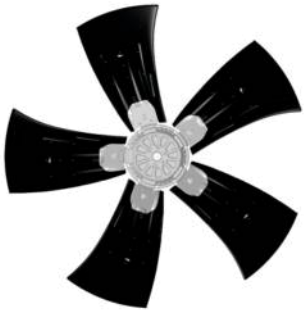
A8D910-AD03-01

AC axial fan - HyBlade®

sickled blades (S series), single inlet



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ErP2013 EXCEEDS THE NORM

Nominal data

Type	**A8D910-AD03-01**
Motor	**M8D138-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}	650	475
Power input	W	1150	640
Current draw	A	2.78	1.36
Max. back pressure	Pa	90	47
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	65	65
Starting current	A	6.2	

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_{fs} / 100 000 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	30.2	29.9	33.9
Efficiency grade N		36.3	36	40
Power input P_e	kW	1.1		
Air flow q_v	m^3/h	15975		
Pressure increase p_{fs}	Pa	76		
Speed n	min^{-1}	660		

Data definition with optimum efficiency. LU-117443
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

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Technical features

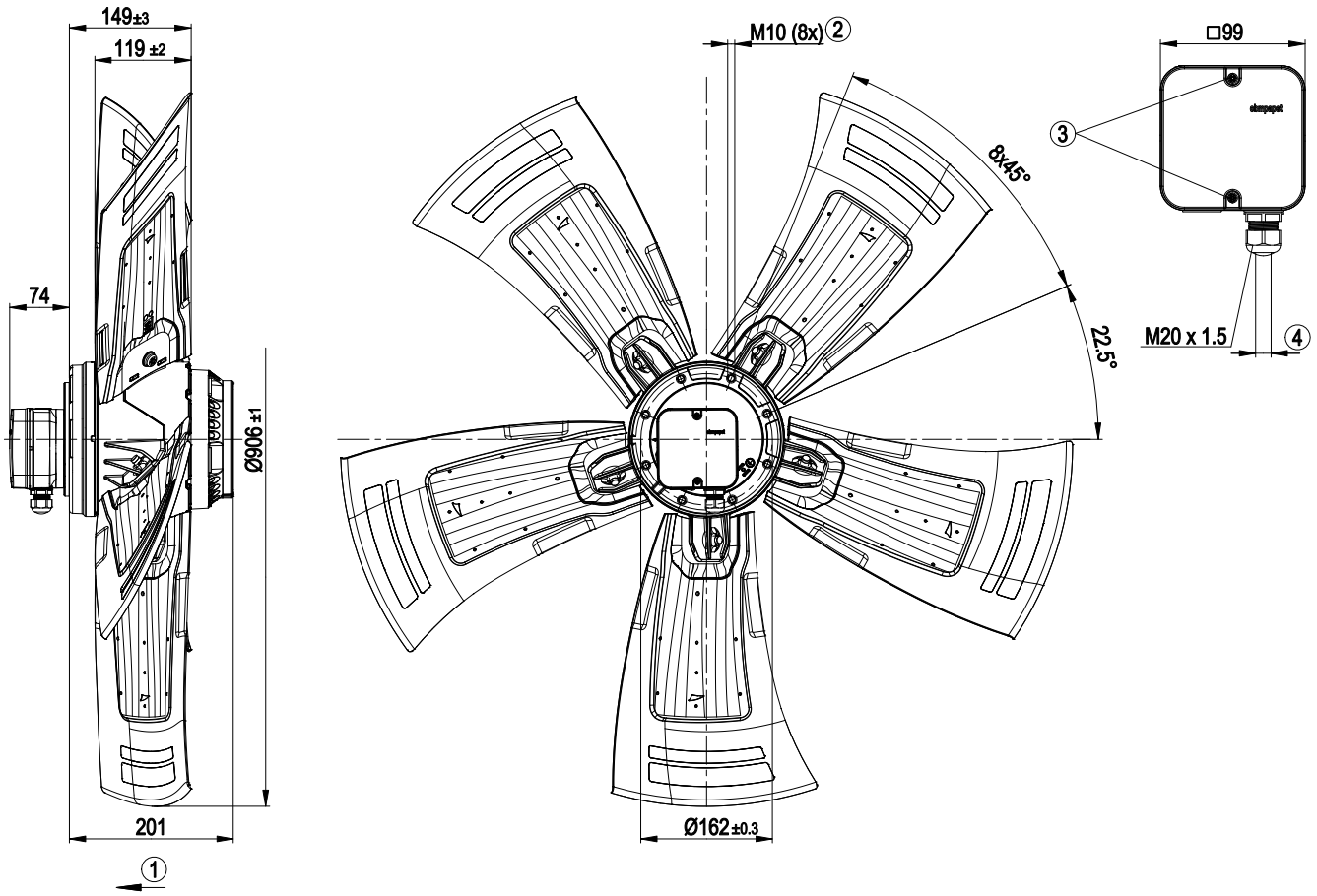
Mass	25.2 kg
Size	910 mm
Surface of rotor	Cast in aluminium
Material of terminal box	PP plastic
Material of blades	Aluminium sheet insert, sprayed with PP plastic
Number of blades	5
Blade angle	0°
Direction of air flow	"V"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation 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	CCC; EAC; VDE

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Product drawing



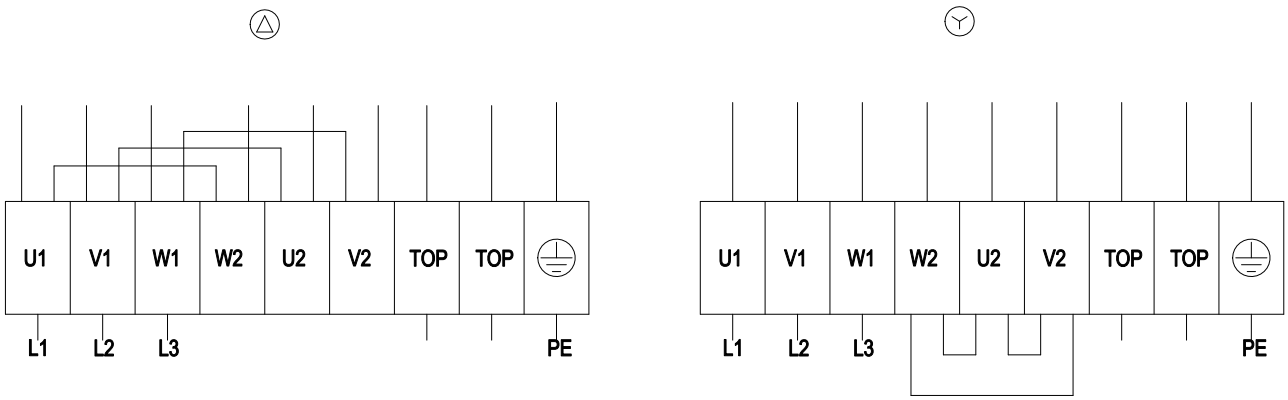
1	Direction of air flow "V"
2	Depth of screw max. 18 mm
3	Tightening torque 1.5±0.2 Nm
4	Cable diameter: min. 7 mm, max. 14 mm, tightening torque: 2±0.3 Nm

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Connection screen



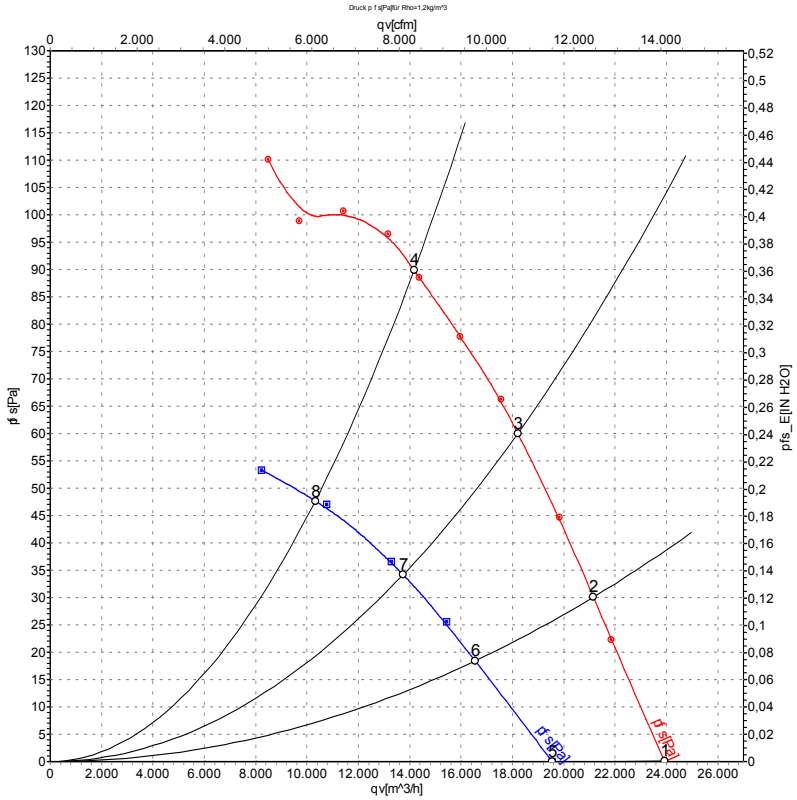
Δ	Delta connection	Y	Star connection	L1	= U1 = black
L2	= V1 = blue	L3	= W1 = brown	W2	yellow
U2	green	V2	white	TOP	2 x grey
PE	green/yellow				

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AC axial fan - HyBlade®

sickled blades (S series), single inlet

Charts: Air flow 50 Hz



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	690	840	2.46	62	70	70	23920	0
2	Δ	400	50	675	950	2.57	61	68	67	21150	30
3	Δ	400	50	665	1046	2.67	60	67	66	18210	60
4	Δ	400	50	650	1150	2.78	63	70	69	14170	90
5	Y	400	50	565	555	1.18	57	64	64	19550	0
6	Y	400	50	530	590	1.24	55	61	61	16550	19
7	Y	400	50	500	620	1.31	53	59	59	13740	34
8	Y	400	50	475	640	1.36	56	63	62	10320	47

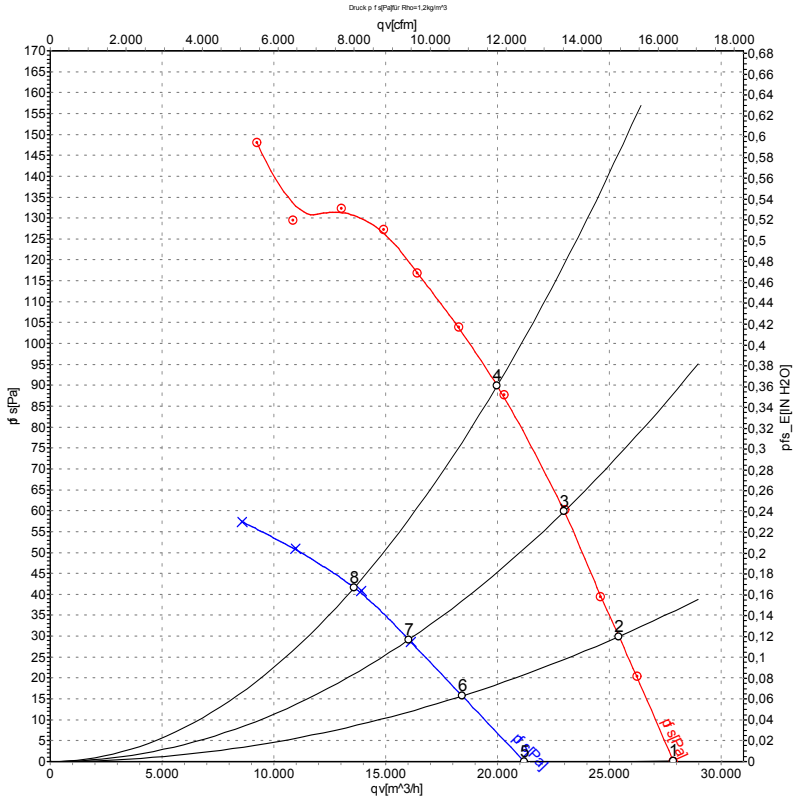
Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side
LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase

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AC axial fan - HyBlade®

sickled blades (S series), single inlet

Charts: Air flow 60 Hz



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	480	60	805	1329	2.76	66	74	74	27870	0
2	Δ	480	60	795	1468	2.95	64	72	72	25430	30
3	Δ	480	60	780	1584	3.07	63	71	71	22980	60
4	Δ	480	60	760	1720	3.25	64	71	71	19980	90
5	Y	480	60	605	795	1.43	59	66	66	21200	0
6	Y	480	60	570	820	1.48	56	64	63	18420	16
7	Y	480	60	540	841	1.52	55	62	61	16030	29
8	Y	480	60	520	860	1.62	54	61	60	13590	42

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

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