A6D910-AB05-06

AC axial fan - HyBlade

sickled blades (S series)

Transformator fan

A6D910-AB05-06 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

ErP2015 EXCEEDS THE NORM

Nominal data

Type	**A6D910-AB05-06**
Motor	**M6D138-NA**

Phase		3~	3~	3~	3~
Nominal voltage	VAC	230	277	400	480
Connection		Δ	Δ	Y	Y
Frequency	Hz	50	60	50	60
Type of data definition		ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE
Speed	min^{-1}	925	1100	925	1100
Power input	W	1990	2870	1990	2870
Current draw	A	8.1	8.9	4.67	5.13
Max. back pressure	Pa	160	140	160	140
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	70	45	70	45
Starting current	A	33	37	19	21.5

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

		Actual	Request 2015
01 Overall efficiency η_{es}	%	39.1	35.5
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		43.6	40
05 Variable speed drive		No	

09 Power input P_e	kW	1.93
09 Air flow q_v	m^3/h	18700
09 Pressure increase p_{fs}	Pa	146
10 Speed n	min^{-1}	925
11 Specific ratio*		1.00

Data definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

* Specific ratio = 1 + p_{fs} / 100 000 Pa

LU-118443

ebmpapst

AC axial fan - HyBlade

sickled blades (S series)

Transformator fan

Technical features

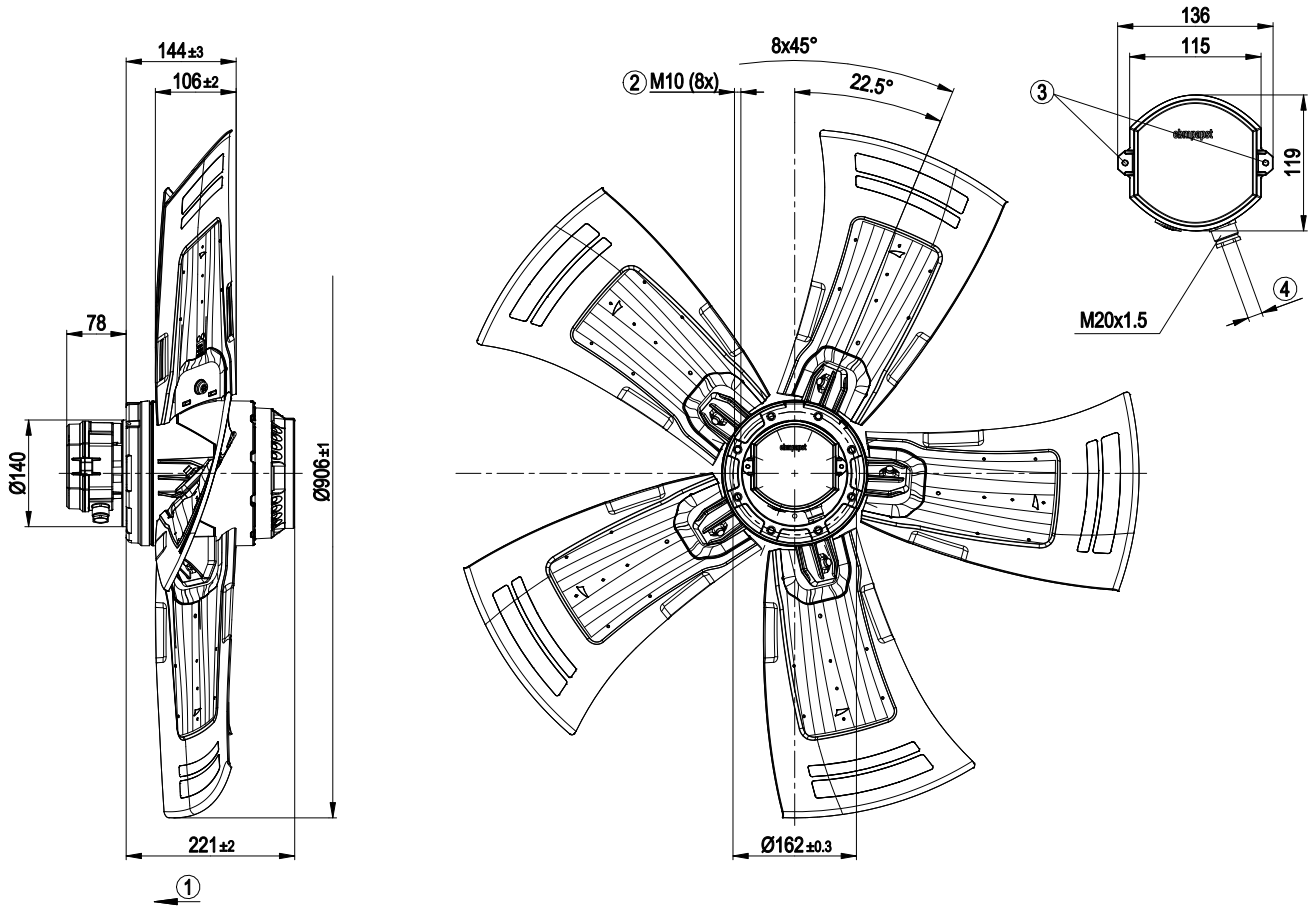
Mass	27.01 kg
Size	910 mm
Surface of rotor	Coated in black
Material of terminal box	Die-cast aluminium, coated in black
Material of blades	Aluminium sheet insert (coated in black), sprayed with PP plastic
Number of blades	5
Blade angle	-5°
Direction of air flow	"V"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 55
Insulation class	"F"
Humidity class	F4-2
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Condensate discharge holes	On rotor and stator sides
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 60034-1 (2010); EN 61800-5-1; CE
Approval	CSA C22.2 Nr.100; EAC; UL 1004-1

AC axial fan - HyBlade

sickled blades (S series)

Transformator fan

Product drawing



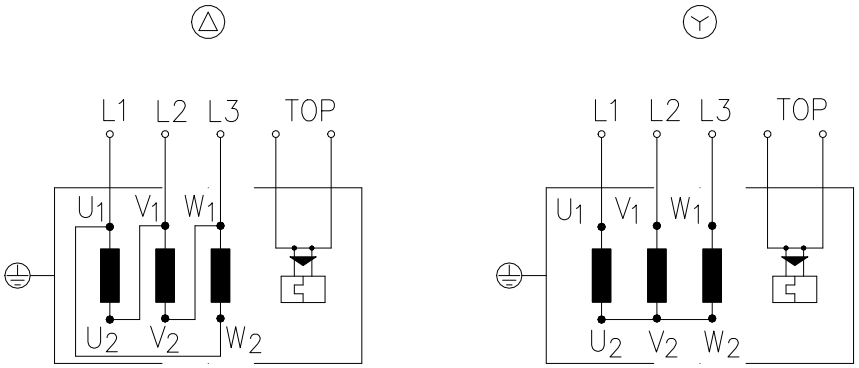
1	Direction of air flow "V"
2	Thread reach max. 18 mm
3	Tightening torque 2.5±0.4 Nm
4	Cable diameter: min. 10 mm, max. 12 mm, tightening torque 4±0.6 Nm

AC axial fan - HyBlade

sickled blades (S series)

Transformator fan

Connection screen



Changing the direction of rotation by reversing the two phases

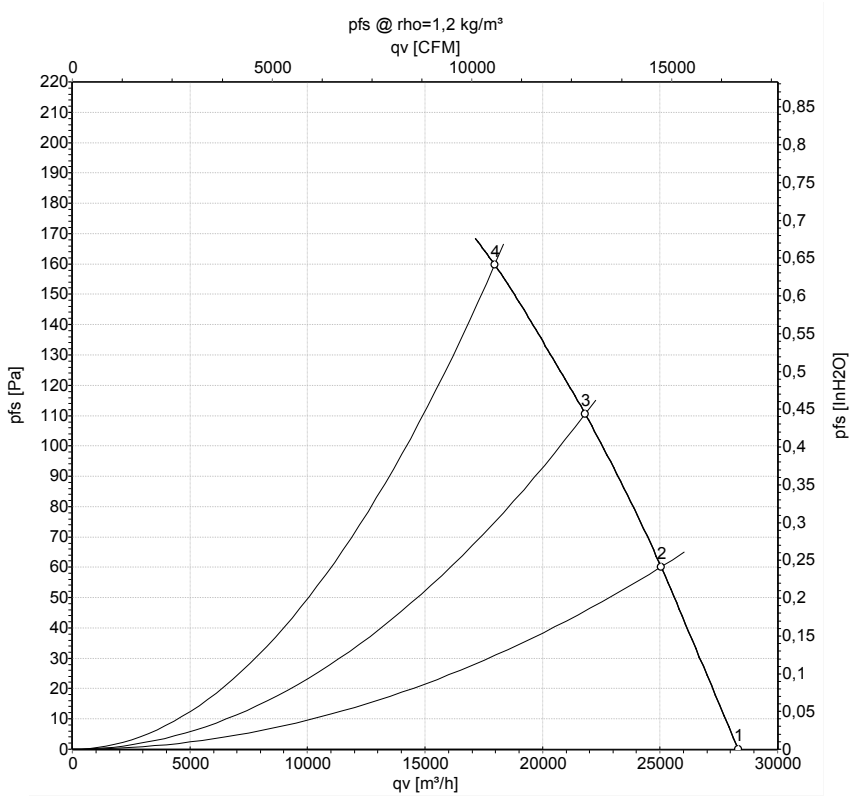
Δ	Delta connection	Y	Star connection	L1	= U1 = black
L2	= V1 = blue	L3	= W1 = brown	W2	yellow
U2	green	V2	white	TOP	2 x grey
PE	green / yellow				

AC axial fan - HyBlade

sickled blades (S series)

Transformator fan

Charts: Air flow 50 Hz



Measurement: LU-118443

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	Y	400	50	955	1284	3.98	71	79	79	28340	0
2	Y	400	50	945	1577	4.20	69	76	76	25050	60
3	Y	400	50	935	1782	4.41	68	75	75	21820	110
4	Y	400	50	925	1990	4.67	71	78	78	17965	160

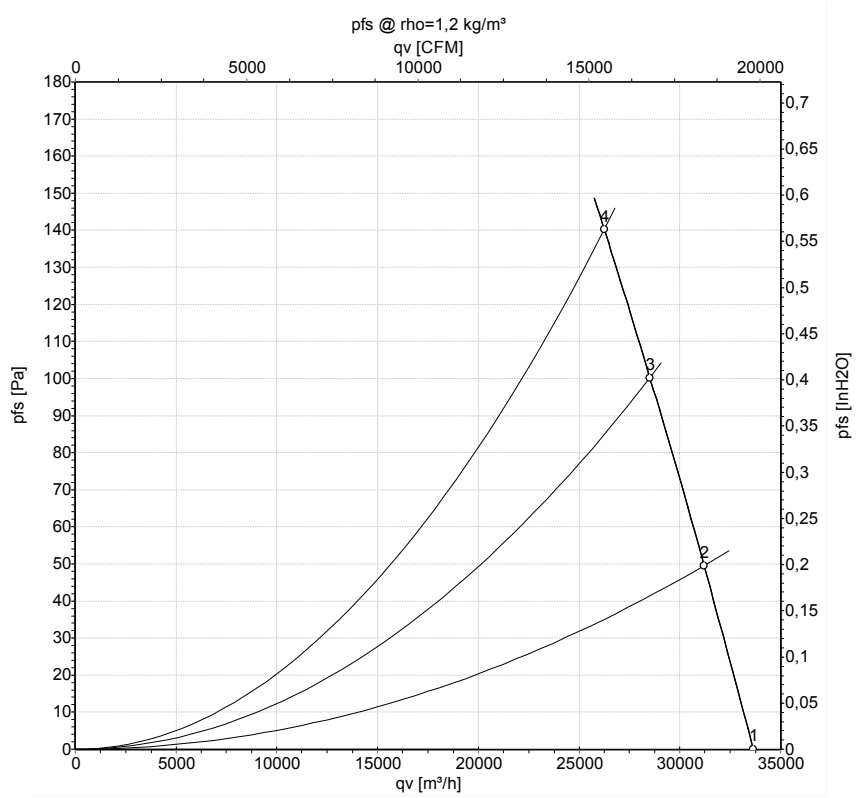
Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase

AC axial fan - HyBlade

sickled blades (S series)

Transformator fan

Charts: Air flow 60 Hz



Measurement: LU-118449

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	Y	480	60	1130	2073	4.26	76	83	83	33645	0
2	Y	480	60	1120	2361	4.55	74	82	82	31205	50
3	Y	480	60	1110	2628	4.84	73	81	81	28515	100
4	Y	480	60	1100	2870	5.13	73	80	80	26250	140

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