



Description

Motor technology: EC

Rated voltage U: 1~ 200-277 V*

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

Motor input power P_{sys} : **0.40 kW***

Rated current I: **2.20- 1.60 A***

Rated speed $n_{\max}$: **480 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} : 46.5 %

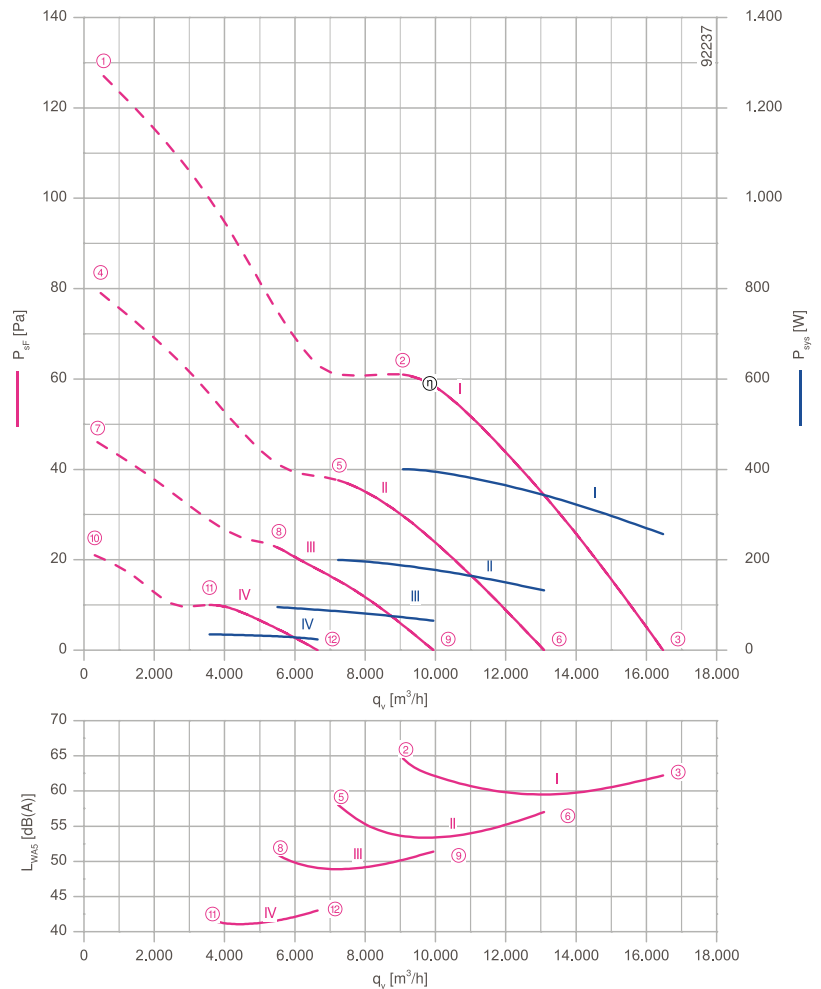
Efficiency: $N_{\text{actual}} = 55.4 / N_{\text{target}} = 40^{**}$

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

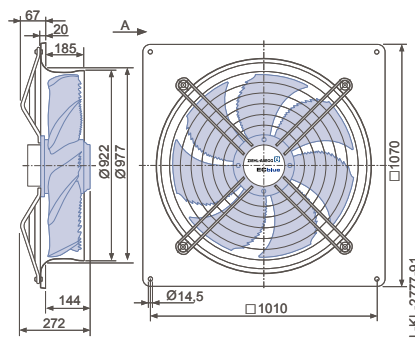
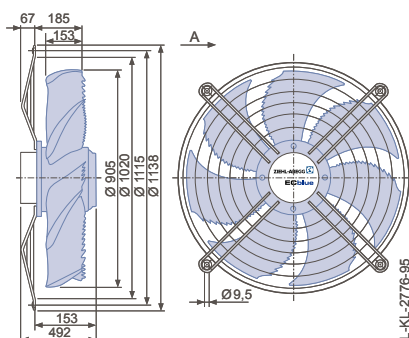
System components Page 524

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	480	①	3.00	640	
		480	②	1.90	400	65
		480	③	1.15	260	62
	II	380	④	1.45	310	
		380	⑤	0.90	200	58
		380	⑥	0.62	130	57
	III	290	⑦	0.66	140	
		290	⑧	0.48	95	51
		290	⑨	0.37	65	51
	IV	190	⑩	0.31	48	
		190	⑪	0.25	34	42
		190	⑫	0.32	24	43

Current values determined at 230V

Fan ordering information

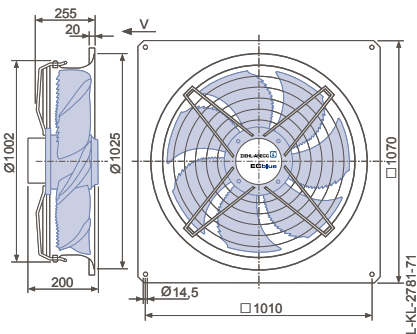
Airflow direction A			Airflow direction V		
Design	D	Q	Q	S	I
					
Design	FN091-ZID.DG.A4P3	FN091-ZIQ.DG.A4P3	FN091-ZIQ.DG.V4P3	FN091-ZIS.DG.V4P3	FN091-ZII.DG.V4P3
Basic electronics					
Article no.	159819	159821	159813	159815	159811
Premium electronics					
Article no.	159820	159822	159814	159816	159812
Weight [kg]	19.50	36.00	36.50	19.90	19.90

Control technology

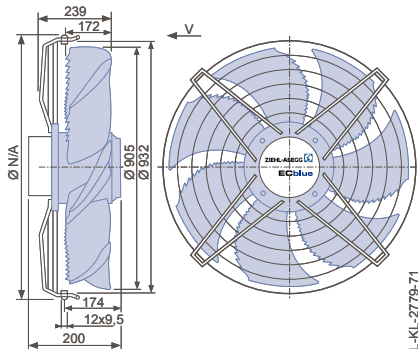
Control module	Operating terminal	Expansion module
		
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Airflow direction V

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

