W6D910-KD01-01/S01 **Sample**

AC axial fan - AxiBlade

sickle-shaped blades (S series)

with square full nozzle

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Nominal data

Type	**W6D910-KD01-01/S01**		
Motor	**M6D138-LA**		
Phase		3~	3~
Nominal voltage	VAC	380	380
Wiring		Δ	Y
Frequency	Hz	50	50
Method of obtaining data		ml	ml
Speed (rpm)	min^{-1}	800	524
Power consumption	W	1628	785
Current draw	A	3.24	1.68
Max. back pressure	Pa	176	74
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	55	55
Starting current	A	13	4.3

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	47.2 kg
Size	910 mm
Motor size	138
Rotor surface	Cast in aluminum
Terminal box material	PP plastic
Blade material	PP plastic
Fan housing material	Sheet steel, galvanized and coated with black plastic (RAL 9005)
Guard grille material	Steel, coated with black plastic (RAL 9005)
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	H2
Ambient temperature note	Occasional start-up at temperatures between -40°C and -25°C is permitted. For continuous operation at ambient temperatures below -25°C (such as refrigeration applications), use must be made of a fan design with special low-temperature bearings.
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	Terminal box
Motor protection	Thermal overload protector (TOP) with basic insulation
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60034-1 (2010)
Approval	EAC

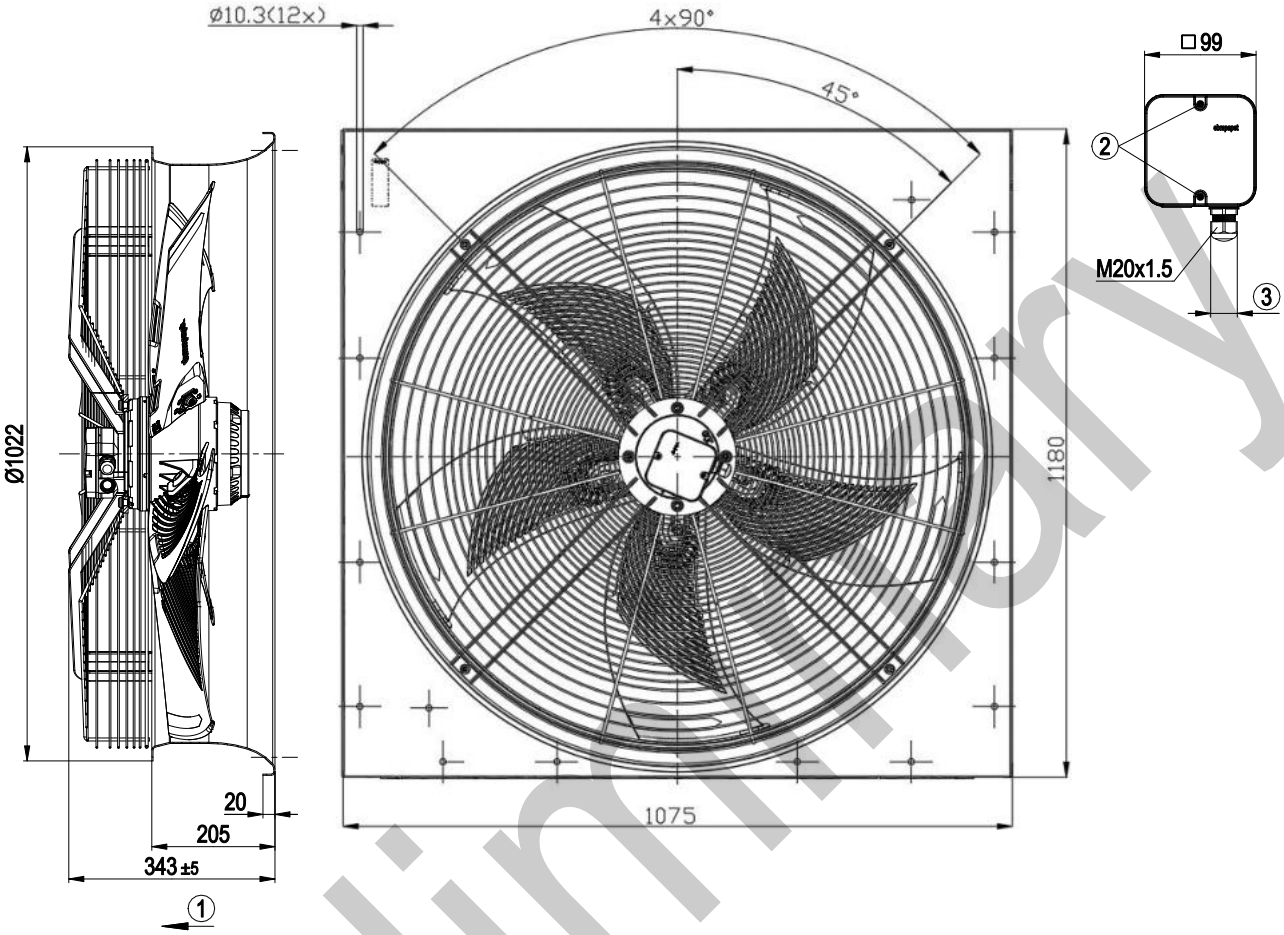
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Product drawing



1	Airflow direction "V"
2	Tightening torque 1.5 ± 0.2 Nm
3	Cable diameter min. 7 mm, max. 14 mm, tightening torque 2 ± 0.3 Nm

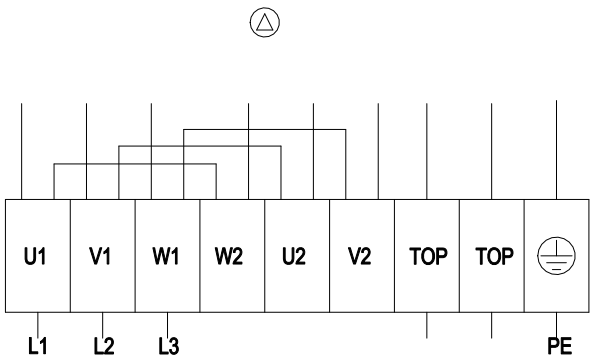
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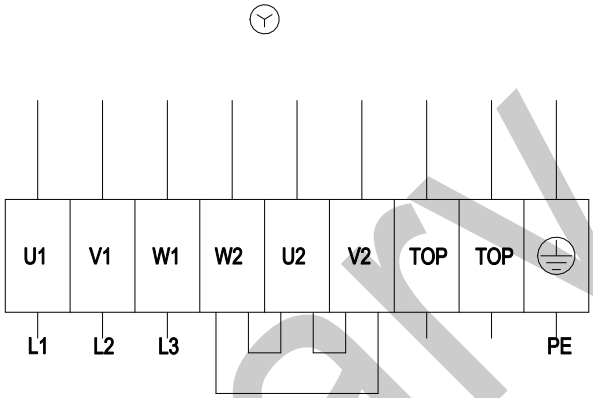
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Connection diagram





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				

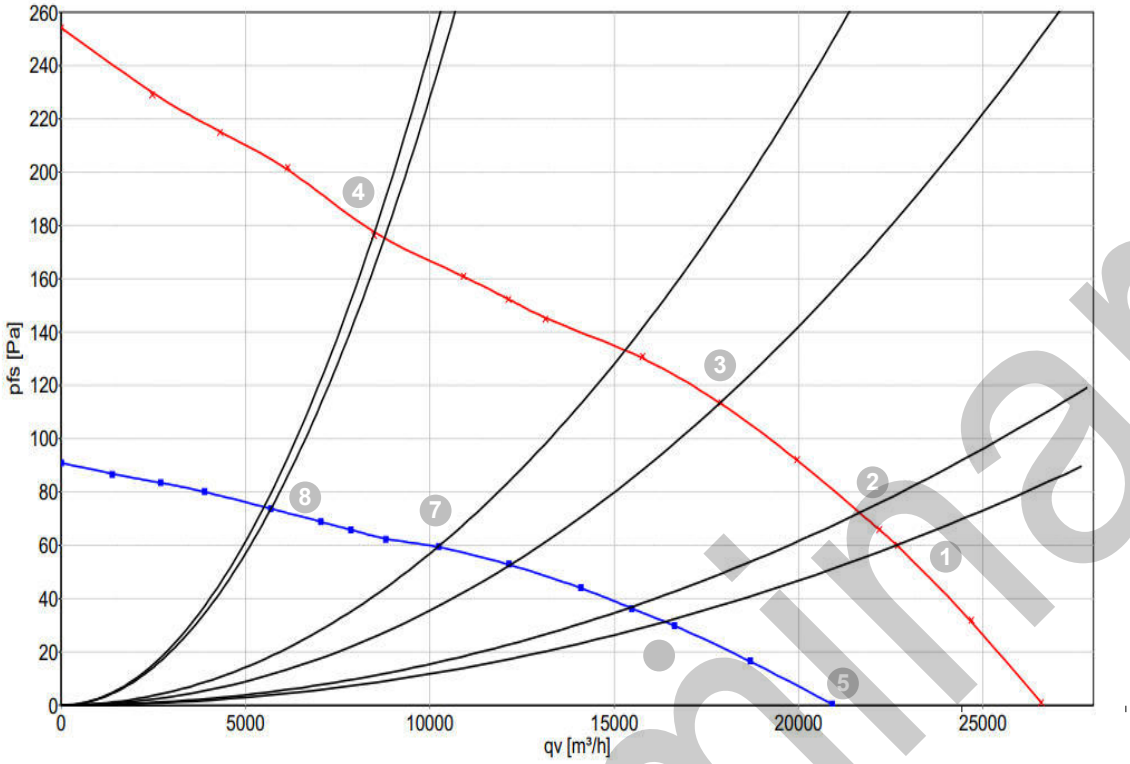
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Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement:12152

Fan performance

	Wired	U	f	n	P_e	I	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	Δ	380	50	904	970	2.10	26588	0
2	Δ	380	50	871	1216	2.50	22690	60
3	Δ	380	50	840	1417	2.85	17903	113
4	Δ	380	50	800	1628	3.24	8480	176
5	Y	380	50	706	664	1.37	20917	0
6	Y	380	50	615	734	1.55	15481	37
7	Y	380	50	552	772	1.65	10245	60
8	Y	380	50	524	785	1.68	5694	74

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw
q_V = Air flow · p_{fs} = Pressure increase

preliminary