



Nominal data

Type	W4D560-DN03-02		
Motor	M4D110-GF		
Phase		3~	3~
Nominal voltage	VAC	400	400
Connection		Δ	Y
Frequency	Hz	50	50
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min ⁻¹	1270	940
Power input	W	1020	620
Current draw	A	1.76	1.05
Max. back pressure	Pa	160	90
Max. ambient temperature	°C	60	60

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 integrated	No
Specific ratio*	1,00

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

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	30,9	29,8	33,8
Efficiency grade N	37,1	36	40
Power input P_e	kW	1,03	
Air flow q_v	m ³ /h	6505	
Pressure increase p_{fs}	Pa	178	
Speed n	min ⁻¹	1270	

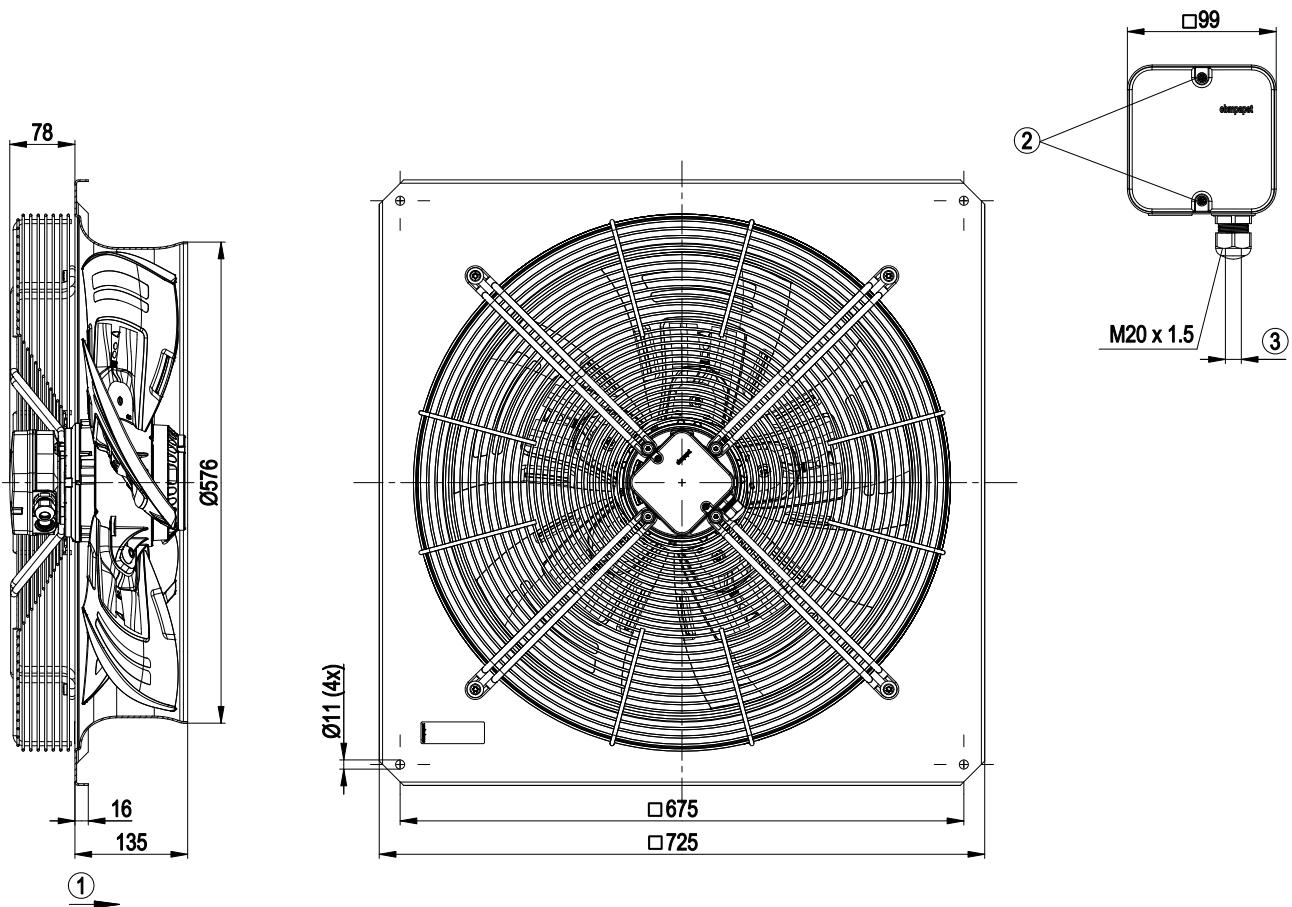
Data established at point of optimum efficiency



Technical features

Mass	22.3 kg
Size	560 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 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	"A"
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
Leakage current	<= 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; CE
Approval	VDE

Product drawing

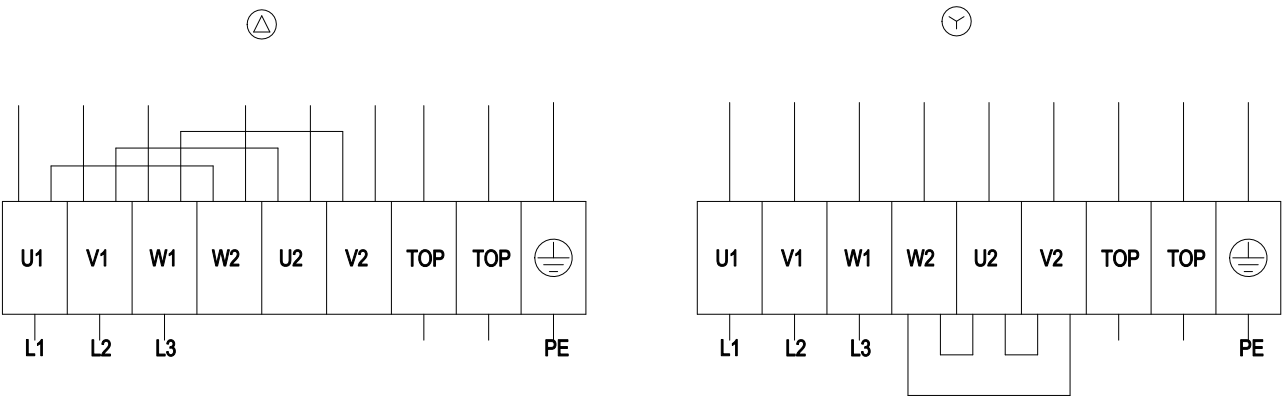


1	Direction of air flow "A"
2	Tightening torque 1.5 ± 0.2 Nm
3	Cable diameter: min. 6 mm, max. 12 mm, tightening torque: 2 ± 0.3 Nm

AC axial fan - HyBlade®

sickled blades (S series)
with full square nozzle

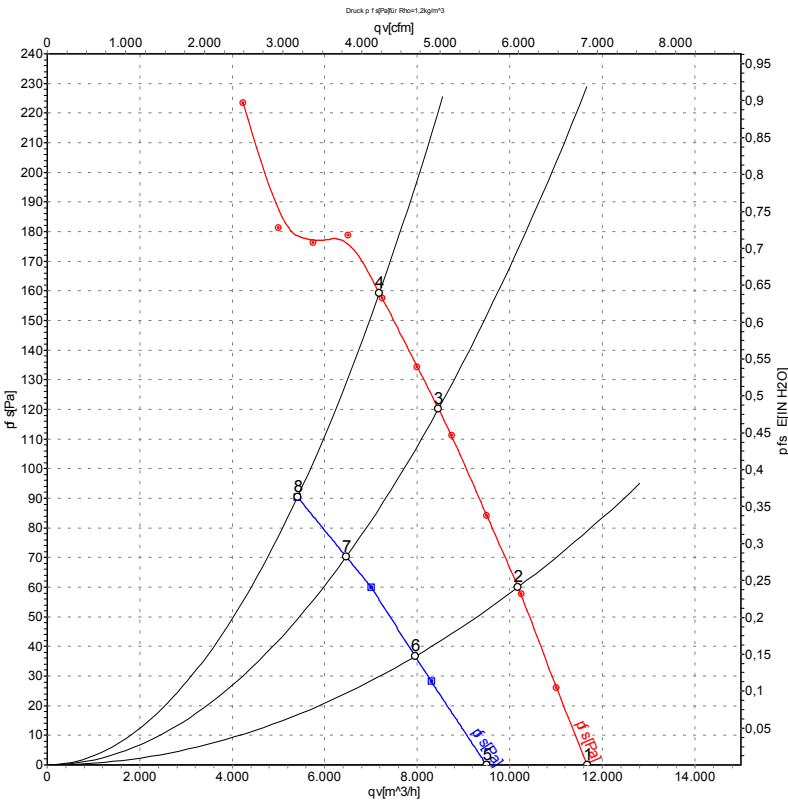
Connection screen



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-106705
Measurement: LU-109856

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	Δ	400	50	1350	756	1.41	69	75	75	11680	0
2	Δ	400	50	1320	870	1.56	67	73	73	10180	60
3	Δ	400	50	1300	940	1.65	66	73	72	8460	120
4	Δ	400	50	1270	1020	1.76	70	76	76	7185	160
5	Y	400	50	1095	530	0.88	63	71	71	9500	0
6	Y	400	50	1025	568	0.94	60	67	66	7955	37
7	Y	400	50	980	596	1.01	63	69	69	6465	67
8	Y	400	50	940	620	1.05	63	69	68	5410	90

