

A6D710-AQ01-01

AC axial fan - HyBlade®

sickled blades (S series)



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Nominal data

Type	A6D710-AQ01-01		
Motor	M6D110-IA		
Phase		3~	3~
Nominal voltage	VAC	400	400
Connection		Δ	Y
Frequency	Hz	50	50
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min ⁻¹	880	670
Power input	W	840	530
Current draw	A	1.74	0.94
Max. back pressure	Pa	115	68
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	50	50
Starting current	A	5	1.7

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

* Specific ratio = $1 + p_s / 100\,000\text{ Pa}$

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	33	29	33
Efficiency grade N	40	36	40
Power input P_e	kW	0.79	
Air flow q_v	m ³ /h	9505	
Pressure increase p_{fs}	Pa	99	
Speed n	min ⁻¹	885	

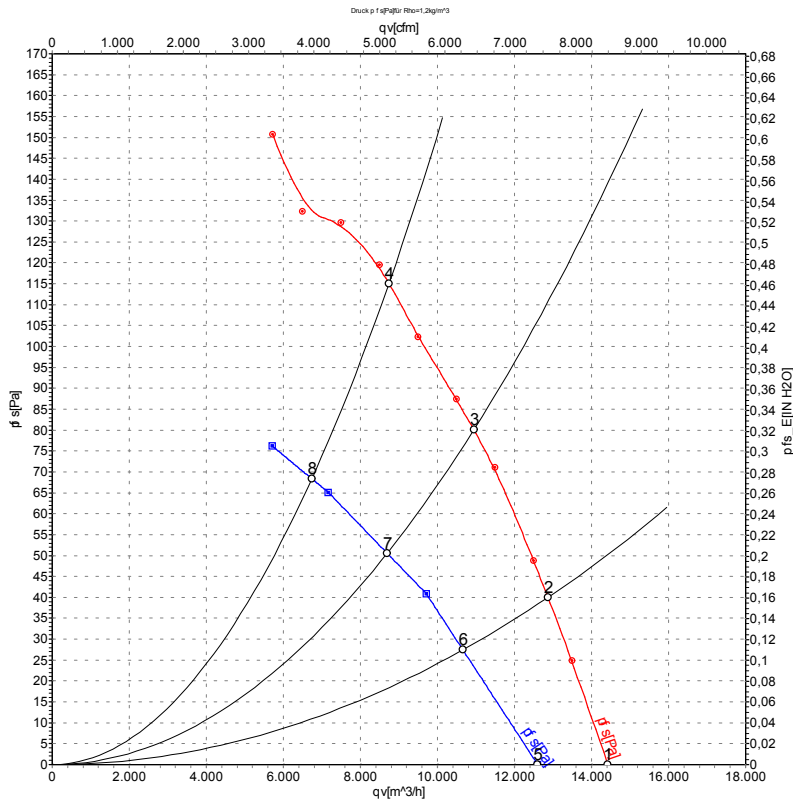
Data established at point of optimum efficiency



Technical features

Mass	12.5 kg
Size	710 mm
Surface of rotor	Cast in aluminium
Material of terminal box	PP plastic
Material of blades	Aluminium sheet insert, sprayed with PP plastic
Number of blades	5
Blade angle	-5°
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Electrical leads	Via terminal box
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; CE
Approval	GOST; VDE; CCC

Charts: Air flow 50 Hz



Measurement: LU-108461
Measurement: LU-113657

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	Conn.	U	f	n	P _e	I	LpA _{in}	LwA _{in}	LwA _{out}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m ³ /h	Pa
1	Δ	400	50	935	521	1.45	66	73	72	14430	0
2	Δ	400	50	915	628	1.52	63	70	69	12870	40
3	Δ	400	50	895	736	1.63	61	68	67	10940	80
4	Δ	400	50	880	840	1.74	64	71	70	8740	115
5	Y	400	50	810	377	0.69	63	69	69	12600	0
6	Y	400	50	755	434	0.77	59	65	64	10660	27
7	Y	400	50	710	484	0.85	57	63	62	8695	50
8	Y	400	50	670	530	0.94	58	65	64	6735	68

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase

