

FE 2 owlet-EC blue

for three phase alternating current, 380-480 V

F N 0 8 0



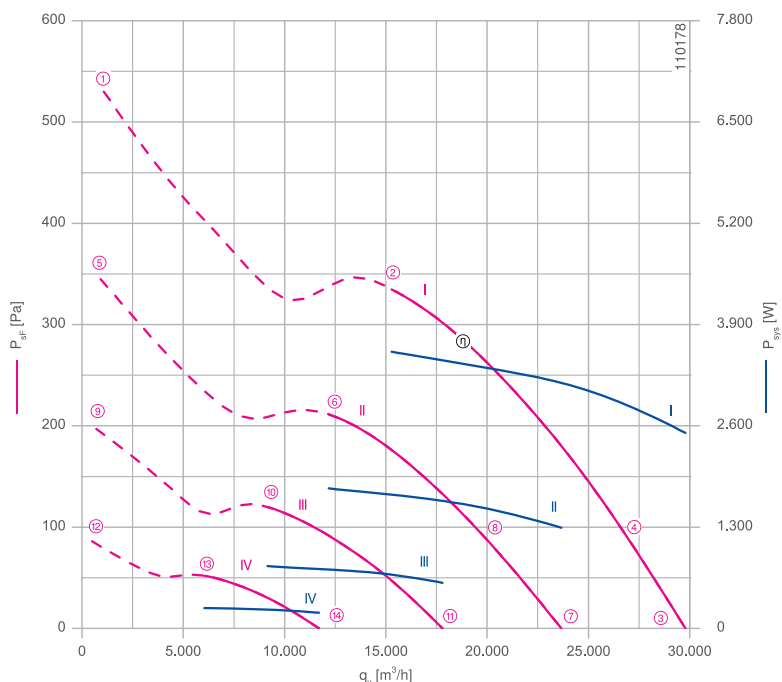
Description

Motor technology: EC
Rated voltage U_N : 3~ 380-480 V*
Rated frequency f_N : 50/60 Hz*
Input power P_{sys} : 3.60 kW*
Rated current I_N : 5.80- 4.60 A*
Rated speed n_N : 1180 min⁻¹*
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
Degree of protection : IP55
Motor protection: Integrated active temperature management
Blades: Aluminium, powder-coated, ultramarine blue
Rotor: Aluminium, 2 coat paint, ultramarine blue
Conformity: ErP 2015, CE, UL

ErP-data

Efficiency η_{statA} : 47.5 %
Efficiency: $N_{actual} = 50.5 / N_{target} = 40^{**}$
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 172
1360-403

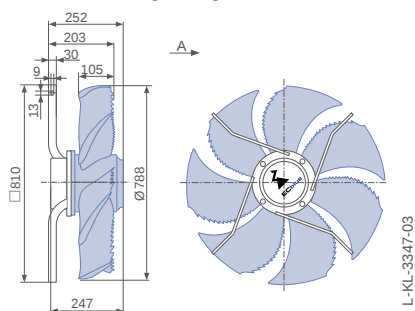
System components

Page 110

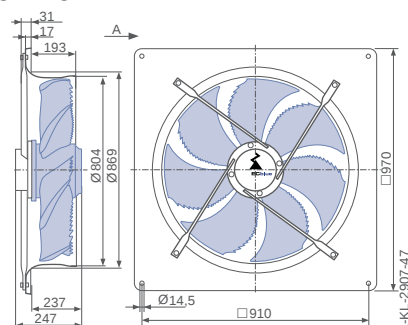
Dimensions mm

Airflow direction A

Design T - for installation in chimney ex-hausts, without guard grille

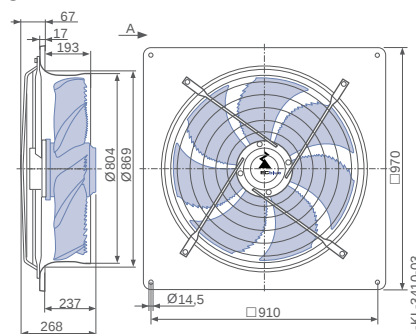


Design Q - square full bell mouth, without guard grille



Wall ring plate made of galvanized sheet steel

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



Wall ring plate made of galvanized sheet steel



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Acoustic pressure level 7m	Specific power
		n min ⁻¹		I A	P _{sys} W	L _{pA} dB(A)	P _{spez} Wh/1000m³
FN080-ZI_GL_7P3	I	1180	①	7.40	4800		
			②	5.40	3600		234.3
			③	3.90	2500	56	84.3
			④	4.40	2900	55	109.9
	II	940	⑤	3.80	2500		
			⑥	2.80	1800		149.0
			⑦	2.10	1300	51	54.6
			⑧	2.50	1600	48	81.3
	III	710	⑨	1.75	1100		
			⑩	1.35	800		87.9
			⑪	1.05	580	45	32.8
	IV	470	⑫	0.76	340		
			⑬	0.64	260		43.8
			⑭	0.54	200	37	17.2

Current values determined at 400V

Fan ordering information

Airflow direction A			
Design	T (without guard grille)	Q (without guard grille)	Q (guard grille suction side)
			
Type	FN080-ZIT.GL.A7P3	FN080-ZIQ.GL.A7P3	FN080-ZIQ.GL.A7P3
Article no.	168012	168013	168014
Wall ring plate		Wall ring plate made of galvanized sheet steel	Wall ring plate made of galvanized sheet steel
Weight kg	34.80	49.60	53.40

Control technology

Control module UNIcon Zenec switch

	
Page 130	Page 158

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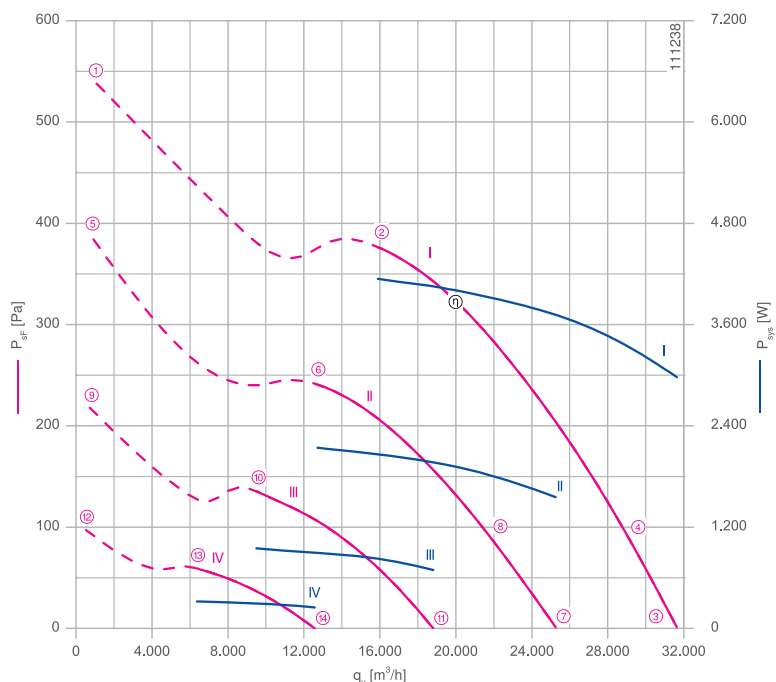
Description

Motor technology: EC
Rated voltage U_N : 3~ 380-480 V*
Rated frequency f_N : 50/60 Hz*
Input power P_{sys} : 4.20 kW*
Rated current I_N : 6.60- 5.20 A*
Rated speed n_N : 1250 min⁻¹*
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
Degree of protection : IP55
Motor protection: Integrated active temperature management
Blades: Aluminium, powder-coated, ultramarine blue
Rotor: Aluminium, 2 coat paint, ultramarine blue
Conformity: ErP 2015, CE, UL

ErP-data

Efficiency η_{statA} : 48.8 %
Efficiency: $N_{actual} = 51.4 / N_{target} = 40^{**}$
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 172
1360-403

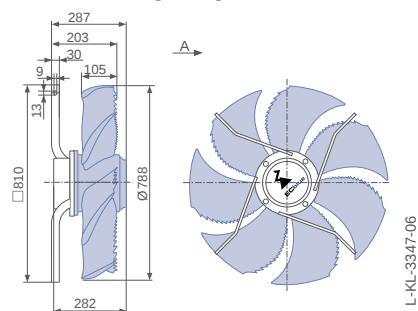
System components

Page 110

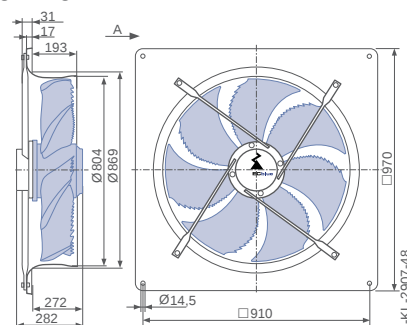
Dimensions mm

Airflow direction A

Design T - for installation in chimney ex-hausts, without guard grille

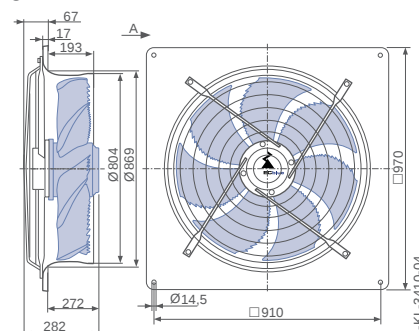


Design Q - square full bell mouth, without guard grille



Wall ring plate made of galvanized sheet steel

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



Wall ring plate made of galvanized sheet steel



Performance data

Type	Characteristic curve	Speed	Operating point	Current	Input power	Acoustic pressure level 7m	Specific power
		n min ⁻¹		I A	P _{sys} W	L _{pA} dB(A)	P _{spez} Wh/1000m³
FN080-ZI_GQ_7P3	I	1250	①	7.40	4800		
			②	6.40	4200		261.9
			③	4.60	3000	59	94.1
			④	5.20	3400	58	117.7
	II	1000	⑤	4.60	2900		
			⑥	3.30	2100		168.8
			⑦	2.50	1550	53	61.6
			⑧	2.90	1850	51	86.3
	III	750	⑨	2.00	1250		
			⑩	1.55	940		100.0
			⑪	1.20	700	46	36.7
	IV	500	⑫	0.84	420		
			⑬	0.70	320		50.6
			⑭	0.60	250	39	19.7

Current values determined at 400V

Fan ordering information

Airflow direction A			
Design	T (without guard grille)	Q (without guard grille)	Q (guard grille suction side)
			
Type	FN080-ZIT.GQ.A7P3	FN080-ZIQ.GQ.A7P3	FN080-ZIQ.GQ.A7P3
Article no.	168017	168018	168019
Wall ring plate		Wall ring plate made of galvanized sheet steel	Wall ring plate made of galvanized sheet steel
Weight kg	40.90	56.40	60.20

Control technology

Control module UNIcon Zenec switch

	
Page 130	Page 158