

for three phase alternating current, 6 pole

FC 100-6D



Description

Motor technology: AC

Rated voltage U_N : 3~230/400 V (Δ/Y) $\pm 10\%$ *

Rated frequency f_N : **50 Hz***

Motor input power P_1 : **5.00 kW***

Rated current I_N : **18.50/11.00 A***

Rated speed n_N : **970 min⁻¹***

Current increase ΔI : 0 %
Thermal class: **THCL155***

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

Max. permitted conveyor temperature $t_{R(max)}$: 70 °C

Electrical connection: Terminal box

Number of blades: 5

Protection class: IP54

Motor protection: Thermal contact
Blades: Aluminium, 1 coat paint, black

Rotor: Aluminium, 1 coat paint, black

Conformity: ErP 2015, CE

ErP Data

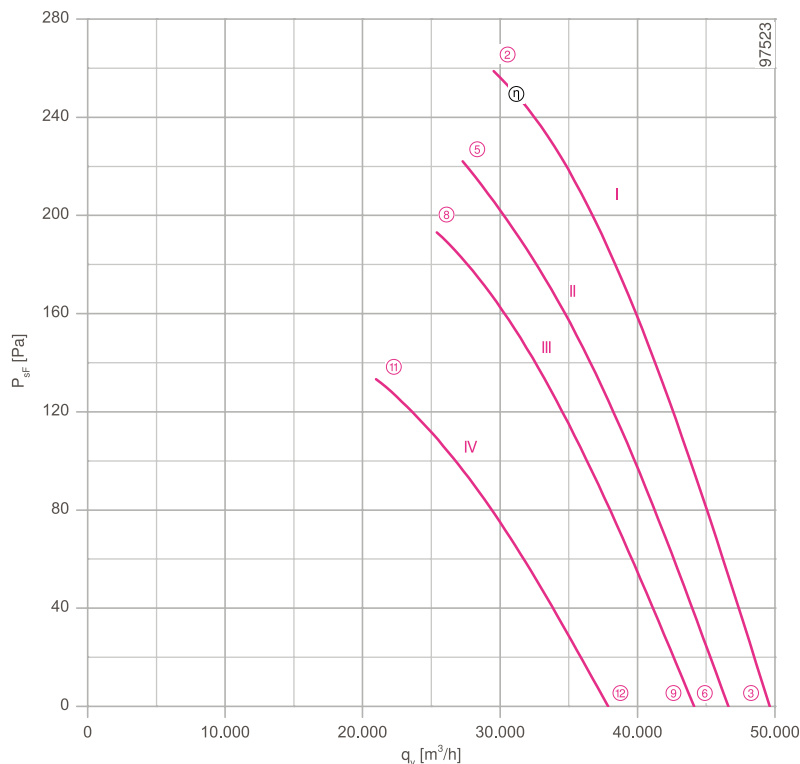
Efficiency η_{total} : 44.1 %

Efficiency: $N_{\text{actual}} = 46.0 / N_{\text{target}} = 40^{**}$

* Rated data

ErP 2015

Characteristic curve



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

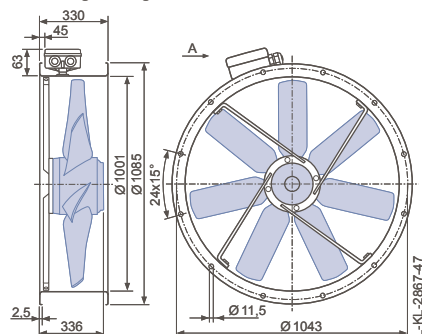
 Connection diagram
 1360-106XB
 Page 608

System components Page 524

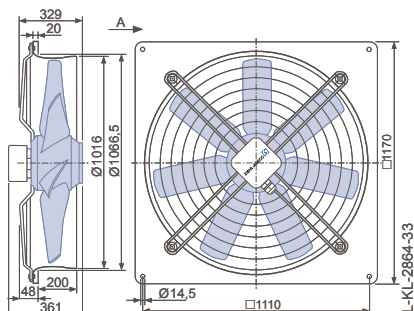
Dimensions [mm]

Airflow direction A

Design F - flange ring with two flanges
without guard grille



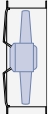
Design Q - square, full bell mouth



	curve	U [V]		I [A]	power P ₁ [W]	n [min ⁻¹]	sound power level L _{WAS} [dB]
FC100-6D_.8S_.5	I	400*	②	11.00*	5000*	970*	93
		400	③	10.00	4400	970	91
	II	300	⑤	11.00	4800	940	94
		300	⑥	9.80	4200	950	91
	III	230	⑧	13.00	4400	900	92
		230	⑨	11.50	3900	910	90
	IV	190	⑪	14.50	4200	840	90
		190	⑫	13.00	3700	870	89
	V	145	⑭	16.50	3400	690	86
		145	⑮	15.00	3200	740	85

*rated data

Fan ordering information

Airflow direction A		
Design	F (without guard grille) Q	
		
Type	FC100-6DF.8S.A5	FC100-6DQ.8S.A5
Article no.	160115	160114
Weight [kg]	106.50	112.00

Control technology

Frequency inverter Fcontrol 3~  ➤ Page 558	Motor protection units 3~  ➤ Page 596	Transformer-based controllers 3~  ➤ Page 591	Electronic voltage controllers 3~  ➤ Page 578
--	---	--	---