

A6D800-AK01-01 ebmpapst Datasheet
 sales@fansco.com
 www.fansco.com

Limited partnership · Headquarters Muldingen
 County court Stuttgart · HRA 590344

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



Nominal data

Type	A6D800-AK01-01		
Motor	M6D138-LA		
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	700
Power input	W	1500	950
Current draw	A	3.36	1.76
Max. back pressure	Pa	170	105
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	70	70
Starting current	A	13.0	4.3

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	Overall efficiency η_{es}	Actual	Request 2013	Request 2015
Efficiency category	Static	Efficiency grade N	37.9	30.4	34.4
Variable speed drive	No	Power input P_e	43.5	36	40
Specific ratio*	1.00	kW	1.31		
		Air flow q_v	m ³ /h	14295	
		Pressure increase p_{fs}	Pa	126	
		Speed n	min ⁻¹	900	

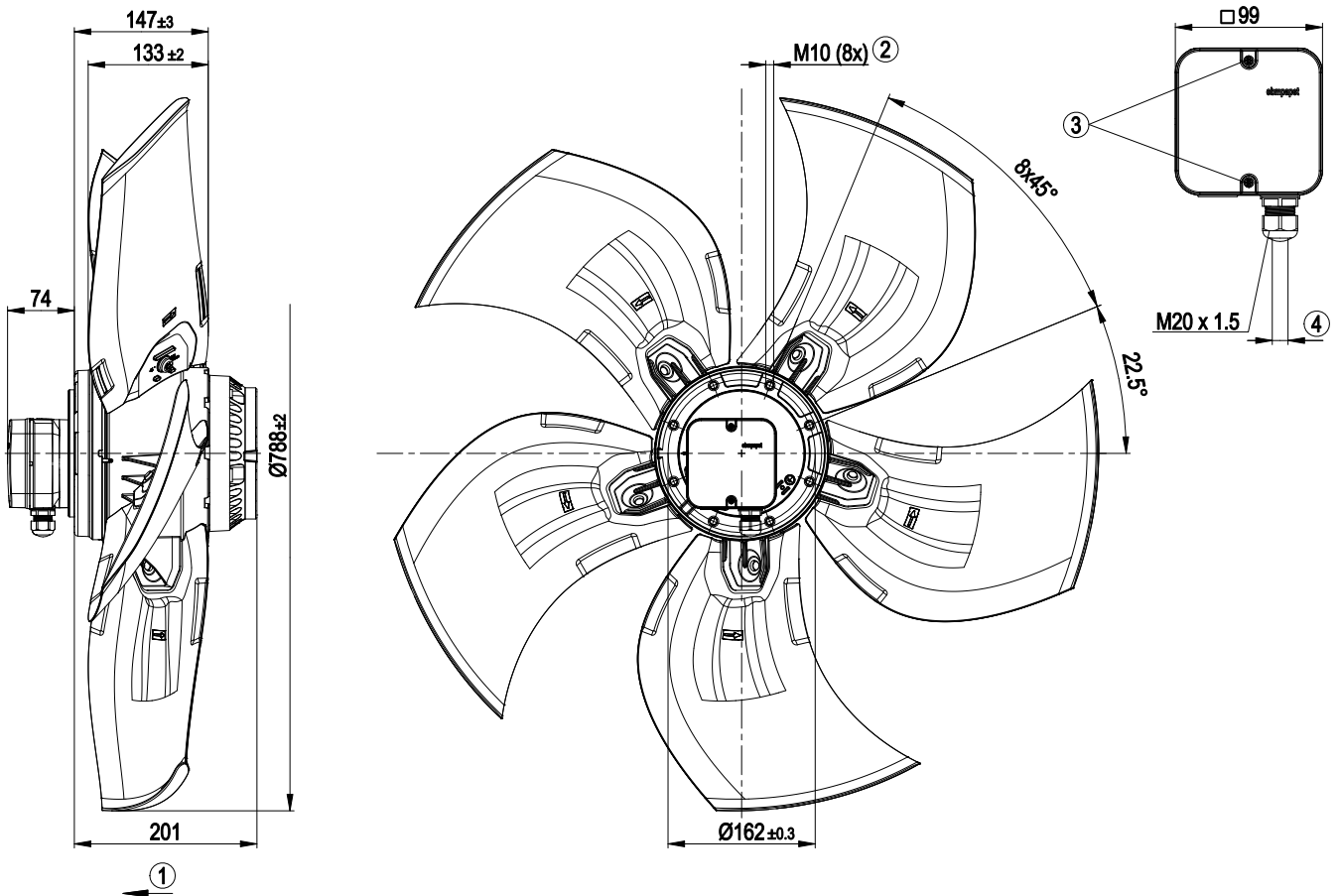
Data established at point of optimum efficiency



Technical features

Mass	24.1 kg
Size	800 mm
Surface of rotor	Cast in aluminium
Material of terminal box	PP plastic
Material of blades	Die-cast aluminium
Number of blades	5
Blade angle	- 5
Direction of air flow	"V"
Direction of rotation	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	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; EN 61800-5-1; CE
Approval	VDE

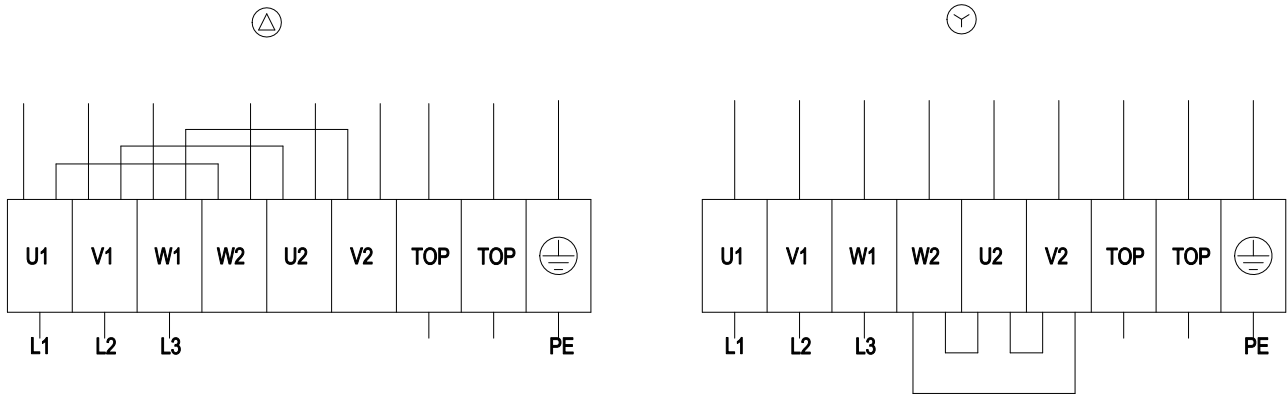
Product drawing



1	Direction of air flow "V"
2	Screw depth max. 18 mm
3	Tightening torque 1.5±0.2 Nm
4	Cable diameter: min. 7 mm, max. 14 mm, tightening torque: 2±0.3 Nm

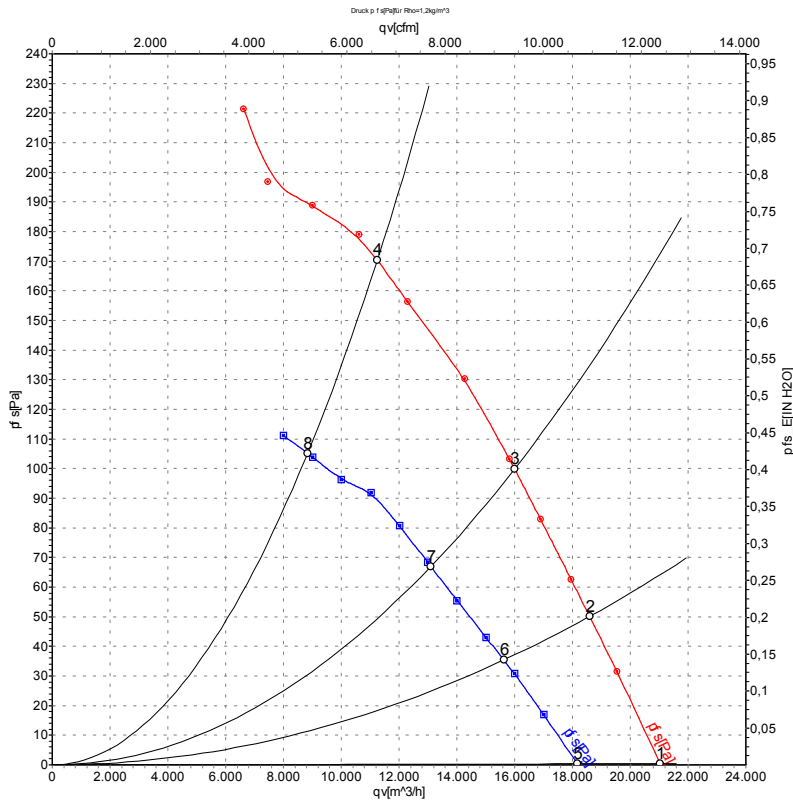


Connection screen



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				

Charts: Air flow 50 Hz Δ



Measurement: LU-100637
Measurement: LU-100638

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.

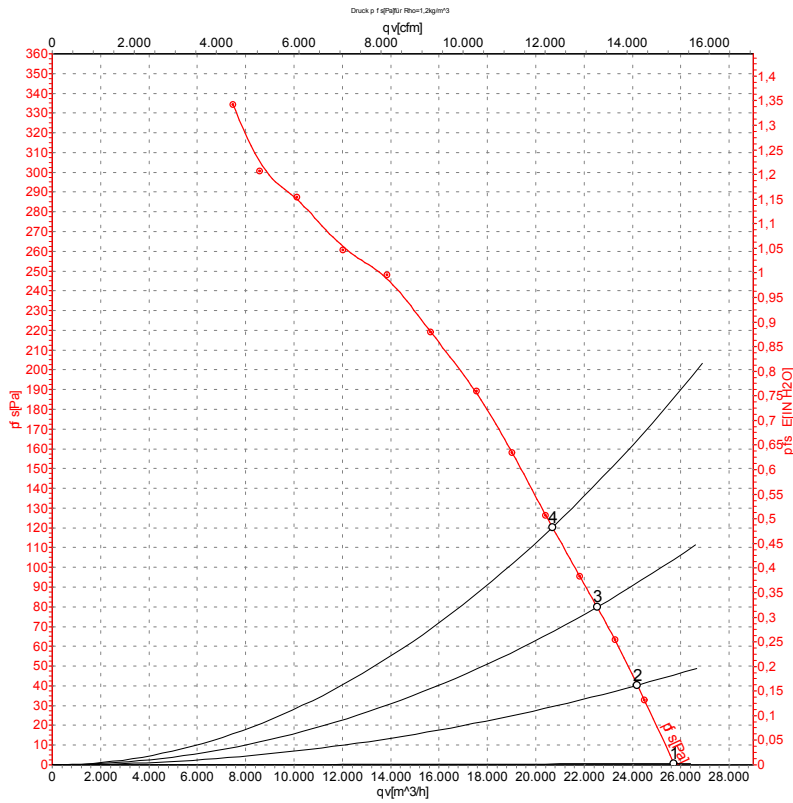
Measured values

	Conn.	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa
1	Δ	400	50	930	970	2.76	69	75	21050	0
2	Δ	400	50	920	1133	2.89	65	71	18600	50
3	Δ	400	50	905	1259	3.02	66	71	16000	100
4	Δ	400	50	880	1500	3.36	70	77	11240	170
5	Y	400	50	810	700	1.35	66	72	18210	0
6	Y	400	50	775	789	1.49	62	68	15630	35
7	Y	400	50	745	854	1.60	62	67	13100	67
8	Y	400	50	700	950	1.76	64	71	8835	105

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
qv = Air flow · p_{fs} = Pressure increase



Charts: Air flow 60 Hz



Measurement: LU-101776

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. Suction-side noise levels: L_{wA} measured as per ISO 13347 / L_{pA} 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	L _{pA_{in}}	L _{wA_{in}}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa
1	Δ	480	60	1130	1636	3.24	73	79	25740	0
2	Δ	480	60	1120	1789	3.41	71	77	24200	40
3	Δ	480	60	1110	1950	3.56	69	76	22540	80
4	Δ	480	60	1040	1950	3.60	69	76	20690	120

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

