

AC centrifugal fan

backward curved

with housing and angle bracket

Beijing Hengrui Mechanical and Electrical Equipment Co.,Ltd

Phone +86 10-62547612

zhangyu@bjhengrui.cn

en.bjhengrui.com



Nominal data

Type	K2E225-RB92-09			
Motor	M2E068-DF			
Phase		1~	1~	1~
Nominal voltage	VAC	230	230	230
Frequency	Hz	50	60	60
Type of data definition		ml	ml	ml
Valid for approval / standard		CE	CE	UL 2111
Speed	min ⁻¹	2550	2700	2700
Power input	W	145	200	215
Current draw	A	0.64	0.88	0.9
Motor capacitor	μF	3.5	3.5	3.5
Capacitor voltage	VDB	450	450	450
Capacitor standard		-	-	UL
Min. back pressure	Pa	0	0	0
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	60	60	60
Starting current	A	1.25	1.2	

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}		42.5	38.5	42.5
Efficiency grade N		62	58	62
Power input P_e	kW	0.14		
Air flow q_v	m ³ /h	705		
Pressure increase p_{fs}	Pa	320		
Speed n	min ⁻¹	2560		

Data established at point of optimum efficiency



AC centrifugal fan

backward curved

with housing and angle bracket

Technical features

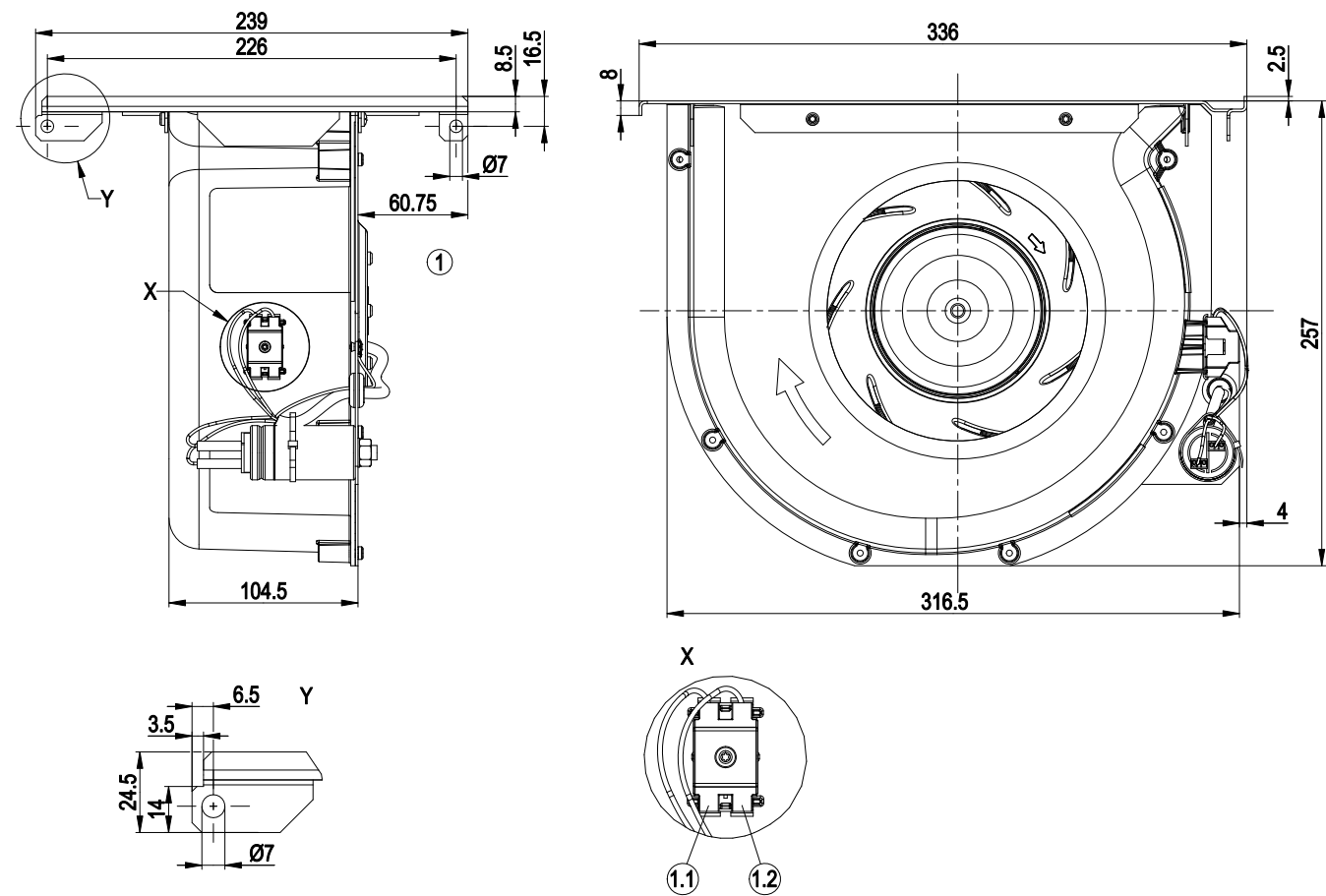
Mass	4.1 kg
Size	225 mm
Surface of rotor	Coated in black
Material of impeller	PA plastic
Housing material	PA plastic; sheet steel, galvanised
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity class	F1-2
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
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical leads	Capacitor mounted
Motor protection	Thermal overload protector (TOP) wired internally
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



AC centrifugal fan

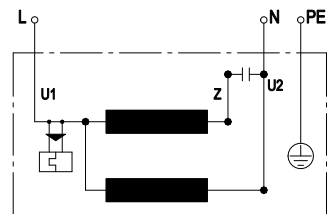
backward curved
with housing and angle bracket

Product drawing



1	Connection line PFA AWG20
1.1	Blue
1.2	black

Connection screen

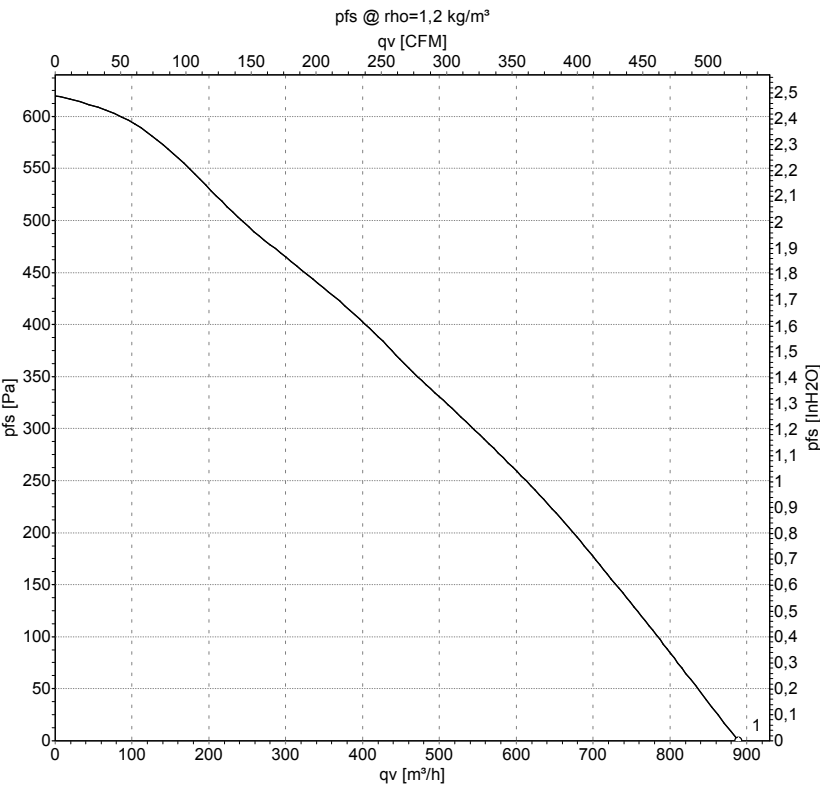


U1	blue	Z	brown	U2	black
PE	green/yellow				

AC centrifugal fan

backward curved
with housing and angle bracket

Charts: Air flow 50 Hz



Measurement: LU-140928

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	qv
	V	Hz	min ⁻¹	W	A	m³/h
1	230	50	2550	145	0.64	890

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow

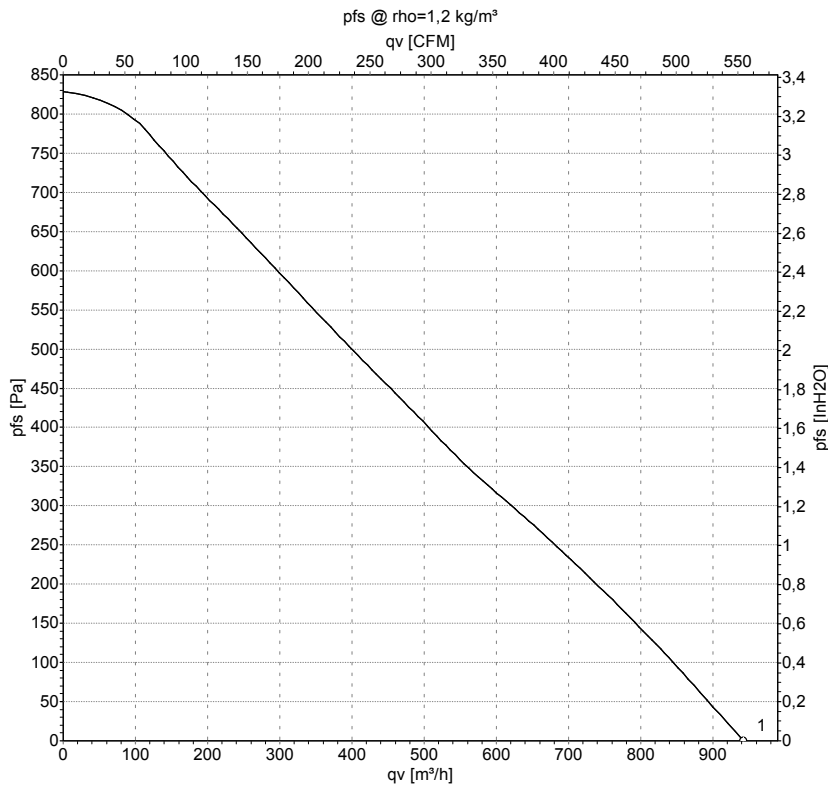


AC centrifugal fan

backward curved

with housing and angle bracket

Charts: Air flow 60 Hz



Measurement: LU-140931

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	qv
	V	Hz	min ⁻¹	W	A	m³/h
1	230	60	2700	200	0.88	945

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow

