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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

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Nominal data

Type	A6D800-A101-05		
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 (rpm)	min ⁻¹	905	710
Power input	W	1850	1280
Current draw	A	4	2.37
Max. back pressure	Pa	180	110
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	60	60
Starting current	A	15	4.4

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data in accordance with ecodesign regulation EU 327/2011 (EN 17166)

		Actual	Request 2015
01 Overall efficiency η_{es}	%	35.9	35
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		40.9	40
05 Variable speed drive		No	

Data definition with optimum efficiency.

The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

09 Power input P_e	kW	1.62
09 Air flow q_v	m ³ /h	14965
09 Pressure increase p_{fs}	Pa	141
10 Speed (rpm) n	min ⁻¹	910
11 Specific ratio*		1.00

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

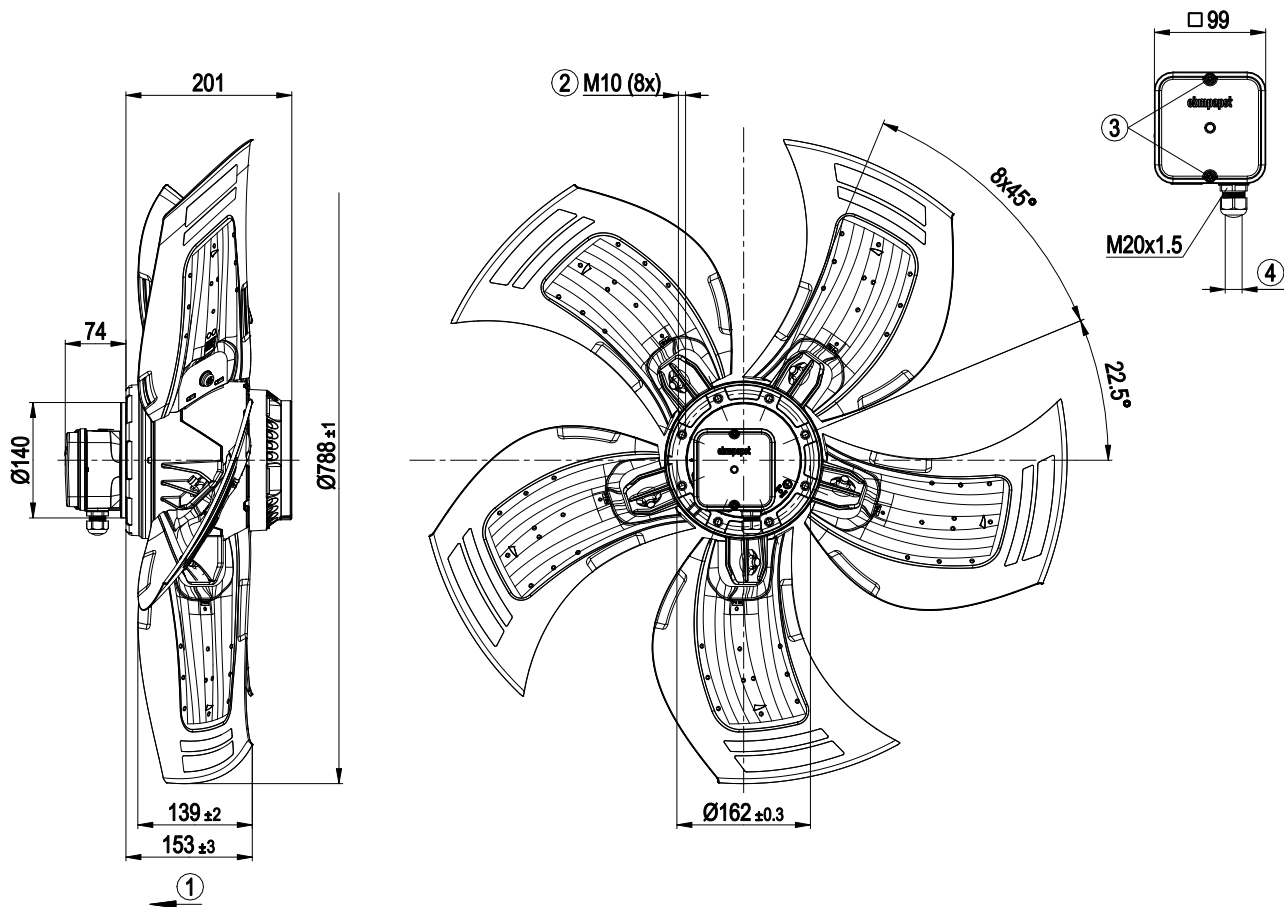
LU-199591

Mass	23.5 kg
Size	800 mm
Motor size	138
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	-2°
Direction of air flow	V
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP54
Insulation class	"F"
Humidity (F) / environmental protection class (H)	H2
Note ambient temperature	Occasional start-up between -40 °C and -25 °C is permissible. For continuous operation at ambient temperatures below -25 °C (e.g. refrigeration applications), a fan version with special low-temperature bearings must be used.
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Condensation drainage 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 connection	Terminal box
Motor protection	Thermal overload protector (TOP) brought out, basic insulation
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60034-1 (2010); CE
Approval	VDE; EAC

AC axial fan - HyBlade

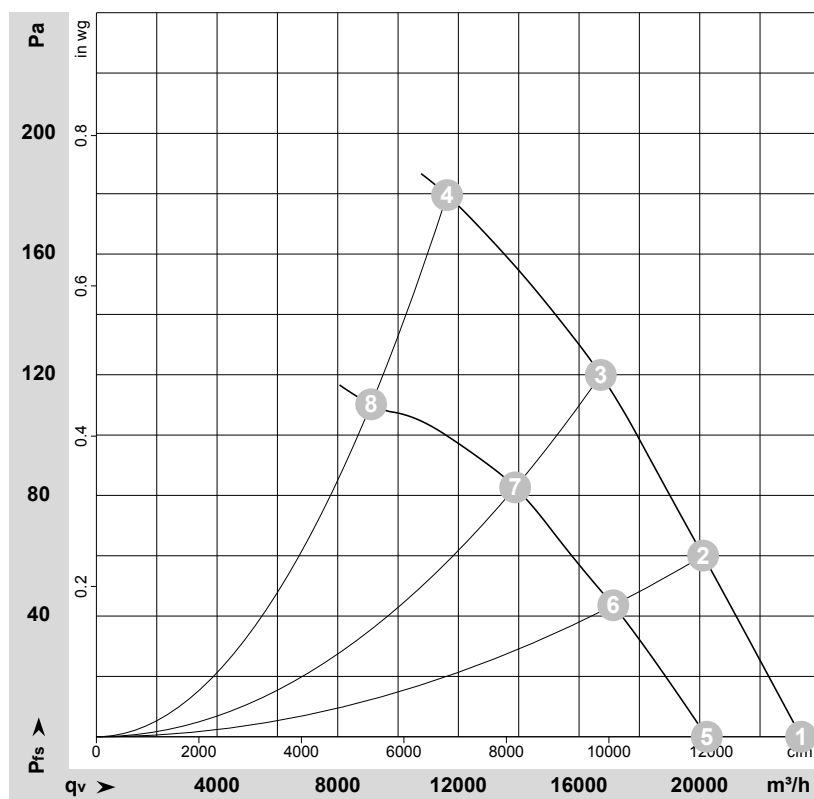
sickled blades (S series)

Product drawing



1	Direction of air flow "V"
2	Thread reach 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

Charts: Air flow 50 Hz



$$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-164331-1
Measurement: LU-168877-1

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}	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m ³ /h	Pa	cfm	in. wg
1	Δ	400	50	945	1219	3.24	66	73	72	23365	0	13750	0.00
2	Δ	400	50	930	1438	3.46	64	71	71	20115	60	11840	0.24
3	Δ	400	50	920	1612	3.63	66	73	72	16720	120	9840	0.48
4	Δ	400	50	905	1850	4.00	72	80	80	11625	180	6840	0.72
5	Y	400	50	825	961	1.79	63	70	69	20235	0	11910	0.00
6	Y	400	50	790	1077	1.99	61	67	67	17135	44	10085	0.18
7	Y	400	50	760	1166	2.16	61	68	67	13880	83	8170	0.33
8	Y	400	50	710	1280	2.37	65	73	73	9105	110	5360	0.44

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed (rpm) · 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 · q_v = Air flow · p_{fs} = Pressure increase