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Nominal data

Type	W6D800-GE05-03								
Motor	M6D138-LA								
Phase		3~	3~	3~	3~	3~	3~	3~	3~
Nominal voltage	VAC	220	230	230	277	380	400	400	480
Connection		Δ	Δ	Δ	Δ	Y	Y	Y	Y
Frequency	Hz	60	50	60	60	60	50	60	60
Type of data definition		ml	ml	ml	ml	ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE	CE	CE	CE	CE
Speed	min ⁻¹	1010	905	1030	1080	1010	905	1030	1080
Power input	W	1930	1570	1990	2180	1930	1570	1990	2180
Current draw	A	6.85	5.92	6.5	6.6	3.95	3.42	3.78	3.8
Max. back pressure	Pa	130	170	135	150	130	170	135	150
Min. ambient temperature	°C	-40	-40	-40	-40	-40	-40	-40	-40
Max. ambient temperature	°C	60	65	60	60	60	65	60	60
Starting current	A		22	17.5	24		13	10	14

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

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	37.4	30.6	34.6
Efficiency grade N		42.8	36	40
Power input P_e	kW	1.38		
Air flow q_v	m ³ /h	14570		
Pressure increase p_{fs}	Pa	128		
Speed n	min ⁻¹	920		

Data definition with optimum efficiency.

LU-114552

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



Technical features

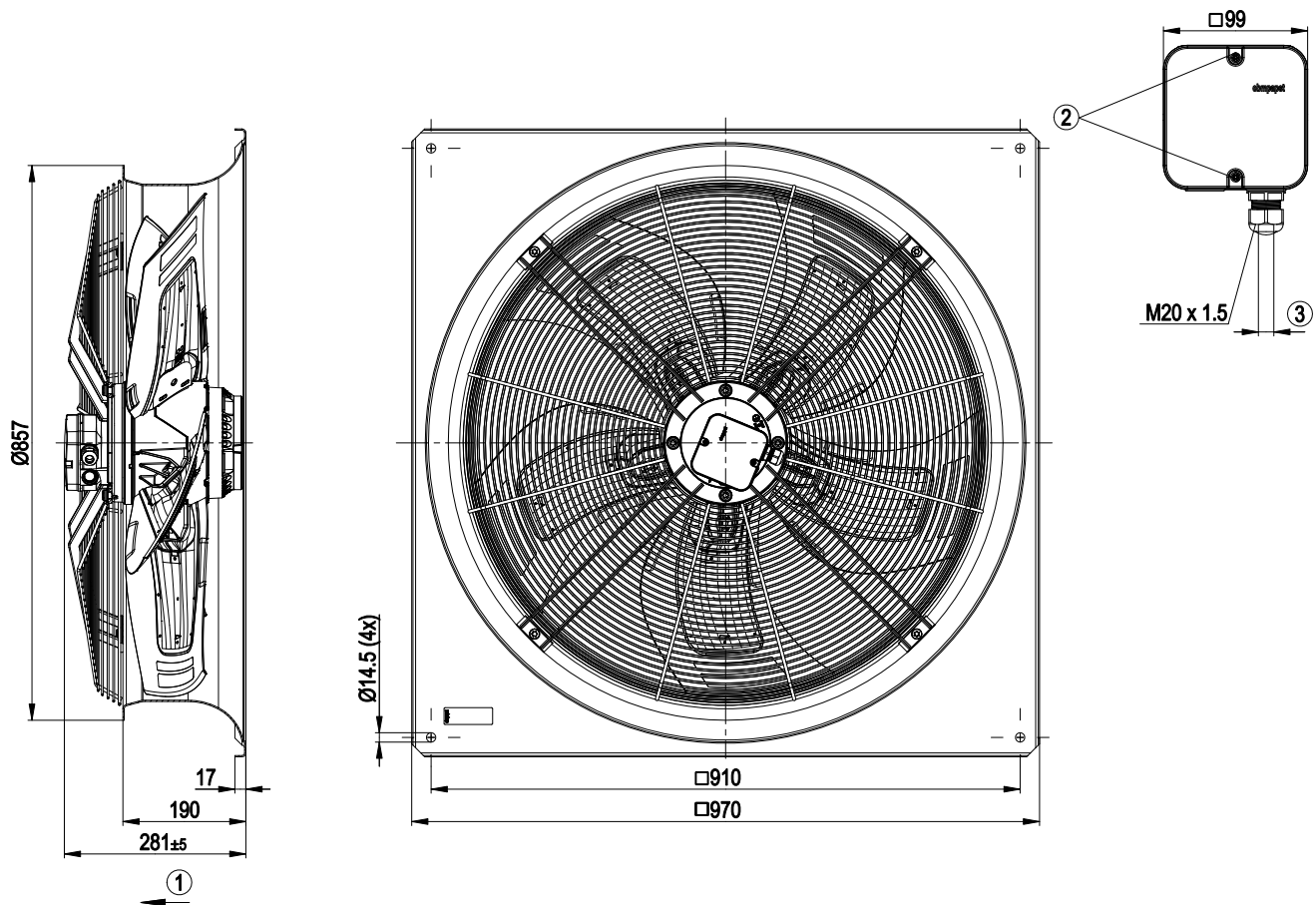
Mass	44 kg
Size	800 mm
Surface of rotor	Cast in aluminium
Material of terminal box	PC / ABS plastic
Material of blades	Aluminium sheet insert, sprayed with PP plastic
Material of wall ring	Sheet steel, pre-galvanised and coated in black plastic (RAL 9005)
Material of guard grille	Steel, coated in black 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	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
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	CSA C22.2 Nr.100; EAC; UL 1004-1

AC axial fan - HyBlade®

sickled blades (S series)

with full square nozzle

Product drawing

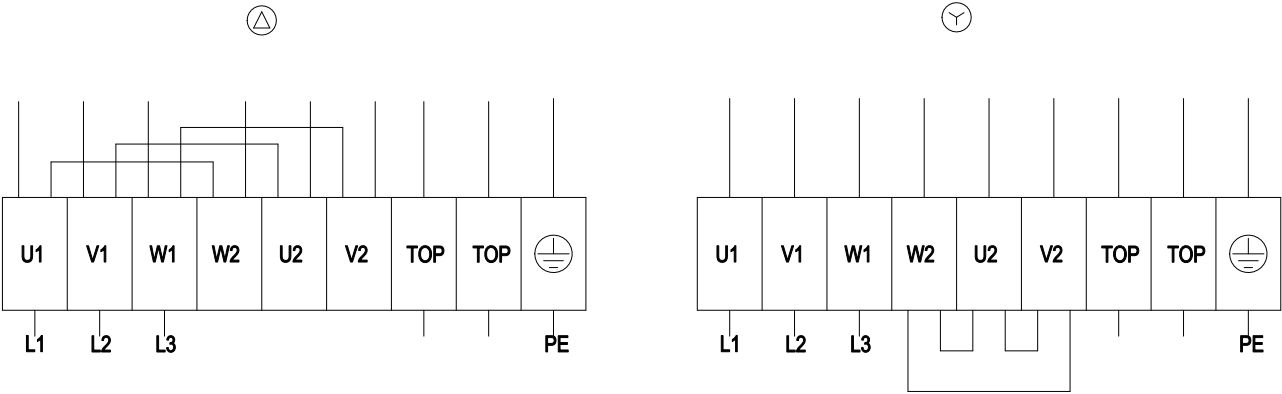


1	Direction of air flow "V"
2	Tightening torque 1.5 ± 0.2 Nm
3	Cable diameter: min. 7 mm, max. 14 mm, tightening torque: 2 ± 0.3 Nm

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Connection screen

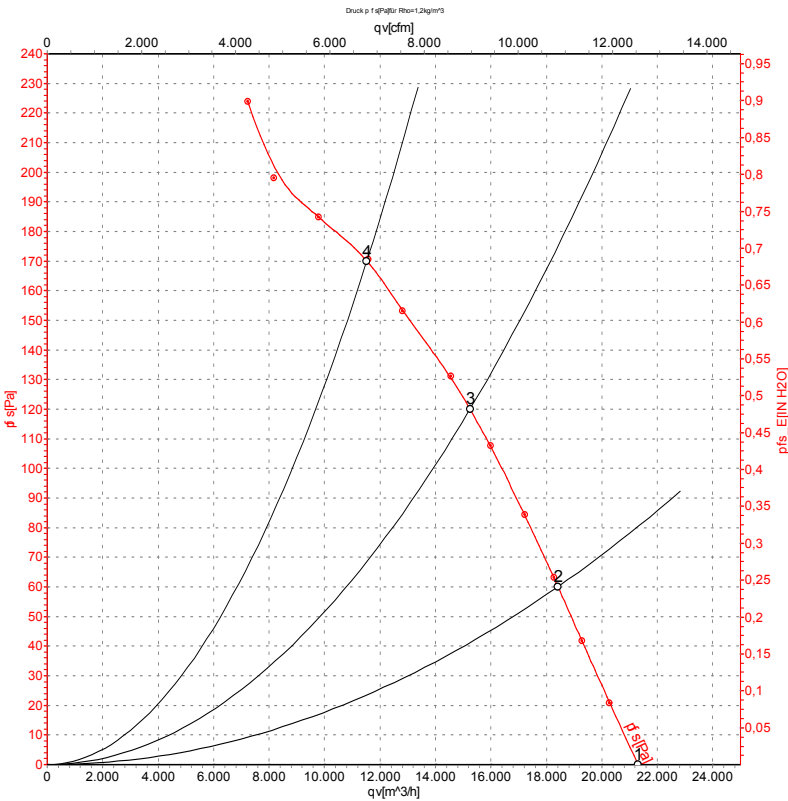


Δ	Delta connection	Y	Star connection	L1	= U1 = black
L2	= V1 = blue	L3	= W1 = brown	W2	yellow
U2	green	V2	white	TOP	2 x grey
PE	green/yellow				

AC axial fan - HyBlade®

sickled blades (S series)
with full square nozzle

Charts: Air flow 50 Hz



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)	m ³ /h	Pa
1	Y	400	50	950	992	2.81	67	73	73	21310	0
2	Y	400	50	935	1199	2.99	63	70	69	18420	60
3	Y	400	50	925	1358	3.20	67	73	72	15250	120
4	Y	400	50	905	1570	3.42	71	78	77	11530	170

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

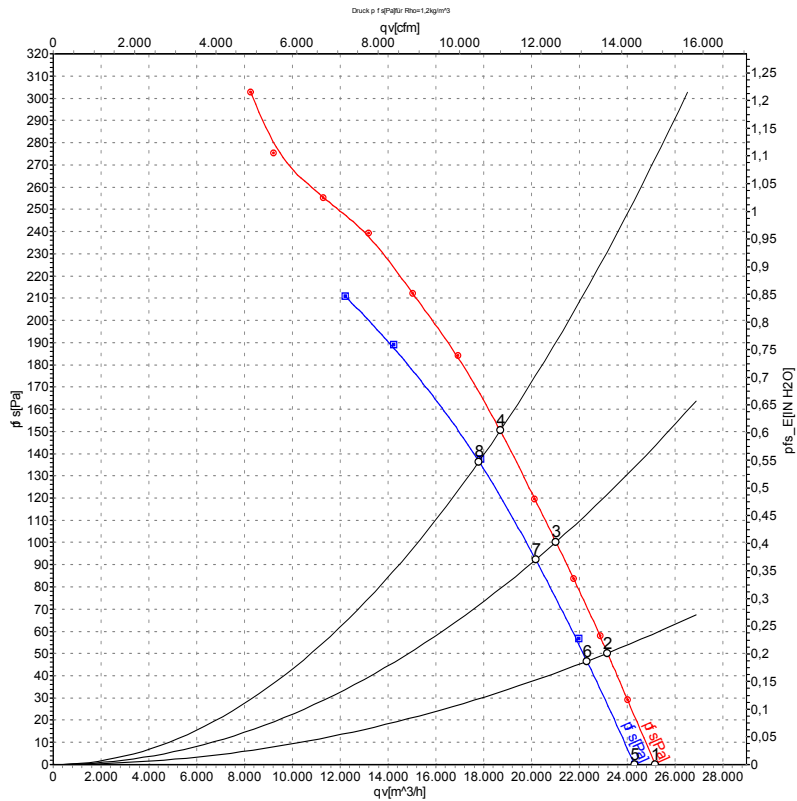


AC axial fan - HyBlade®

sickled blades (S series)

with full square nozzle

Charts: Air flow 60 Hz



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)	m ³ /h	Pa
1	Y	480	60	1125	1619	3.22	71	78	78	25190	0
2	Y	480	60	1110	1817	3.44	68	75	75	23190	50
3	Y	480	60	1100	2010	3.66	68	75	74	21030	100
4	Y	480	60	1080	2180	3.80	70	77	75	18700	150
5	Y	400	60	1090	1513	3.12	70	76	77	24310	0
6	Y	400	60	1070	1686	3.39	67	74	74	22330	48
7	Y	400	60	1055	1830	3.62	68	74	74	20180	92
8	Y	400	60	1030	1990	3.78	69	75	74	17810	135

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

