



Description

Motor technology: AC

Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*

Rated frequency f_N : 50 Hz*

Motor input power P_i : 1.80/1.15 kW*

Rated current I_N : 3.90/2.20 A*

Rated speed n_N : 900/ 700 min⁻¹*

Starting current I_A : 13.00 A / 3.80 A

Current increase ΔI : 5 %

Thermal class: THCL155*

Min. permitted conveyor temperature $t_{R(min)}$: -40 °C

Max. permitted conveyor temperature $t_{R(max)}$: 65 °C

Electrical connection: Terminal box

Number of blades: 7

Protection class: IP54

Motor protection: Thermal contact

Blades: Aluminium, uncoated

Rotor: Aluminium, uncoated

Conformity: ErP 2015, CE

ErP Data

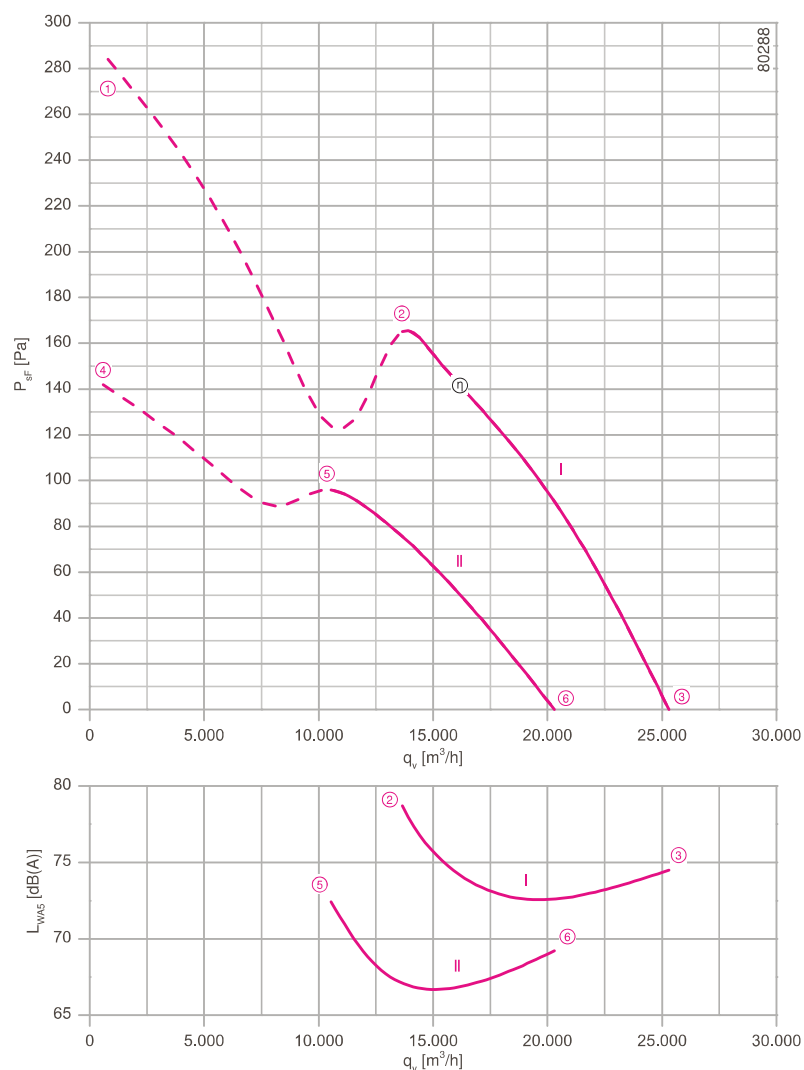
Efficiency η_{statA} : 36.8 %

Efficiency: $N_{actual} = 41.5 / N_{target} = 40$ **

* Rated data

**ErP 2015

Characteristic curve



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

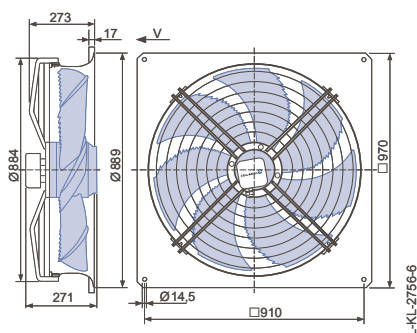
➤ Connection diagram 1360-108XA Page 608

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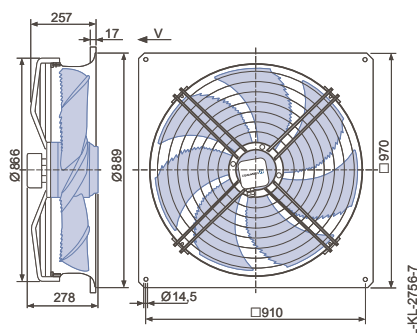
Dimensions [mm]

Airflow direction V

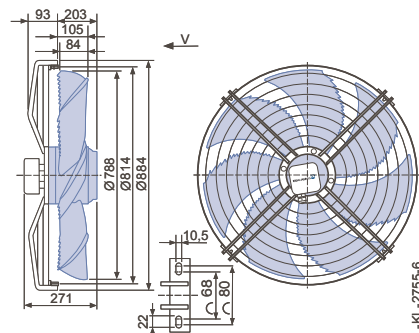
Design Q - square, full bell mouth with mesh grille



Design Q - square, full bell mouth with ring grille



Design S - radial bolted, mounting for full bell mouth Q and L with mesh grille



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]		I [A]	P ₁ [W]	n [min ⁻¹]	L _{WAS} [dB]
FN080-SD_.6N_.7	Δ	I	400	①	4.80	2400	860	90
			400*	②	3.90*	1800*	900*	79
			400	③	3.60	1550	920	75
	Y	II	400	④	2.50	1300	600	80
			400*	⑤	2.20*	1150*	700*	73
			400	⑥	2.00	1050	740	69

*rated data

Fan ordering information

Airflow direction V

Design	Q(M)	Q(R)	S(M)	S(R)	I(M)	I(R)
						
Type	FN080-SDQ.6N.V7	FN080-SDQ.6N.V7	FN080-SDS.6N.V7	FN080-SDS.6N.V7	FN080-SDI.6N.V7	FN080-SDI.6N.V7
Article no.	138292	138758	138756	138757	153499	153512
Weight [kg]	50.70	50.90	36.30	36.50	35.80	36.10

Control technology

Frequency inverter
Fcontrol 3~



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Motor protection units
3~



➤ Page 596

Transformer-based
controllers 3~



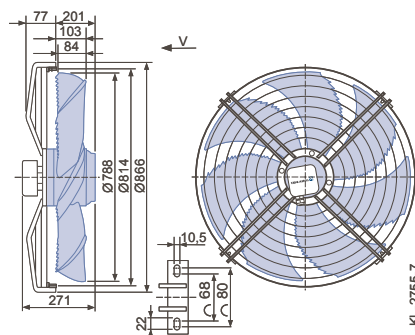
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Electronic voltage
controllers 3~

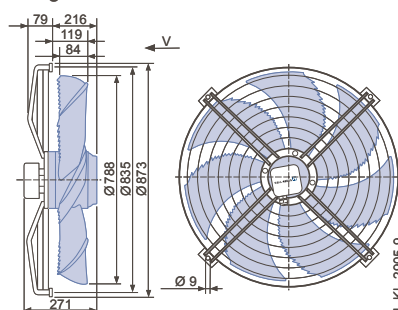


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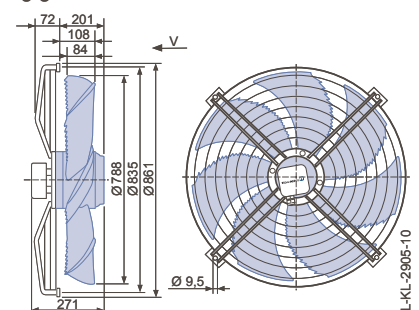
Design S - radial bolted, mounting for full bell mouth Q and L with ring grille



Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L and airflow direction V with mesh grille



Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L and airflow direction V with ring grille



Information

FE2owlet
ECblue

FE2owlet

FB

FC

System
components

Control
technology

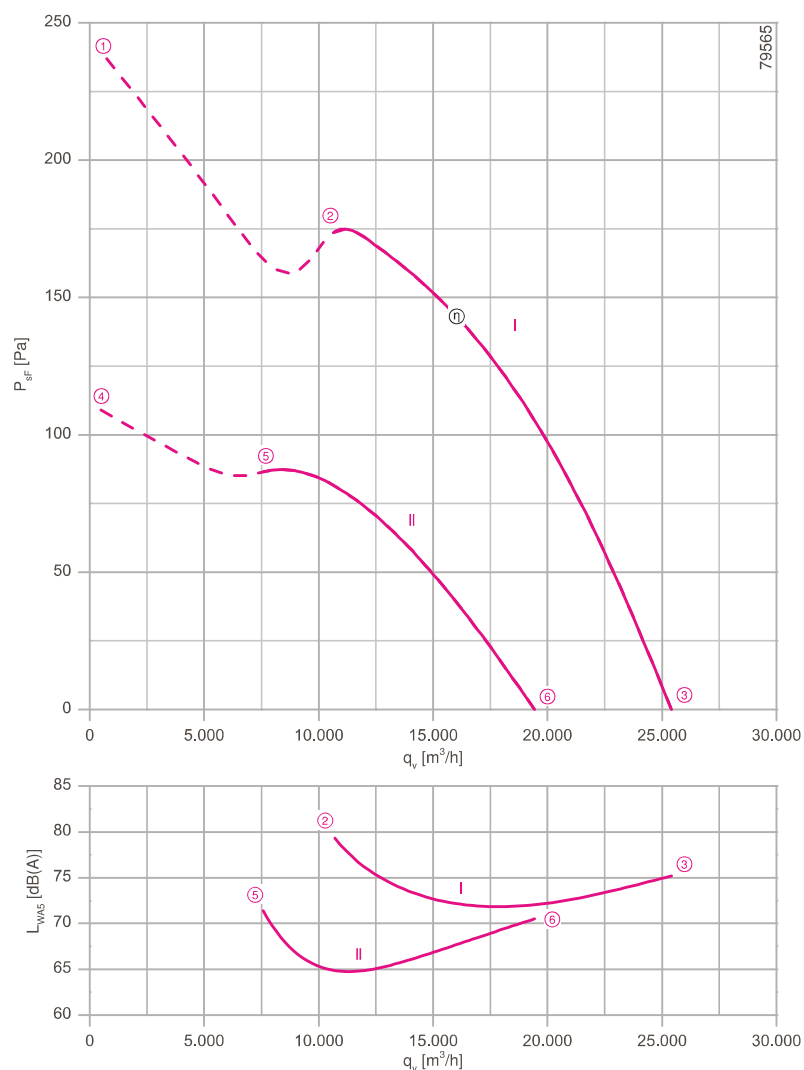
Appendix



Description

Motor technology: AC
 Rated voltage U_N : 3- 400 V (Δ/Y) ± 10 %*
 Rated frequency f_N : 50 Hz*
 Motor input power P_i : 2.10/1.15 kW*
 Rated current I_N : 4.20/2.20 A*
 Rated speed n_N : 860/ 620 min⁻¹*
 Starting current I_A : 11.00 A / 3.40 A
 Current increase ΔI : 0 %
 Thermal class: **THCL155***
 Min. permitted conveyor temperature $t_{R(min)}$: -40 °C
 Max. permitted conveyor temperature $t_{R(max)}$: 60 °C
 Electrical connection: Terminal box
 Number of blades: 7
 Protection class: IP54
 Motor protection: Thermal contact
 Blades: Aluminium, uncoated
 Rotor: Aluminium, uncoated
 Conformity: ErP 2013, CE
ErP Data
 Efficiency η_{statA} : 33.1 %
 Efficiency: $N_{actual} = 37.5 / N_{target} = 36$ **
 * Rated data
 **ErP 2013

Characteristic curve



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

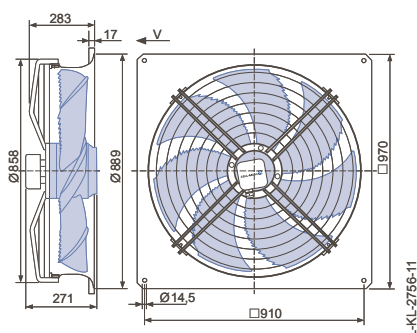
➤ Connection diagram 1360-108XA Page 608

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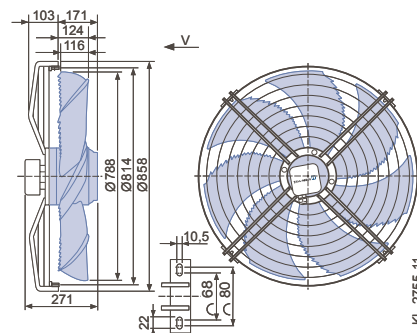
Dimensions [mm]

Airflow direction V

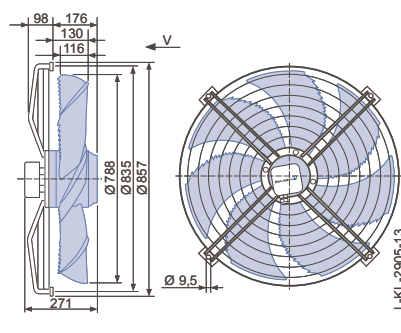
Design Q - square, full bell mouth



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



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
			U [V]		I [A]	P ₁ [W]	n [min ⁻¹]	L _{WAS} [dB]
FN080-SD_6N_7P2	Δ	I	400	①	4.60	2400	830	
			400*	②	4.20*	2100*	860*	80
			400	③	3.50	1600	900	75
	Y	II	400	④	2.30	1200	560	
			400*	⑤	2.20*	1150*	620*	72
			400	⑥	1.95	1050	690	71

*rated data

Fan ordering information

Airflow direction V

Design	Q	S	I
			
Type	FN080-SDQ.6N.V7P2	FN080-SDS.6N.V7P2	FN080-SDI.6N.V7P2
Article no.	141678	141677	154504
Weight [kg]	45.30	34.40	34.30

Control technology

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