

Nominal data

Type	WZD910-GG03-07				
Motor	MZD138-HF				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	400	400	480	480
Connection		Δ	Y	Δ	Y
Frequency	Hz	50	50	60	60
Type of data definition		ml	ml	ml	ml
Valid for approval / standard		-	-	-	-
Speed	min ⁻¹	420	305	485	325
Power input	W	410	210	600	290
Current draw	A	1.13	0.48	1.27	0.56
Max. back pressure	Pa	38	20	50	22
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	65	65	65	65
Starting current	A	2.2		2.2	

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



AC axial fan - HyBlade®

sickled blades (S series)

with full square nozzle

Technical features

Mass	45.2 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
Material of wall ring	Sheet steel, pre-galvanised and plastic-coated in pebble-grey (RAL 7032)
Material of guard grille	Steel, coated in black plastic (RAL9005)
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
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; EN 60034
Approval	VDE

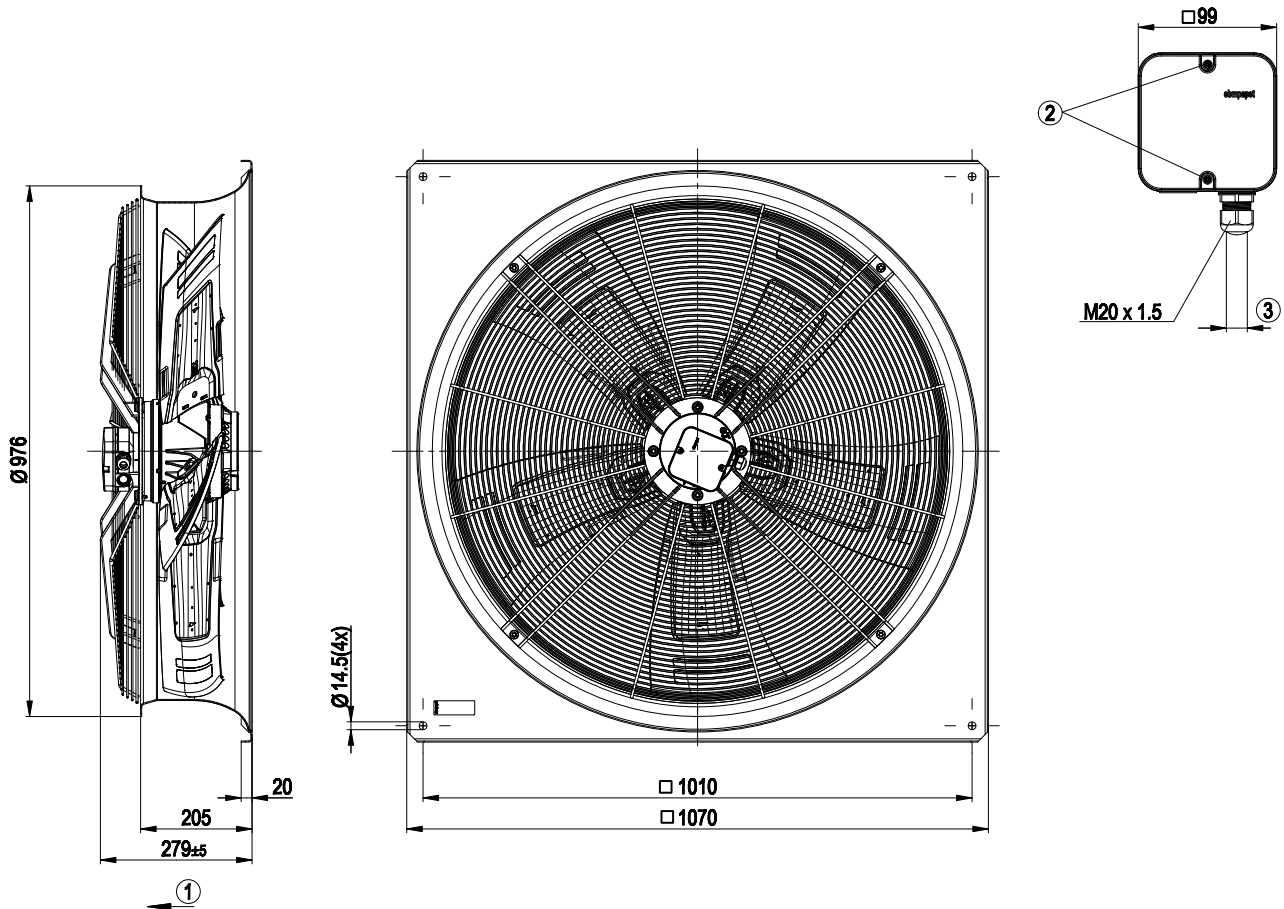


AC axial fan - HyBlade®

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Product drawing

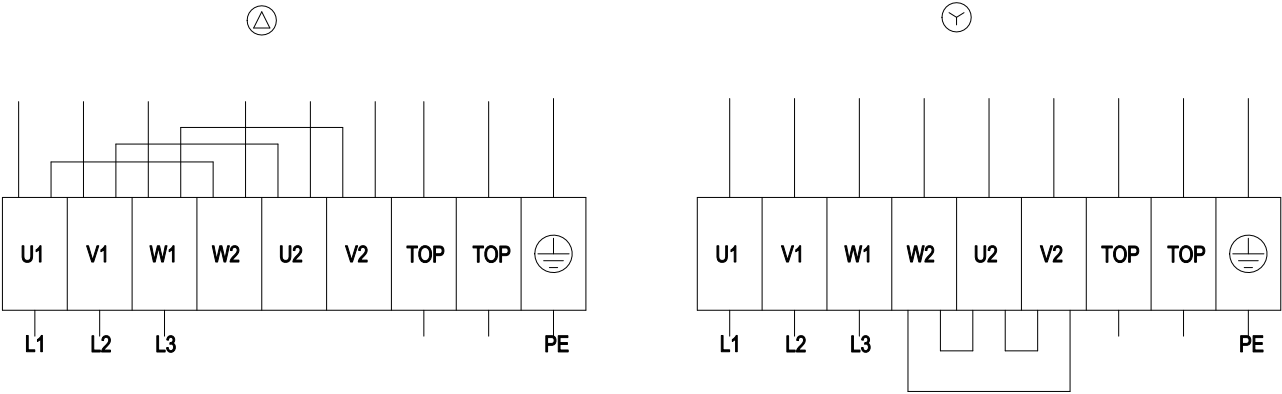


1	Direction of air flow "V"
2	Tightening torque 1.5 ± 0.3 Nm
3	Cable diameter: min. 7 mm, max. 14 mm, tightening torque: 2 ± 0.30 Nm

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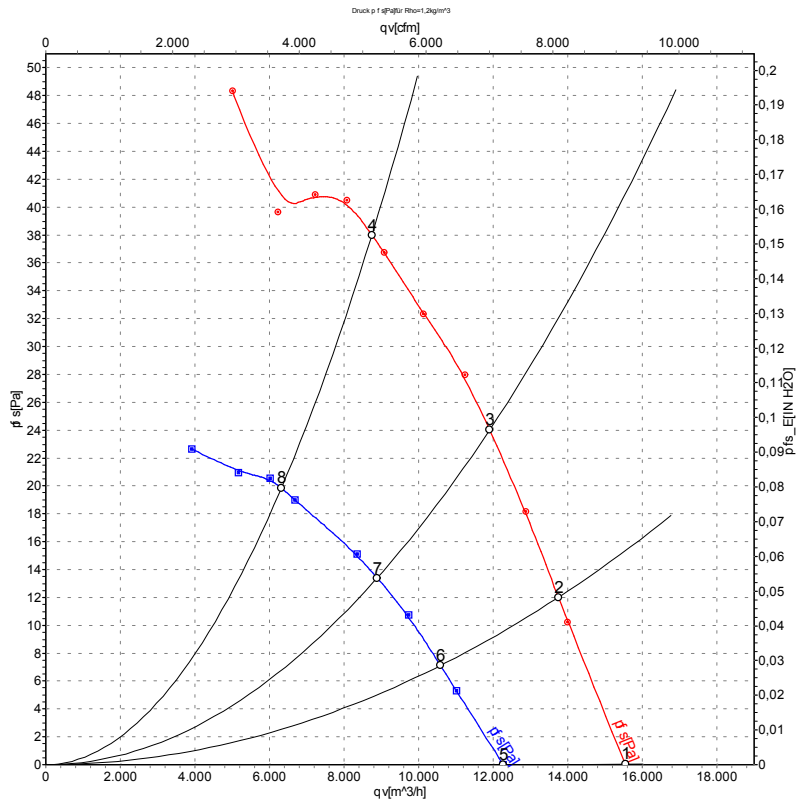
Connection screen



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				



Charts: Air flow 50 Hz



Measurement: LU-121291
Measurement: LU-121304

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.

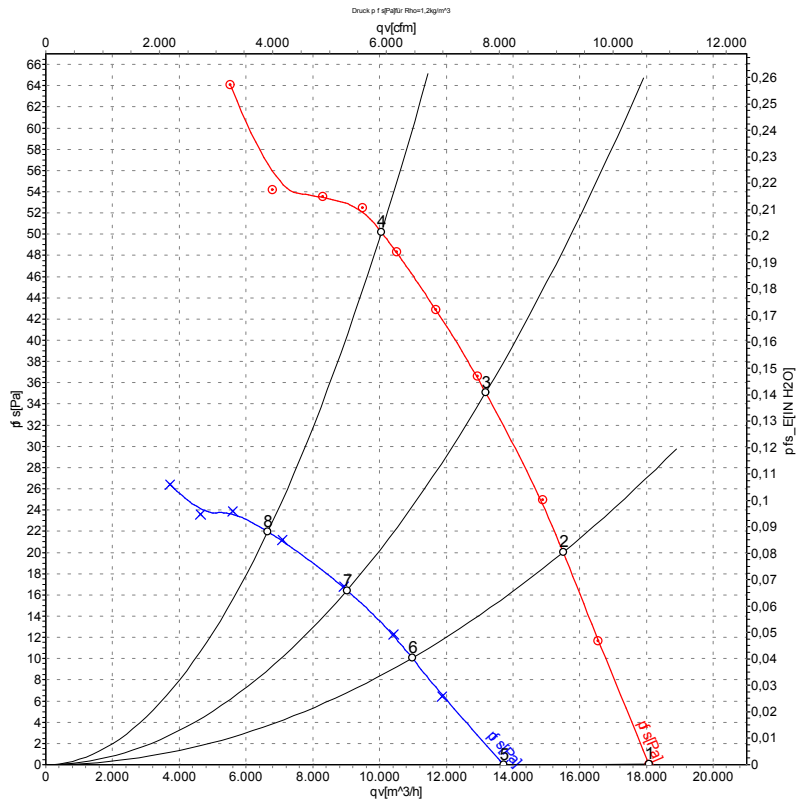
Measured values

	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)	m³/h	Pa
1	Δ	400	50	450	311	1.04	53	59	59	15550	0
2	Δ	400	50	440	342	1.08	51	57	57	13750	12
3	Δ	400	50	430	368	1.10	50	56	56	11900	24
4	Δ	400	50	420	410	1.13	52	59	59	8750	38
5	Y	400	50	360	178	0.42	48	54	54	12270	0
6	Y	400	50	340	189	0.44	45	51	51	10590	7
7	Y	400	50	325	198	0.46	43	49	49	8890	13
8	Y	400	50	305	210	0.48	43	50	50	6320	20

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



Charts: Air flow 60 Hz



Measurement: LU-121295
 Measurement: LU-121309

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)	m³/h	Pa
1	Δ	480	60	525	457	1.11	56	63	62	18070	0
2	Δ	480	60	510	513	1.18	54	60	60	15500	20
3	Δ	480	60	495	551	1.21	53	60	59	13180	35
4	Δ	480	60	485	600	1.27	55	62	62	10060	50
5	Y	480	60	395	250	0.49	51	57	56	13720	0
6	Y	480	60	360	264	0.52	46	53	52	10980	10
7	Y	480	60	340	272	0.53	44	50	50	9020	16
8	Y	480	60	325	290	0.56	46	53	53	6650	22

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