

FE2owlet

for three phase alternating current, 6-6 pole

FNO80-SD



Description

Motor technology: AC
Rated voltage U_N : 3~ 400 V (Δ/Y) ± 10 %*
Rated frequency f_N : 50 Hz*
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

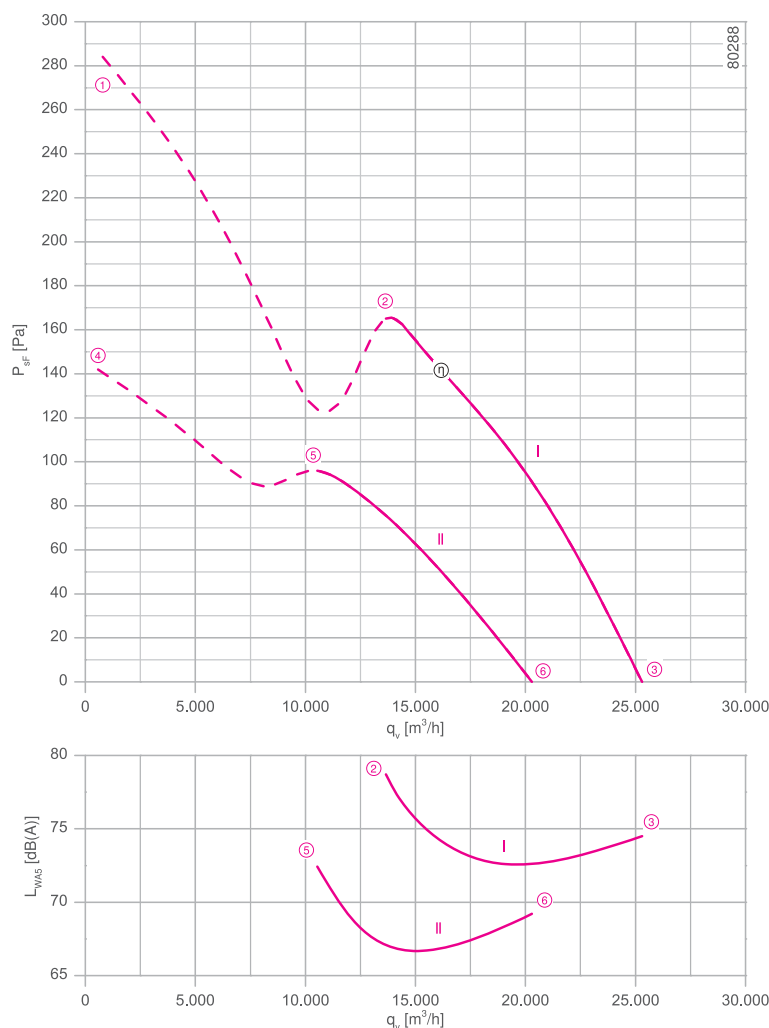
Efficiency η_{statA} : 36.8 %
Efficiency: $N_{actual} = 41.5 / N_{target} = 40$ **

* Rated data

**ErP 2015

*** Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -40 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Characteristic curve



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

Connection diagram

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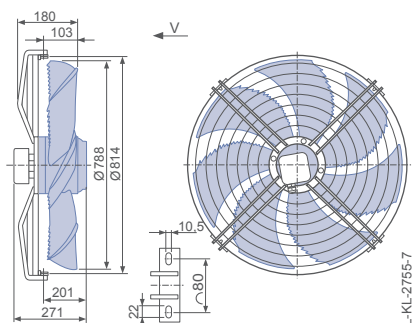
System components

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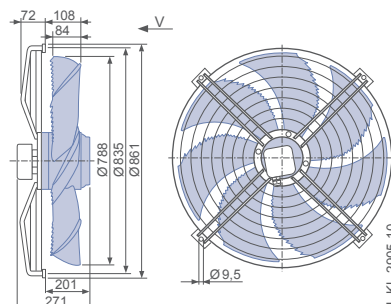
Dimensions mm

Airflow direction V

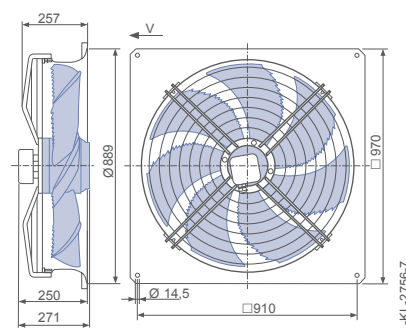
Design S - radially bolted, mounted for short bell mouth, guard grille pressure side



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



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

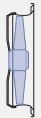


Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
			U V		I A	P ₁ W	n min ⁻¹	L _{WA5} dB(A)
FN080-SD_.6N_.7	Δ	I	400	①	4.80	2400	860	
			400*	②	3.90*	1800*	900*	79
			400	③	3.60	1550	920	75
	Y	II	400	④	2.50	1300	600	
			400*	⑤	2.20*	1150*	700*	73
			400	⑥	2.00	1050	740	69

*rated data

Fan ordering information

Airflow direction V			
Design	S (guard grille pressure side)	I (guard grille pressure side)	Q (guard grille pressure side)
			
Type	FN080-SDS.6N.V7	FN080-SDI.6N.V7	FN080-SDQ.6N.V7
Article no.	138757	153512	138758
Weight kg	36.50	36.10	50.90

Control technology

Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		
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