

Beijing Hengrui Mechanical and Electrical Equipment Co.,Ltd
 Phone +86 10-62547612
 zhangyu@bjhengrui.cn
 en.bjhengrui.com



Nominal data

Type	W2E250-HQ52-11						
Motor	M2E068-DF						
Phase		1~	1~	1~	1~	1~	1~
Nominal voltage	VAC	230	230	230	230	230	230
Frequency	Hz	50	50	60	60	60	60
Type of data definition		ml	ml	ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	UL 2111	CE	UL 2111
Speed	min ⁻¹	2530	2500	2600	2600	2730	2730
Power input	W	142	136	185	195	190	210
Current draw	A	0.63	0.61	0.82	0.83	0.84	0.89
Motor capacitor	μF	3.5	3	3	3	3.5	3.5
Capacitor voltage	VDB	400	400	400	400	400	400
Capacitor standard		P0 (CE)	P0 (CE)	P0 (CE)	UL	P0 (CE)	UL
Max. back pressure	Pa	120	120	130	130	105	105
Min. ambient temperature	°C	-25	-25	-25	-25	-25	-25
Max. ambient temperature	°C	70	70	70	70	55	55
Starting current	A	1.17	1.15	1.07		1.12	

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}	%	28.3	24.3	28.3
Efficiency grade N		40	36	40
Power input P_e	kW	0.14		
Air flow q_v	m ³ /h	1205		
Pressure increase p_{fs}	Pa	121		
Speed n	min ⁻¹	2530		

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

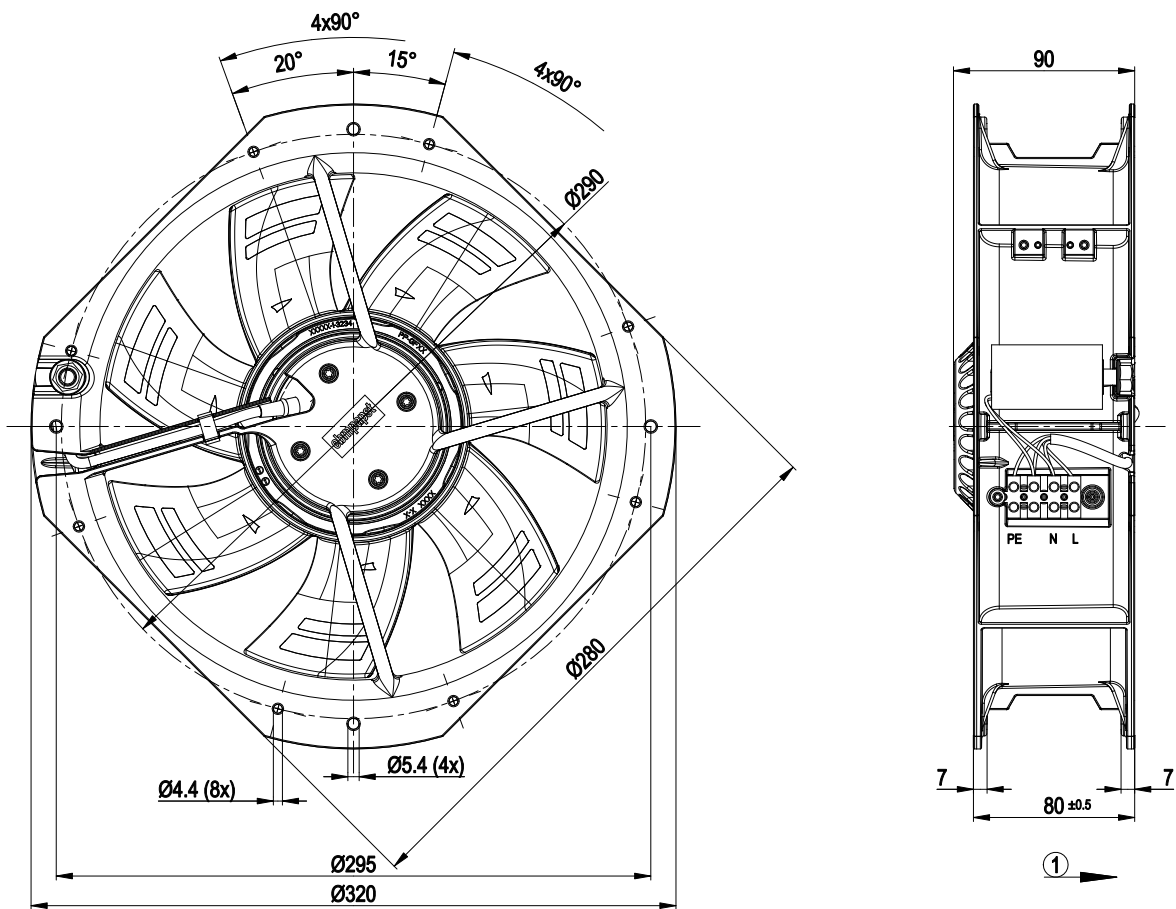
LU-155463



Technical features

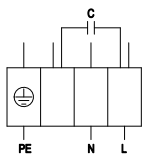
Mass	3.3 kg
Size	250 mm
Surface of rotor	Coated in black
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Material of wall ring	Die-cast aluminium
Number of blades	7
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"F"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical leads	Via terminal strips, integrated capacitor connected via terminal strips
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	UL 2111; CSA C22.2 Nr.77

Product drawing



1 Direction of air flow "V"

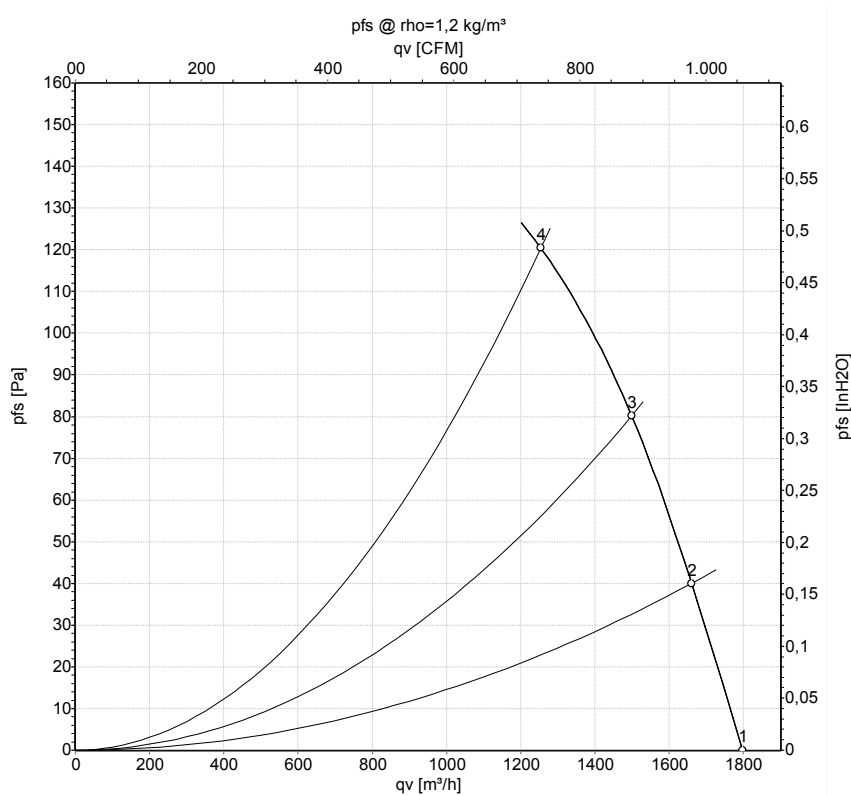
Connection screen



PE	green/yellow	N	blue	L	black
----	--------------	---	------	---	-------



Charts: Air flow 50 Hz



Measurement: LU-155463

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.

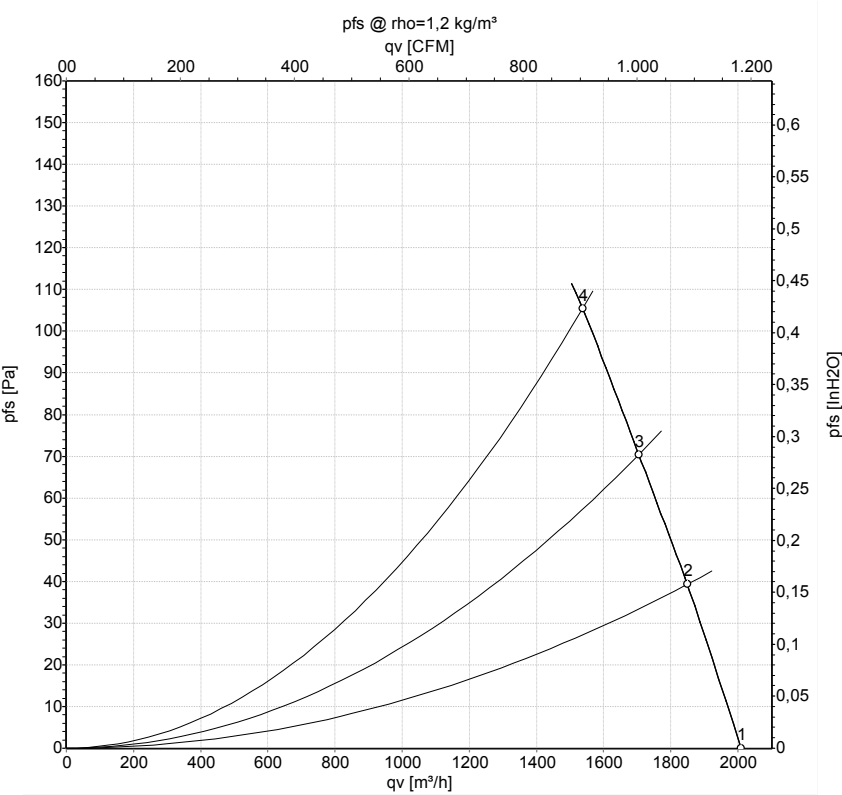
Measured values

	U	f	n	P_e	I	$L_{pA_{in}}$	$L_{wA_{in}}$	q_v	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	$\text{m}^3\text{/h}$	Pa
1	230	50	2690	116	0.51	63	69	1800	0
2	230	50	2640	125	0.55	63	70	1660	40
3	230	50	2585	133	0.58	63	70	1500	80
4	230	50	2530	142	0.63	63	70	1255	120

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · $L_{pA_{in}}$ = Sound pressure level inlet side · $L_{wA_{in}}$ = Sound power level inlet side · q_v = Air flow
 p_{fs} = Pressure increase



Charts: Air flow 60 Hz



Measurement: LU-155467

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

	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa
1	230	60	2990	167	0.73	65	72	2010	0
2	230	60	2920	174	0.76	71	79	1850	40
3	230	60	2845	181	0.79	74	82	1705	70
4	230	60	2730	190	0.84	72	80	1535	105

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 · qv = Air flow
p_{fs} = Pressure increase

