R2E220-RA44-14

AC centrifugal fan - RadiCal

single inlet

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General partner Elektrobau Mulfingen GmbH \cdot Headquarters Mulfingen

County court Stuttgart · HRB 590142

Nominal data

Туре	R2E220-RA4	14-14						
Motor	M2E068-BF							
Phase		1~	1~	1~				
Nominal voltage		VAC	115	115	115			
Frequency		Hz	50	60	60			
Type of data d	efinition		ml	ml	ml			
Valid for appro	oval / standard		CE	CE	UL 2111			
Speed		min-1	2150	2100	2100			
Power input		W	85	100	108			
Current draw		Α	0.75	0.88	0.9			
Motor capacitor		μF	8	8	8			
Capacitor volta	age	VDB	220	220	220			
Capacitor stan	dard		P0 (CE)	P0 (CE)	UL			
Min. back pres	ssure	Pa	0	0	0			
Min. ambient to	emperature	°C	-25	-25	-25			
Max. ambient	temperature	°C	50	60	60			
Starting currer	nt	Α	1.0	1.01	1.08			

ml = max. load \cdot me = max. efficiency \cdot fa = running at free air \cdot cs = customer specs \cdot cu = customer unit Subject to alterations





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Technical features

Mass	1.3 kg					
Size	220 mm					
Surface of rotor	Uncoated					
Material of impeller	lastic PA6 , fibreglass-reinforced					
Direction of rotation	clockwise, seen on rotor					
Type of protection	IP 44; Depending on installation and position					
Insulation class	"F"					
Humidity class	F0					
Max. permissible ambient motor	+ 80 °C					
temp. (transp./ storage)						
Min. permissible ambient motor	- 40 °C					
temp. (transp./storage)						
Mounting position	Any					
Condensate discharge holes	None					
Motor bearing	Ball bearing					
Touch current acc. IEC 60990	< 0.75 mA					
(measuring network Fig. 4, TN						
system)						
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					

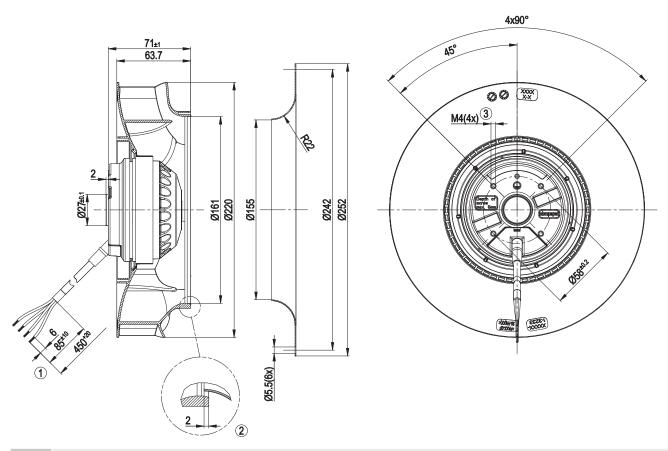




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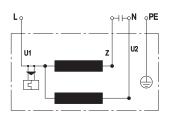
single inlet

Product drawing



- 1 Connection line PFA 4G 0.5mm², 4x brass lead tips crimped
- Accessory part: Inlet nozzle 09609-2-4013, not included in the standard scope of delivery
- 3 Depth of screw max. 5 mm

Connection screen

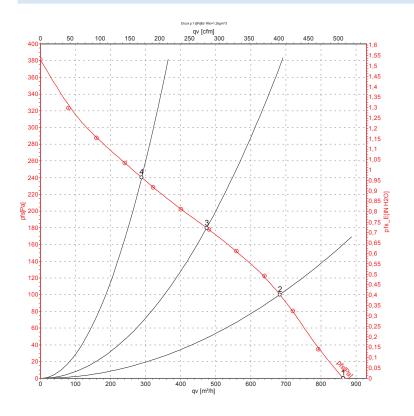


U1	blue	Z	brown	U2	black
PE	green/yellow				

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Charts: Air flow 50 Hz



Measurement: LU-136801

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	1	qv	p _{fs}
	V	Hz	min-1	W	Α	m ³ /h	Pa
1	115	50	2350	77	0.67	865	0
2	115	50	2215	82	0.72	680	100
3	115	50	2150	85	0.75	475	180
4	115	50	2210	81	0.70	290	240

 $U = Supply \ voltage \ \cdot \ f = Frequency \cdot \ n = Speed \cdot P_e = Power \ input \cdot I = Current \ draw \cdot qv = Air \ flow \cdot p_{fs} = Pressure \ increase$

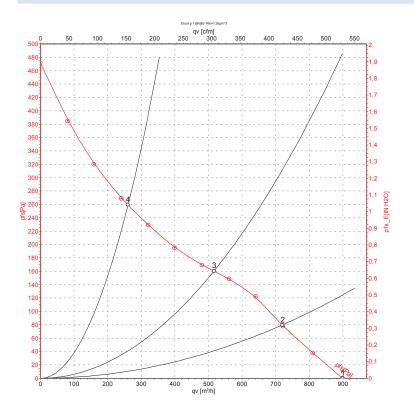


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Charts: Air flow 60 Hz



Measurement: LU-136805

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papet. 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	p _{fs}
	V	Hz	min-1	W	Α	m ³ /h	Pa
1	115	60	2455	92	0.81	900	0
2	115	60	2260	98	0.85	720	80
3	115	60	2100	100	0.88	515	160
4	115	60	2265	96	0.84	260	260

 $U = Supply \ voltage \ \cdot \ f = Frequency \cdot \ n = Speed \cdot P_e = Power \ input \cdot I = Current \ draw \cdot qv = Air \ flow \cdot p_{fs} = Pressure \ increase$

