

Beijing Hengrui Mechanical and Electrical Equipment Co.,Ltd

Phone +86 10-62547612

zhangyu@bjhengrui.cn

en.bjhengrui.com

Nominal data

Type	R4E355-RM03-07		
Motor	M4E094-EA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		ml	ml
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	1370	1520
Power consumption	W	280	400
Current draw	A	1.23	1.77
Capacitor	μF	8	8
Capacitor voltage	VDB	400	400
Capacitor standard		S0 (CE)	S0 (CE)
Min. back pressure	Pa	0	0
Min. back pressure	in. wg	0	0
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	55	60
Starting current	A	2.75	2.1

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

Data according to Commission Regulation (EU) 327/2011

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	45.5	45.5	09 Power consumption P_e	kW	0.27
02 Measurement category		A		09 Air flow q_v	m ³ /h	2005
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	224
04 Efficiency grade N		62	62	10 Speed (rpm) n	min ⁻¹	1370
05 Variable speed drive		No		11 Specific ratio*		1.00

Data obtained at optimum efficiency level.

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

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

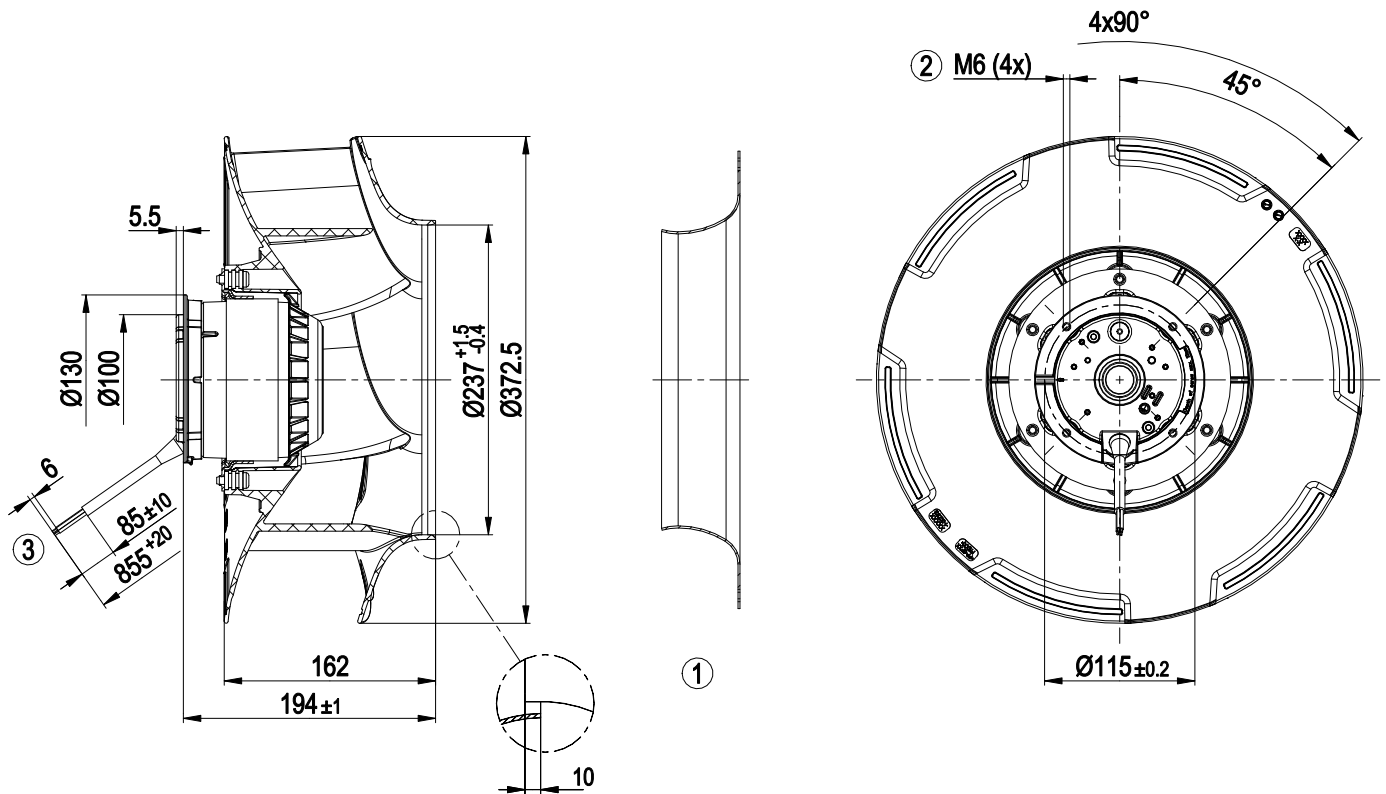
LU-144684



Technical description

Weight	5.6 kg
Size	355 mm
Motor size	94
Impeller material	PP plastic
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54; installation- and position-dependent as per EN 60034-1
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H2
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)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60034-1 (2010); CE
Approval	UL 1004-1

Product drawing

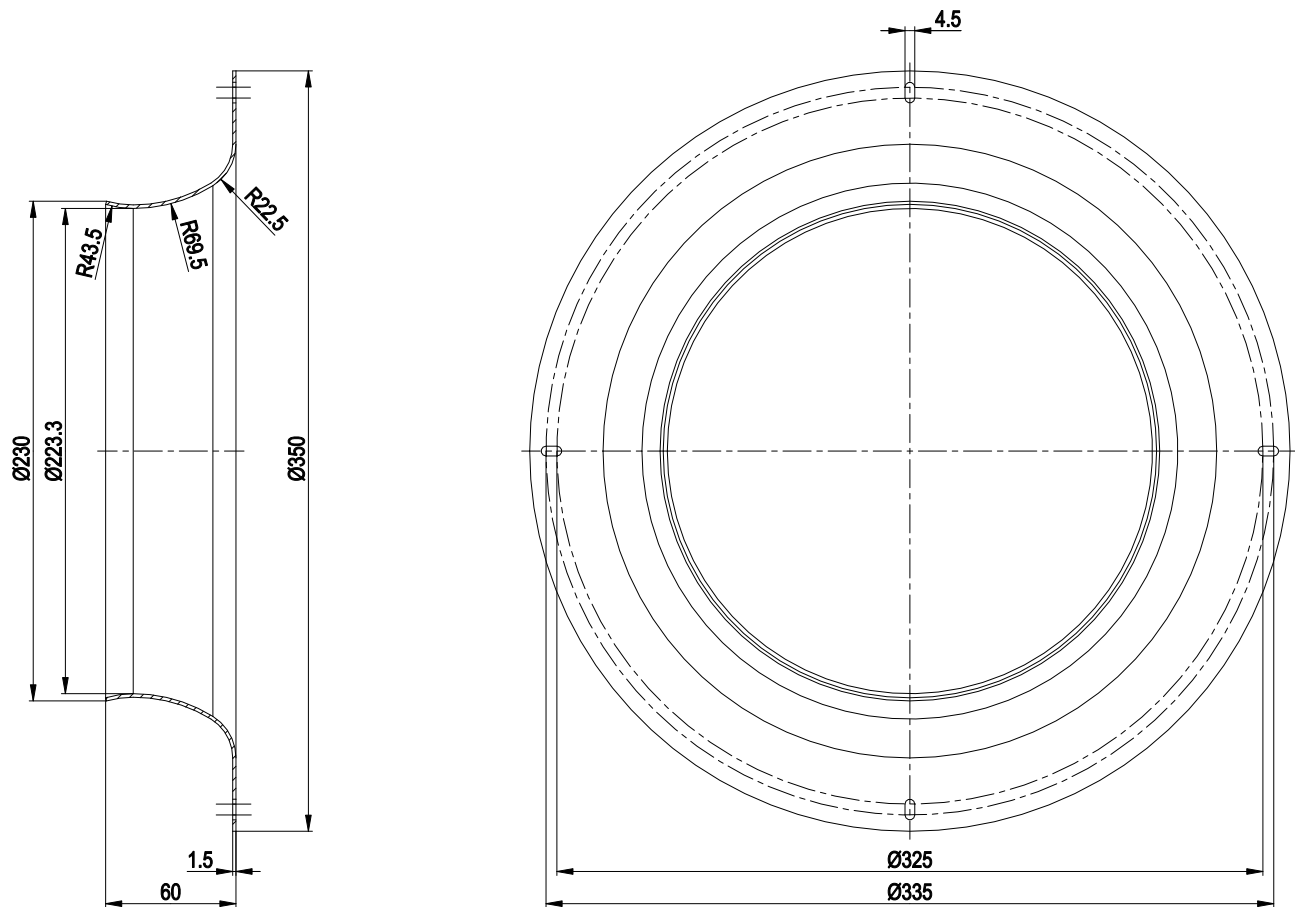


- | | |
|---|---|
| 1 | Accessory part: inlet ring 35500-2-4013 not included in scope of delivery |
| 2 | Max. clearance for screw 10 mm |
| 3 | Cable silicone 4G 0.5 mm ² , 4x crimped splices |

AC centrifugal fan - RadiCal

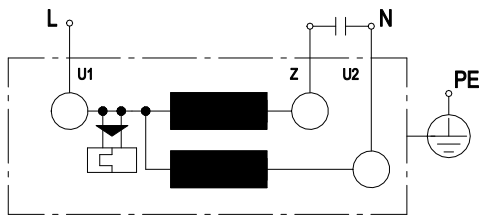
backward-curved, single-intake

Accessory part



Inlet ring 35500-2-4013 not included in scope of delivery

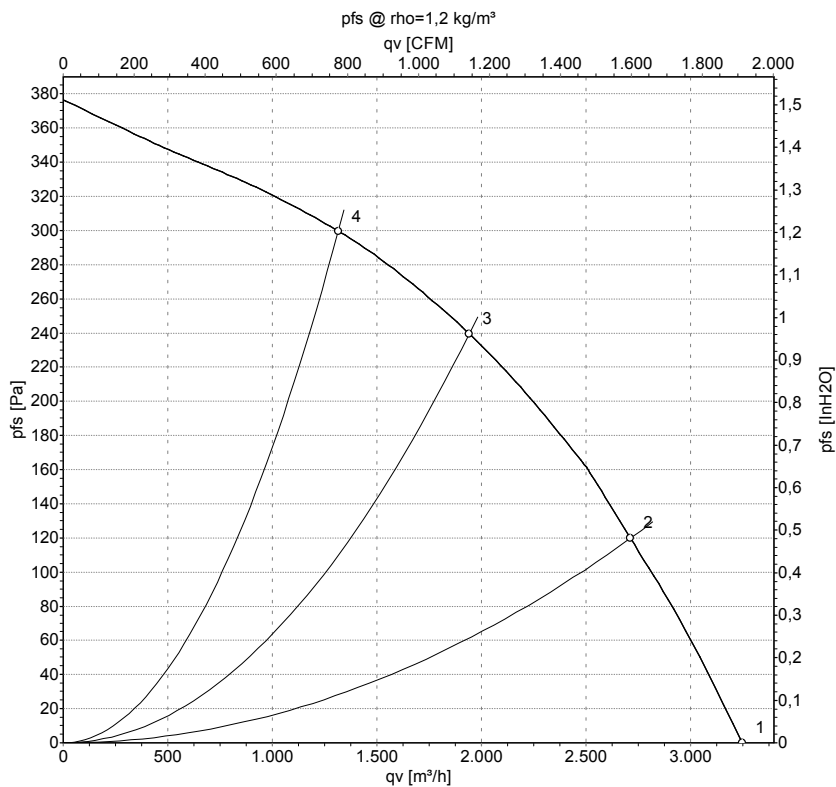
Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				



Curves: Air performance 50 Hz



Measurement: LU-144684-1

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}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa	cfm	in. wg
1	230	50	1410	225	1.02	64	71	3245	0	1910	0.00
2	230	50	1390	254	1.13	59	66	2715	120	1595	0.48
3	230	50	1370	280	1.23	57	63	1940	240	1145	0.96
4	230	50	1380	264	1.17	58	65	1315	300	775	1.20

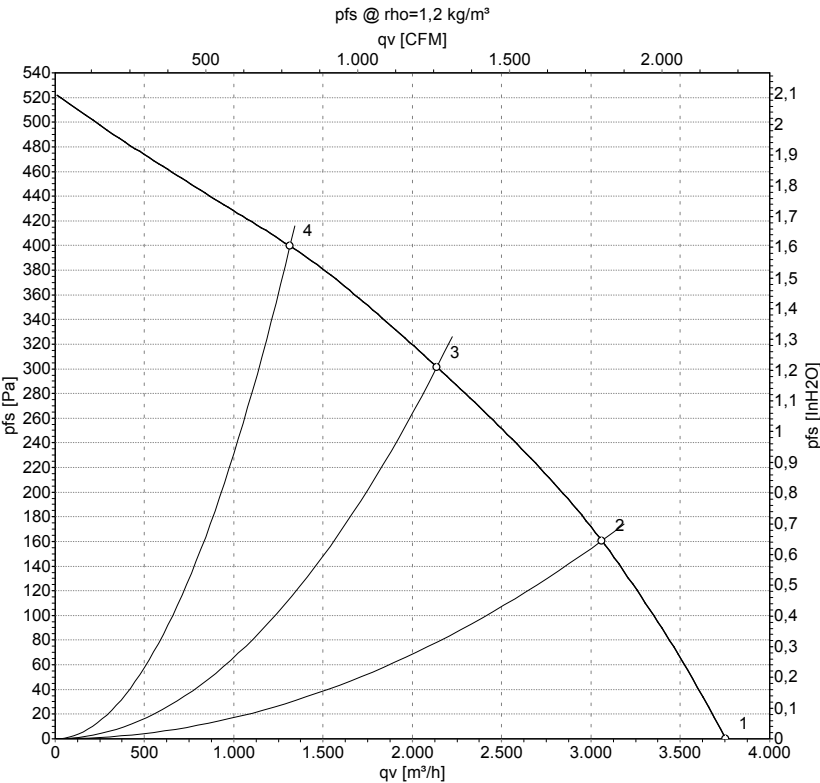
U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
 q_v = Air flow · p_{fs} = Pressure increase



AC centrifugal fan - RadiCal

backward-curved, single-intake

Curves: Air performance 60 Hz



Measurement: LU-144692-1

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}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	230	60	1635	331	1.48	67	75	3755	0	2210	0.00
2	230	60	1570	377	1.66	62	69	3060	160	1800	0.64
3	230	60	1520	400	1.77	59	66	2135	300	1260	1.20
4	230	60	1570	379	1.67	63	70	1315	400	775	1.61

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

