

FB

for three phase alternating current, 4-4 pole

FBO50-VD



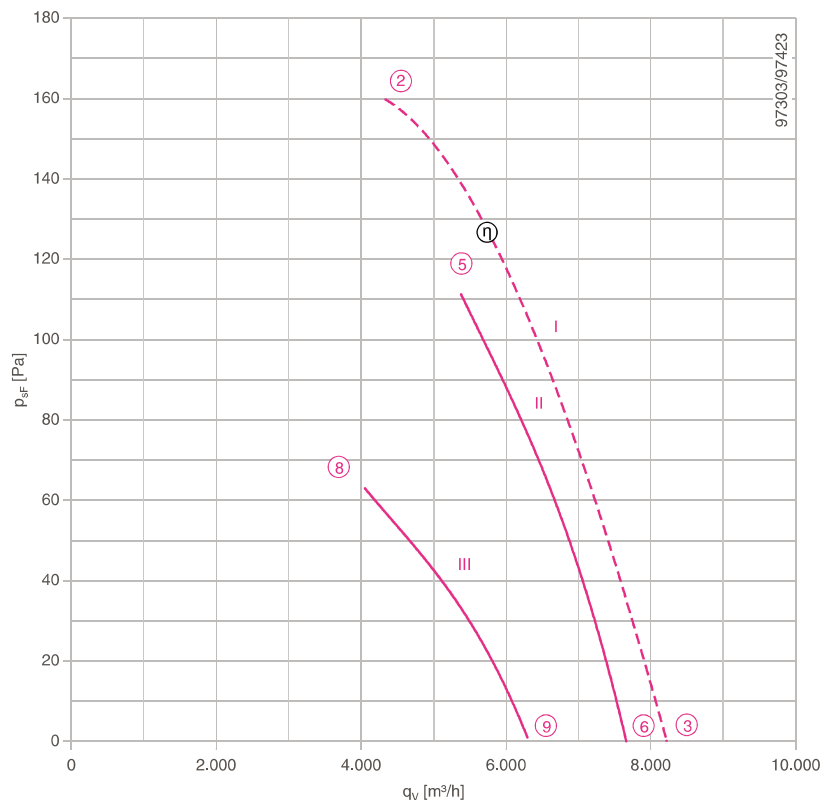
Description

Motor technology: AC
Rated voltage U_N : 3~ 400 V (Δ/Y) ± 10 %*
Rated frequency f_N : 50 Hz*
Motor input power P_1 : 0.65/0.44 kW*
Rated current I_N : 1.15/0.77 A*
Rated speed n_N : 1340/ 960 min⁻¹*
Starting current I_A : 5.10 A / 1.70 A
Current increase ΔI : 15 %
Thermal class: THCL155*
Min. permitted conveyor temperature $t_{R(min)}$: -40 °C
Max. permitted conveyor temperature $t_{R(max)}$: 70 °C
Electrical connection: Terminal box
Number of blades: 4
Protection class: IP54
Motor protection: Thermal contact
Blades: Aluminium, uncoated
Rotor: Aluminium, uncoated
Conformity: ErP 2015, CE

ErP Data

Efficiency η_{testA} : 34.6 %
Efficiency: $N_{actual} = 42.4 / N_{target} = 40$ **
* Rated data
**ErP 2015

Characteristic curve



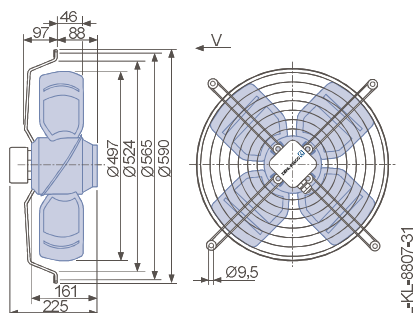
I) Measured in full bell mouth without guard grille in installation type A according to ISO 5801.
II-x) Measured in short-bell mouth with compressed side contact protection.

- Connection diagram 1360-108XA Page 608
- System components Page 524

Dimensions [mm]

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



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 _{WA5} [dB]
FB050-VD_4I_4P	Δ	I	400*	②	1.15*	660*	1340*	84
			400	③	0.84	420	1410	77
		II	400	⑤	1.05	600	1360	79
	400		⑥	0.90	460	1400	77	
	Y	III	400	⑧	0.74	420	1030	73
			400	⑨	0.64	370	1140	72

*rated data

Fan ordering information

Airflow direction V

Design K



Type **FB050-VDK.4I.V4P**

Article no. **210543**

Weight [kg] 11.30

Control technology

Frequency inverter
Fcontrol 3~



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Motor protection units
3~



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Transformer-based
controllers 3~



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Electronic voltage
controllers 3~



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