rated speed  $n_N$ : 1400 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 44.8 %  
 Efficiency:  $N_{actual} = 47.8 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

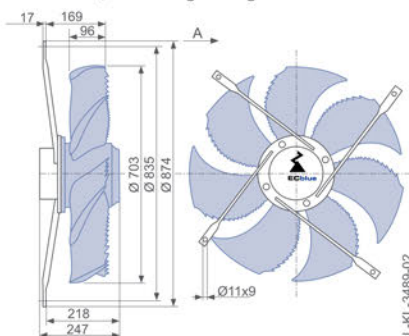
Connection diagram Page 530  
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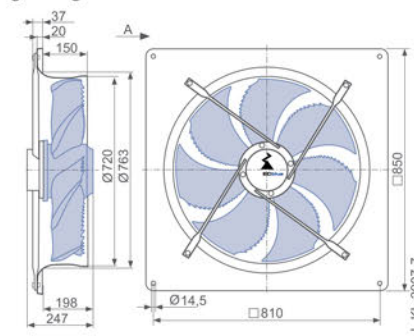
## Dimensions mm

Airflow direction A

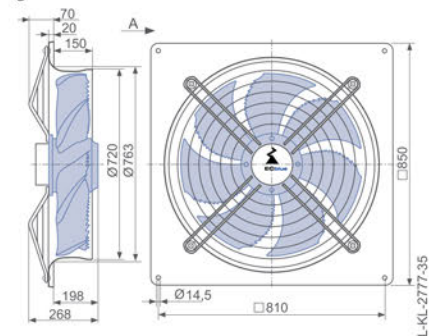
Design D - axial bolted, suspension for full bell mouth, without guard grille



Design Q - square full bell mouth, without guard grille



Design Q - square full bell mouth, guard grille suction side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		n min <sup>-1</sup>		I A	$P_{sys}$ W	
FN071-ZL_GL_7P4	I	1400	①	4.80	3100	
			②	5.20	3500	95
			③	3.90	2600	84
	II	1100	④	3.50	2300	
			⑤	2.60	1700	88
			⑥	1.95	1250	77
	III	840	⑦	1.70	1050	
			⑧	1.30	780	80
			⑨	1.00	600	70
	IV	560	⑩	0.72	350	
			⑪	0.60	260	69
			⑫	0.50	210	60

Current values determined at 400V

Fan ordering information

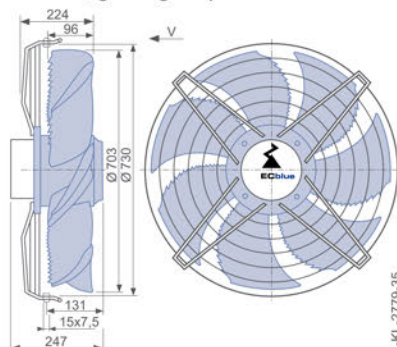
Design	Airflow direction A			Airflow direction V		
	D (without guard grille)	Q (without guard grille)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
Type	FN071-ZID.GL.A7P4	FN071-ZIQ.GL.A7P4	FN071-ZIQ.GL.A7P4	FN071-ZIS.GL.V7P4	FN071-ZII.GL.V7P4	FN071-ZIQ.GL.V7P4
Article no.	154918	154922	154926	154996	154906	154910
Weight kg	30.70	41.70	45.20	34.30	34.00	45.10

Control technology

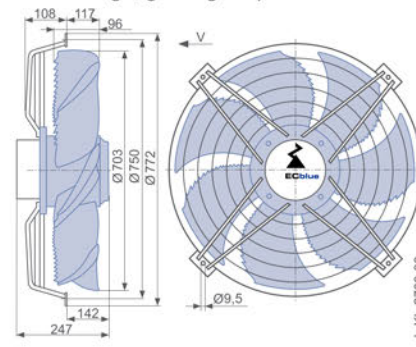
Control modules	Add-on modules	Operating terminal
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Airflow direction V

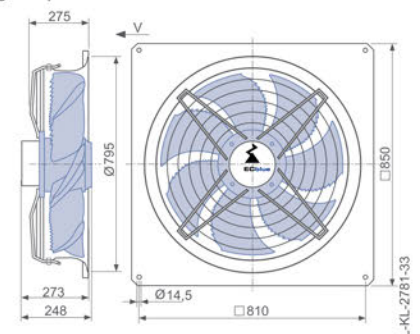
Design S - radially bolted, mounted for short bell mouth, guard grille pressure side



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



Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for single phase alternating current, 200-277 V

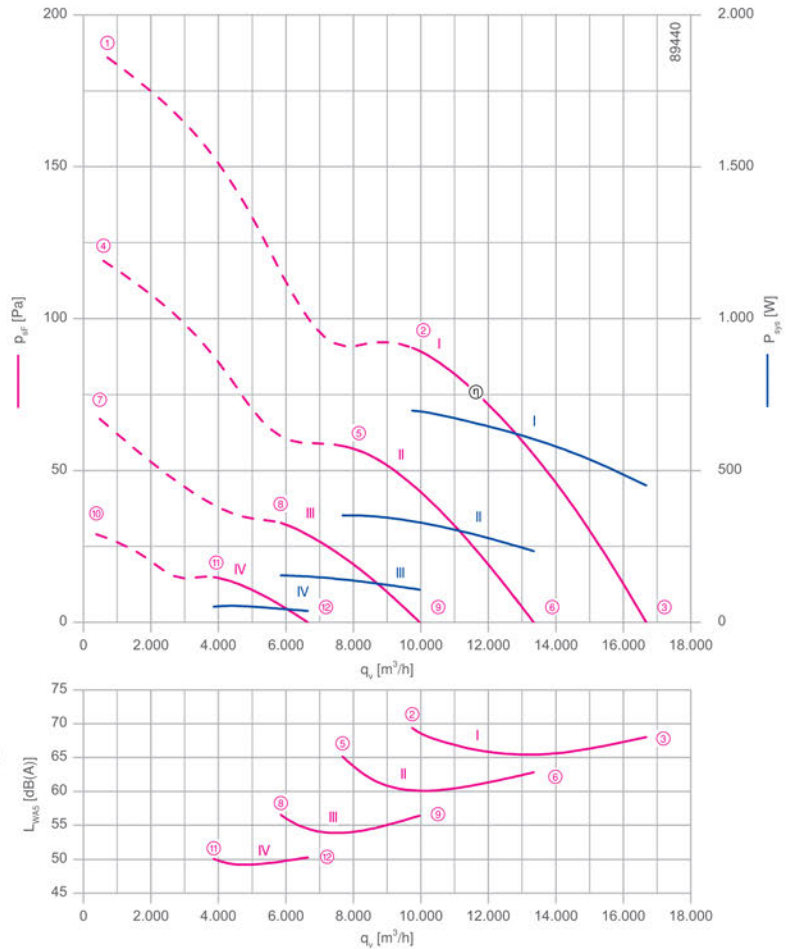
FN080



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 0.70 kW\*  
 Rated current  $I_N$ : 3.70- 2.70 A\*  
 Rated speed  $n_N$ : 650 min<sup>-1</sup>\*\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 5  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 42.0 %  
 Efficiency:  $N_{actual} = 49.5 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

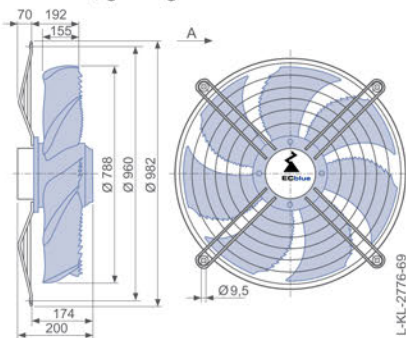
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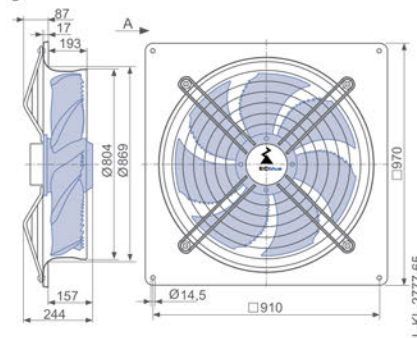
## Dimensions mm

Airflow direction A

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

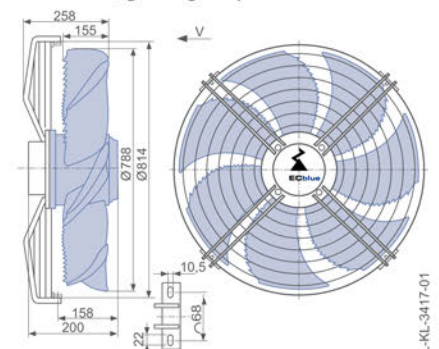


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design S - radially bolted, mounted for short bell mouth, guard grille pressure side





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN080-ZL_DG_5P4	I	650	①	4.60	1000	
			②	3.20	700	70
			③	2.10	460	68
	II	520	④	2.40	500	
			⑤	1.65	350	65
			⑥	1.10	230	63
	III	390	⑦	1.00	220	
			⑧	0.72	150	57
			⑨	0.54	110	56
	IV	260	⑩	0.40	70	
			⑪	0.46	50	50
			⑫	0.40	38	50

Current values determined at 230V

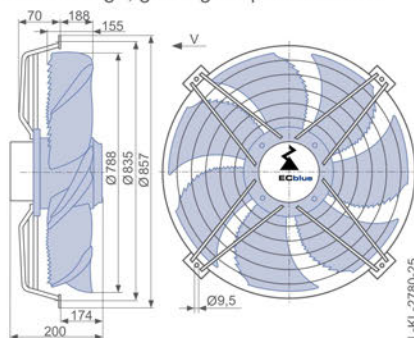
Fan ordering information

Design	Airflow direction A		Airflow direction V		
	D (guard grille suction side)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
Type	FN080-ZID.DG.A5P4	FN080-ZIQ.DG.A5P4	FN080-ZIS.DG.V5P4	FN080-ZII.DG.V5P4	FN080-ZIQ.DG.V5P4
Article no.	157181	157182	157186	157184	157185
Weight kg	20.90	35.60	19.80	19.30	34.10

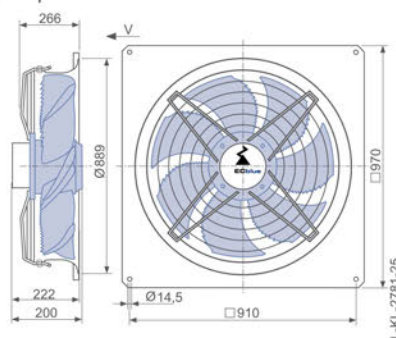
Control technology

Control modules	Add-on modules	Operating terminal
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Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design Q - square full bell mouth, guard grille pressure side





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN080-ZL_DG_5P4	I	700	①	3.20	1200	
			②	2.20	820	70
			③	1.50	560	70
	II	560	④	1.65	600	
			⑤	1.20	420	64
			⑥	0.80	280	64
	III	420	⑦	0.74	260	
			⑧	0.58	190	57
			⑨	0.44	130	58
	IV	280	⑩	0.34	80	
			⑪	0.27	60	50
			⑫	0.21	44	51

Current values determined at 230V

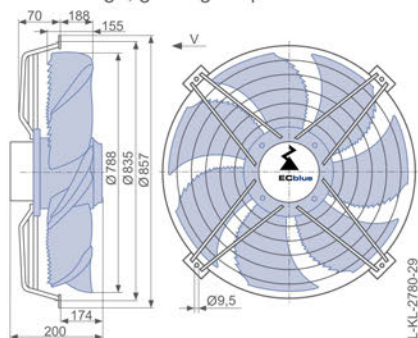
Fan ordering information

	Airflow direction A	Airflow direction V			
Design	D (guard grille suction side)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
Type	FN080-ZID.DG.A5P4	FN080-ZIQ.DG.A5P4	FN080-ZIS.DG.V5P4	FN080-ZII.DG.V5P4	FN080-ZIQ.DG.V5P4
Article no.	157209	157210	157214	157212	157213
Weight kg	20.90	35.60	19.80	19.30	34.10

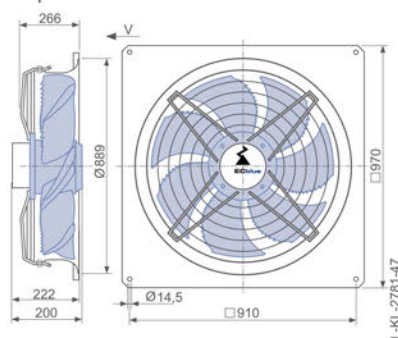
Control technology

Control modules	Add-on modules	Operating terminal
Page 452	Page 463	Page 472

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



Design Q - square full bell mouth, guard grille pressure side





# FE2owlet-ECblue

for three phase alternating current, 200-240 V

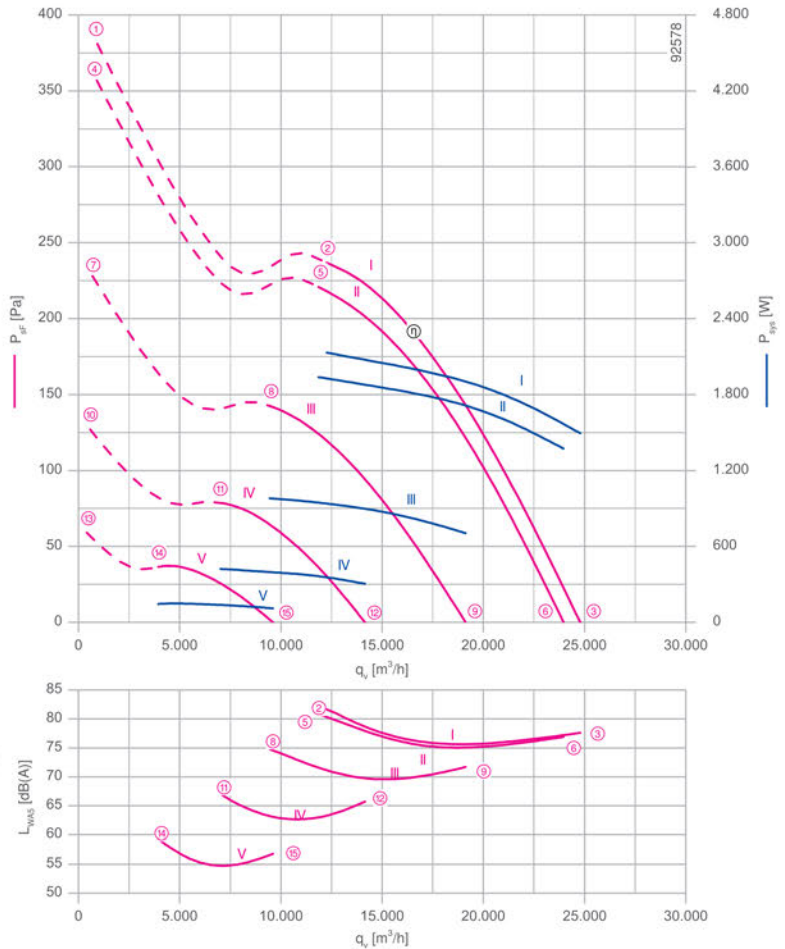
FN080



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 200-240 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 2.10 kW\*  
 Rated current  $I_N$ : 6.60- 5.50 A\*  
 Rated speed  $n_N$ : 970 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 55 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 47.7 %  
 Efficiency:  $N_{actual} = 52.1 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

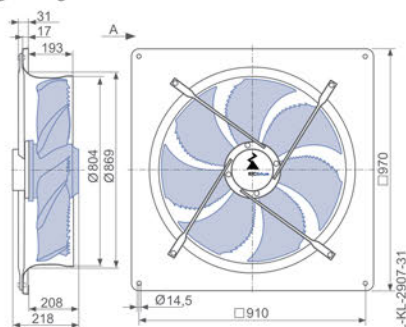
Connection diagram Page 530  
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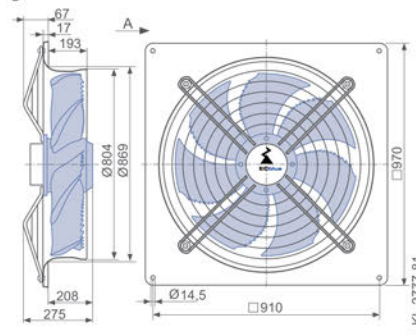
## Dimensions mm

Airflow direction A

Design Q - square full bell mouth, without guard grille

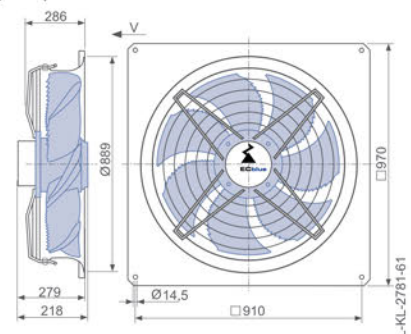


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design Q - square full bell mouth, guard grille pressure side



### Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)	Maximum ambient temperature $t_R$ °C
		$n$ $min^{-1}$		I A	$P_{sys}$ W		
FN080-ZI_GG_7P3	I	970	①	8.00	3000		55
			②	5.80	2100		
			③	4.00	1500		
	II	940	④	7.20	2700	82	60
			⑤	5.20	1950		
			⑥	3.70	1350		
	III	750	⑦	3.60	1350	77	
			⑧	2.70	980		
			⑨	1.95	700		
	IV	560	⑩	1.55	560	72	
			⑪	1.20	420		
			⑫	0.88	300		
	V	380	⑬	0.62	190	66	
			⑭	0.52	150		
			⑮	0.42	110		

Current values determined at 230V

### Fan ordering information

	Airflow direction A	Airflow direction V
Design	Q (without guard grille)	Q (guard grille suction side)    Q (guard grille pressure side)
		 
Type	FN080-ZIQ.GG.A7P3	FN080-ZIQ.GG.A7P3    FN080-ZIQ.GG.V7P3
Article no.	159854	159856    159848
Weight kg	45.90	49.00    47.70

### Control technology

Control modules	Add-on modules	Operating terminal
		
Page 452	Page 463	Page 472

# FE2owlet-ECblue

for three phase alternating current, 200-240 V

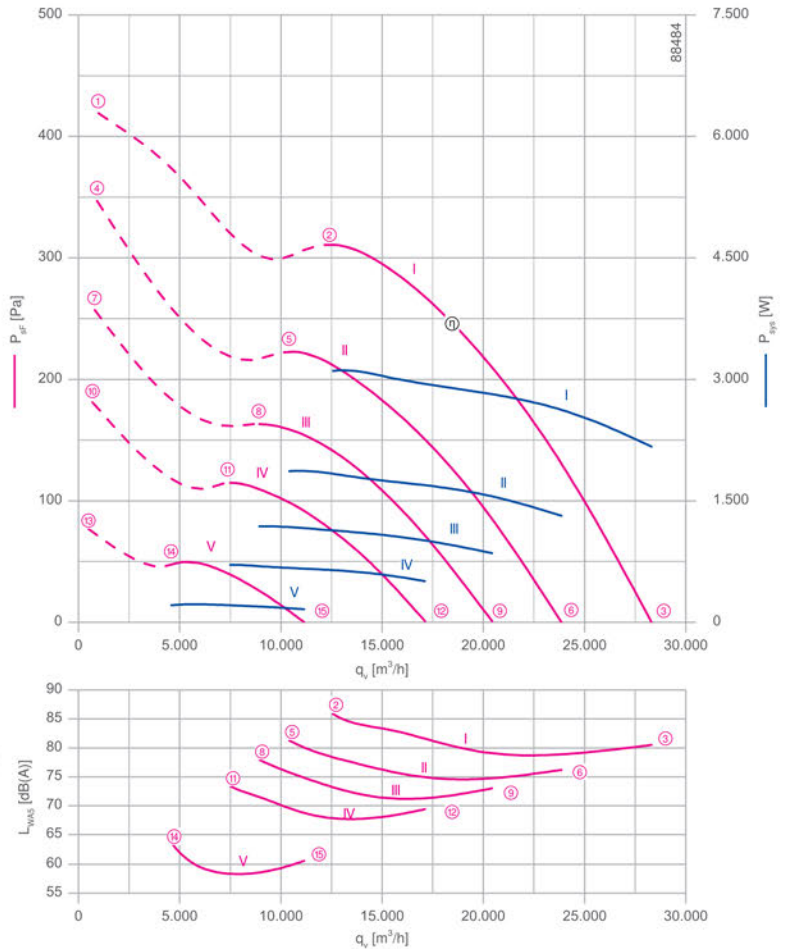
FN080



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 200-240 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 3.10 kW\*  
 Rated current  $I_N$ : 9.40- 7.80 A\*  
 Rated speed  $n_N$ : 1100 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 40 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 47.2 %  
 Efficiency:  $N_{actual} = 50.6 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

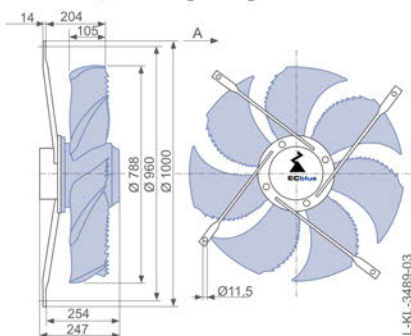
Connection diagram Page 530  
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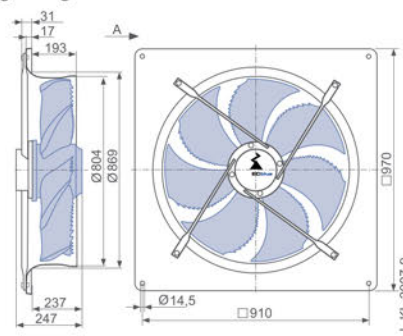
## Dimensions mm

Airflow direction A

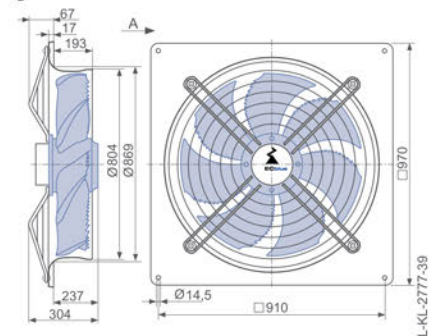
Design D - axial bolted, suspension for full bell mouth, without guard grille



Design Q - square full bell mouth, without guard grille



Design Q - square full bell mouth, guard grille suction side



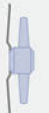

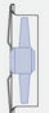





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min <sup>-1</sup>		I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)	
FN080-ZI_GL_7P3	I	1100	①	9.00	3400		40
			②	8.20	3100	86	
			③	5.60	2200	81	
	II	930	④	6.80	2600		60
			⑤	4.80	1850	81	
			⑥	3.50	1300	76	
	III	800	⑦	4.20	1600		
			⑧	3.10	1200	78	
			⑨	2.30	860	73	
	IV	670	⑩	2.50	940		
			⑪	1.90	700	74	
			⑫	1.40	500	69	
	V	440	⑬	0.84	280		
			⑭	0.68	220	62	
			⑮	0.56	160	61	

Current values determined at 230V

Fan ordering information

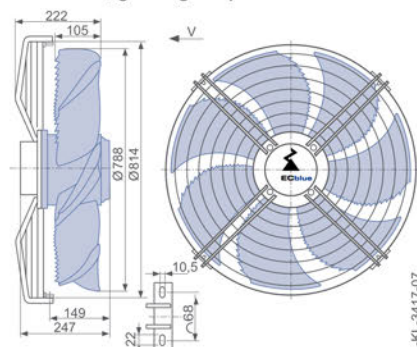
	Airflow direction A			Airflow direction V		
Design	D (without guard grille)	Q (without guard grille)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
						
Type Article no.	FN080-ZID.GL.A7P3 155717	FN080-ZIQ.GL.A7P3 155719	FN080-ZIQ.GL.A7P3 155721	FN080-ZIS.GL.V7P3 155709	FN080-ZII.GL.V7P3 155711	FN080-ZIQ.GL.V7P3 155713
Weight kg	35.30	50.10	53.90	37.50	36.80	51.90

Control technology

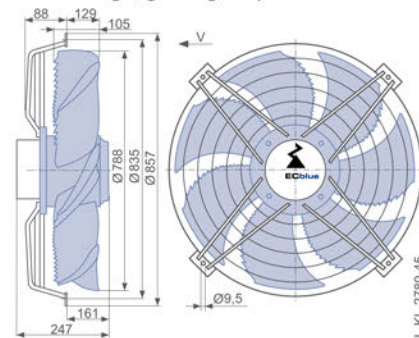
Control modules	Add-on modules	Operating terminal
		
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Airflow direction V

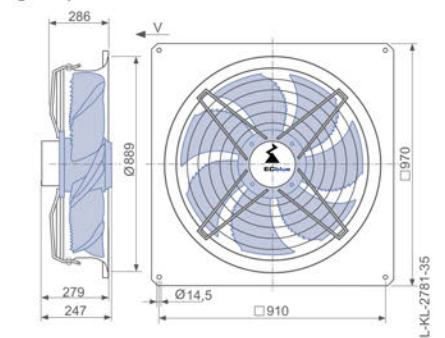
Design S - radially bolted, mounted for short bell mouth, guard grille pressure side



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



Design Q - square full bell mouth, guard grille pressure side





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN080-ZL_DG_5P4	I	700	①	1.85	1200	
			②	1.35	820	70
			③	0.94	540	70
	II	560	④	1.05	600	
			⑤	0.80	420	64
			⑥	0.62	280	64
	III	420	⑦	0.58	250	
			⑧	0.46	180	58
			⑨	0.36	130	59
	IV	280	⑩	0.29	85	
			⑪	0.26	65	50
			⑫	0.23	48	51

Current values determined at 400V

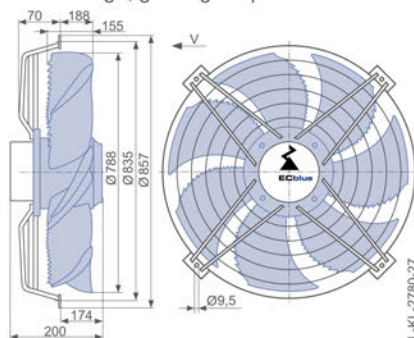
Fan ordering information

Design	Airflow direction A		Airflow direction V		
	D (guard grille suction side)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
Type	FN080-ZID.DG.A5P4	FN080-ZIQ.DG.A5P4	FN080-ZIS.DG.V5P4	FN080-ZII.DG.V5P4	FN080-ZIQ.DG.V5P4
Article no.	157195	157196	157200	157198	157199
Weight kg	20.90	35.60	19.80	19.30	34.10

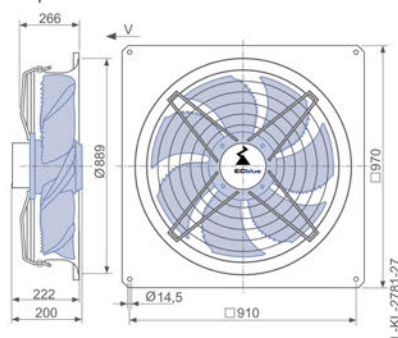
Control technology

Control modules	Add-on modules	Operating terminal
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Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design Q - square full bell mouth, guard grille pressure side





# FE2owlet-ECblue

for three phase alternating current, 380-480 V

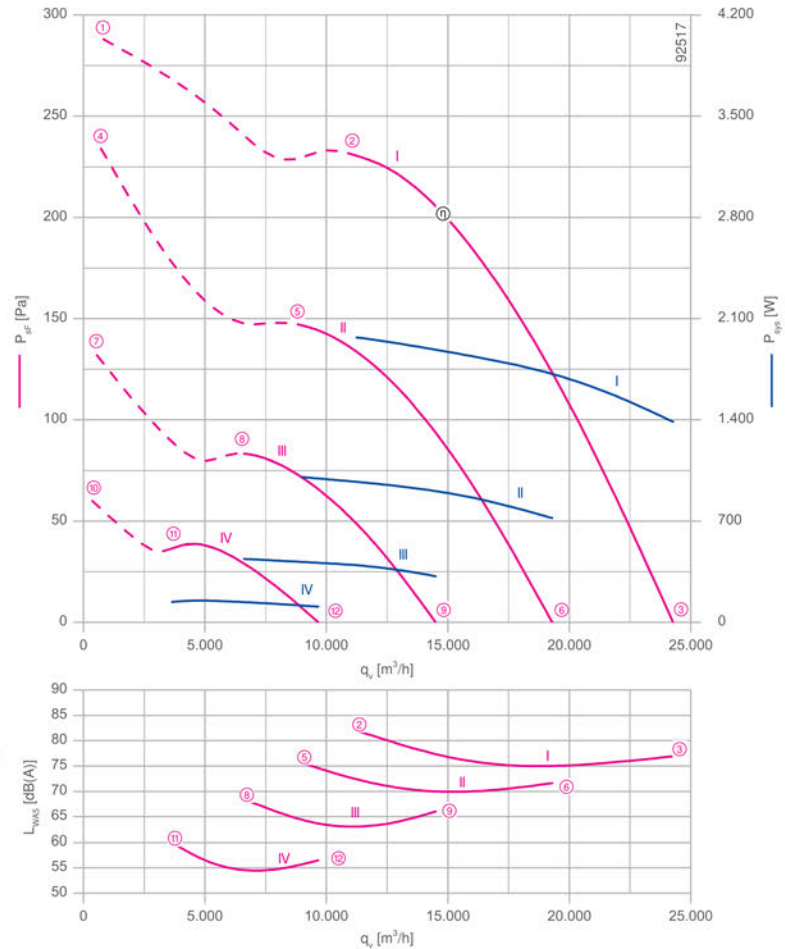
FN080



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 1.95 kW\*  
 Rated current  $I_N$ : 3.30- 2.60 A\*  
 Rated speed  $n_N$ : 950 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 48.7 %  
 Efficiency:  $N_{actual} = 53.4 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

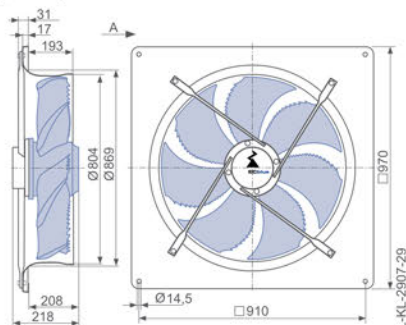
Connection diagram Page 530  
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System components Page 430

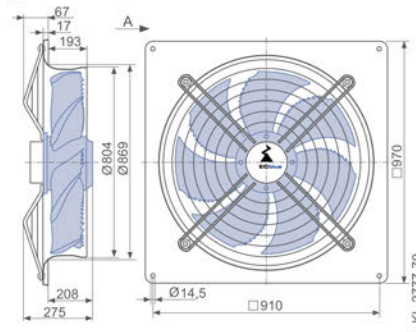
## Dimensions mm

Airflow direction A

Design Q - square full bell mouth, without guard grille

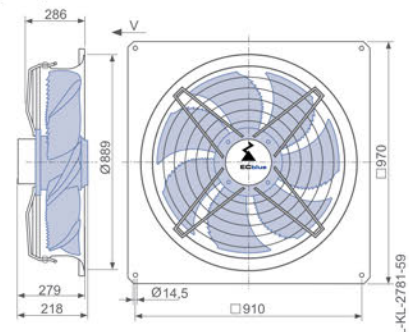


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design Q - square full bell mouth, guard grille pressure side



### Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		n min <sup>-1</sup>		I A	$P_{sys}$ W	
FN080-ZL_GG_7P3	I	950	①	3.00	1900	
			②	3.10	1950	82
			③	2.20	1400	77
	II	760	④	2.20	1400	
			⑤	1.70	1000	76
			⑥	1.25	720	72
	III	570	⑦	1.05	580	
			⑧	0.84	440	68
			⑨	0.66	320	66
	IV	380	⑩	0.46	190	
			⑪	0.39	140	58
			⑫	0.32	110	57

Current values determined at 400V

### Fan ordering information

Design	Airflow direction A		Airflow direction V	
	Q (without guard grille)	Q (guard grille suction side)	Q (guard grille pressure side)	
<b>Type</b>	<b>FN080-ZIQ.GG.A7P3</b>	<b>FN080-ZIQ.GG.A7P3</b>	<b>FN080-ZIQ.GG.V7P3</b>	
<b>Article no.</b>	<b>154809</b>	<b>154813</b>	<b>154944</b>	
<b>Weight kg</b>	45.90	49.70	47.70	

### Control technology

Control modules	Add-on modules	Operating terminal
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# FE2owlet-ECblue

for three phase alternating current, 380-480 V

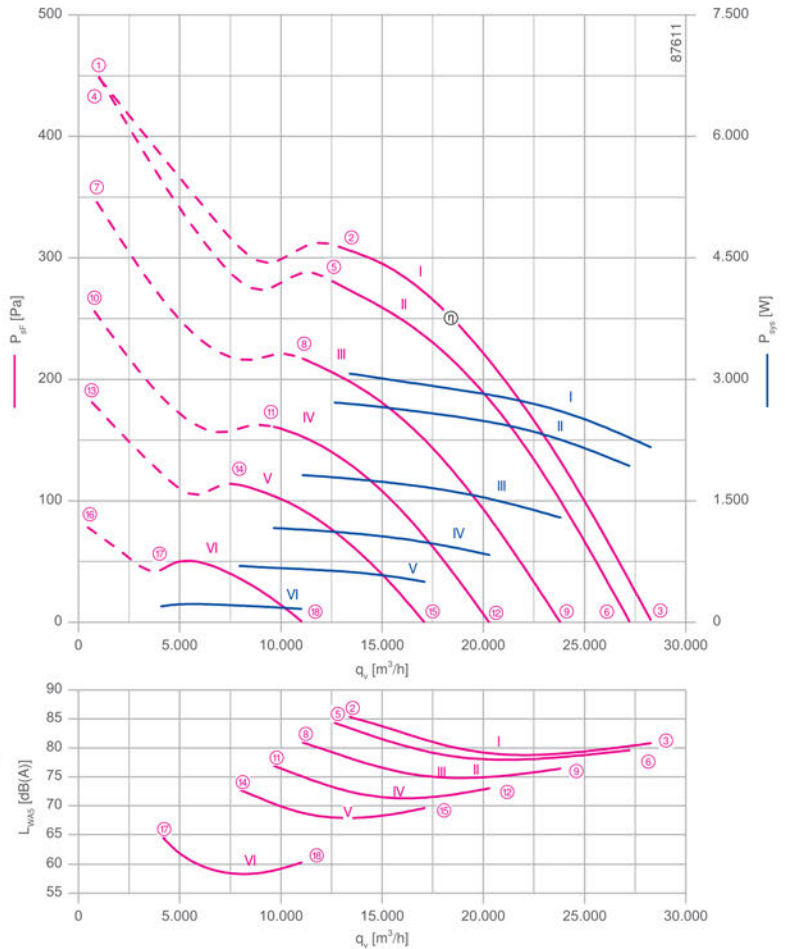
FN080



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 3.10 kW\*  
 Rated current  $I_N$ : 4.80- 3.80 A\*  
 Rated speed  $n_N$ : 1100 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 55 °C  
 Electrical connection: integrated Controller  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 46.4 %  
 Efficiency:  $N_{actual} = 49.9 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

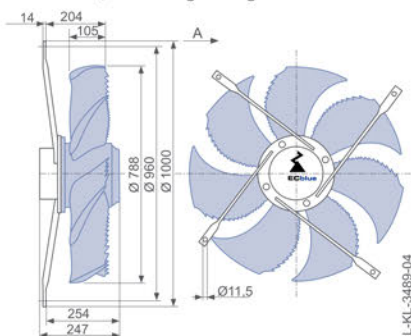
Connection diagram Page 530  
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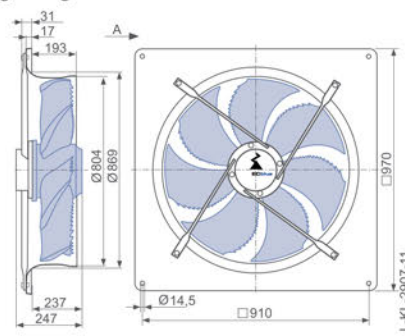
## Dimensions mm

Airflow direction A

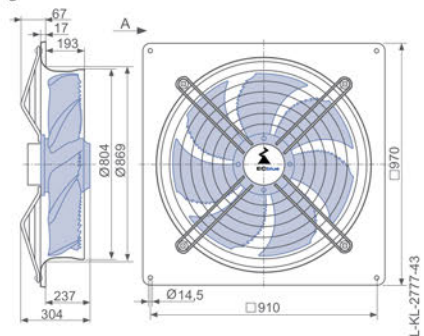
Design D - axial bolted, suspension for full bell mouth, without guard grille



Design Q - square full bell mouth, without guard grille



Design Q - square full bell mouth, guard grille suction side





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)	Maximum ambient temperature $t_R$ °C
		$n$ $min^{-1}$		I A	$P_{sys}$ W		
FN080-ZI_GL_7P3	I	1100	①	5.60	3700		55
			②	4.60	3100	86	
			③	3.30	2200	81	
	II	1060	④	5.60	3700		60
			⑤	4.20	2700	84	
			⑥	2.90	1950	80	
	III	930	⑦	3.80	2500		
			⑧	2.80	1800	81	
			⑨	2.00	1300	76	
	IV	800	⑩	2.40	1600		
			⑪	1.80	1150	77	
			⑫	1.35	840	73	
	V	670	⑬	1.50	940		
			⑭	1.15	680	73	
			⑮	0.90	500	70	
	VI	440	⑯	0.64	280		
			⑰	0.52	220	61	
			⑱	0.44	160	60	

Current values determined at 400V

Fan ordering information

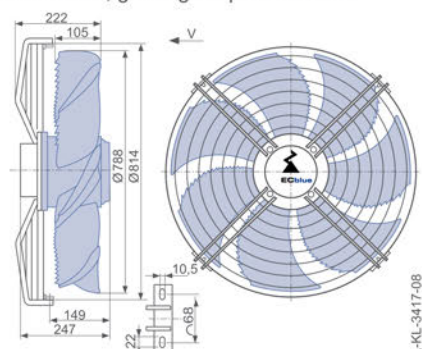
Design	Airflow direction A			Airflow direction V		
	D (without guard grille)	Q (without guard grille)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
<b>Type</b>	FN080-ZID.GL.A7P3	FN080-ZIQ.GL.A7P3	FN080-ZIQ.GL.A7P3	FN080-ZIS.GL.V7P3	FN080-ZII.GL.V7P3	FN080-ZIQ.GL.V7P3
<b>Article no.</b>	154807	154811	154815	154934	154942	154946
<b>Weight kg</b>	35.30	50.10	53.90	37.50	36.80	51.90

Control technology

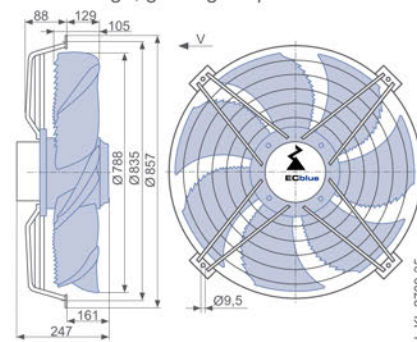
Control modules	Add-on modules	Operating terminal
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Airflow direction V

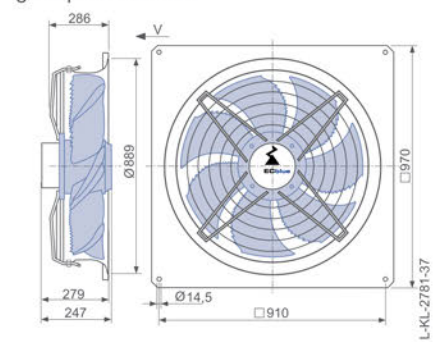
Design S - radially bolted, mounted for short bell mouth, guard grille pressure side



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



Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for single phase alternating current, 200-277 V

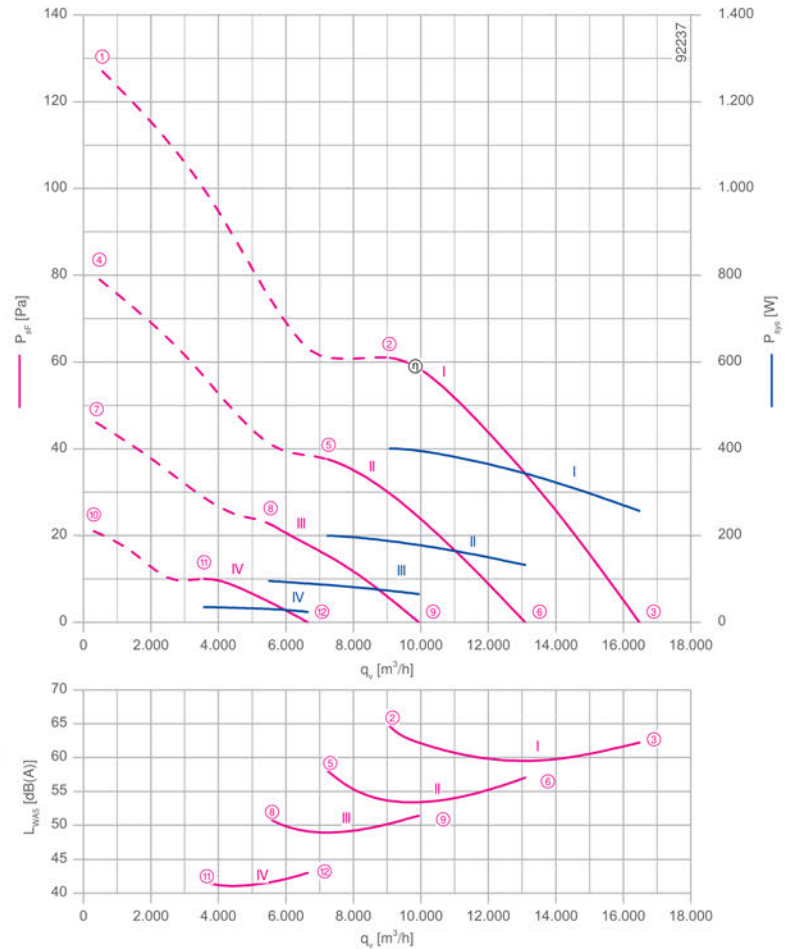
FN091



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 1~ 200-277 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 400 W\*  
 Rated current  $I_N$ : 2.20- 1.60 A\*  
 Rated speed  $n_N$ : 480 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 4  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 46.5 %  
 Efficiency:  $N_{actual} = 55.4 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

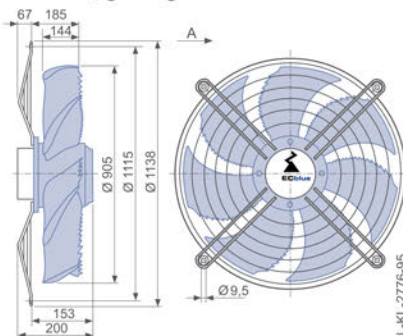
Connection diagram Page 530  
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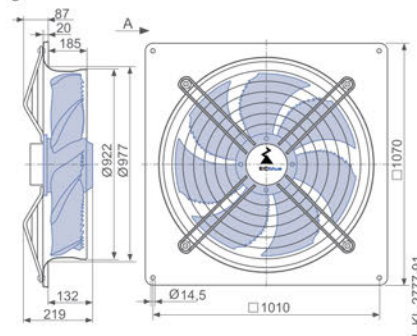
## Dimensions mm

Airflow direction A

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

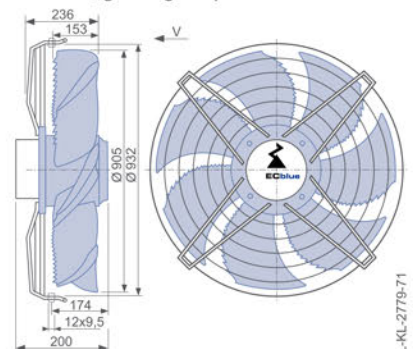


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design S - radially bolted, mounted for short bell mouth, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN091-ZL_DG_4P3	I	480	①	3.00	640	
			②	1.90	400	65
			③	1.15	260	62
	II	380	④	1.45	310	
			⑤	0.90	200	58
			⑥	0.62	130	57
	III	290	⑦	0.66	140	
			⑧	0.48	95	51
			⑨	0.37	65	51
	IV	190	⑩	0.31	48	
			⑪	0.25	34	42
			⑫	0.32	24	43

Current values determined at 230V

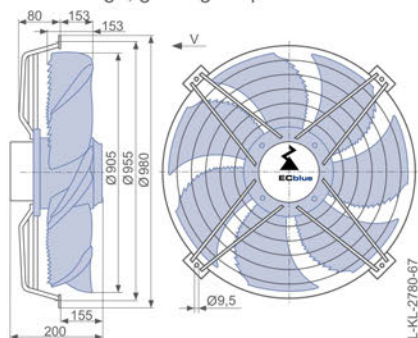
Fan ordering information

Design	D (guard grille suction side)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
<b>Type</b>	<b>FN091-ZID.DG.A4P3</b>	<b>FN091-ZIQ.DG.A4P3</b>	<b>FN091-ZIS.DG.V4P3</b>	<b>FN091-ZII.DG.V4P3</b>	<b>FN091-ZIQ.DG.V4P3</b>
<b>Article no.</b>	<b>159819</b>	<b>159821</b>	<b>159815</b>	<b>159811</b>	<b>159813</b>
<b>Weight kg</b>	19.50	36.00	19.90	19.90	36.50

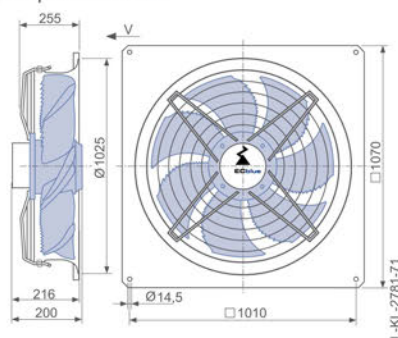
Control technology

Control modules	Add-on modules	Operating terminal
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Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design Q - square full bell mouth, guard grille pressure side





# FE2owlet-ECblue

for three phase alternating current, 200-240 V

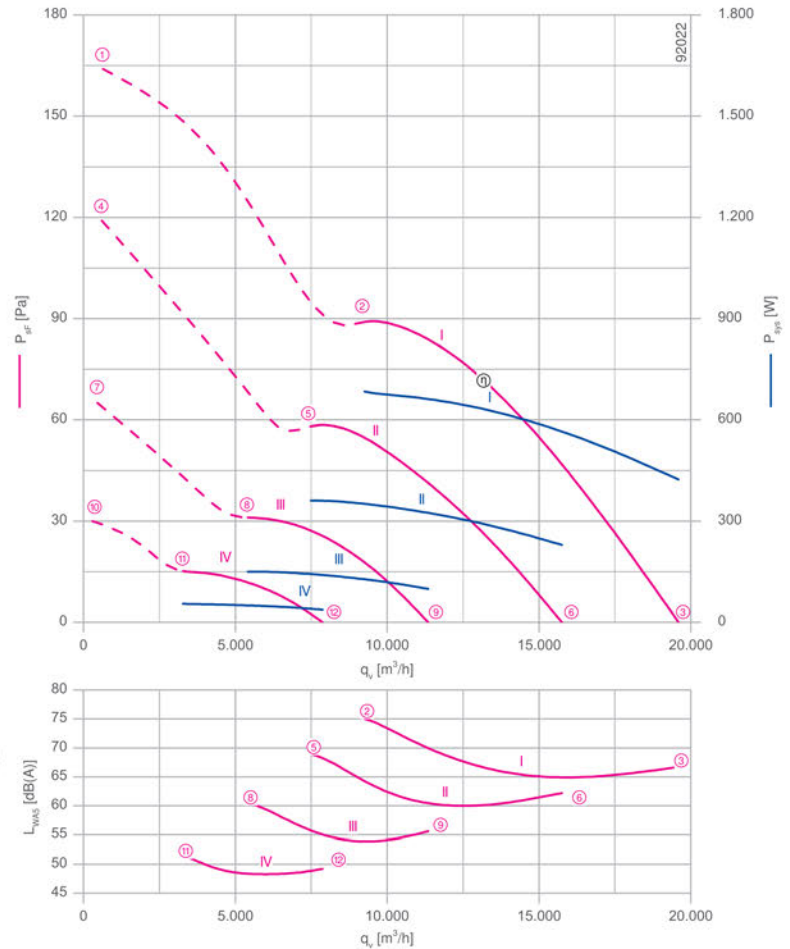
FN091



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 200-240 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 0.69 kW\*  
 Rated current  $I_N$ : 2.10- 1.75 A\*  
 Rated speed  $n_N$ : 570 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 4  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 46.4 %  
 Efficiency:  $N_{actual} = 54.0 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

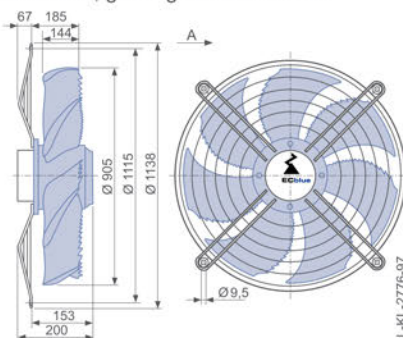
Connection diagram Page 530  
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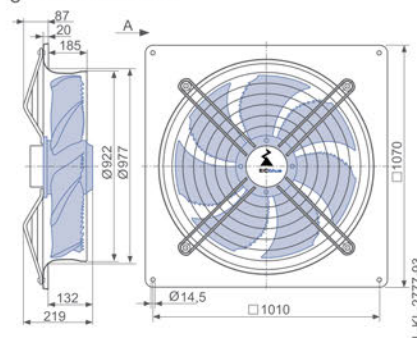
## Dimensions mm

Airflow direction A

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

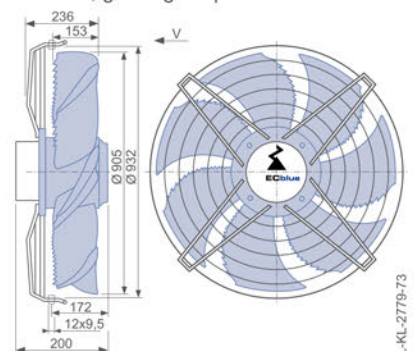


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design S - radially bolted, mounted for short bell mouth, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point		Current	Input power	Suction side sound power level
		n min <sup>-1</sup>			I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)
FN091-ZL_DG_4P3	I	570	①		2.50	940	
			②		1.85	680	75
			③		1.15	420	67
	II	460	④		1.55	560	
			⑤		1.00	360	69
			⑥		0.68	230	62
	III	340	⑦		0.68	230	
			⑧		0.52	150	60
			⑨		0.37	100	56
	IV	230	⑩		0.31	75	
			⑪		0.24	55	50
			⑫		0.18	38	49

Current values determined at 230V

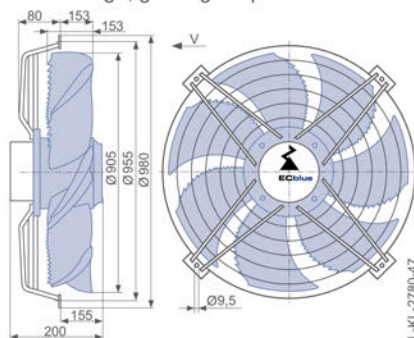
Fan ordering information

Design	Airflow direction A		Airflow direction V		
	D (guard grille suction side)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
Type	FN091-ZID.DG.A4P3	FN091-ZIQ.DG.A4P3	FN091-ZIS.DG.V4P3	FN091-ZII.DG.V4P3	FN091-ZIQ.DG.V4P3
Article no.	159805	159807	159801	159797	159799
Weight kg	19.50	36.00	19.90	19.90	36.50

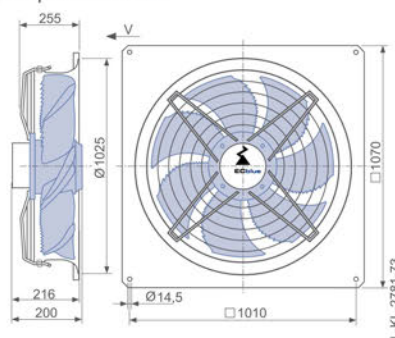
Control technology

Control modules	Add-on modules	Operating terminal
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Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design Q - square full bell mouth, guard grille pressure side







### Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min <sup>-1</sup>		I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)	
FN091-ZI_GG_5P1	I	950	①	8.20	3100		55
			②	5.60	2100	89	
			③	3.50	1350	80	
	II	920	④	8.20	3100		60
			⑤	5.00	1950	88	
			⑥	3.20	1200	79	
	III	740	⑦	4.80	1850		
			⑧	2.70	1000	81	
			⑨	1.70	640	73	
	IV	550	⑩	2.00	740		
			⑪	1.20	420	73	
			⑫	0.82	280	65	
	V	370	⑬	0.74	240		
			⑭	0.52	150	61	
			⑮	0.42	100	56	

Current values determined at 230V

### Fan ordering information

Design	Airflow direction		
	A	V	
	Q (without guard grille)	Q (guard grille suction side)	Q (guard grille pressure side)
			
<b>Type</b>	FN091-ZIQ.GG.A5P1	FN091-ZIQ.GG.A5P1	FN091-ZIQ.GG.V5P1
<b>Article no.</b>	159870	159872	159864
<b>Weight kg</b>	47.30	56.10	51.80

### Control technology

Control modules	Add-on modules	Operating terminal
 Page 452	 Page 463	 Page 472

# FE2owlet-ECblue

for three phase alternating current, 200-240 V

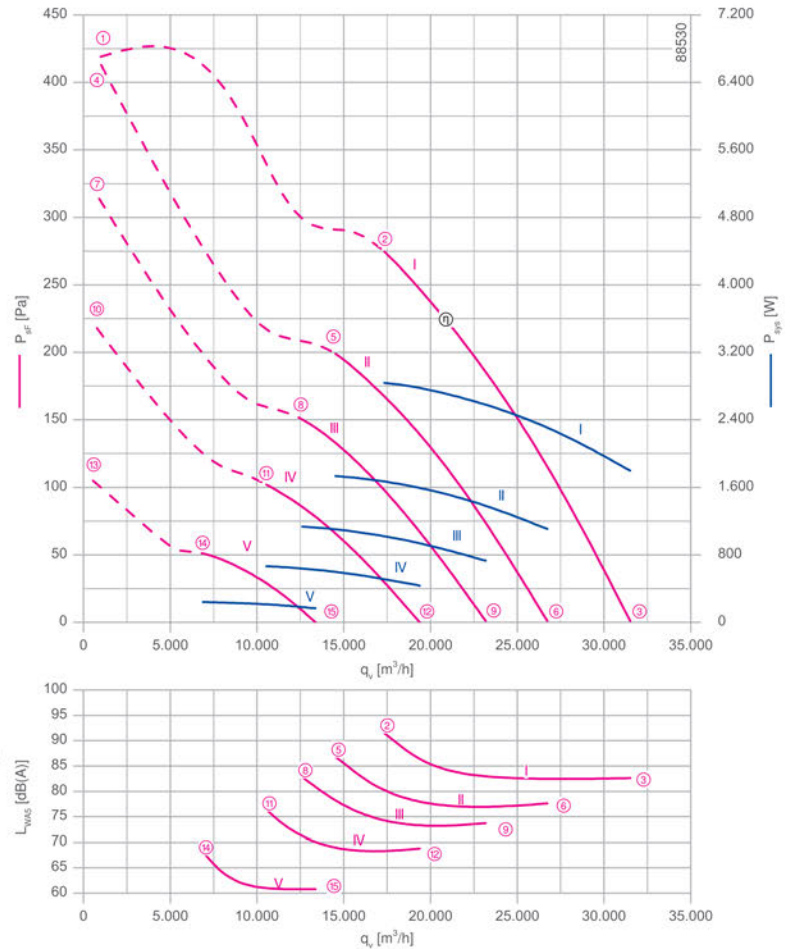
FN091



## Description

Motor technology: EC  
 Rated voltage U: 3~ 200-240 V\*  
 Rated frequency f: 50/60 Hz\*  
 Motor input power  $P_{sys}$ : 2.80 kW\*  
 Rated current I: 8.60- 7.20 A\*  
 Rated speed  $n_{max}$ : 1060 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 40 °C  
 Electrical connection: integrated Controller  
 Number of blades: 5  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, Ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP Data**  
 Efficiency  $\eta_{statA}$ : 52.7 %  
 Efficiency:  $N_{actual} = 56.3 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

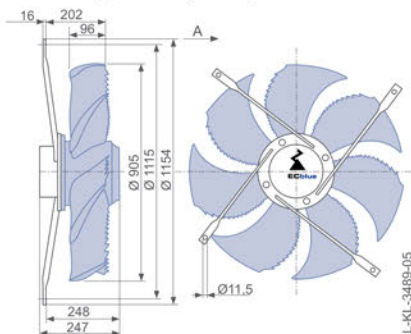
Connection diagram Page 530  
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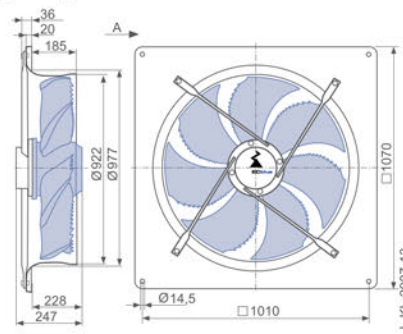
## Dimensions mm

Airflow direction A

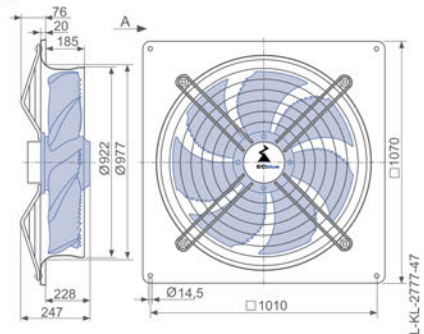
Design D - axial bolted, suspension for full bell mouth, without guard grille



Design Q - square full bell mouth, without guard grille



Design Q - square full bell mouth, guard grille suction side

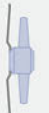

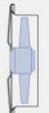





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)	Maximum ambient temperature $t_R$ °C	
		$n$ $min^{-1}$		I A	$P_{sys}$ W			
FN091-ZL_GL_5P1	I	1060	①	8.40	3200		40	
			②	7.60	2800			
			③	4.80	1800			
	II	900	④	8.20	3100	92	60	
			⑤	4.60	1750	87		
			⑥	2.90	1100	78		
	III	780	⑦	5.40	2000			
			⑧	3.00	1150			83
			⑨	1.95	740			74
	IV	650	⑩	3.10	1200			
			⑪	1.80	660			77
			⑫	1.20	440			69
	V	450	⑬	1.15	400			
			⑭	0.72	240			67
			⑮	0.56	170			61

Current values determined at 230V

Fan ordering information

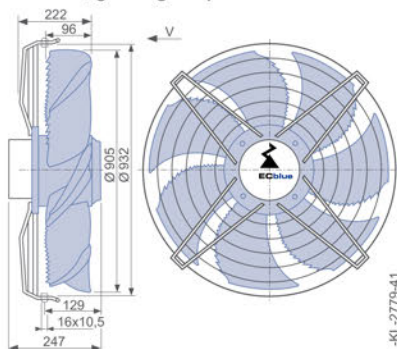
Design	Airflow direction A			Airflow direction V		
	D (without guard grille)	Q (without guard grille)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
						
Type Article no.	FN091-ZID.GL.A5P1 155735	FN091-ZIQ.GL.A5P1 155737	FN091-ZIQ.GL.A5P1 155739	FN091-ZIS.GL.V5P1 155725	FN091-ZII.GL.V5P1 155729	FN091-ZIQ.GL.V5P1 155731
Weight kg	34.90	51.50	56.10	39.40	38.90	56.00

Control technology

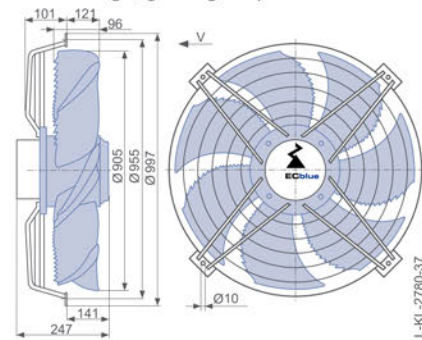
Control modules	Add-on modules	Operating terminal
 Page 452	 Page 463	 Page 472

Airflow direction V

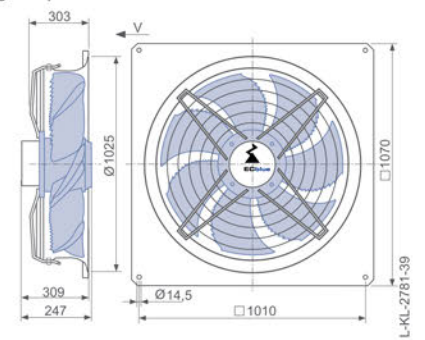
Design S - radially bolted, mounted for short bell mouth, guard grille pressure side



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



Design Q - square full bell mouth, guard grille pressure side





# FE2owlet-ECblue

for three phase alternating current, 380-480 V

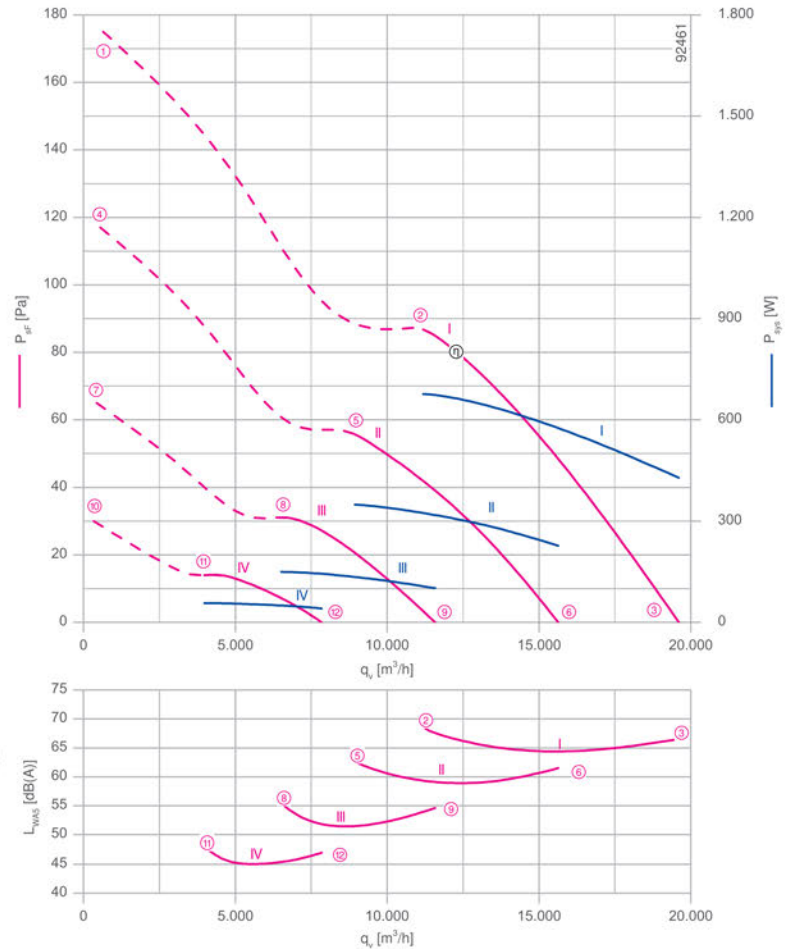
FN091



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 0.68 kW\*  
 Rated current  $I_N$ : 1.28- 0.98 A\*  
 Rated speed  $n_N$ : 570 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 4  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 46.3 %  
 Efficiency:  $N_{actual} = 53.7 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

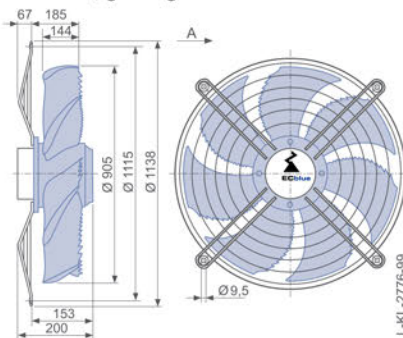
Connection diagram Page 530  
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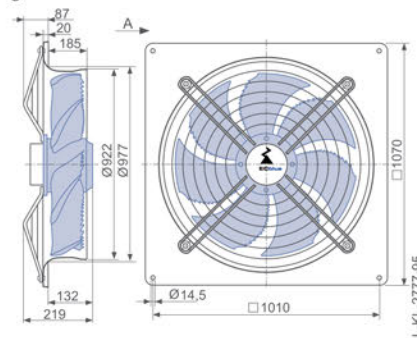
## Dimensions mm

Airflow direction A

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

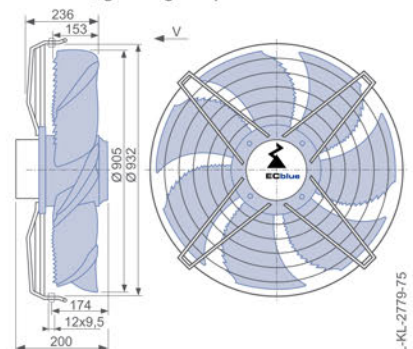


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design S - radially bolted, mounted for short bell mouth, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN091-ZL-DG_4P3	I	570	①	1.70	1050	
			②	1.15	680	69
			③	0.82	420	67
	II	460	④	1.00	540	
			⑤	0.72	350	63
			⑥	0.52	230	62
	III	340	⑦	0.52	230	
			⑧	0.38	150	55
			⑨	0.29	100	55
	IV	230	⑩	0.23	80	
			⑪	0.19	55	46
			⑫	0.17	42	47

Current values determined at 400V

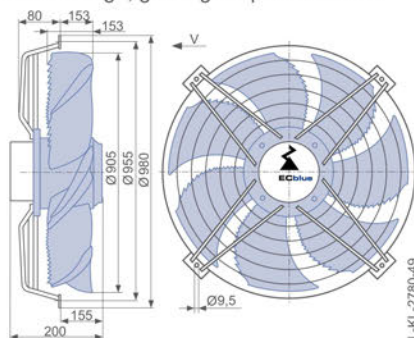
Fan ordering information

Design	Airflow direction A		Airflow direction V		
	D (guard grille suction side)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
Type	FN091-ZID.DG.A4P3	FN091-ZIQ.DG.A4P3	FN091-ZIS.DG.V4P3	FN091-ZII.DG.V4P3	FN091-ZIQ.DG.V4P3
Article no.	159791	159793	159787	159783	159785
Weight kg	19.50	36.00	19.90	19.90	36.50

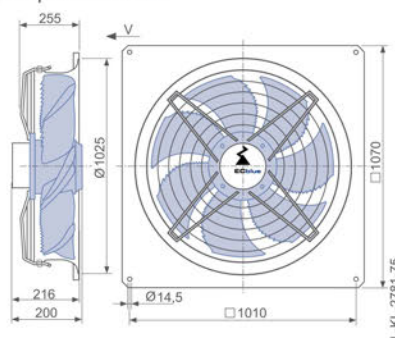
Control technology

Control modules	Add-on modules	Operating terminal
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Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design Q - square full bell mouth, guard grille pressure side







### Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		n min <sup>-1</sup>		I A	$P_{sys}$ W	
FN091-ZL_GG_5P1	I	930	①	2.50	1600	
			②	3.00	1950	90
			③	1.95	1250	79
	II	740	④	2.50	1600	
			⑤	1.60	1000	83
			⑥	1.10	640	72
	III	560	⑦	1.30	780	
			⑧	0.86	440	75
			⑨	0.64	290	65
	IV	370	⑩	0.56	230	
			⑪	0.40	140	62
			⑫	0.32	100	56

Current values determined at 400V

### Fan ordering information

Design	Airflow direction		
	A	V	
	Q (without guard grille)	Q (guard grille suction side)	Q (guard grille pressure side)
<b>Type</b>	<b>FN091-ZIQ.GG.A5P1</b>	<b>FN091-ZIQ.GG.A5P1</b>	<b>FN091-ZIQ.GG.V5P1</b>
<b>Article no.</b>	<b>154845</b>	<b>154849</b>	<b>154833</b>
<b>Weight kg</b>	47.30	51.90	51.80

### Control technology

Control modules	Add-on modules	Operating terminal
Page 452	Page 463	Page 472

# FE2owlet-ECblue

for three phase alternating current, 380-480 V

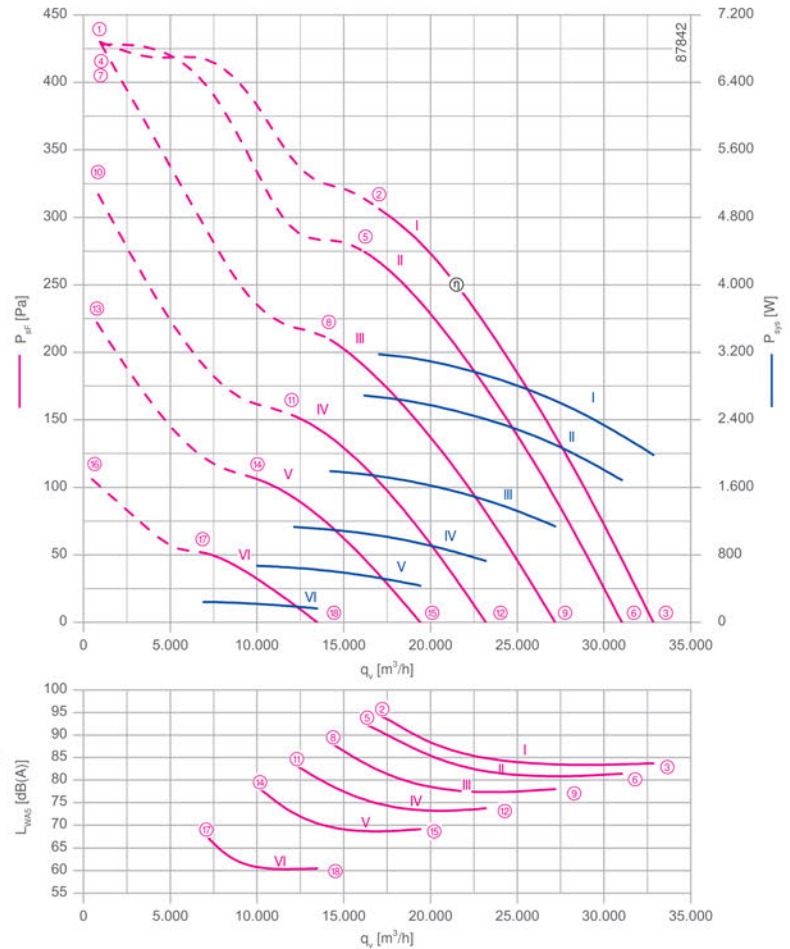
FN091



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 3.20 kW\*  
 Rated current  $I_N$ : 5.00- 3.90 A\*  
 Rated speed  $n_N$ : 1100 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 50 °C  
 Electrical connection: integrated Controller  
 Number of blades: 5  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 53.2 %  
 Efficiency:  $N_{actual} = 56.5 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

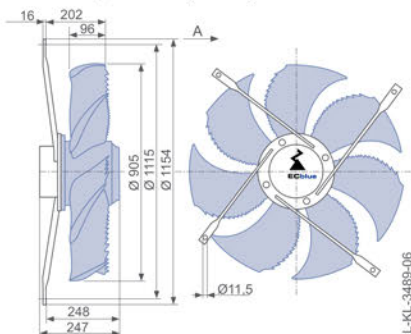
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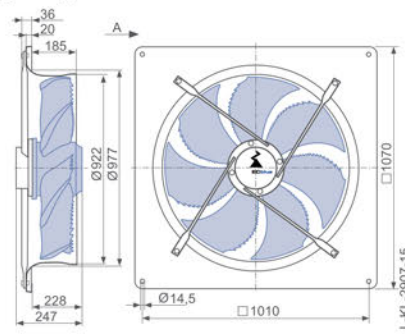
## Dimensions mm

Airflow direction A

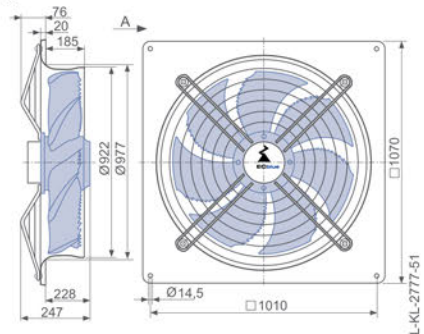
Design D - axial bolted, suspension for full bell mouth, without guard grille



Design Q - square full bell mouth, without guard grille



Design Q - square full bell mouth, guard grille suction side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)	Maximum ambient temperature $t_R$ °C
		$n$ $min^{-1}$		I A	$P_{sys}$ W		
FN091-ZI_GL_5P1	I	1100	①	5.00	3300		50
			②	4.80	3200		
			③	3.00	2000		
	II	1040	④	5.00	3300	95	60
			⑤	4.00	2700	84	
			⑥	2.60	1700	81	
	III	910	⑦	5.00	3300	89	
			⑧	2.80	1800	78	
			⑨	1.80	1150	74	
	IV	780	⑩	3.10	2000	84	
			⑪	1.80	1150	74	
			⑫	1.20	720	69	
	V	650	⑬	1.85	1200	78	
			⑭	1.15	660	69	
			⑮	0.82	440	68	
	VI	450	⑯	0.78	400	61	
			⑰	0.58	240		
			⑱	0.44	160		

Current values determined at 400V

Fan ordering information

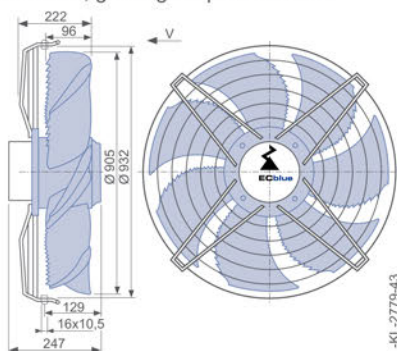
Design	Airflow direction A			Airflow direction V		
	D (without guard grille)	Q (without guard grille)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
<b>Type</b>	FN091-ZID.GL.A5P1	FN091-ZIQ.GL.A5P1	FN091-ZIQ.GL.A5P1	FN091-ZIS.GL.V5P1	FN091-ZII.GL.V5P1	FN091-ZIQ.GL.V5P1
<b>Article no.</b>	154843	154847	154851	154823	154831	154835
<b>Weight kg</b>	34.90	51.50	56.10	39.40	38.90	56.00

Control technology

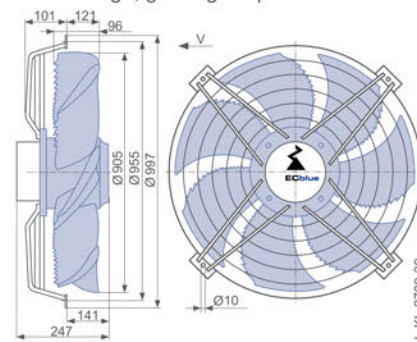
Control modules	Add-on modules	Operating terminal
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Airflow direction V

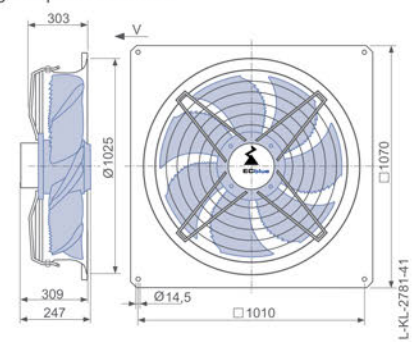
Design S - radially bolted, mounted for short bell mouth, guard grille pressure side



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



Design Q - square full bell mouth, guard grille pressure side





# FE2owlet-ECblue

for three phase alternating current, 200-240 V

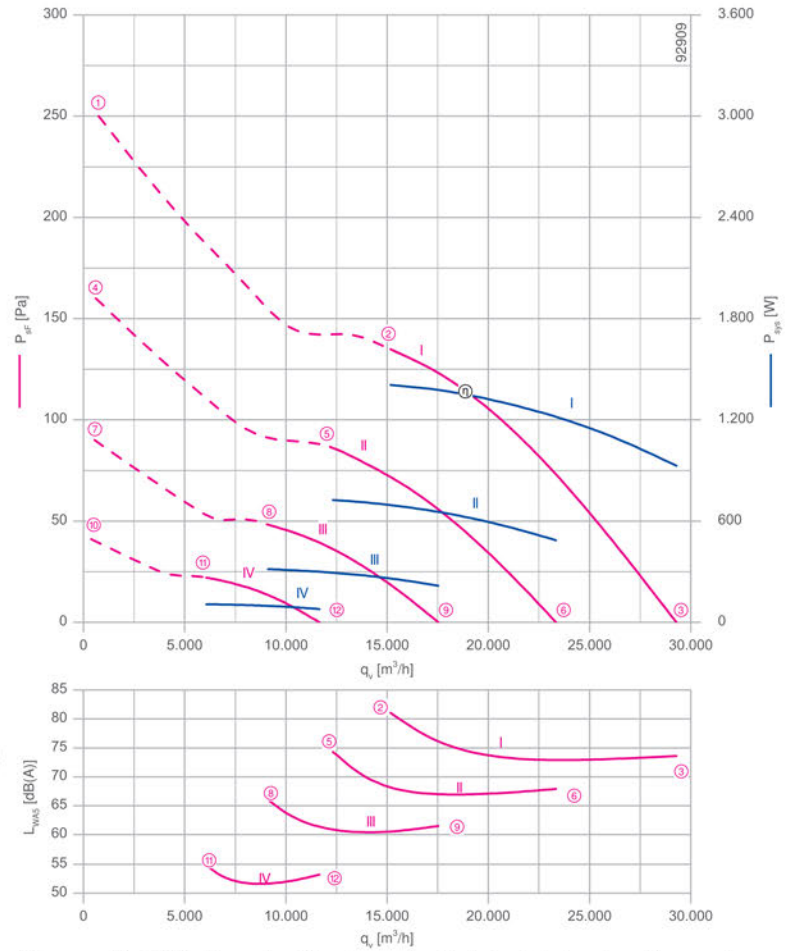
FN100



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 200-240 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 1.40 kW\*  
 Rated current  $I_N$ : 4.30- 3.60 A\*  
 Rated speed  $n_N$ : 700 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 5  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 49.7 %  
 Efficiency:  $N_{actual} = 55.2 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

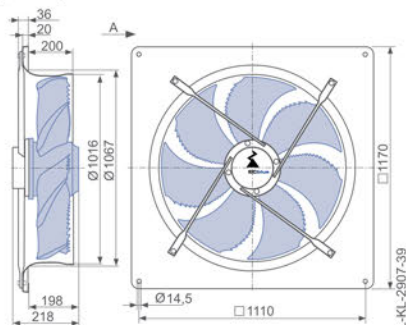
Connection diagram Page 530  
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System components Page 430

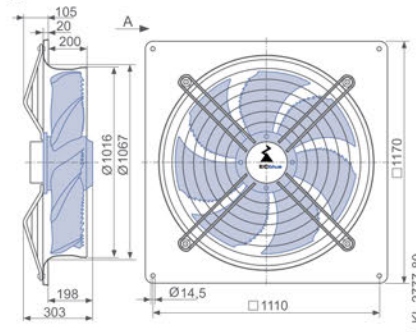
## Dimensions mm

Airflow direction A

Design Q - square full bell mouth, without guard grille

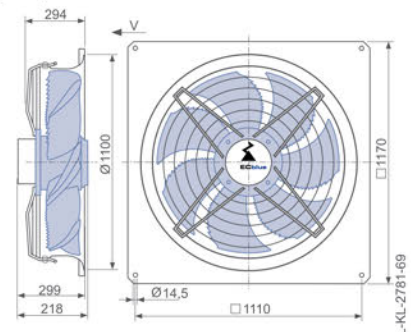


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design Q - square full bell mouth, guard grille pressure side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN100-ZL_GG_5P1	I	700	①	5.80	2200	
			②	3.70	1400	81
			③	2.50	920	74
	II	560	④	2.90	1100	
			⑤	1.95	720	75
			⑥	1.35	480	68
	III	420	⑦	1.30	480	
			⑧	0.90	320	66
			⑨	0.68	220	62
	IV	280	⑩	0.54	150	
			⑪	0.44	110	55
			⑫	0.36	80	53

Current values determined at 230V

Fan ordering information

Design	Airflow direction		
	A	V	
	Q (without guard grille)	Q (guard grille suction side)	Q (guard grille pressure side)
			
<b>Type</b>	<b>FN100-ZIQ.GG.A5P1</b>	<b>FN100-ZIQ.GG.A5P1</b>	<b>FN100-ZIQ.GG.V5P1</b>
<b>Article no.</b>	<b>159886</b>	<b>159888</b>	<b>159880</b>
<b>Weight kg</b>	51.90	56.60	56.50

Control technology

Control modules	Add-on modules	Operating terminal
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# FE2owlet-ECblue

for three phase alternating current, 200-240 V

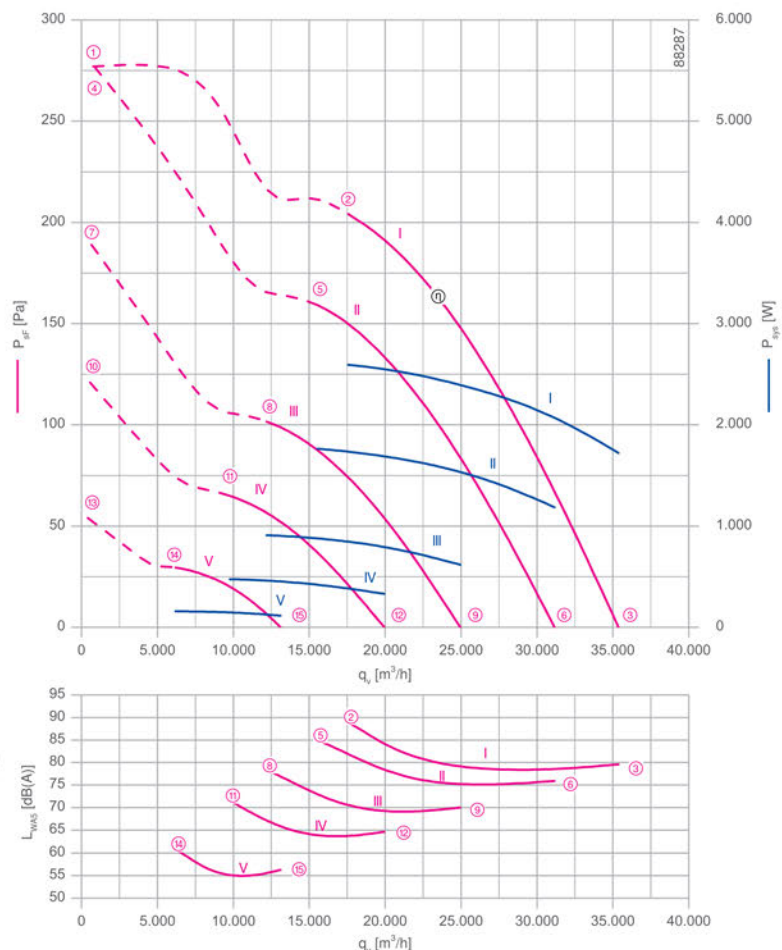
FN100



## Description

Motor technology: EC  
 Rated voltage U: 3~ 200-240 V\*  
 Rated frequency f: 50/60 Hz\*  
 Motor input power  $P_{sys}$ : 2.60 kW\*  
 Rated current I: 7.90- 6.60 A\*  
 Rated speed  $n_{max}$ : 850 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 40 °C  
 Electrical connection: integrated Controller  
 Number of blades: 5  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, Ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP Data**  
 Efficiency  $\eta_{statA}$ : 47.6 %  
 Efficiency:  $N_{actual} = 51.5 / N_{target} = 40^{**}$   
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

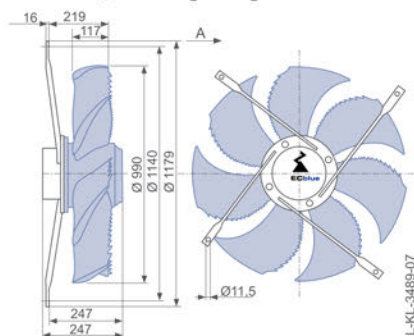
Connection diagram Page 530  
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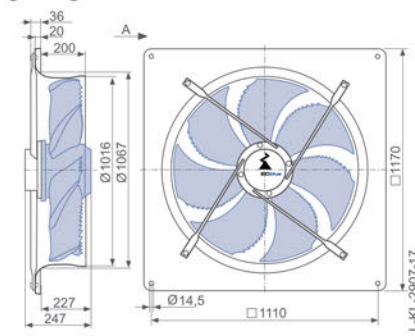
## Dimensions mm

Airflow direction A

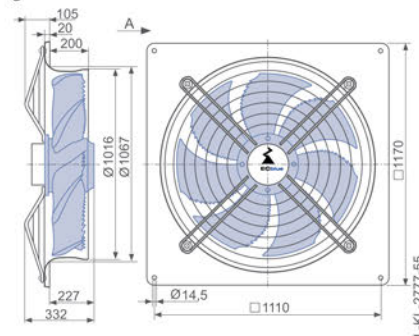
Design D - axial bolted, suspension for full bell mouth, without guard grille



Design Q - square full bell mouth, without guard grille



Design Q - square full bell mouth, guard grille suction side



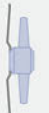

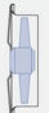





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min <sup>-1</sup>		I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)	
FN100-ZL_GL_5P1	I	850	①	6.60	2500		40
			②	6.80	2600	89	
			③	4.60	1700	80	
	II	750	④	6.60	2500		60
			⑤	4.60	1750	85	
			⑥	3.10	1200	76	
	III	600	⑦	3.70	1400		
			⑧	2.40	900	78	
			⑨	1.65	620	70	
	IV	480	⑩	1.90	720		
			⑪	1.30	480	72	
			⑫	0.94	330	65	
	V	320	⑬	0.70	230		
			⑭	0.54	160	60	
			⑮	0.44	110	56	

Current values determined at 230V

Fan ordering information

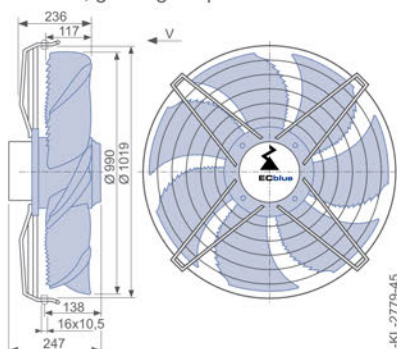
Design	Airflow direction A			Airflow direction V		
	D (without guard grille)	Q (without guard grille)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
						
Type Article no.	FN100-ZID.GL.A5P1 155751	FN100-ZIQ.GL.A5P1 155753	FN100-ZIQ.GL.A5P1 155755	FN100-ZIS.GL.V5P1 155743	FN100-ZII.GL.V5P1 155745	FN100-ZIQ.GL.V5P1 155747
Weight kg	36.60	56.10	60.60	42.20	41.70	60.90

Control technology

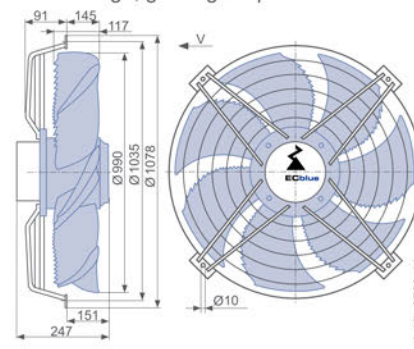
Control modules	Add-on modules	Operating terminal
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Airflow direction V

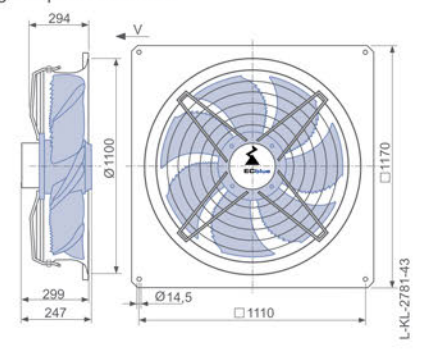
Design S - radially bolted, mounted for short bell mouth, guard grille pressure side



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



Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for three phase alternating current, 380-480 V

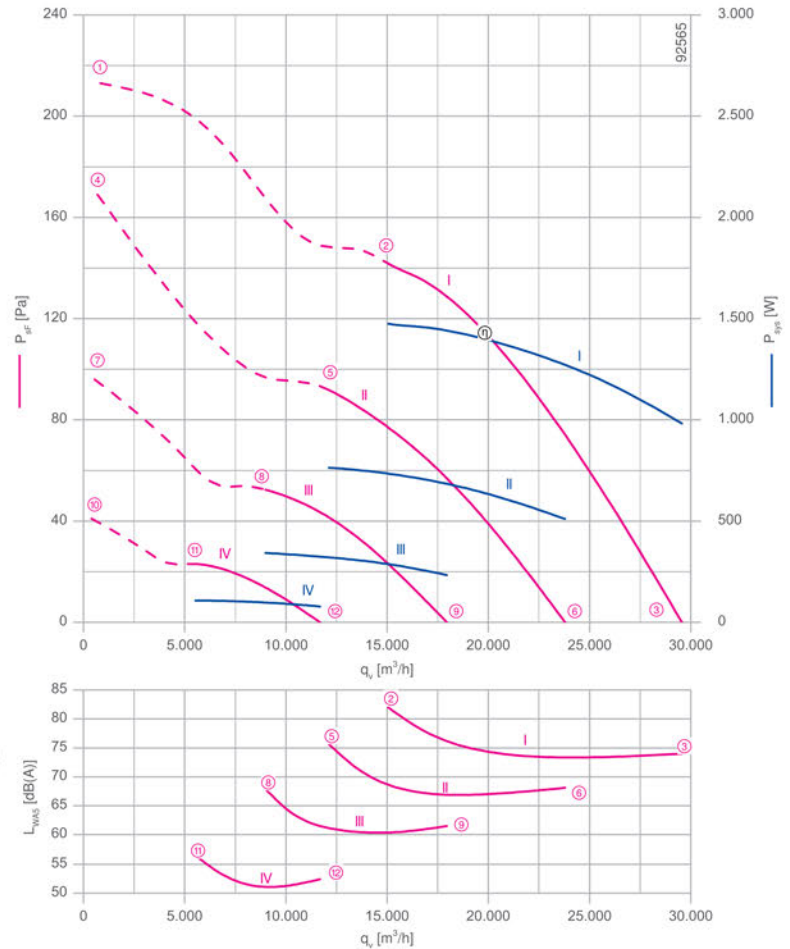
FN100



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 1.50 kW\*  
 Rated current  $I_N$ : 2.60- 2.00 A\*  
 Rated speed  $n_N$ : 710 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 5  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 49.9 %  
 Efficiency:  $N_{actual} = 55.4 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

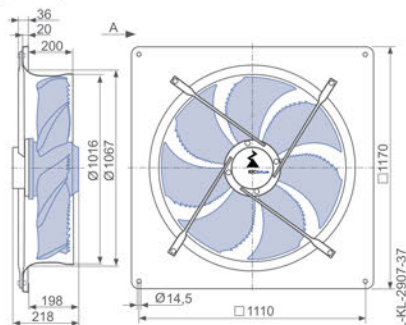
Connection diagram Page 530  
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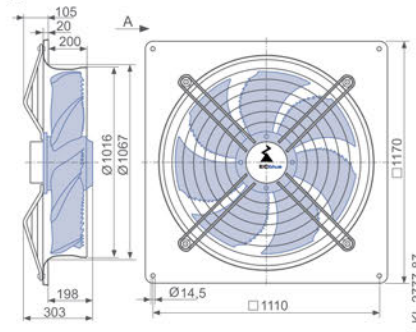
## Dimensions mm

Airflow direction A

Design Q - square full bell mouth, without guard grille

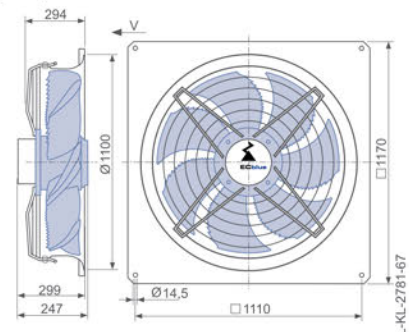


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design Q - square full bell mouth, guard grille pressure side



### Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		$n$ $min^{-1}$		I A	$P_{sys}$ W	
FN100-ZL_GG_5P1	I	710	①	2.70	1700	
			②	2.40	1500	82
			③	1.65	980	74
	II	570	④	1.95	1150	
			⑤	1.35	760	76
			⑥	0.94	520	68
	III	430	⑦	0.96	500	
			⑧	0.70	340	68
			⑨	0.52	230	62
	IV	280	⑩	0.38	150	
			⑪	0.30	110	55
			⑫	0.25	80	52

Current values determined at 400V

### Fan ordering information

Design	Airflow direction		
	A	V	V
	Q (without guard grille)	Q (guard grille suction side)	Q (guard grille pressure side)
			
<b>Type</b>	<b>FN100-ZIQ.GG.A5P1</b>	<b>FN100-ZIQ.GG.A5P1</b>	<b>FN100-ZIQ.GG.V5P1</b>
<b>Article no.</b>	<b>154881</b>	<b>154885</b>	<b>154869</b>
<b>Weight kg</b>	51.90	56.40	56.50

### Control technology

Control modules	Add-on modules	Operating terminal
		
Page 452	Page 463	Page 472



# FE2owlet-ECblue

for three phase alternating current, 380-480 V

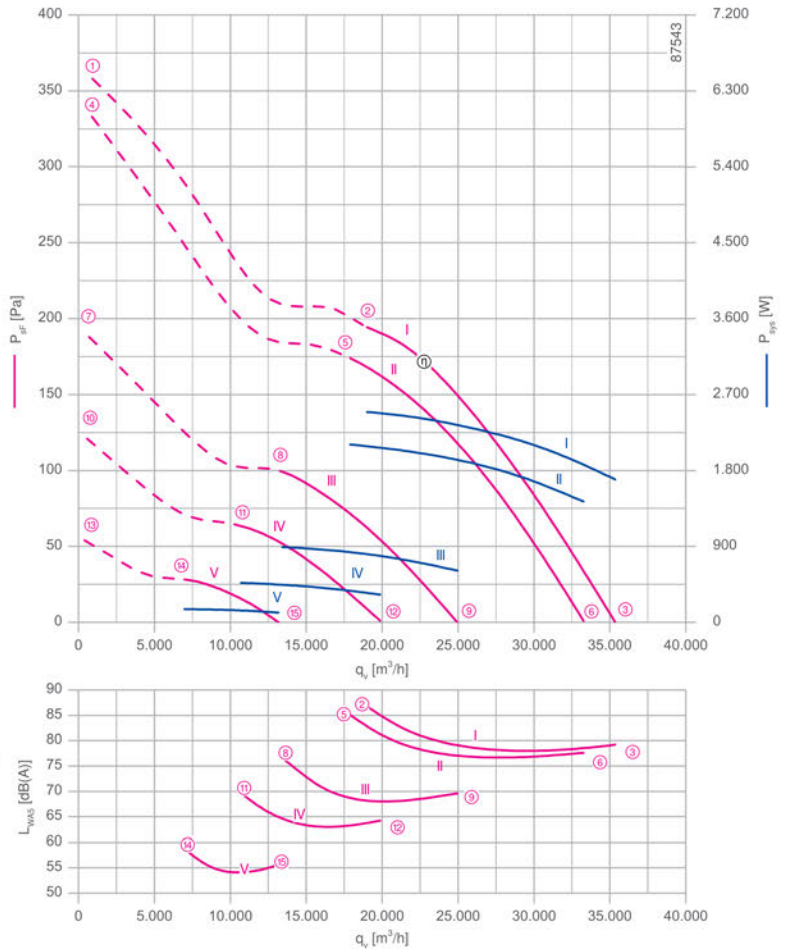
FN100



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 2.50 kW\*  
 Rated current  $I_N$ : 4.00- 3.20 A\*  
 Rated speed  $n_N$ : 850 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 55 °C  
 Electrical connection: integrated Controller  
 Number of blades: 5  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Steel, 2 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 48.7 %  
 Efficiency:  $N_{actual} = 52.7 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

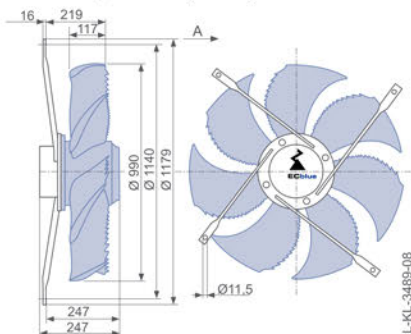
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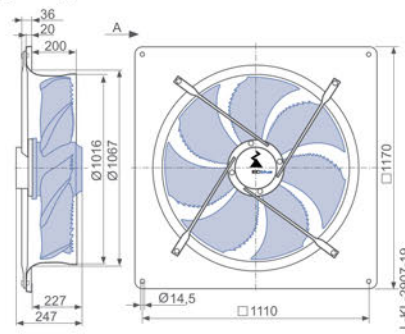
## Dimensions mm

Airflow direction A

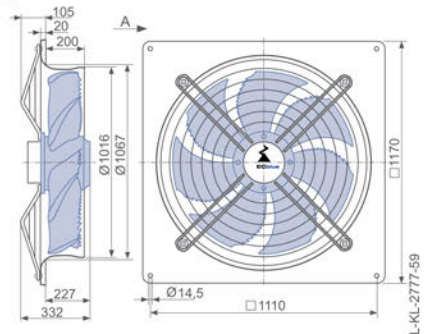
Design D - axial bolted, suspension for full bell mouth, without guard grille



Design Q - square full bell mouth, without guard grille



Design Q - square full bell mouth, guard grille suction side



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)	Maximum ambient temperature $t_R$ °C
		$n$ $min^{-1}$		I A	$P_{sys}$ W		
FN100-ZL_GL_5P1	I	850	①	5.40	3600	87	55
			②	3.80	2500		
			③	2.60	1700		
	II	800	④	5.00	3300	79	60
			⑤	3.20	2100		
			⑥	2.20	1450		
	III	600	⑦	2.10	1350	78	70
			⑧	1.45	900		
			⑨	1.05	620		
	IV	480	⑩	1.20	700	77	70
			⑪	0.86	460		
			⑫	0.68	330		
	V	320	⑬	0.54	230	70	64
			⑭	0.42	160		
			⑮	0.36	110		

Current values determined at 400V

Fan ordering information

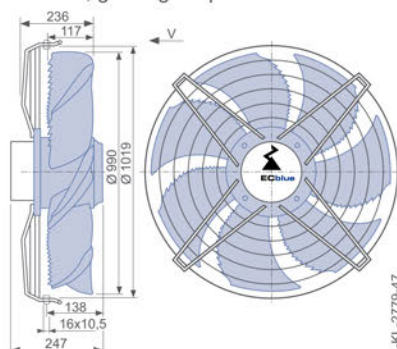
Airflow direction A			Airflow direction V			
Design	D (without guard grille)	Q (without guard grille)	Q (guard grille suction side)	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
Type Article no.	FN100-ZID.GL.A5P1 154879	FN100-ZIQ.GL.A5P1 154883	FN100-ZIQ.GL.A5P1 154887	FN100-ZIS.GL.V5P1 154859	FN100-ZII.GL.V5P1 154867	FN100-ZIQ.GL.V5P1 154871
Weight kg	36.60	56.10	60.70	42.20	41.70	60.90

Control technology

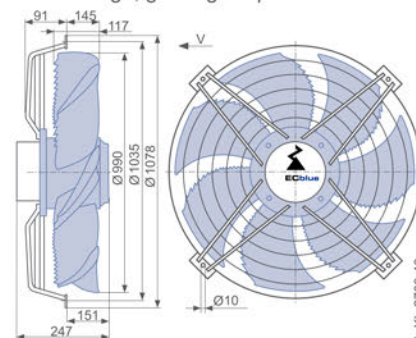
Control modules	Add-on modules	Operating terminal
Page 452	Page 463	Page 472

Airflow direction V

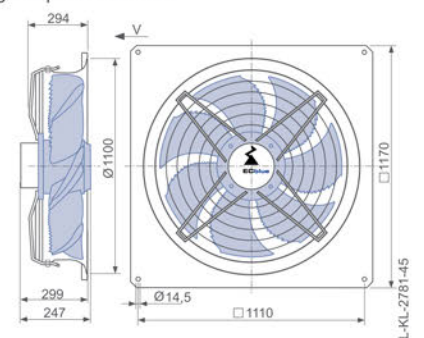
Design S - radially bolted, mounted for short bell mouth, guard grille pressure side



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



Design Q - square full bell mouth, guard grille pressure side



# FE2owlet-ECblue

for three phase alternating current, 200-240 V

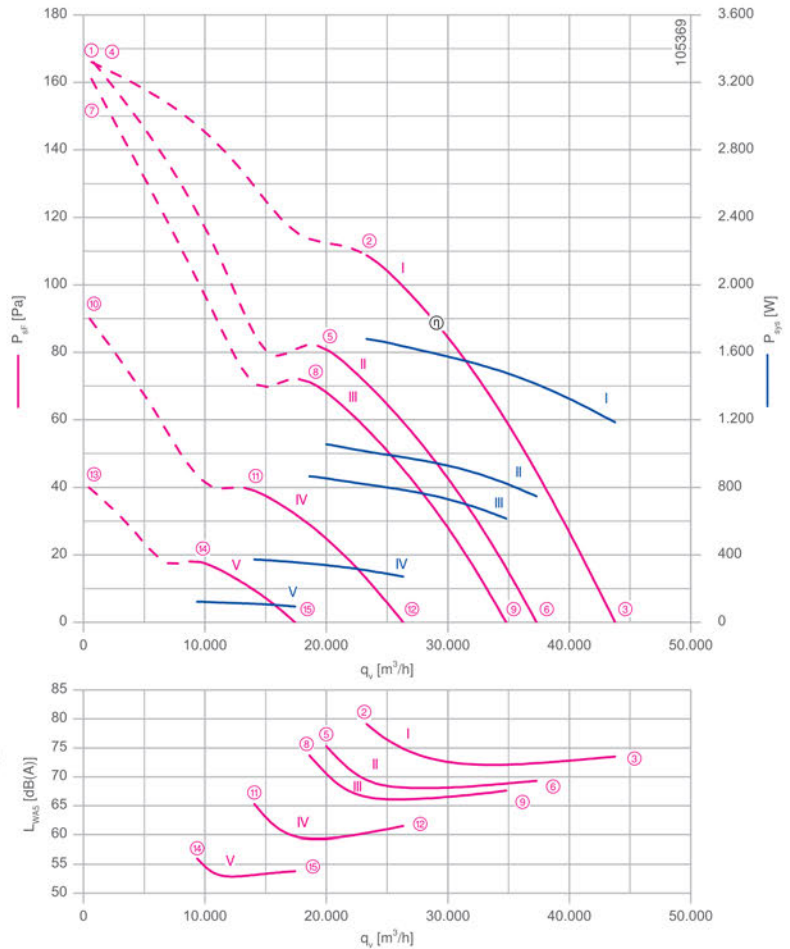
FN125



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3~ 200-240 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 1.70 kW\*  
 Rated current  $I_N$ : 5.20- 4.40 A\*  
 Rated speed  $n_N$ : 550 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 3  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, 1 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 49.6 %  
 Efficiency:  $N_{actual} = 54.7 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

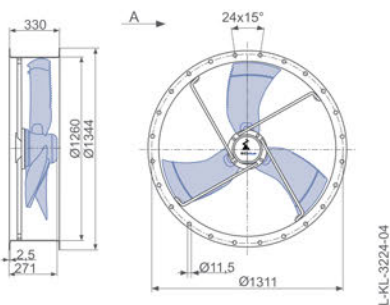
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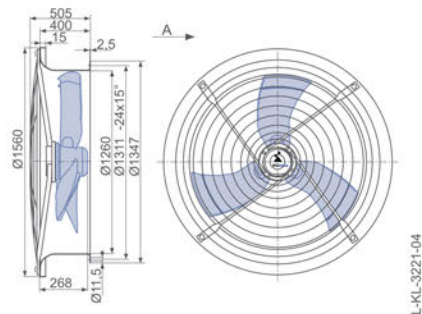
## Dimensions mm

Airflow direction A

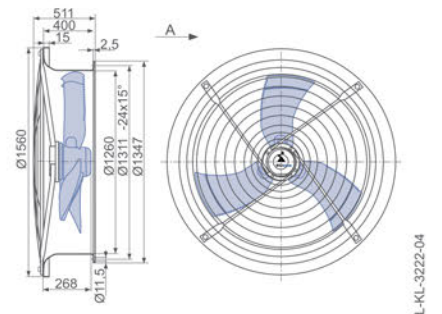
Design F - flange ring with two flanges, without guard grille



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



Design L - round full bell mouth, guard grille two-sided





Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)	Maximum ambient temperature $t_R$ °C
		$n$ $min^{-1}$		I A	$P_{sys}$ W		
FN125-ZL_GL_3P1	I	550	①	4.20	1600		60
			②	4.40	1700	79	
			③	3.20	1200	74	
	II	470	④	4.20	1600		70
			⑤	2.80	1050	75	
			⑥	2.00	740	69	
	III	440	⑦	4.00	1500		
			⑧	2.30	860	74	
			⑨	1.70	620	68	
	IV	330	⑩	1.70	620		
			⑪	1.05	370	66	
			⑫	0.84	270	62	
	V	220	⑬	0.64	190		
			⑭	0.48	120	56	
			⑮	0.40	95	54	

Current values determined at 230V

Fan ordering information

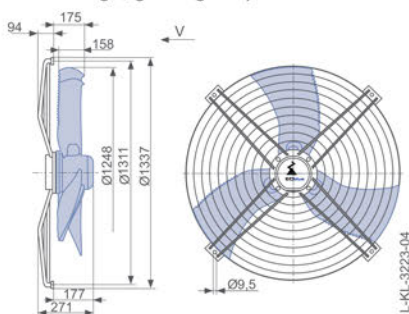
	Airflow direction A			Airflow direction V		
Design	F (without guard grille)	L (guard grille suction side)	L (guard grille two-sided)	I (guard grille pressure side)	L (guard grille pressure side)	L (guard grille two-sided)
Type Article no.	FN125-ZIF.GL.A3P1 167516	FN125-ZIL.GL.A3P1 167510	FN125-ZIL.GL.A3P1 167511	FN125-ZII.GL.V3P1 167515	FN125-ZIL.GL.V3P1 167509	FN125-ZIL.GL.V3P1 167508
Weight kg	70.50	91.40	97.50	43.90	89.60	97.30

Control technology

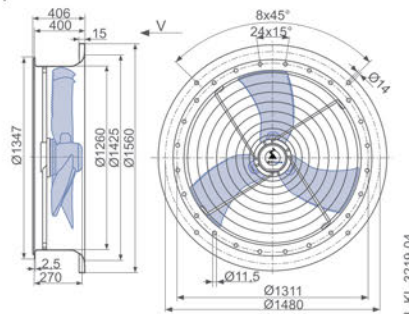
Control modules	Sensor control modules	Add-on modules	Operating terminal
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Airflow direction V

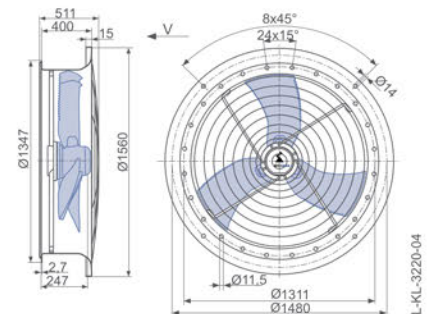
Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



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



Design L - round full bell mouth, guard grille two-sided



# FE2owlet-ECblue

for three phase alternating current, 200-240 V

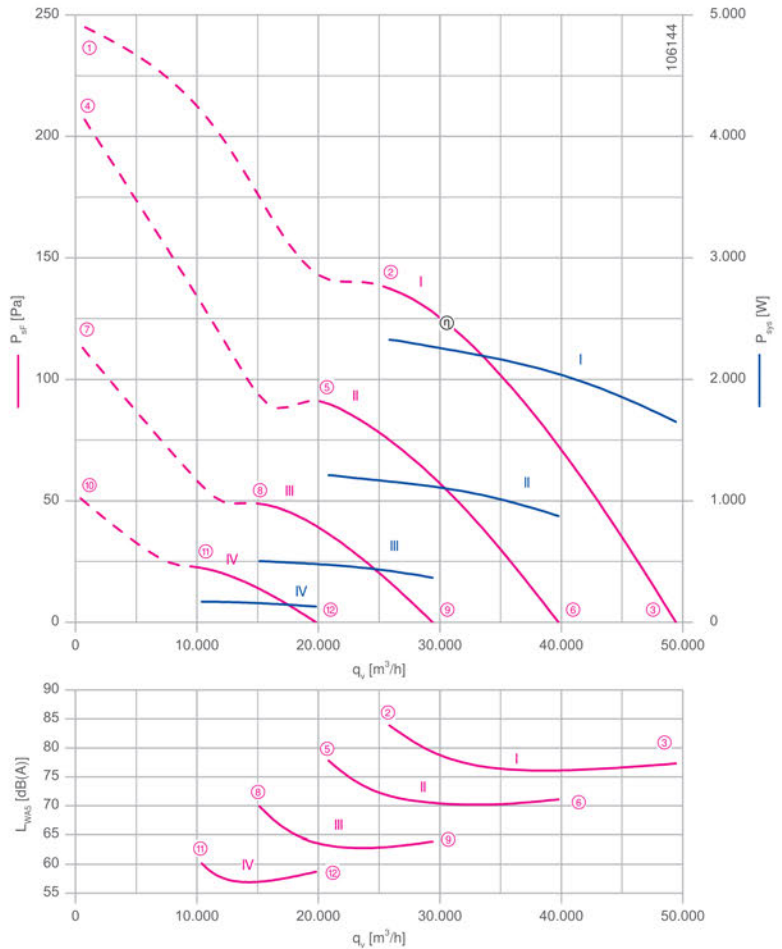
FN125



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3~ 200-240 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 2.30 kW\*  
 Rated current  $I_N$ : 7.20- 6.00 A\*  
 Rated speed  $n_N$ : 620 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 3  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, 1 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 50.1 %  
 Efficiency:  $N_{actual} = 54.3 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

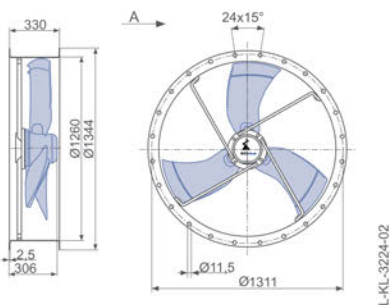
Connection diagram Page 530  
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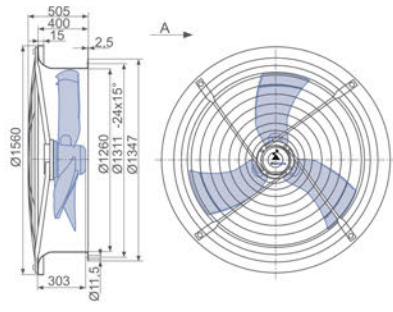
## Dimensions mm

Airflow direction A

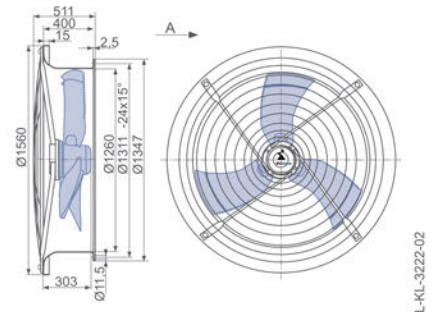
Design F - flange ring with two flanges, without guard grille



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



Design L - round full bell mouth, guard grille two-sided



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level $L_{WAS}$ dB(A)
		n min <sup>-1</sup>		I A	$P_{sys}$ W	
FN125-ZL_GQ_3P1	I	620	①	7.20	2800	
			②	6.20	2300	84
			③	4.40	1650	77
	II	500	④	5.60	2100	
			⑤	3.20	1200	78
			⑥	2.40	880	71
	III	370	⑦	2.30	840	
			⑧	1.40	500	70
			⑨	1.05	370	64
	IV	250	⑩	0.84	270	
			⑪	0.60	170	60
			⑫	0.52	130	59

Current values determined at 230V

Fan ordering information

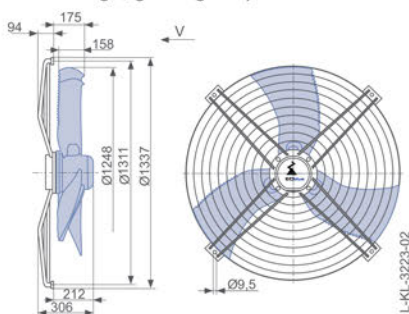
Airflow direction A			Airflow direction V			
Design	F (without guard grille)	L (guard grille suction side)	L (guard grille two-sided)	I (guard grille pressure side)	L (guard grille pressure side)	L (guard grille two-sided)
Type	FN125-ZIF.GQ.A3P1	FN125-ZIL.GQ.A3P1	FN125-ZIL.GQ.A3P1	FN125-ZII.GQ.V3P1	FN125-ZIL.GQ.V3P1	FN125-ZIL.GQ.V3P1
Article no.	167496	167490	167491	167495	167489	167488
Weight kg	76.40	97.30	103.40	49.80	95.50	103.20

Control technology

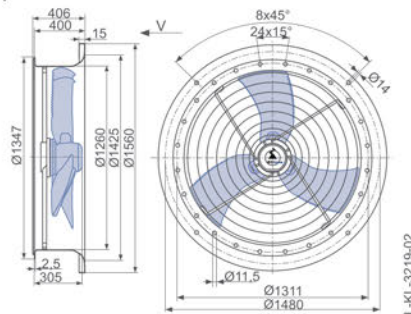
Control modules	Sensor control modules	Add-on modules	Operating terminal
Page 452	Page 454	Page 463	Page 472

Airflow direction V

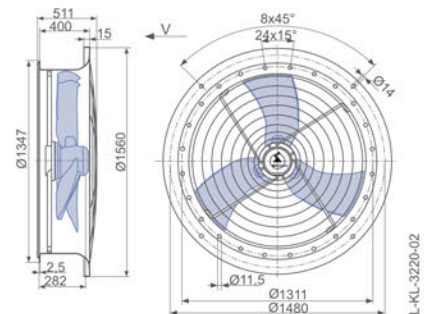
Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



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



Design L - round full bell mouth, guard grille two-sided





# FE2owlet-ECblue

for three phase alternating current, 380-480 V

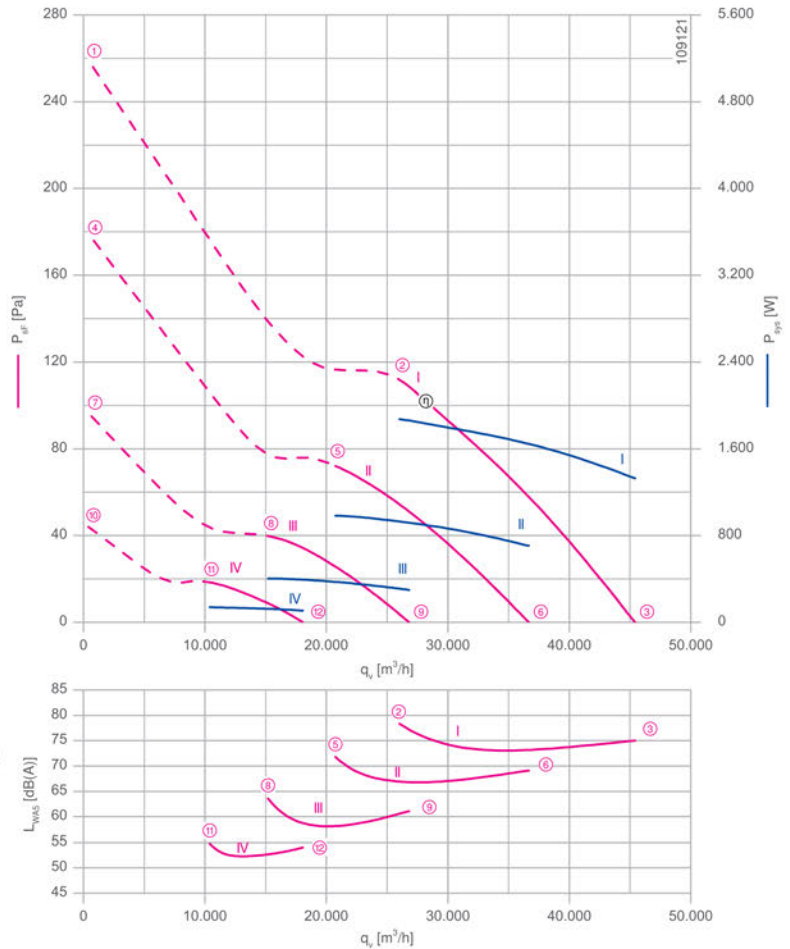
FN125



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 1.90 kW\*  
 Rated current  $I_N$ : 3.10- 2.40 A\*  
 Rated speed  $n_N$ : 570 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 3  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, 1 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 47.8 %  
 Efficiency:  $N_{actual} = 52.5 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

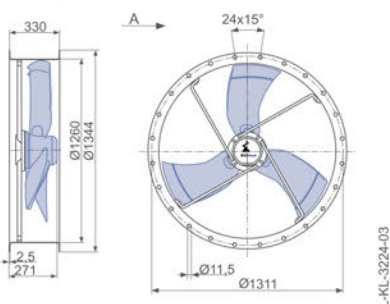
Connection diagram Page 530  
1360-403

System components Page 430

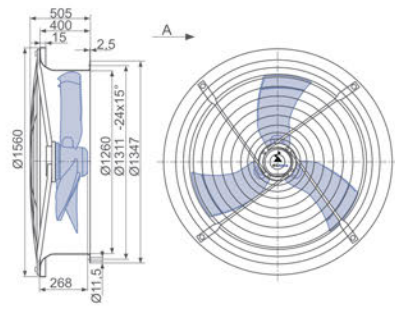
## Dimensions mm

Airflow direction A

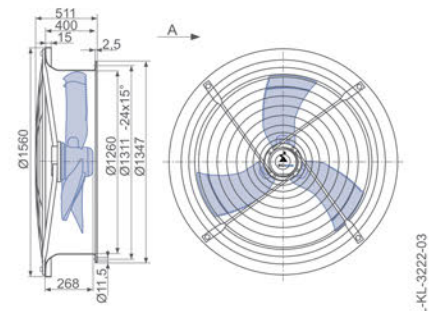
Design F - flange ring with two flanges, without guard grille



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



Design L - round full bell mouth, guard grille two-sided



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level	Maximum ambient temperature
		n min <sup>-1</sup>		I A	P <sub>sys</sub> W	L <sub>WAS</sub> dB(A)	
FN125-ZL_GL_3P1	I	570	①	4.80	3200		60
			②	2.90	1900	79	
			③	2.10	1350	75	
	II	460	④	2.70	1700		70
			⑤	1.60	980	72	
			⑥	1.20	700	69	
	III	340	⑦	1.20	680		
			⑧	0.86	400	63	
			⑨	0.70	300	61	
	IV	230	⑩	0.60	220		
			⑪	0.46	140	55	
			⑫	0.39	110	54	

Current values determined at 400V

Fan ordering information

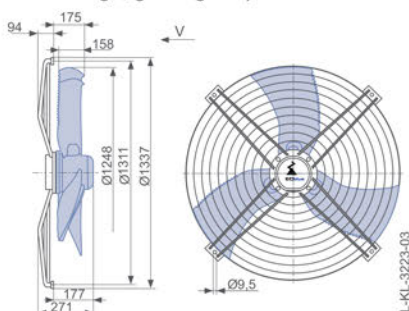
Airflow direction A			Airflow direction V			
Design	F (without guard grille)	L (guard grille suction side)	L (guard grille two-sided)	I (guard grille pressure side)	L (guard grille pressure side)	L (guard grille two-sided)
Type	FN125-ZIF.GL.A3P1	FN125-ZIL.GL.A3P1	FN125-ZIL.GL.A3P1	FN125-ZII.GL.V3P1	FN125-ZIL.GL.V3P1	FN125-ZIL.GL.V3P1
Article no.	167506	167500	167501	167505	167499	167498
Weight kg	70.50	91.40	97.50	43.90	89.60	97.30

Control technology

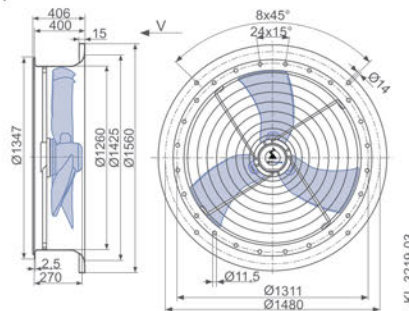
Control modules	Sensor control modules	Add-on modules	Operating terminal
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Airflow direction V

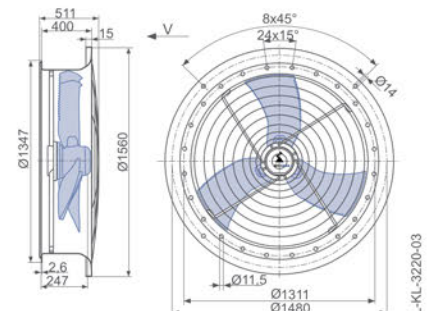
Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



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



Design L - round full bell mouth, guard grille two-sided



# FE2owlet-ECblue

for three phase alternating current, 380-480 V

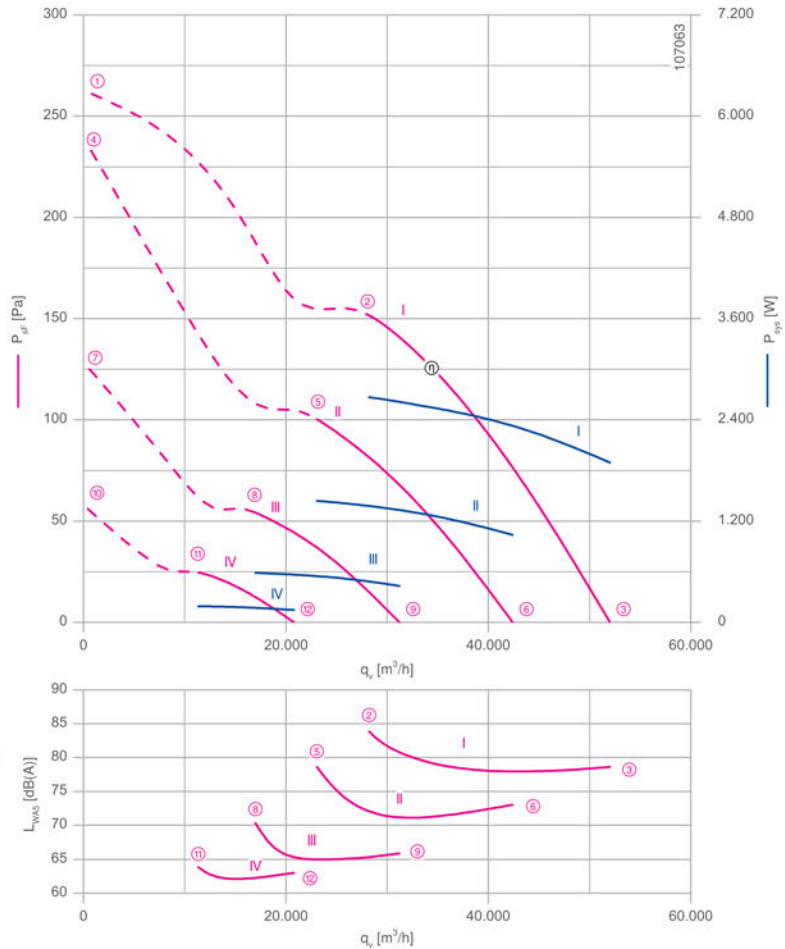
FN125



## Description

Motor technology: EC  
 Rated voltage  $U_N$ : 3- 380-480 V\*  
 Rated frequency  $f_N$ : 50/60 Hz\*  
 Input power  $P_{sys}$ : 2.70 kW\*  
 Rated current  $I_N$ : 4.40- 3.40 A\*  
 Rated speed  $n_N$ : 650 min<sup>-1</sup>\*  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: integrated Controller  
 Number of blades: 3  
 Protection class: IP54  
 Motor protection: Integrated active temperature management  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, 1 coat paint, ultramarine blue  
 Conformity: ErP 2015, CE, UL  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 51.0 %  
 Efficiency:  $N_{actual} = 54.7 / N_{target} = 40$ \*\*  
 EC controller integrated  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



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

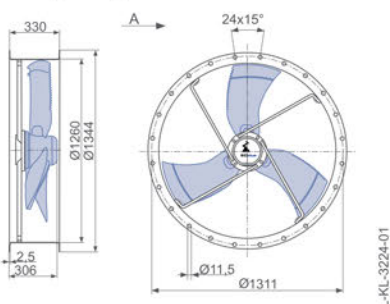
Connection diagram Page 530  
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System components Page 430

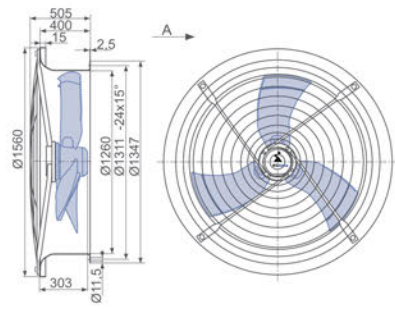
## Dimensions mm

Airflow direction A

Design F - flange ring with two flanges, without guard grille



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



Design L - round full bell mouth, guard grille two-sided

