AZD910-AM03-01

AC axial fan

sickle-shaped blades (S series)

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**AZD910-AM03-01**
Motor	**MZD138-HF**

Phase		3~	3~	3~	3~
Nominal voltage	VAC	400	400	480	480
Wiring		Δ	Y	Δ	Y
Frequency	Hz	50	50	60	60
Method of obtaining data		ml	ml	ml	ml
Valid for approval/standard		-	-	-	-
Speed	min^{-1}	425	315	490	330
Power consumption	W	420	220	610	290
Current draw	A	1.15	0.5	1.27	0.57
Max. back pressure	Pa	40	21	53	24
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	70	70	60	60
Starting current	A	2.2		2.2	

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

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Technical description

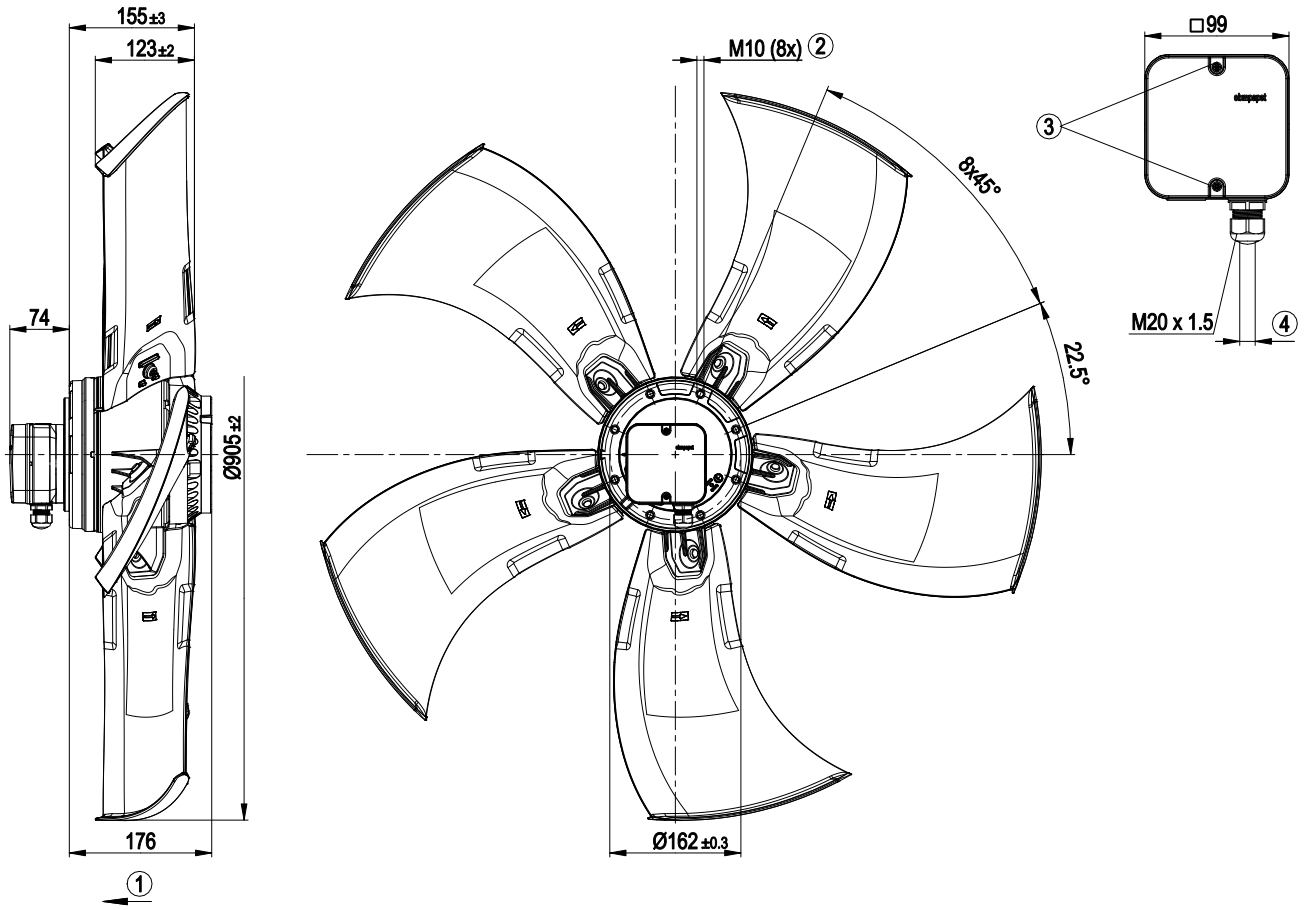
Weight	22.7 kg
Fan size	910 mm
Rotor surface	Cast in aluminum
Terminal box material	PP plastic
Blade material	Die-cast aluminum
Number of blades	5
Blade pitch	0°
Airflow direction	"V"
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F3-1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	On rotor and stator sides
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Via terminal box
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60034-1 (2010); EN 61800-5-1
Approval	EAC; VDE

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Product drawing



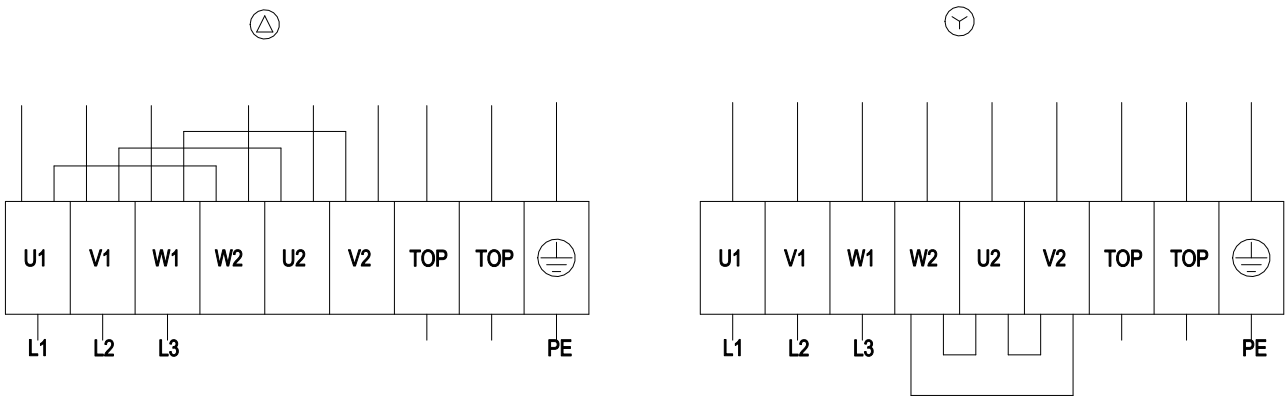
1	Direction of air flow "V"
2	Max. clearance for screw 18 mm
3	Tightening torque 1.5 ± 0.2 Nm
4	Cable diameter: min. 7 mm, max. 14 mm; tightening torque 2 ±0.3 Nm

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Connection diagram



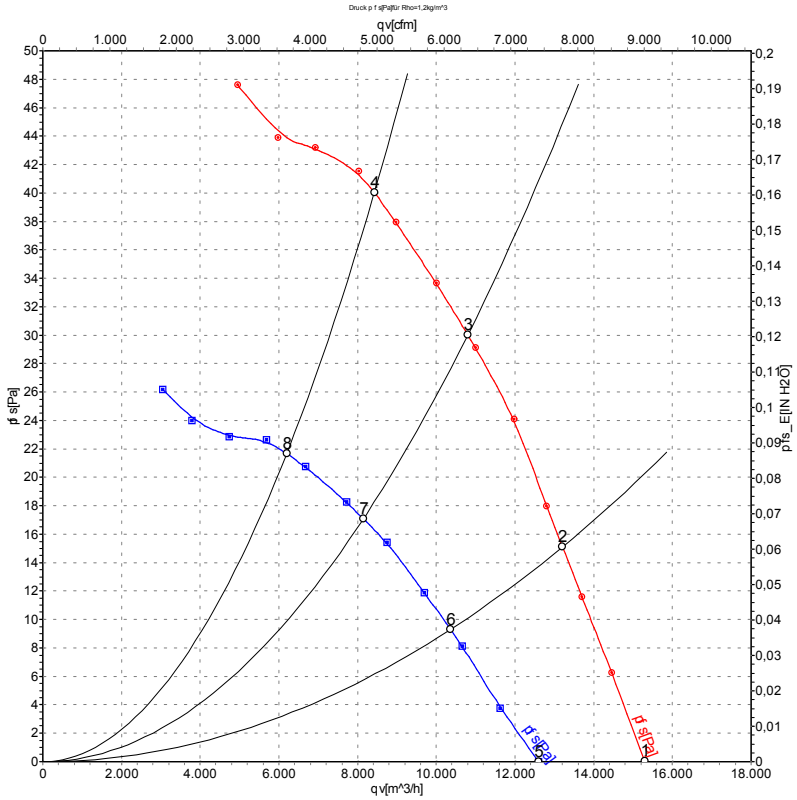
Δ	Delta connection	Y	Star connection	L1	= U1 = black
L2	= V1 = blue	L3	= W1 = brown	W2	yellow
U2	green	V2	white	TOP	2x gray
PE	green/yellow				

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AC axial fan

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Curves: Air performance 50 Hz



Measurement: LU-102421-1
Measurement: LU-102553-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	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	455	320	1.08	55	61	60	15300	0
2	Δ	400	50	445	357	1.09	56	61	60	13210	15
3	Δ	400	50	435	389	1.11	54	59	58	10800	30
4	Δ	400	50	425	420	1.15	55	61	60	8425	40
5	Y	400	50	375	183	0.44	50	55	54	12600	0
6	Y	400	50	350	199	0.47	49	54	53	10360	9
7	Y	400	50	330	209	0.48	47	52	51	8150	17
8	Y	400	50	315	220	0.50	46	53	52	6200	22

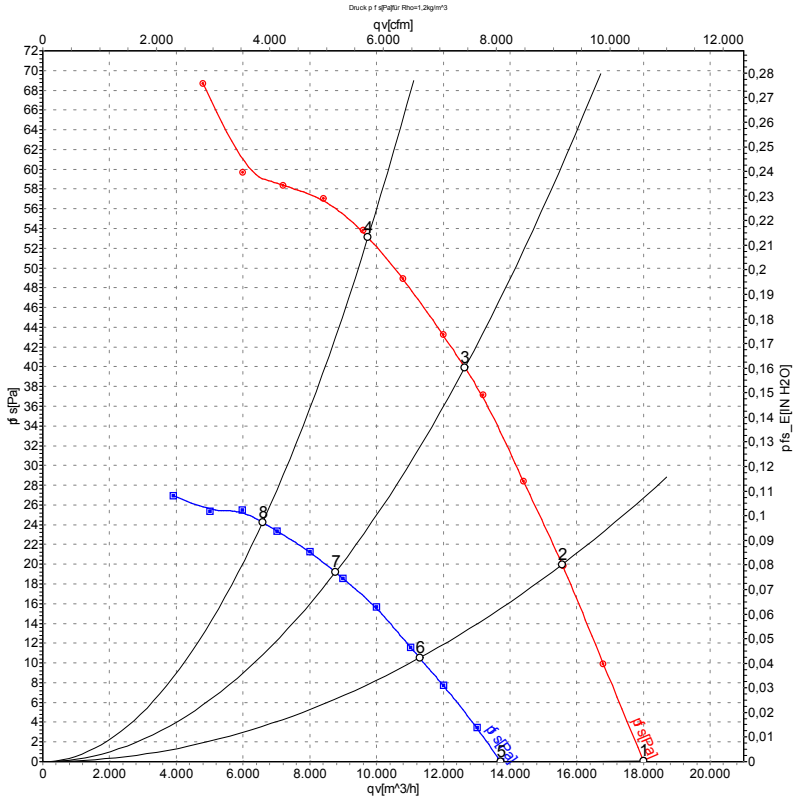
Wired = Wiring · U = Power supply · f = Frequency · n = Speed · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase

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Curves: Air performance 60 Hz



Measurement: LU-102465-1
Measurement: LU-102554-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	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	530	462	1.16	59	65	63	18000	0
2	Δ	480	60	515	520	1.19	58	64	62	15560	20
3	Δ	480	60	505	571	1.23	56	62	61	12650	40
4	Δ	480	60	490	610	1.27	58	64	63	9745	53
5	Y	480	60	405	262	0.51	52	58	56	13710	0
6	Y	480	60	375	277	0.53	50	56	54	11290	10
7	Y	480	60	350	287	0.55	48	54	52	8770	19
8	Y	480	60	330	290	0.57	47	54	53	6585	24

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