



Description

Motor technology: EC

Rated voltage U: 3~ 380-480 V*

Rated frequency f: **50/60 Hz***

Motor input power P_{sys} : **0.68 kW***

Rated current I: 1.28- 0.98 A*

Rated speed $n_{\max}$: **570 min⁻¹***

Thermal class: **THCL155***

Min. permitted conveyor temperature $t_{B(min)}$: -35 °C

Max. permitted conveyor 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 η_{statA} : 45.8 %

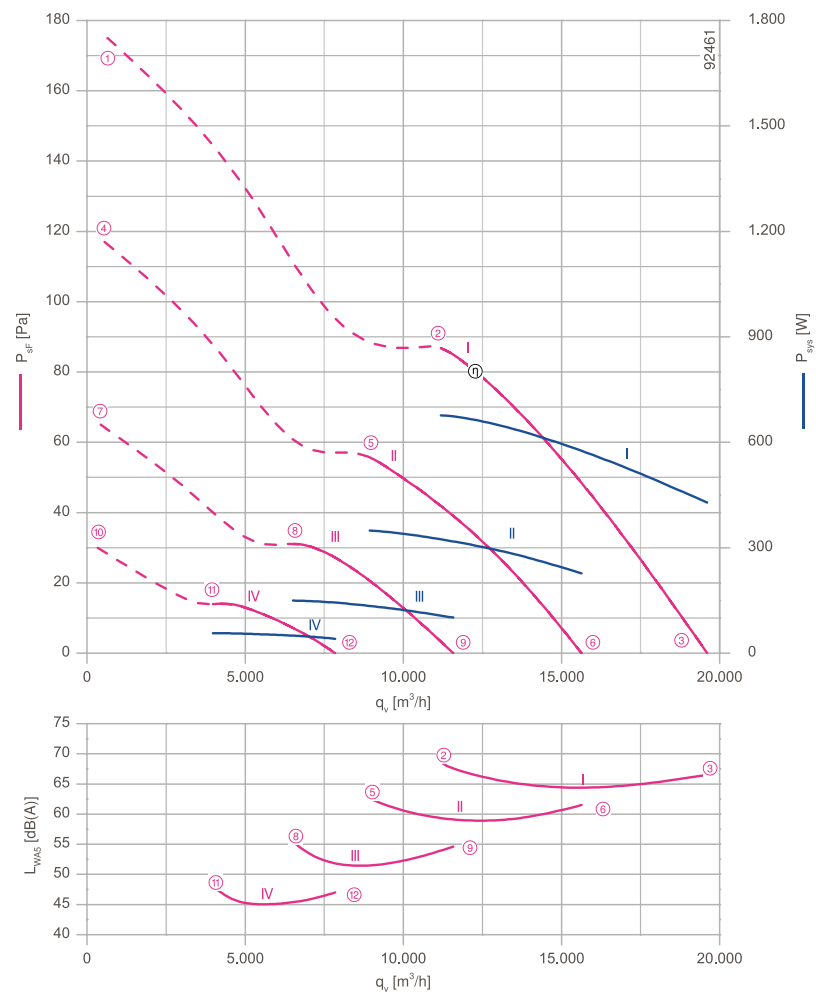
Efficiency: $N_{\text{actual}} = 46.8 / N_{\text{target}} = 40^{**}$

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 1360-401 Page 607

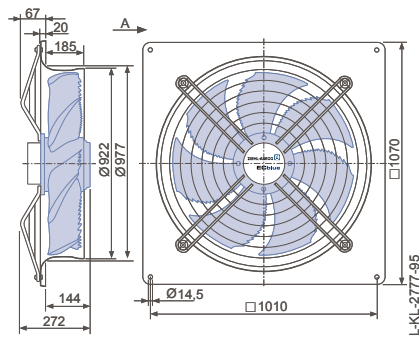
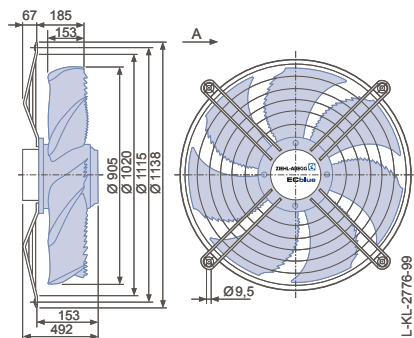
System components Page 524

Dimensions [mm]

Airflow direction A

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

Design Q - square, full bell mouth



		n [min ⁻¹]		I [A]	P _{sys} [W]	power level L _{WA5} [dB]
FN091-ZI_DG._4P3	I	570	①	1.70	1050	
		570	②	1.15	680	69
		570	③	0.82	420	67
	II	460	④	1.00	540	
		460	⑤	0.72	350	63
		460	⑥	0.52	230	62
	III	340	⑦	0.52	230	
		340	⑧	0.38	150	55
		340	⑨	0.29	100	55
	IV	230	⑩	0.23	80	
		230	⑪	0.19	55	46
		230	⑫	0.17	42	47

Current values determined at 400V

Fan ordering information

Airflow direction A			Airflow direction V		
Design	D	Q	Q	S	I
					
Type	FN091-ZID.DG.A4P3	FN091-ZIQ.DG.A4P3	FN091-ZIQ.DG.V4P3	FN091-ZIS.DG.V4P3	FN091-ZII.DG.V4P3
Basic electronics					
Article no.	159791	159793	159785	159787	159783
Premium electronics					
Article no.	159792	159794	159786	159788	159784
Weight [kg]	19.50	36.00	36.50	19.90	19.90

Control technology

Control module	Operating terminal	Expansion module
		
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Airflow direction V		
Design Q - square, full bell mouth	Design S - radially bolted, mounting for full bell mouth Q and L	Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L
