

Nominal data

Type	W6D990-GX01-07			
Motor	M6D138-OA			
Phase		3~	3~	3~
Nominal voltage	VAC	400	400	415
Connection		Y	Y	Y
Frequency	Hz	50	50	50
Type of data definition		ml	ml	ml
Valid for approval / standard		CE	CE	CE
Speed	min ⁻¹	925	920	935
Power input	W	2480	2590	2400
Current draw	A	5.37	5.5	5.32
Max. back pressure	Pa	145	170	110
Max. ambient temperature	°C	60	55	70
Starting current	A	20.0	20.0	22.5

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 = $1 + p_b / 100\,000\text{ Pa}$

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	39.8	32.2	36.2
Efficiency grade N	43.6	36	40
Power input P_e	kW	2.56	
Air flow q_v	m³/h	22085	
Pressure increase p_{fs}	Pa	167	
Speed n	min ⁻¹	920	

Data established at point of optimum efficiency



Technical features

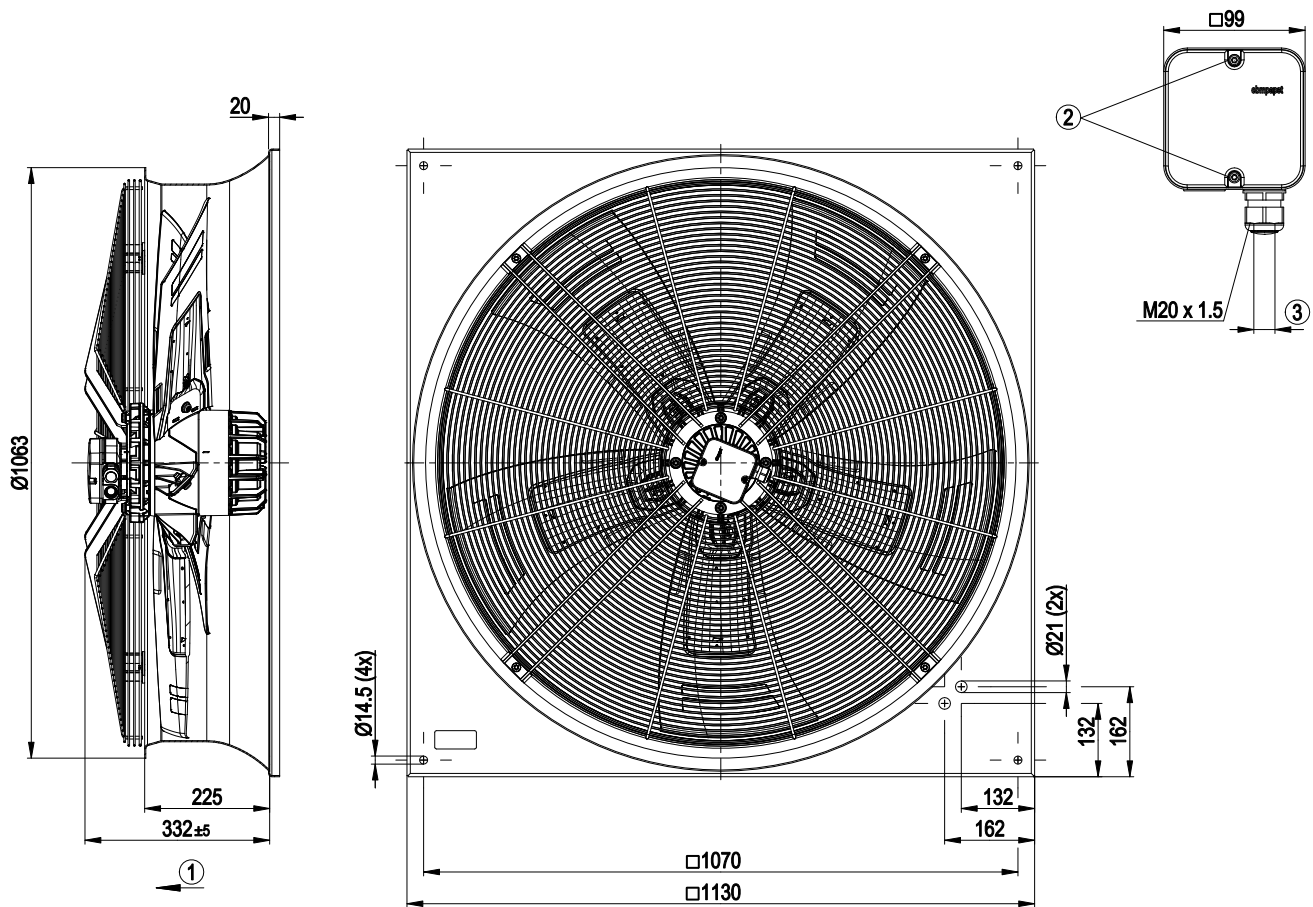
Mass	56.5 kg
Size	990 mm
Surface of rotor	Cast in aluminium
Material of terminal box	ABS plastic
Material of blades	Aluminium sheet insert, sprayed with PP plastic
Material of wall ring	Sheet steel, pre-galvanised and coated in black plastic (RAL 9005)
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Blade angle	-5°
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	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
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	VDE

AC axial fan - HyBlade®

sickled blades (S series)

with full square nozzle

Product drawing

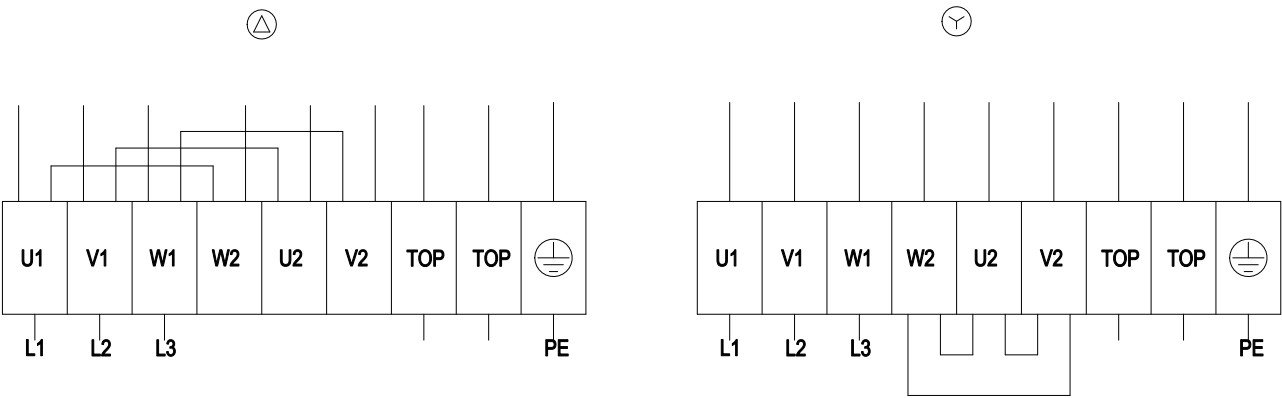


1	Direction of air flow "V"
2	Tightening torque 1.5 ± 0.2 Nm
3	Cable diameter: min. 7 mm, max. 14 mm, tightening torque: 2 ± 0.3 Nm

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Connection screen



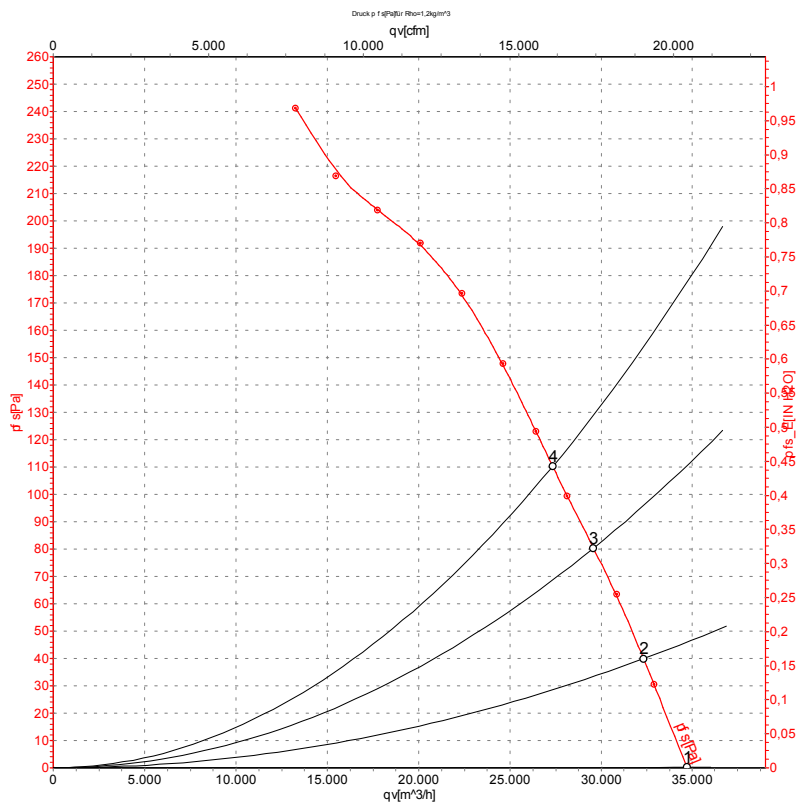
Δ	Delta connection	Y	Star connection	L1	= U1 = black
L2	= V1 = blue	L3	= W1 = brown	W2	yellow
U2	green	V2	white	TOP	2 x grey
PE	green/yellow				



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Charts: Air flow 50 Hz



Measurement: LU-112749

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: L_{wA} measured as per ISO 13347 /
L_{pA} 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	L _{pA_{in}}	L _{wA_{in}}	L _{wA_{out}}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa
1	Y	415	50	960	1677	4.56	76	83	84	34710	0
2	Y	415	50	950	1924	4.80	75	82	83	32320	40
3	Y	415	50	940	2165	5.05	75	82	82	29580	80
4	Y	415	50	935	2400	5.32	75	82	83	27350	110

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

