

Nominal data

Type	W4D630-CH03-08		
Motor	M4D138-HF		
Phase		3~	3~
Nominal voltage	VAC	230	400
Connection		Δ	Y
Frequency	Hz	50	50
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min ⁻¹	1320	1320
Power input	W	2000	2000
Current draw	A	6.19	3.56
Max. back pressure	Pa	215	215
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	60	60
Starting current	A	24	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}	%	35.4	31.4	35.4
Efficiency grade N		40	36	40
Power input P_e	kW	1.86		
Air flow q_v	m ³ /h	12495		
Pressure increase p_{fs}	Pa	188		
Speed n	min ⁻¹	1340		

Data definition with optimum efficiency. LU-122832
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

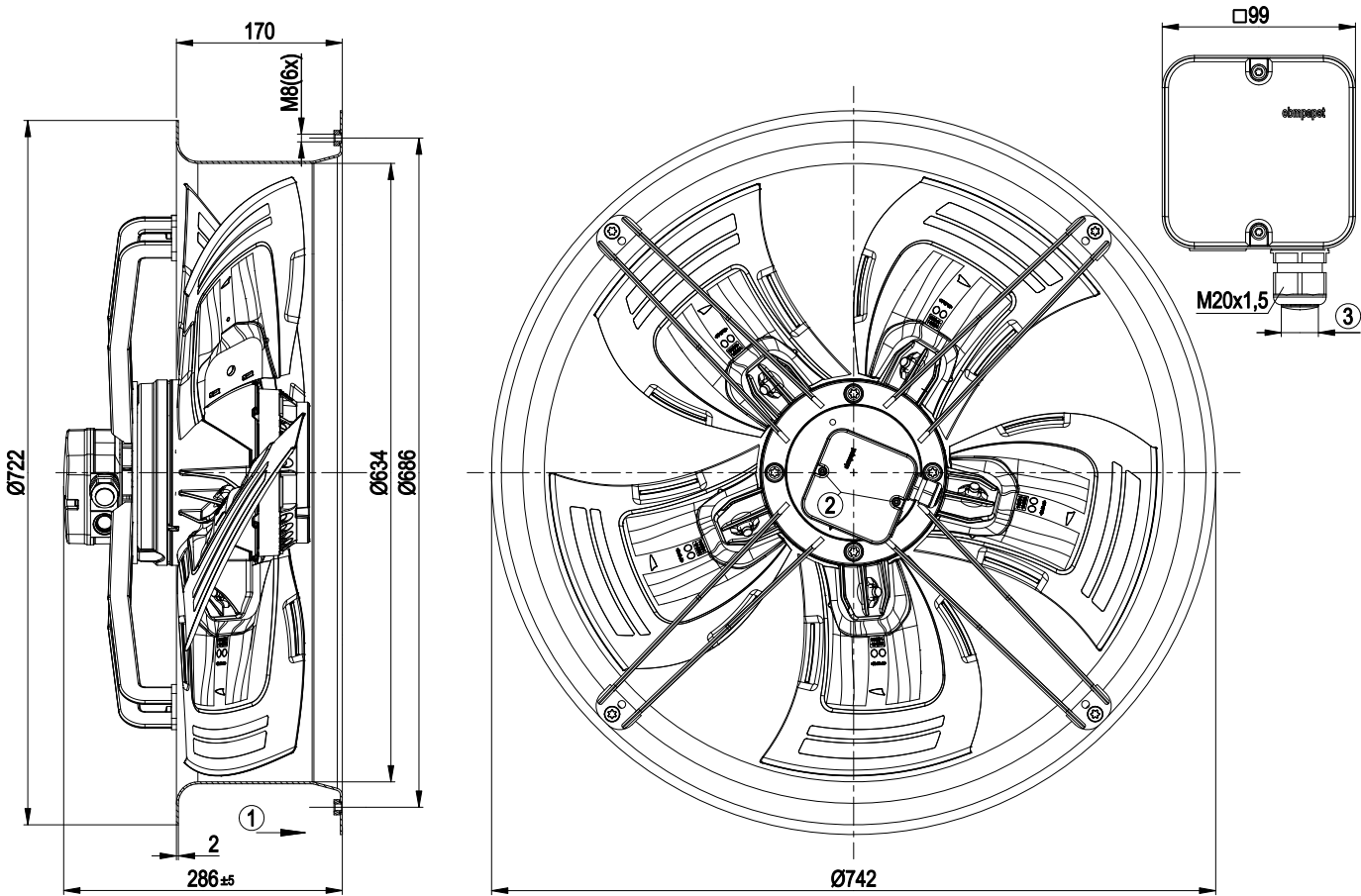
Technical features

Mass	30.5 kg
Size	630 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 mounting ring	Steel, phosphated and coated in black plastic
Number of blades	5
Blade angle	-5°
Direction of air flow	"A"
Direction of rotation	Counter-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 top; rotor on bottom on request
Condensate discharge holes	On the stator side
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 61800-5-1; EN 60034; CE
Approval	EAC; VDE

AC axial fan - HyBlade®

sickled blades (S series)
with support ring

Product drawing



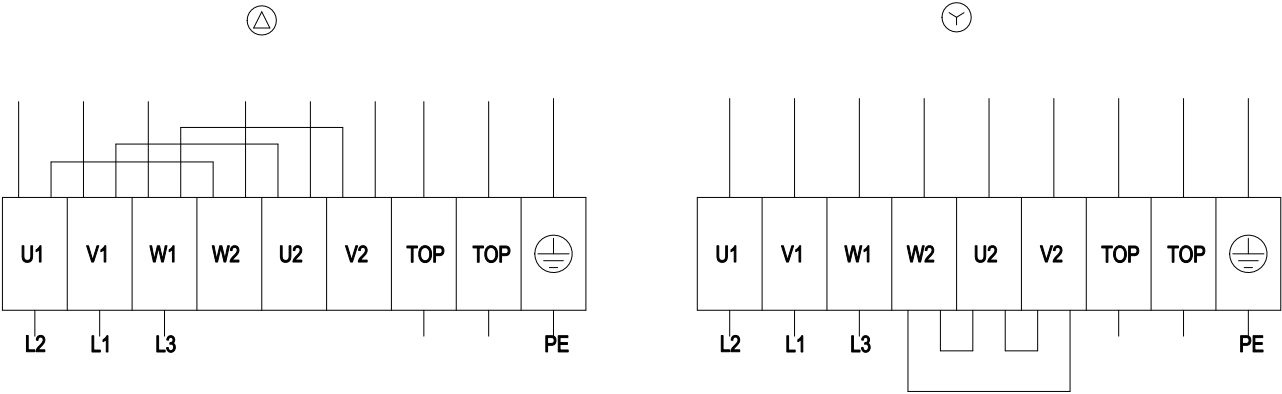
1	Direction of air flow "A"
2	Tightening torque 1.5 Nm±0.2 Nm
3	Cable diameter min. 7 mm, max. 14 mm, tightening torque 2 Nm ±0.3 Nm



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Connection screen



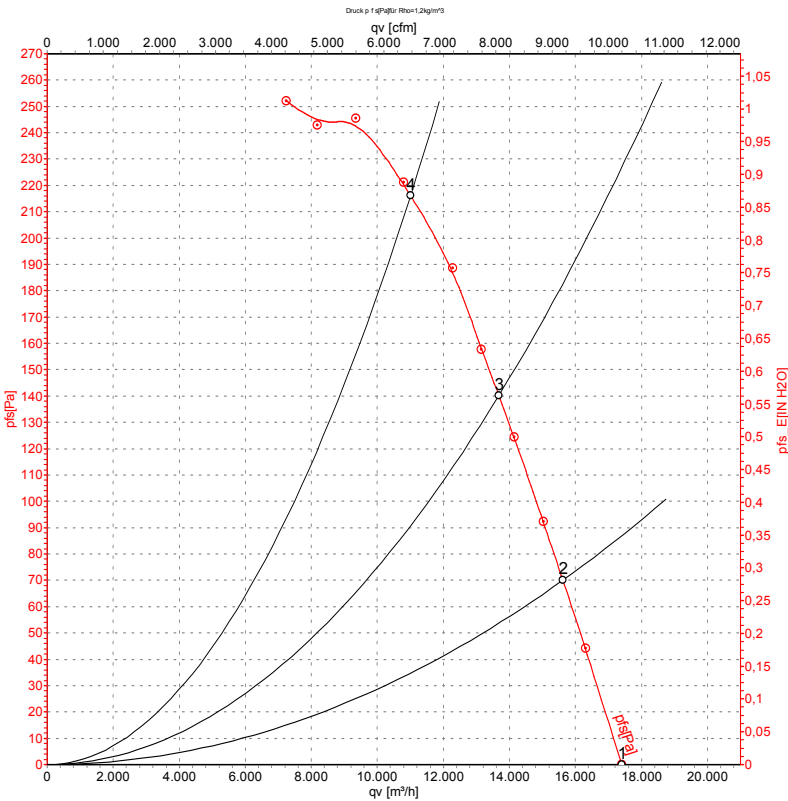
Δ	Delta connection	Y	Star connection	L1	= V1 = blue
L2	= U1 = black	L3	= W1 = brown	W2	yellow
U2	green	V2	white	TOP	2 x grey
PE	green/yellow				



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Charts: Air flow 50 Hz



Measurement: LU-120912

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	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	Y	400	50	1380	1437	2.69	69	76	77	17400	0
2	Y	400	50	1360	1613	2.91	68	75	76	15620	70
3	Y	400	50	1340	1790	3.13	68	75	76	13680	140
4	Y	400	50	1320	2000	3.56	72	79	78	11010	215

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

