

W2E300-GC47-12 ebmpapst Datasheet

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Nominal data

Type	W2E300-GC47-12		
Motor	M2E068-EC		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2650	2900
Power consumption	W	140	190
Current draw	A	0.62	0.83
Capacitor	μF	5	5
Capacitor voltage	VDB	400	400
Max. back pressure	Pa	150	150
Max. back pressure	inH ₂ O	0.6	0.6
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	75	70

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Data according to ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	28.7	28.6
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		40.1	40
05 Variable speed drive		No	

Data obtained at optimum efficiency level.

The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

09 Power consumption P_e	kW	0.16
09 Air flow q_v	m ³ /h	1650
09 Pressure increase p_{fs}	Pa	100
10 Speed (rpm) n	min ⁻¹	2565
11 Specific ratio*		1.00

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

LU-66600

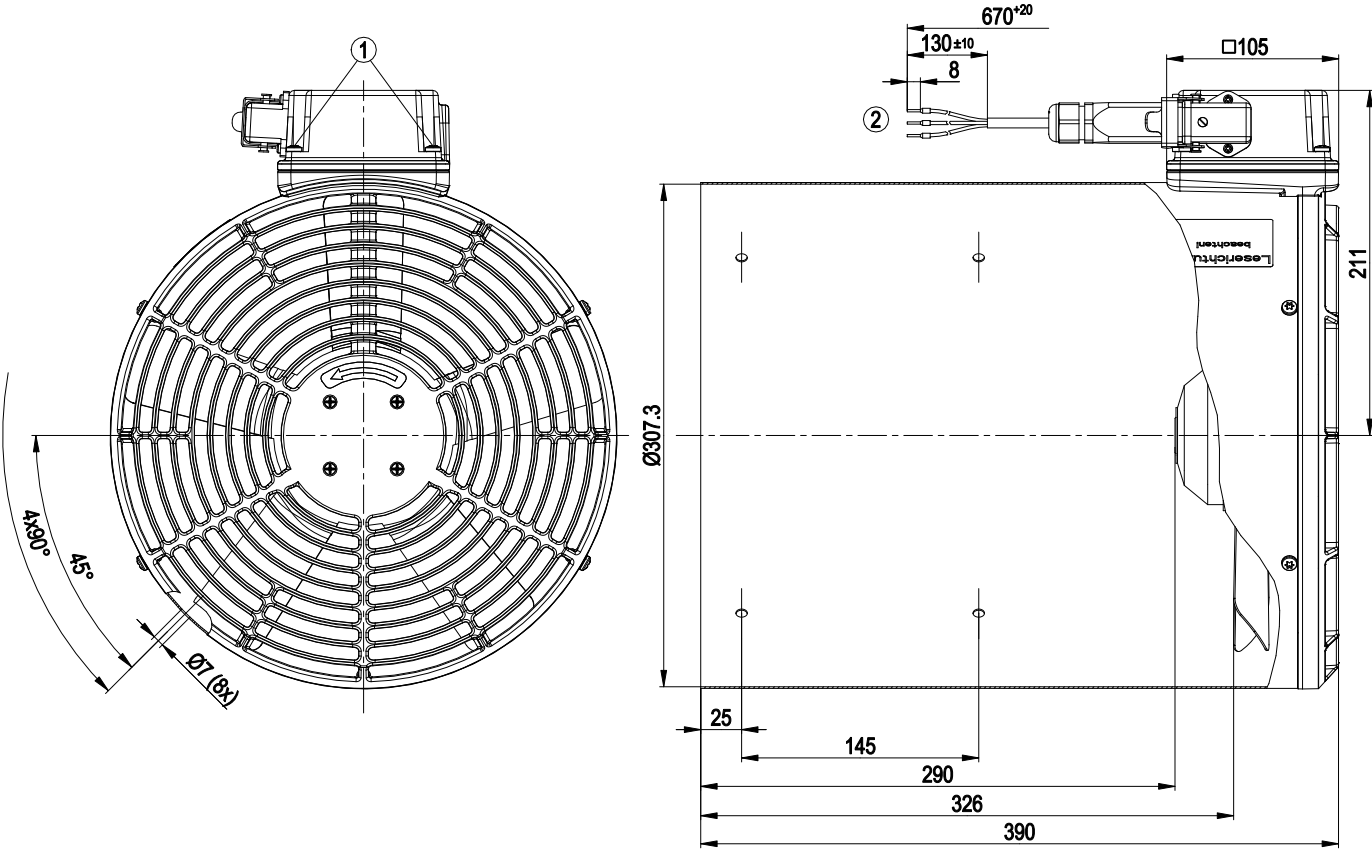


Technical description

Weight	7.48 kg
Fan size	300 mm
Rotor surface	Painted black
Terminal box material	Die-cast aluminum
Blade material	Sheet steel, painted black
Housing material	Sheet steel, galvanized
Guard grille material	Die-cast aluminum
Number of blades	5
Airflow direction	"A"
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H0+
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Via terminal box, capacitor integrated and connected
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	P0/S0
Conformity with standards	EN 60335-1; CE



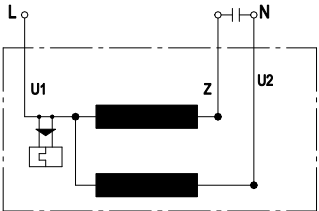
Product drawing



We recommend a minimum clearance of 0.1 x impeller diameter between guard grille and wall to prevent air performance losses.

- | | |
|---|---|
| 1 | Tightening torque 3.5 ± 0.3 Nm |
| 2 | Cable silicone 3x 0.5 mm ² , 3x crimped ferrules |

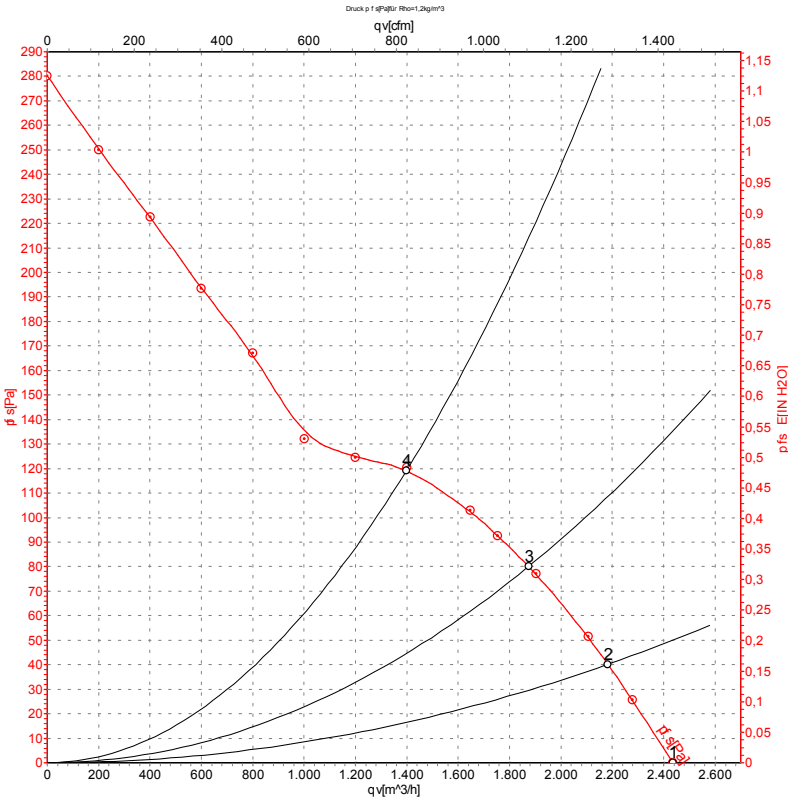
Connection diagram



U1	blue	Z	brown	U2	black
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Curves: Air performance 50 Hz



Measurement: LU-66600-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

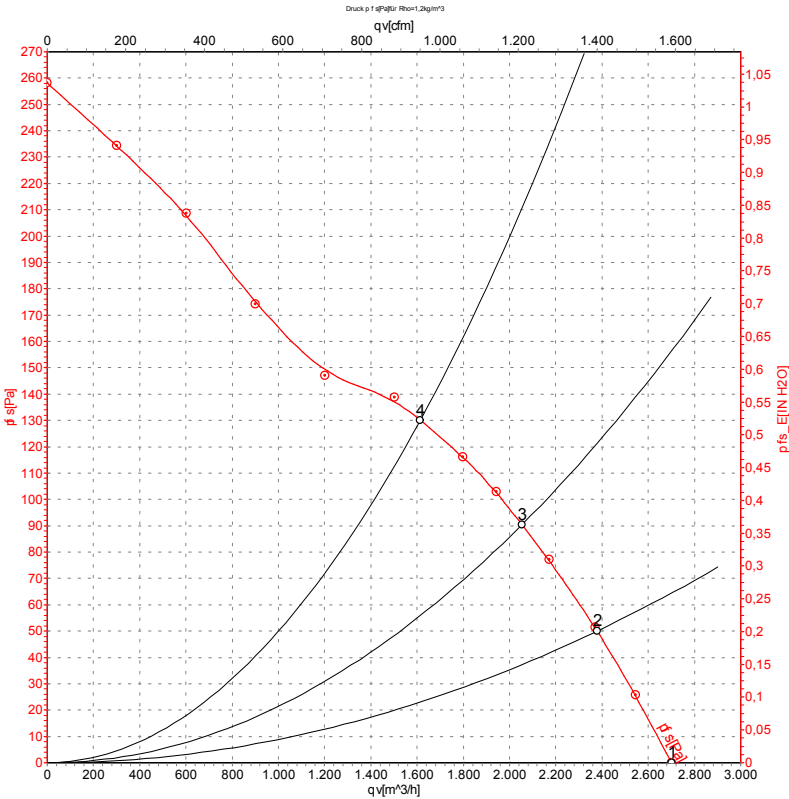
Measured values

	U	f	n	P _e	I	LpA _{in}	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	m³/h	Pa	CFM	inH2O
1	230	50	2650	140	0.62	75	2435	0	1435	0.00
2	230	50	2615	151	0.66		2185	40	1285	0.16
3	230	50	2580	158	0.69		1875	80	1105	0.32
4	230	50	2560	162	0.71		1400	120	825	0.48

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · qv = Air flow · p_{fs} = Pressure increase



Curves: Air performance 60 Hz



Measurement: LU-66601-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P _e	I	LpA _{in}	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	m³/h	Pa	CFM	inH2O
1	230	60	2900	190	0.83	78	2700	0	1590	0.00
2	230	60	2865	205	0.90		2380	50	1400	0.20
3	230	60	2805	213	0.93		2055	90	1210	0.36
4	230	60	2755	218	0.95		1615	130	950	0.52

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · qv = Air flow · p_{fs} = Pressure increase

