

W6D630-KN01-11 ebmpapst Datasheet

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Nominal data

Type	W6D630-KN01-11	
Motor	M6D110-GF	
Phase		3~
Nominal voltage	VAC	400
Connection		Δ
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed (rpm)	min ⁻¹	890
Power input	W	570
Current draw	A	1.2
Max. back pressure	Pa	105
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	40
Starting current	A	4

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data in accordance with ecodesign regulation EU 327/2011

		Actual	Request 2015		
01 Overall efficiency η_{es}	%	39.3	32.1	09 Power input P_e	kW 0.57
02 Measurement category		A		09 Air flow q_v	m ³ /h 6750
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa 121
04 Efficiency grade N		47.2	40	10 Speed (rpm) n	min ⁻¹ 890
05 Variable speed drive		No		11 Specific ratio*	1.00

Data definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.* Specific ratio = $1 + p_g / 100\,000\text{ Pa}$

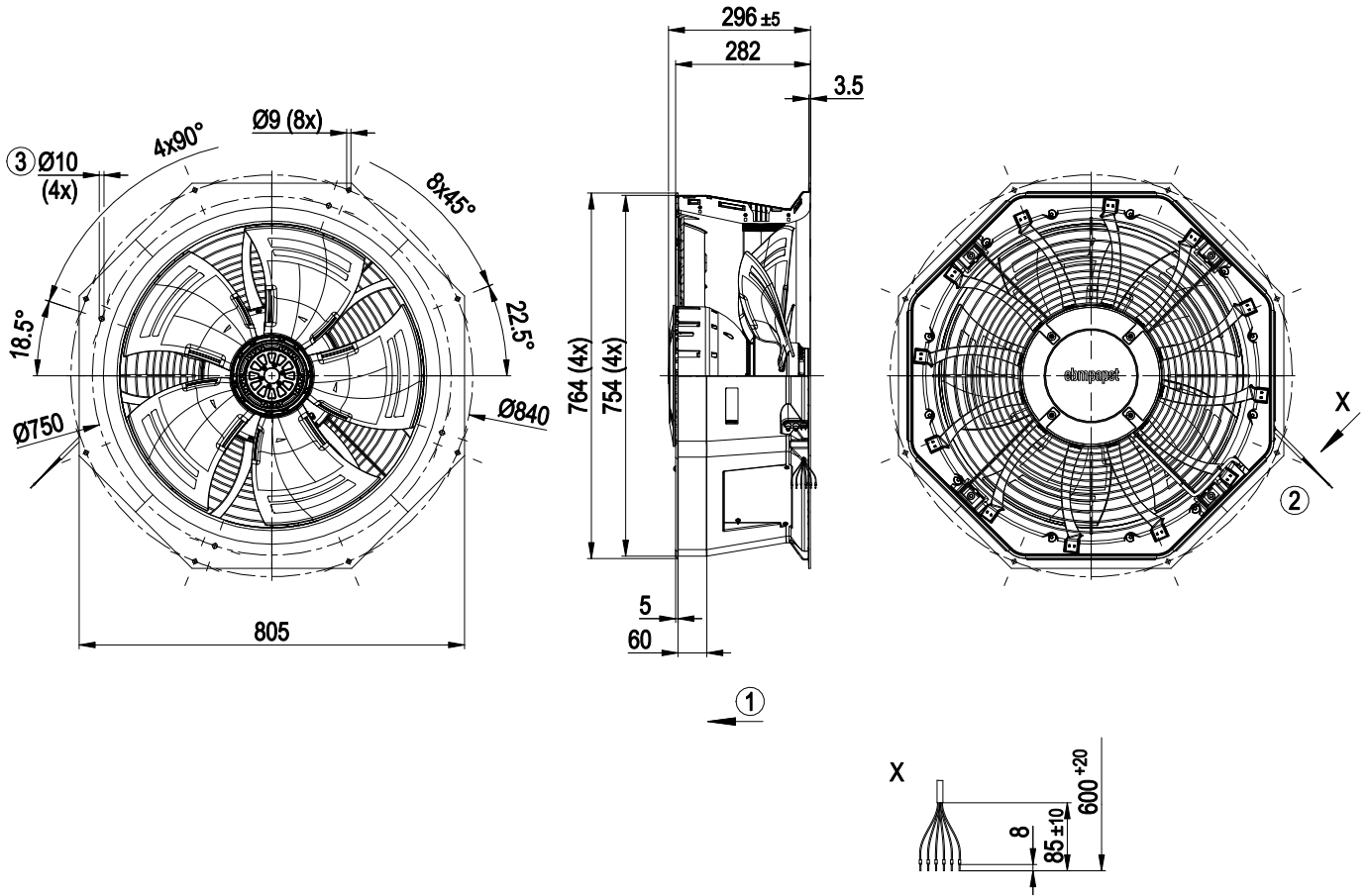
LU-177711



Technical features

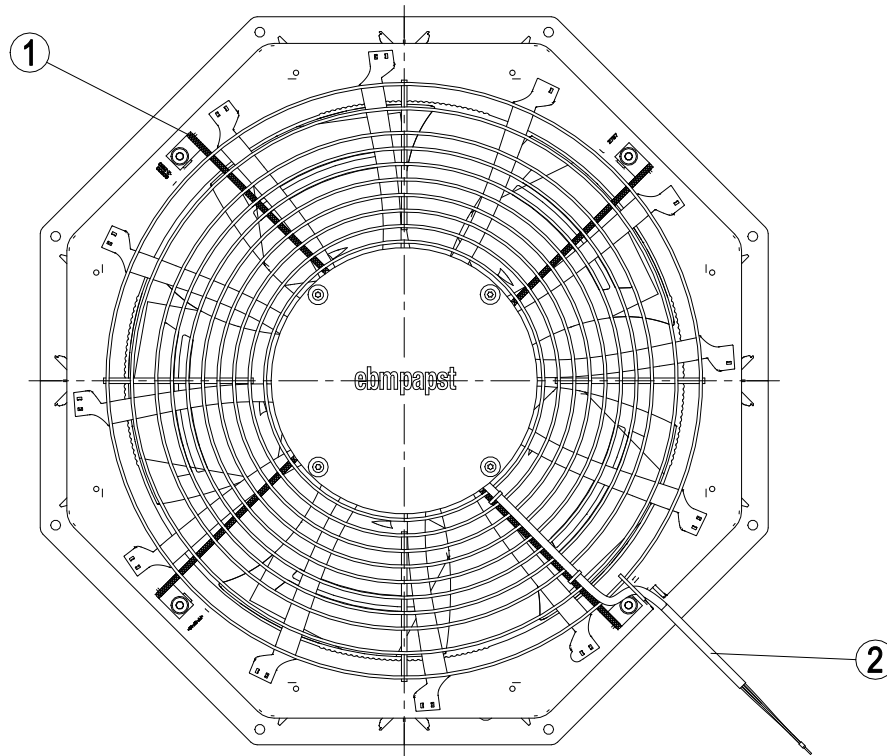
Mass	21.5 kg
Size	630 mm
Motor size	110
Surface of rotor	Coated in black
Material of terminal box	PP plastic
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Material of wall ring	PP plastic
Streamer material	PP plastic
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	V
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP54
Insulation class	"F"
Humidity (F) / environmental protection class (H)	H2
Note ambient temperature	If there is a risk of ice formation, the fan is only to be operated with a heating tape in the wall ring. Contact ebm-papst for more details. As a fan only suitable for use with industrial evaporators
Max. permissible ambient motor temp. (transp./ storage)	+ 70 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	See fitting instructions
Condensation drainage holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing with anti-freezing grease
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) brought out, basic insulation
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60034-1 (2010); EN 61800-5-1; CE
Approval	EAC; VDE

Product drawing



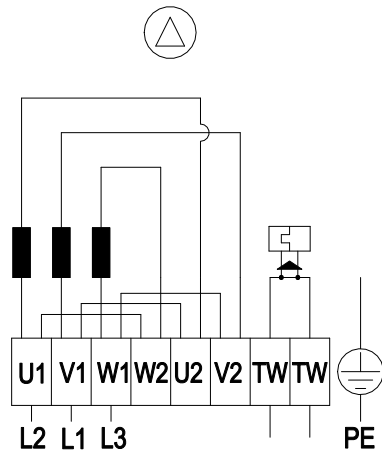
1	Direction of air flow "V"
2	Connection line silicone 6G 0.5 mm ² , 6x crimped core-end sleeves
3	Mounting holes for FlowGrid





- | | |
|---|---|
| 1 | Installation position: shaft horizontal (install the support struts in X-position only as shown in illustration) or rotor on bottom |
| 2 | Cable exit must be at bottom right when shaft is installed in horizontal position. |

Connection screen

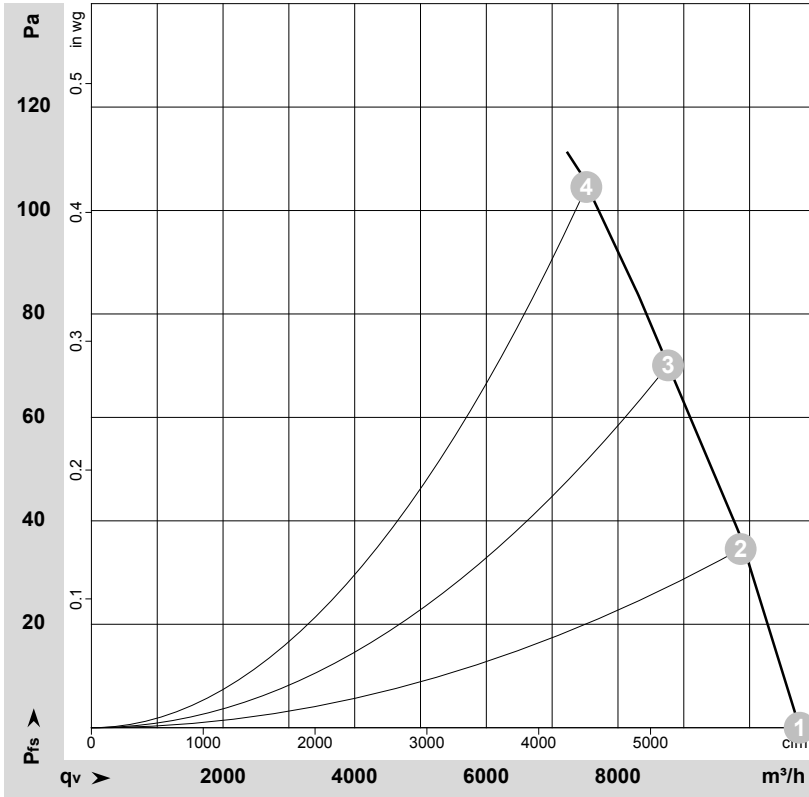


Three-phase motor equipped with TOP
 Change in direction of rotation by reversing two phases

Δ	Delta connection
L1	blue
L2	black
L3	brown
TW	Thermal overload protector grey (2x)
PE	green/yellow



Charts: Air flow 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-177711-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. 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	Pe	I	LpA _{in}	LwA _{in}	LwA _{out}	qv	Pfs	qv	Pfs
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m ³ /h	Pa	cfm	in. wg
1	Δ	400	50	925	447	1.09	66	73	74	10760	0	6335	0.00
2	Δ	400	50	910	493	1.12	63	71	72	9865	37	5805	0.15
3	Δ	400	50	900	530	1.16	61	69	70	8760	70	5155	0.28
4	Δ	400	50	890	570	1.20	62	69	70	7520	105	4425	0.42

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed (rpm) · Pe = 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 · Pfs = Pressure increase

