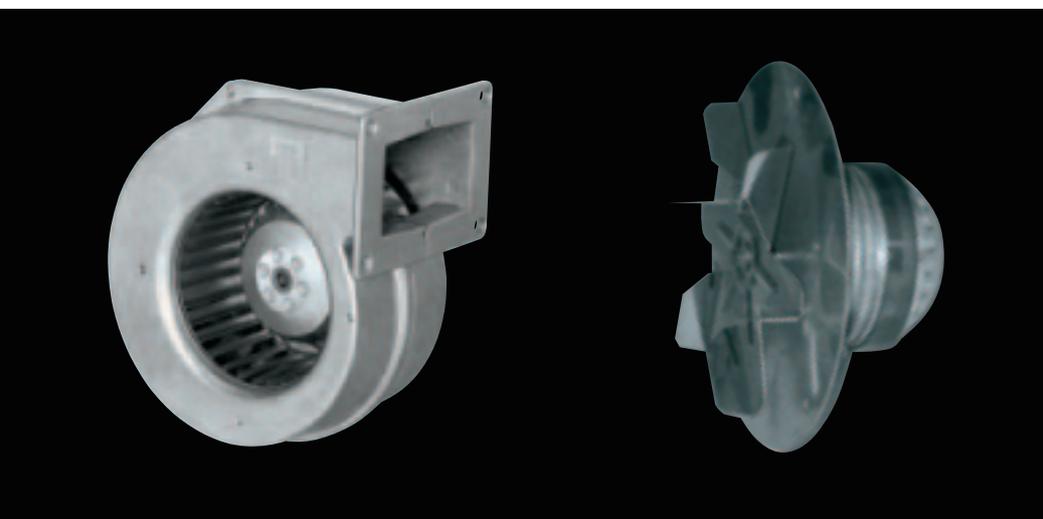


# Fans and motors for heating systems based on pellets and wood chips

Version 02/2007



Quiet and reliable output  
in compact design

The engineer's choice

**ebmpapst**

# Specialists and special solutions for state-of-the-art heating engineering

*Traditionally, heating engineering has been focus of the ebm-papst performance spectrum. For decades, our innovative motor and fan technology has contributed to making modern heating engineering more powerful, economical and environmentally friendly. Because we have been part of the ever-expanding solid fuel heater market for 10 years, we can not only rely on special motors and fans for wood pellet heaters and wood chip ovens, but can also integrate exceptional application skills and knowledge.*

As an ecologically sound alternative to the classic oil or gas-fired heater, the use of solid fuel heaters is becoming increasingly attractive – especially in light of current energy price trends. Even conservative scenarios forecast that the pellet market will grow at an annual rate of about 15 %. We want to play an active part in creating the future of alternative heating technologies.

With motor and fan technology specially developed for the requirements of wood pellet heaters and wood chip ovens, our goal is to provide the required air flow for all systems – whether their heating capacity is 5 kW or 100 kW, and for every conceivable operating state – and to do so quietly and economically. Even today, we offer a range of motor and fan products tailored to the widely varying oven sizes in tried-and-tested AC technology: motor gear units for the feed screw and fans for both intake and exhaust air.

We gladly take advantage of opportunities to integrate our application skills and knowledge, as well as our experience in high-temperature applications, into the development of new devices and systems at an early stage. One of the ways we help is to make our measurement laboratory available to our customers so that they can optimize specific application designs in the ovens. This guarantees the best possible fulfillment of the stringent requirements for temperature stability and noise with motor and fan technology that is perfectly suited to the application.





### **High performance in a small space**

The tight space of the ovens is another challenge we constantly strive to master. Every application should embody the ideal combination of size, output and cost-effectiveness. Our highly compact fan motors, with their external rotor design, offer the best possible conditions. The design differs from that of conventional electric motors – the stator is inside, the rotor outside. Thus the external rotor-motor and the fan form a unit that is not only compact and space-saving, but also durable and robust.

# The entire product range from a single source

## **Gearmotors for feed screws**

In all installations, ebm-papst gearmotors help to automatically convey the pellets from the supply hopper to the combustion chamber. Our gearmotors are also used to transfer pellets from the supply silo to the supply hopper. We can also offer other special drives for installations that feature automatic ash cleaning.

The exceptionally smooth running of ebm-papst gearmotors is attained by using helical gears in the input stage. The design of the gears uses the optimal materials for the specific application. Our state-of-the-art machine pool ensures a high gearing and machining quality – even of special gearing.

Using heavy-duty lubricants allows our gearmotors to have a long service life of no less than 5,000 hours. However, even up to 40,000 hours are feasible depending on the application and load condition.

## **Fans for intake air**

Used as primary or secondary intake air fans, ebm-papst AC centrifugal blowers shine with their quiet and economical performance. The blowers can be equipped with an optional tach output for exact control according to the operating mode.

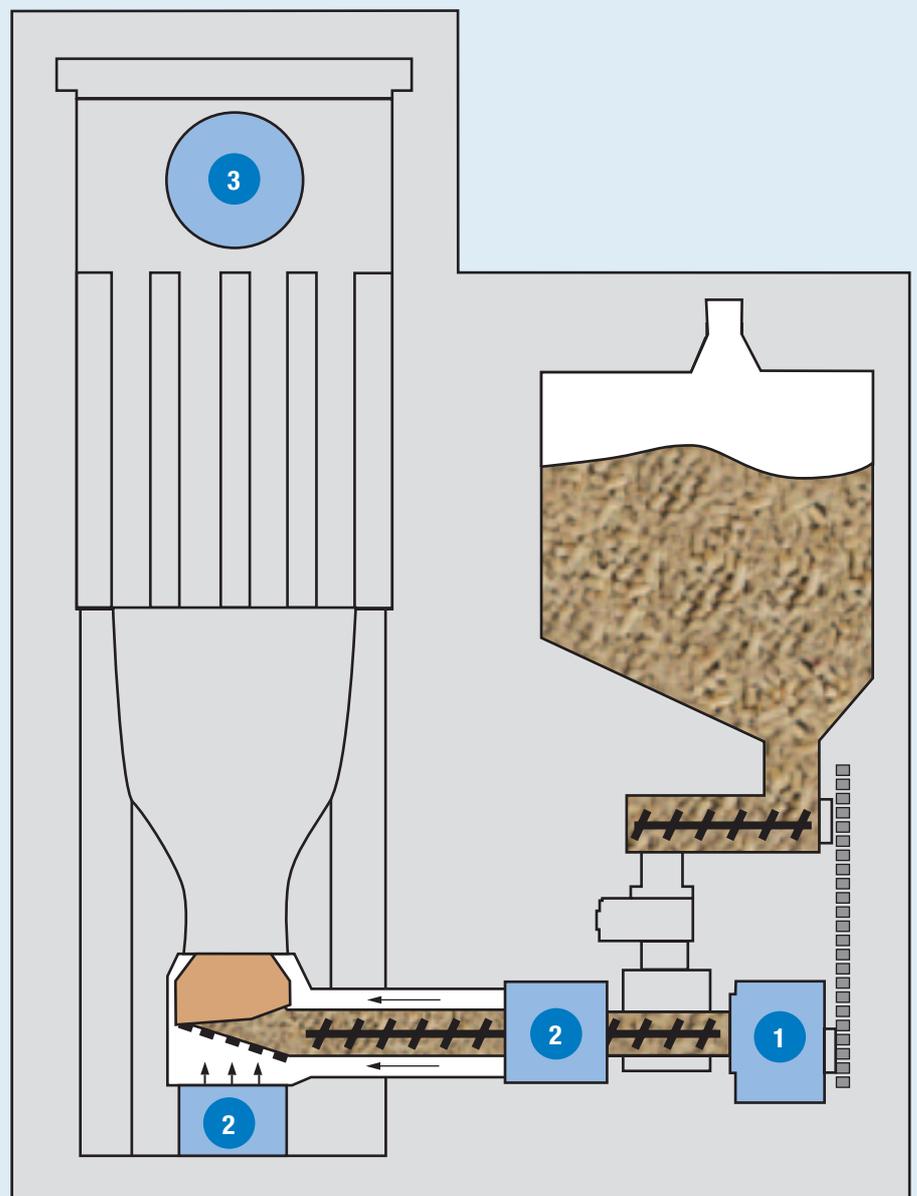
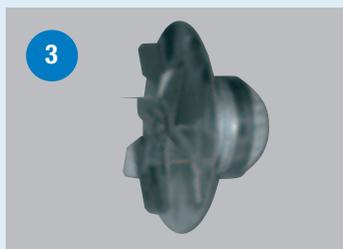
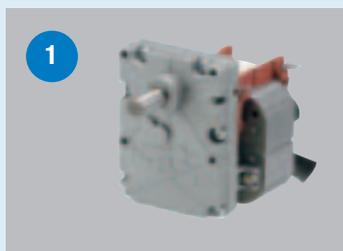
Of course, ebm-papst products are always designed for an uncompromising level of stability and durability. For example, the scroll housing of the ebm-papst centrifugal blower is made of robust die-cast aluminium, and the impeller is made of hot-galvanized sheet steel.

## **Fans for exhaust air**

Exhaust air is carried away by ebm-papst induced draft blowers: single inlet AC centrifugal fans. With our extensive experience in high-temperature bearing technology and the aerodynamic skills and knowledge gained from being the market leader, we can meet the most stringent demands of this application area for service life, noise and cost-effectiveness.

The type of construction itself guarantees exceptional cooling performance – which is improved even further by the flow-optimized cooling blades that provide additional motor cooling. The impellers of our centrifugal fans are made of corrosion-resistant stainless steel.

Solid fuel heater manufacturers can count on ebm-papst for complete solutions from a single source. Our product range for wood pellet heaters and wood chip ovens includes gearmotors for feed screws that enable automated conveying of the wood pellets, intake air fans and customized exhaust air fans for exhaust gas discharge.



# AC centrifugal blower (fresh air)

Single inlet, Ø 108



- **Material:** Scroll housing made of die-cast aluminium, impeller made of galvanized sheet steel
- **Type of protection:** IP 44
- **Approvals:** CE

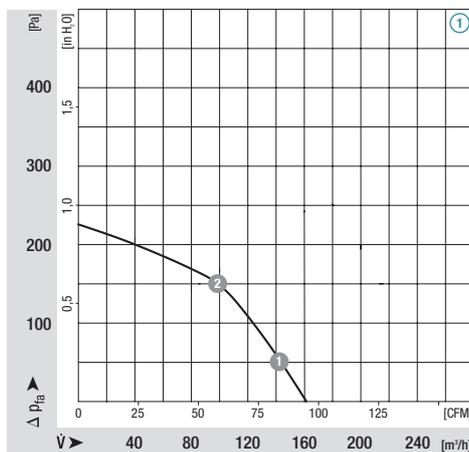
ebm-papst • Mulfingen

Nominal data		Characteristic	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Mass
Type	Motor	VAC	Hz	m <sup>3</sup> /h	min <sup>-1</sup>	W	A	µF/VDB	dB(A)	Pa	°C	kg	
G2E 108-AG63 -01	M2E052-BF	①	230	50	160	1850	30	0,14	1,0 / 400	56	0	-25..+85	1,3

subject to alterations

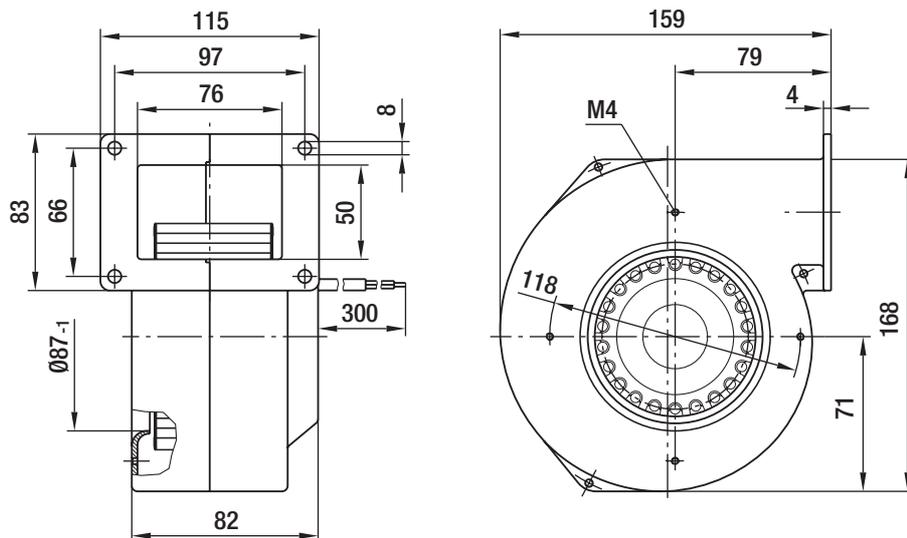
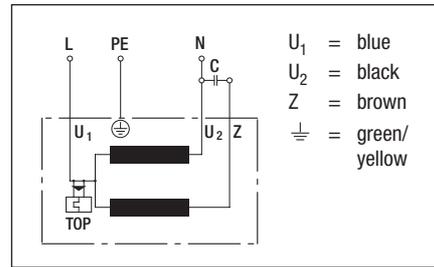
	n [min <sup>-1</sup> ]	P <sub>1</sub> [W]
① 1	2070	34
① 2	2470	31

## Characteristics



## Connection diagram

Single-phase capacitor motor  
with TOP wired internally



# AC centrifugal blower (fresh air)

Single inlet, Ø 120



- **Material:** Scroll housing made of die-cast aluminium, impeller made of galvanized sheet steel
- **Type of protection:** IP 44
- **Approvals:** CE
- **Optional:** Hall IC connection

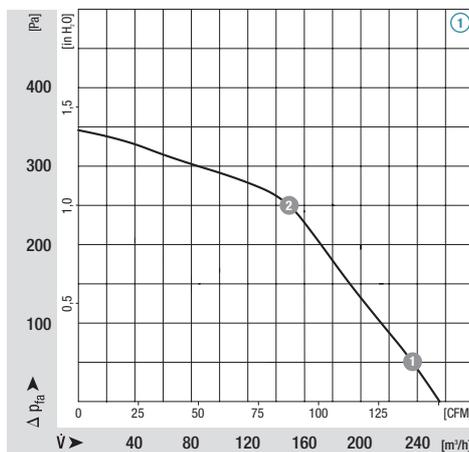
ebm-papst • Mulfingen

Nominal data		Characteristic	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Mass
Type	Motor	VAC	Hz	m <sup>3</sup> /h	min <sup>-1</sup>	W	A	µF/VDB	dB(A)	Pa	°C	kg	
G2E 120-AR77 -01	M2E 068-BF	①	230	50	255	2350	80	0,35	2,0 / 450	61	0	-25..+55	1,8

subject to alterations

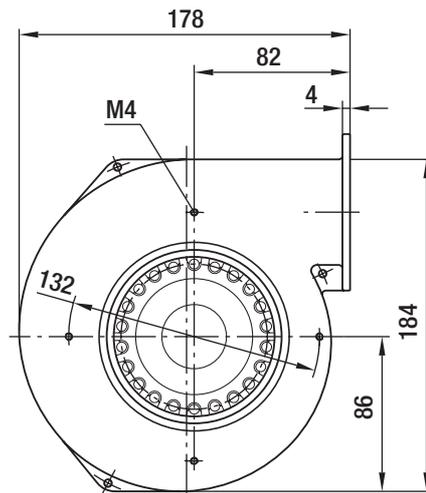
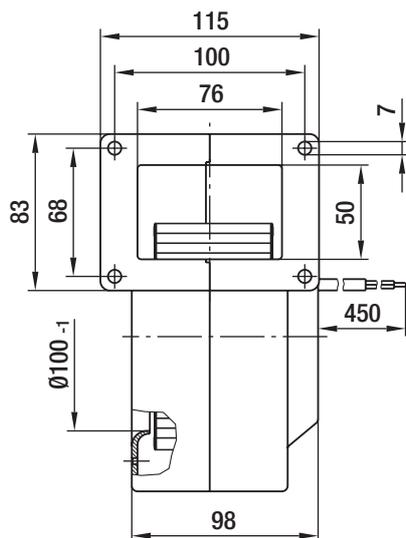
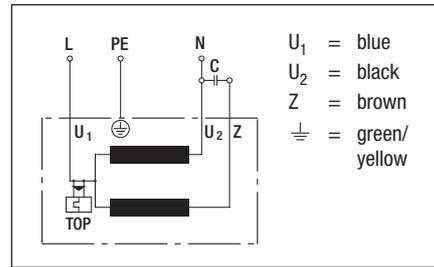
	n [min <sup>-1</sup> ]	P <sub>1</sub> [W]
① ①	2460	77
① ②	2665	69

## Characteristics



## Connection diagram

Single-phase capacitor motor  
with TOP wired internally



# AC radial fan (exhaust air)

Single inlet, Ø 150



- **Material:** Impeller made of corrosion-resistant stainless steel
- **Type of protection:** IP 44
- **Approvals:** CE
- **Optional:** Hall IC connection

ebmpapst • Mulfingen

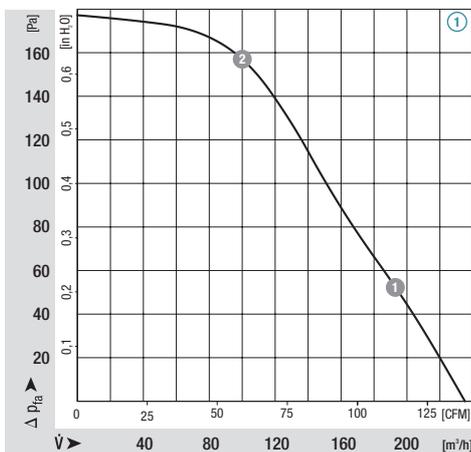
Nominal data		Characteristic	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Mass
Type	Motor	VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg	
R2E 150-AN91 -**	M2E068-BF	①	230	50	235	2400	32	0,14	1,0 / 400	62	0	-25..+100	1,6
		②	230	50	145	2445	30	0,13	1,0 / 400	61	0	-25..+100	1,6

subject to alterations ② measured in ebmpapst scroll housing

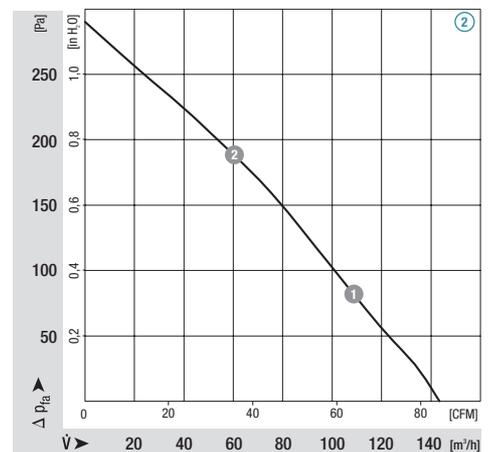
	n [min⁻¹]	P <sub>1</sub> [W]
① ①	2380	31
① ②	2520	29

	n [min⁻¹]	P <sub>1</sub> [W]
② ①	2495	29
② ②	2610	27

Characteristics (measured without scroll housing)

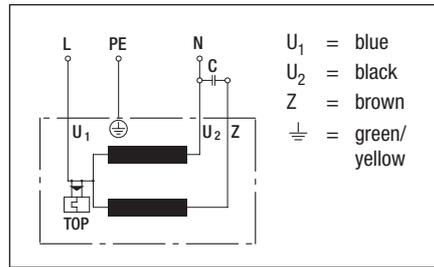


Characteristics (measured in scroll housing)

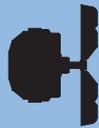


## Connection diagram

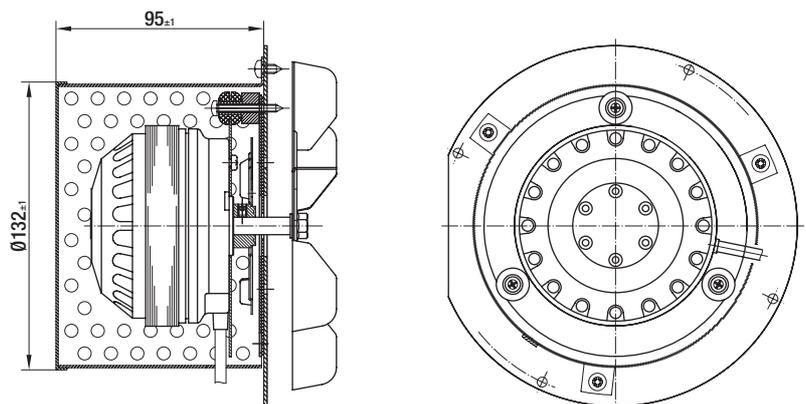
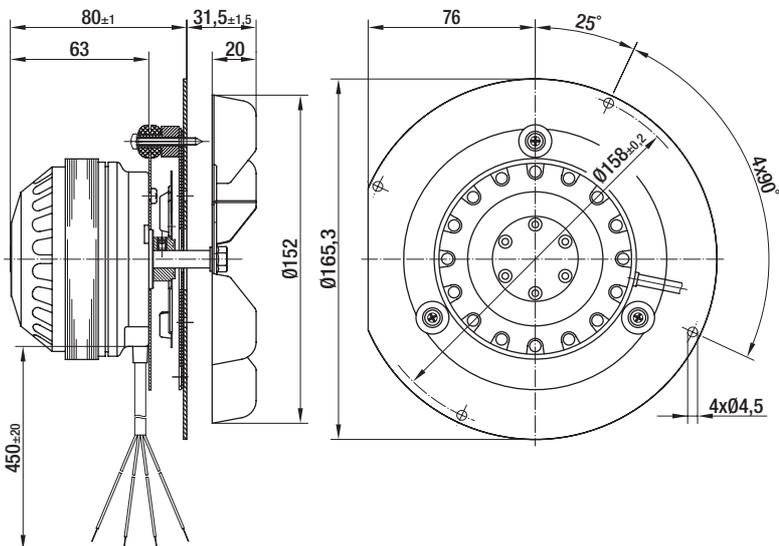
Single-phase capacitor motor  
with TOP wired internally



## Selection



Type	without motor protection hood	with motor protection hood
R2E 150-AN91 -**	R2E 150-AN91 -01	R2E 150-AN91 -05



# AC radial fan (exhaust air)

Single inlet, Ø 150



- **Material:** Impeller made of corrosion-resistant stainless steel
- **Type of protection:** IP 44
- **Approvals:** CE
- **Optional:** Hall IC connection

ebm-papst • Muldingen

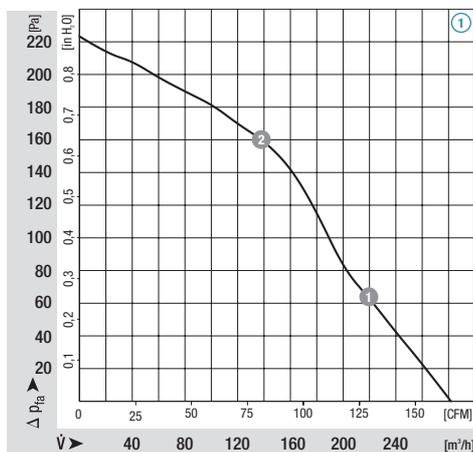
Nominal data		Characteristic	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Mass
Type	Motor	VAC	Hz	m³/h	min <sup>-1</sup>	W	A	µF/VDB	dB(A)	Pa	°C	kg	
R2E 180-CF91 -**	M2E068-BF	①	230	50	280	1910	37	0,16	1,0 / 400	58	0	-25..+100	1,9
		②	230	50	190	2085	35	0,15	1,0 / 400	59	0	-25..+100	1,9

subject to alterations ② measured in ebm-papst scroll housing

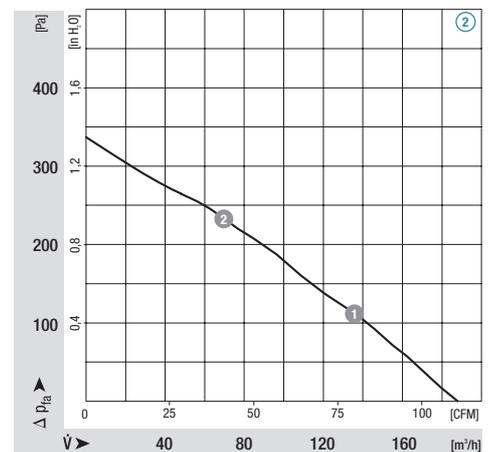
	n [min <sup>-1</sup> ]	P <sub>1</sub> [W]
① ①	1910	37
① ②	2180	34

	n [min <sup>-1</sup> ]	P <sub>1</sub> [W]
② ①	2250	33
② ②	2430	31

Characteristics (measured without scroll housing)

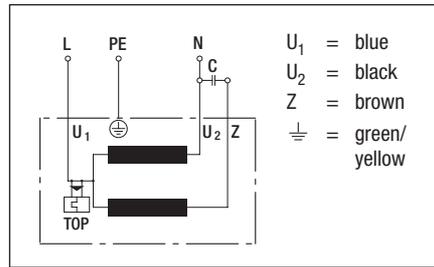


Characteristics (measured in scroll housing)



## Connection diagram

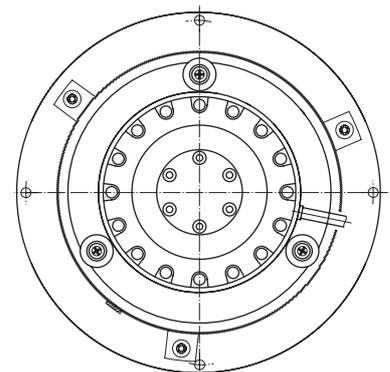
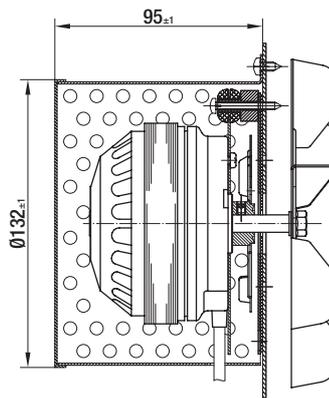
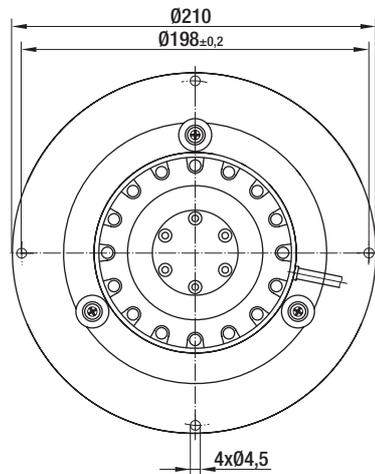
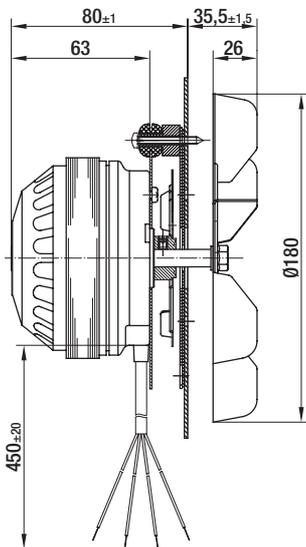
Single-phase capacitor motor  
with TOP wired internally



## Selection



Type	without motor protection hood	with motor protection hood
R2E 180-CF91 -**	R2E 180-CF91 -01	R2E 180-CF91 -05



# AC radial fan (exhaust air)

Single inlet, Ø 180



- **Material:** Impeller made of corrosion-resistant stainless steel
- **Type of protection:** IP 44
- **Approvals:** CE
- **Optional:** Hall IC connection

ebm-papst • Muldingen

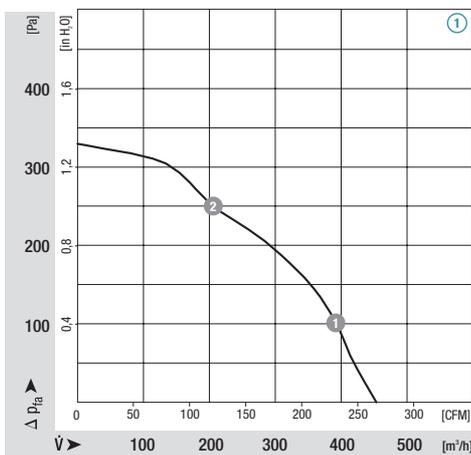
Nominal data		Characteristic	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Mass
Type	Motor	VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg	
R2E 180-CG82 -**	M2E068-CF	①	230	50	450	2540	71	0,34	2,0 / 400	67	0	-25..+85	2,3
		②	230	50	330	2580	67	0,29	2,0 / 400	68	0	-25..+85	2,3

subject to alterations ② measured in ebm-papst scroll housing

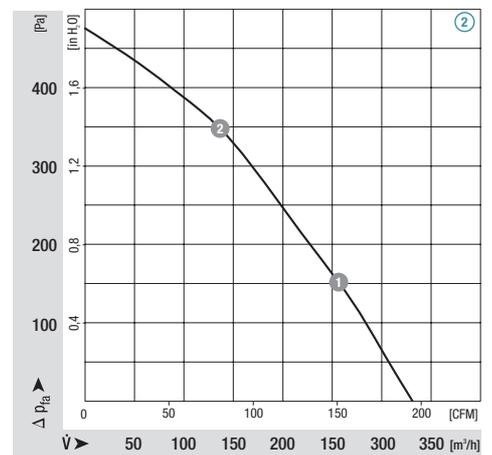
	n [min⁻¹]	P <sub>1</sub> [W]
① ①	2600	68
① ②	2655	60

	n [min⁻¹]	P <sub>1</sub> [W]
② ①	2620	63
② ②	2720	54

Characteristics (measured without scroll housing)

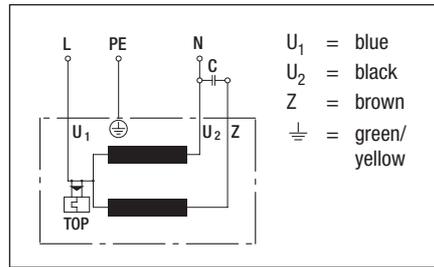


Characteristics (measured in scroll housing)



## Connection diagram

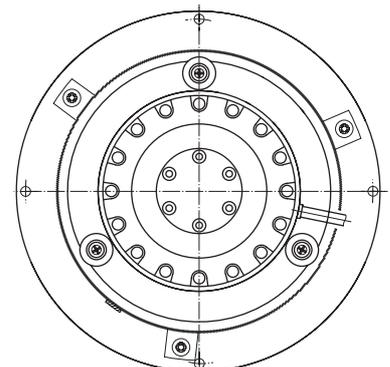
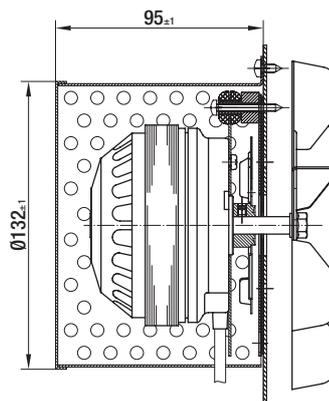
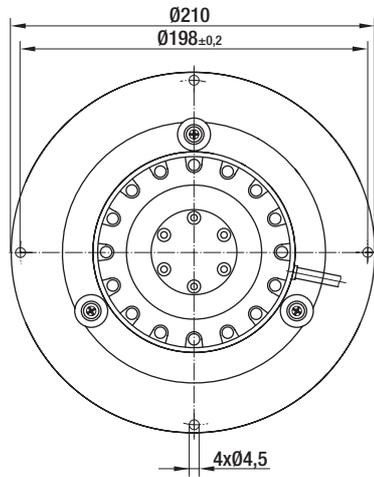
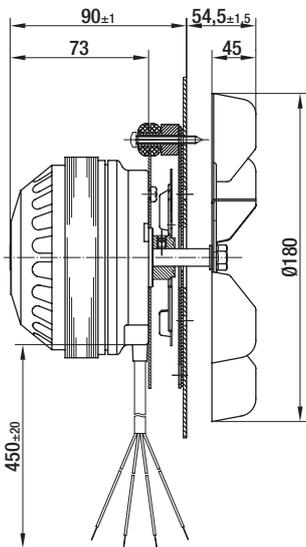
Single-phase capacitor motor  
with TOP wired internally



## Selection



Type	without motor protection hood	with motor protection hood
R2E 180-CG82 -**	R2E 180-CG82 -01	R2E 180-CG82 -05



# AC radial fan (exhaust air)

Single inlet, Ø 210



- **Material:** Impeller made of corrosion-resistant stainless steel
- **Type of protection:** IP 44
- **Approvals:** CE
- **Optional:** Hall IC connection

ebm-papst • Muldingen

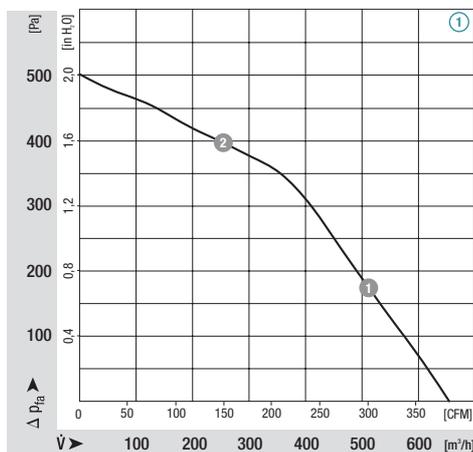
Nominal data		Characteristic	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Mass	
Type	Motor	VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg		
R2E 210-AA01 -**	M2E068-DF	①	230	50	650	2200	153	0,70	5,0 / 400	75	0	-25..+80	2,9	Preliminary data!
		②	230	50	435	2400	110	0,80	5,0 / 400	76	0	-25..+80	2,9	Preliminary data!

subject to alterations ② measured in ebm-papst scroll housing

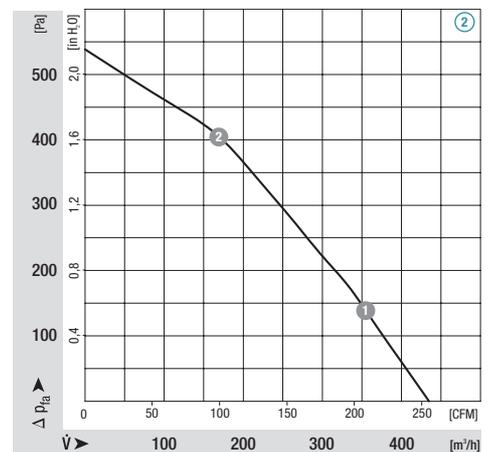
	n [min⁻¹]	P <sub>1</sub> [W]
① ①	2190	154
① ②	2380	111

	n [min⁻¹]	P <sub>1</sub> [W]
② ①	2530	107
② ②	2770	98

Characteristics (measured without scroll housing)

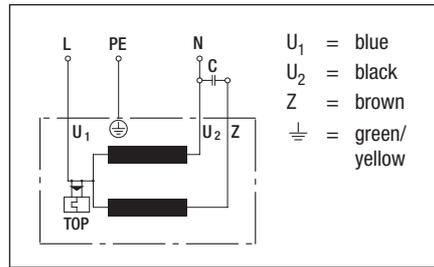


Characteristics (measured in scroll housing)



## Connection diagram

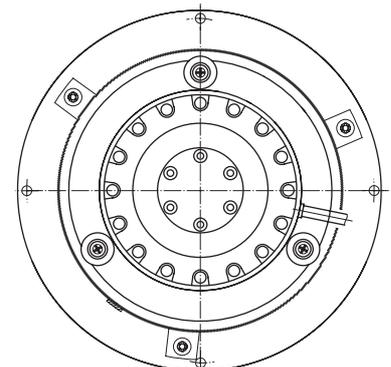
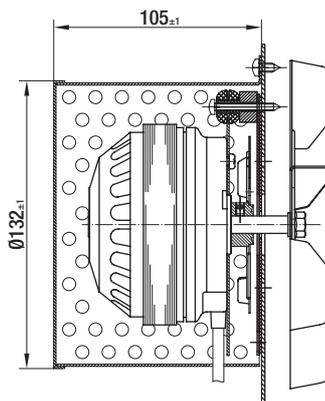
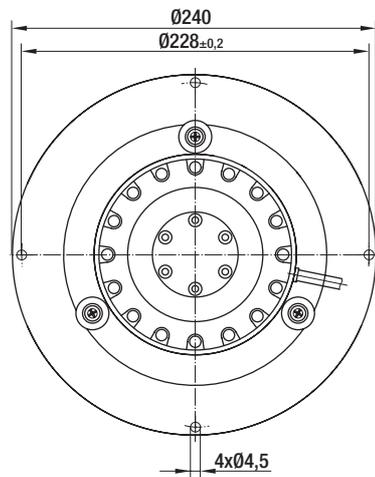
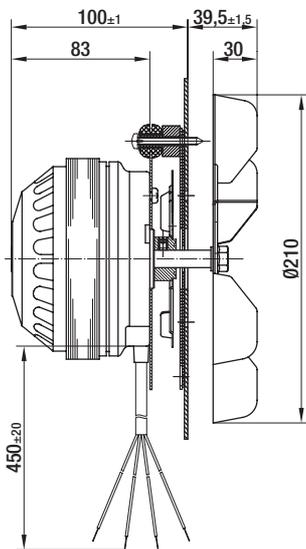
Single-phase capacitor motor  
with TOP wired internally



## Selection



Type	without motor protection hood	with motor protection hood
R2E 210-AA01 -**	R2E 210-AA01 -01	R2E 210-AA01 -05



# EC radial fan (exhaust air)

Single inlet, Ø 150



- **Material:** Impeller made of corrosion-resistant stainless steel
- **Technical features:** control input 0-10 VDC / PWM, tach output
- **Type of protection:** IP 20
- **Mounting position and condensate discharge holes:** any mounting position, without condensate discharge holes

ebm-papst • Muldingen

Nominal data		Characteristic	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Perm. ambient temp. <sup>1)</sup>	Mass
Type	Motor	VDC	VDC	m <sup>3</sup> /h	min <sup>-1</sup>	W	A	dB(A)	°C	kg	
R1G 150-AN93 -**	M1G055-BD	①	12	8-14	260	2615	22	2,02	63	-25..+60	1,3
		②	12	8-14	160	2735	19	1,77	64	-25..+60	1,3

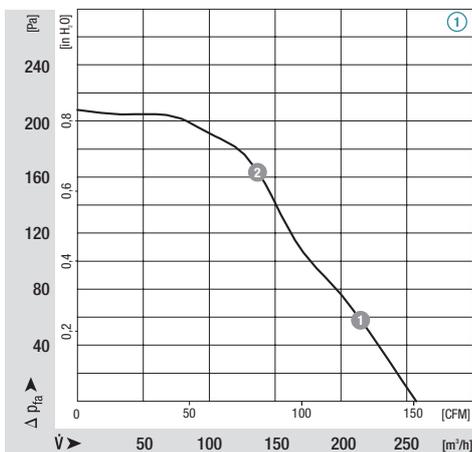
subject to alterations

② measured in an ebm-papst scroll housing <sup>1)</sup> Ambient temp. necessitates technical adaption.

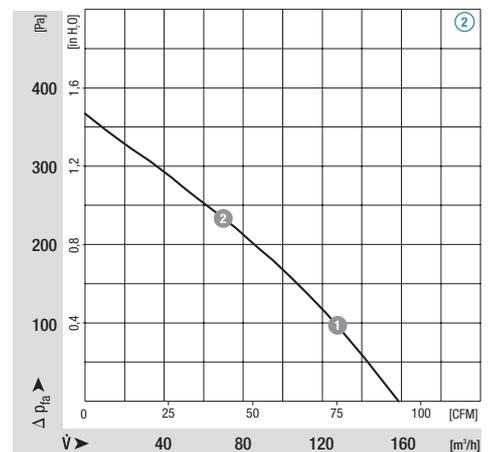
	n [min <sup>-1</sup> ]	P <sub>1</sub> [W]
① ①	2600	22
① ②	2670	20

	n [min <sup>-1</sup> ]	P <sub>1</sub> [W]
② ①	2760	18
② ②	2860	16

Characteristics (measured without scroll housing)



Characteristics (measured in scroll housing)



## Connection diagram

Line 1			
	+	red	
	GND	blue	
	Tacho	white	
	0-10V PWM	yellow	

Line	Connection	Color	Assignment / function
1	+	red	UB residual ripple $\pm 3.5\%$
	GND	blue	GND

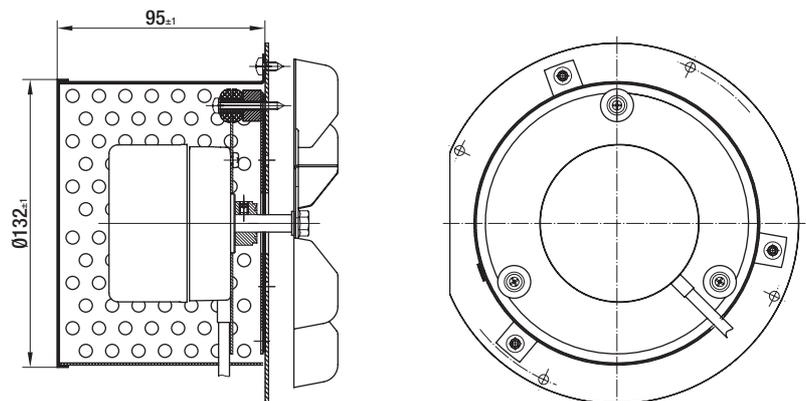
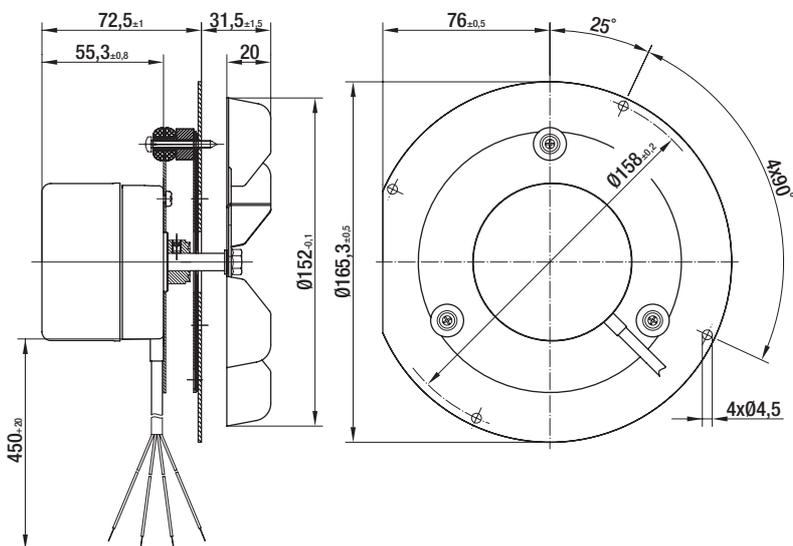
  

Line	Connection	Color	Assignment / function
1	Tacho	white	Tach output: 2 pulses/revolution
	0-10 V / PWM	yellow	Control input (impedance 100 k $\Omega$ )

## Selection



Type	without motor protection hood	with motor protection hood
R1G 150-AN93 -**	R1G 150-AN93 -02	R1G 150-AN93 -08



# EC radial fan (exhaust air)

Single inlet, Ø 150



- **Material:** Impeller made of corrosion-resistant stainless steel
- **Technical features:** control input 0-10 VDC / PWM, tach output
- **Type of protection:** IP 20
- **Mounting position and condensate discharge holes:** any mounting position, without condensate discharge holes

ebmpapst • Mulfingen

Nominal data		Characteristic	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Perm. ambient temp. <sup>1)</sup>	Mass
Type	Motor	VDC	VDC	m <sup>3</sup> /h	min <sup>-1</sup>	W	A	dB(A)	°C	kg	
R1G 150-AN63 -**	M1G055-BD	①	24	16-28	290	3040	30	1,40	66	-25..+60	1,3
		②	24	16-28	180	3110	28	1,31	67	-25..+60	1,3

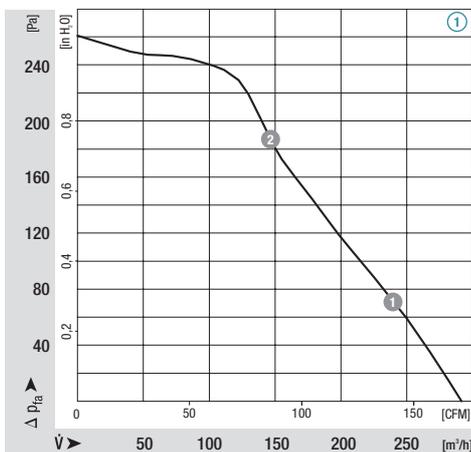
subject to alterations

② measured in an ebmpapst scroll housing <sup>1)</sup> Ambient temp. necessitates technical adaption.

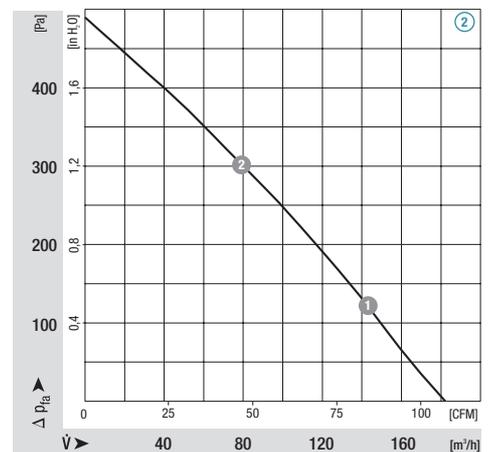
	n [min <sup>-1</sup> ]	P <sub>1</sub> [W]
① ①	3030	31
① ②	3110	29

	n [min <sup>-1</sup> ]	P <sub>1</sub> [W]
② ①	3190	26
② ②	3360	22

Characteristics (measured without scroll housing)



Characteristics (measured in scroll housing)



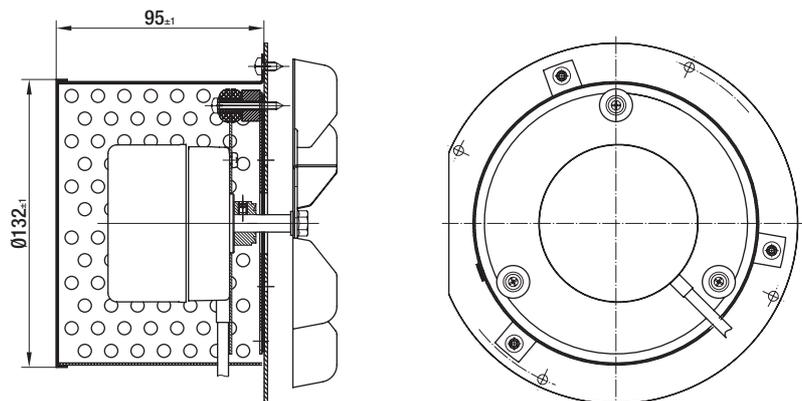
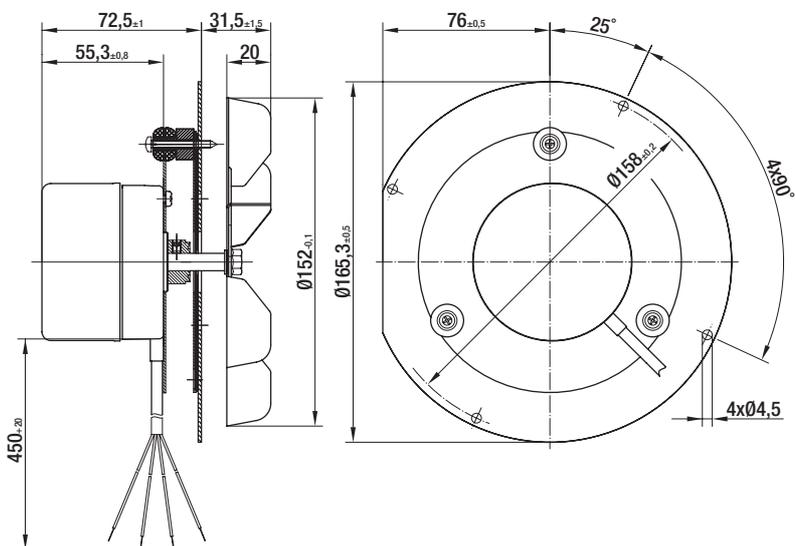
## Connection diagram

Line 1														
	+	red			GND	blue			Tacho	white			0-10V PWM	yellow
Line	Connection	Color	Assignment / function	Line	Connection	Color	Assignment / function							
1	+	red	UB residual ripple $\pm 3.5\%$	1	Tacho	white	Tach output: 2 pulses/revolution							
	GND	blue	GND											
					0-10 V / PWM	yellow	Control input (impedance 100 k $\Omega$ )							

## Selection



Type	without motor protection hood	with motor protection hood
R1G 150-AN63 -**	R1G 150-AN63 -02	R1G 150-AN63 -08



# AC radial fan (exhaust air)

Single inlet, Ø 152



- **Material:** Impeller made of corrosion-resistant stainless steel
- **Type of protection:** IP 00
- **Approvals:** VDE-compliant design, optional: UL-compliant design available
- **Optional:** Hall IC connection, motor protection hood

ebmpapst • Landshut

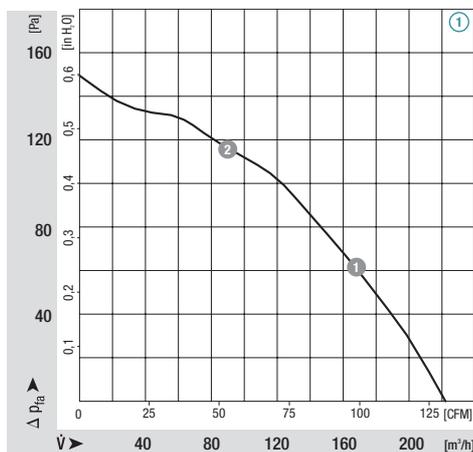
Nominal data		Characteristic	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Min. backpressure	Perm. ambient temp. <sup>1)</sup>	Mass
Type	Motor	VAC	Hz	m³/h	min <sup>-1</sup>	W	A	dB(A)	Pa	°C	kg	
RR 152 - 3025 LH	EM 3025	①	230	50	220	2435	39	0,34	60	0	-25..+85	0,85
		②	230	50	140	2470	39	0,34	61	0	-25..+85	0,85

subject to alterations ② measured in ebm-papst scroll housing <sup>1)</sup> higher ambient temperatures on request

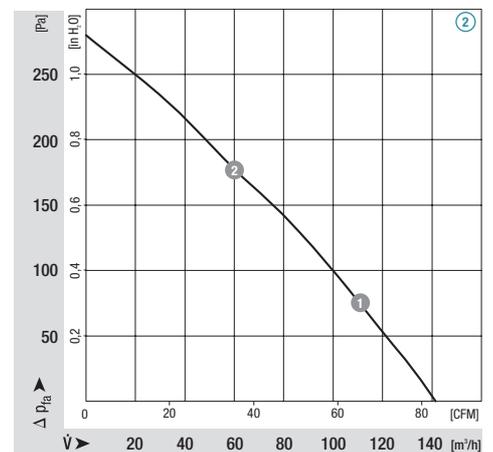
	n [min <sup>-1</sup> ]	P <sub>1</sub> [W]
① ①	2400	39
① ②	2520	37

	n [min <sup>-1</sup> ]	P <sub>1</sub> [W]
② ①	2520	37
② ②	2640	34

Characteristics (measured without scroll housing)

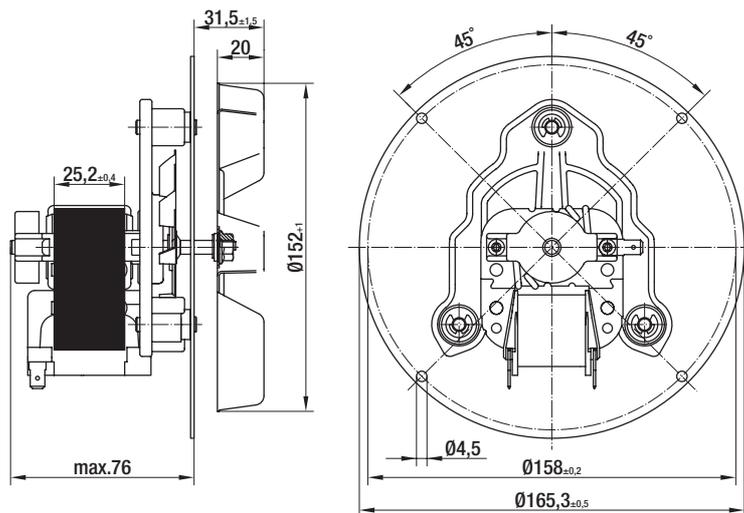
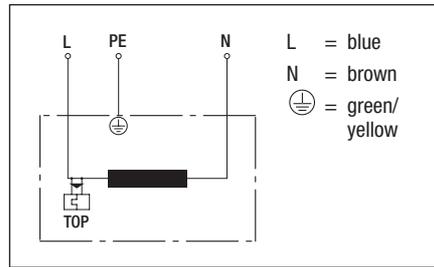


Characteristics (measured in scroll housing)



## Connection diagram

Shaded-pole motor  
with TOP wired internally



# AC radial fan (exhaust air)

Single inlet, Ø 152



- **Material:** Impeller made of corrosion-resistant stainless steel
- **Type of protection:** IP 00
- **Approvals:** VDE-compliant design, optional: UL-compliant design available
- **Optional:** Hall IC connection, motor protection hood

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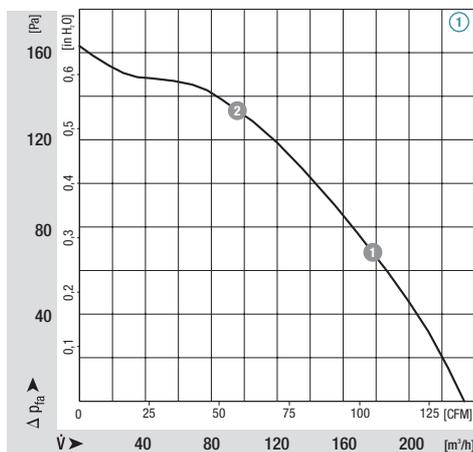
Nominal data		Characteristic	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Min. backpressure	Perm. ambient temp. <sup>1)</sup>	Mass
Type	Motor	VAC	Hz	m³/h	min <sup>-1</sup>	W	A	dB(A)	Pa	°C	kg	
RR 152 - 3030 LH	EM 3030	①	230	50	235	2575	44	0,37	61	0	-25..+85	1,0
		②	230	50	150	2600	44	0,37	62	0	-25..+85	1,0

subject to alterations ② measured in ebm-papst scroll housing <sup>1)</sup> higher ambient temperatures on request

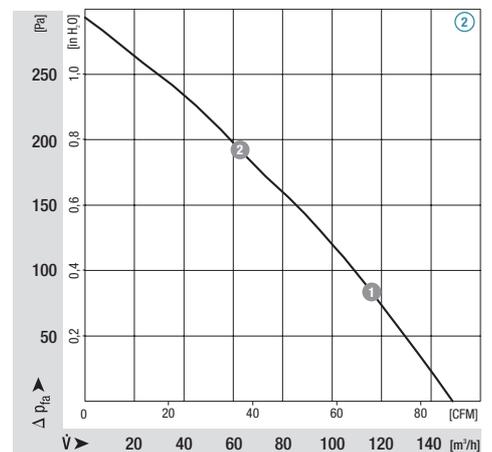
	n [min <sup>-1</sup> ]	P <sub>1</sub> [W]
① ①	2540	45
① ②	2620	42

	n [min <sup>-1</sup> ]	P <sub>1</sub> [W]
② ①	2640	42
② ②	2730	39

Characteristics (measured without scroll housing)

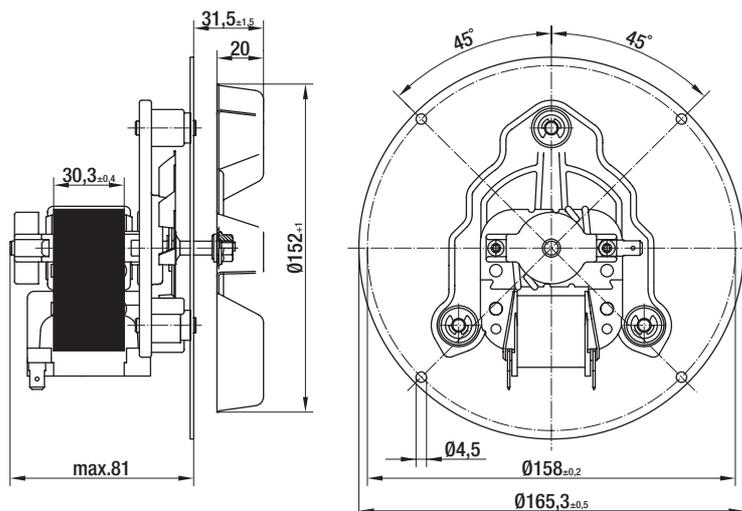
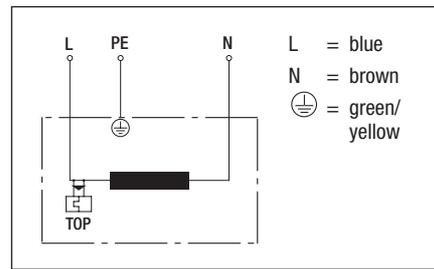


Characteristics (measured in scroll housing)

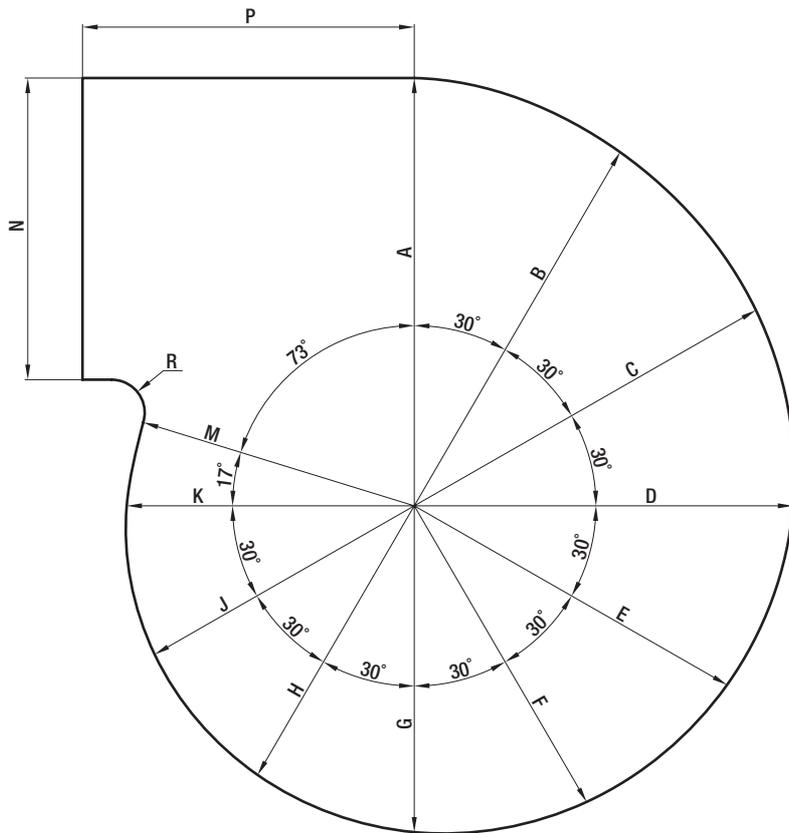


## Connection diagram

Shaded-pole motor  
with TOP wired internally



# Scroll dimensions



- **Material:** galvanized sheet steel

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Scroll dimensions for AC / EC centrifugal fans

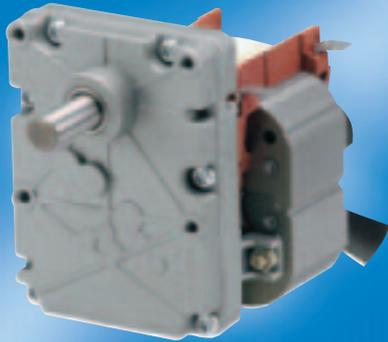
Size	A	B	C	D	E	F	G	H	J	K	M	N	P	R
150/152	130	124	119	114	109	104	99	94	90	87	86	92	100	10
180	156	149	143	137	131	125	119	113	108	104	103	110	120	12
210	182	174	167	160	152	146	139	132	127	121	120	128	140	14

subject to alterations



# EM 30 shaded-pole motor

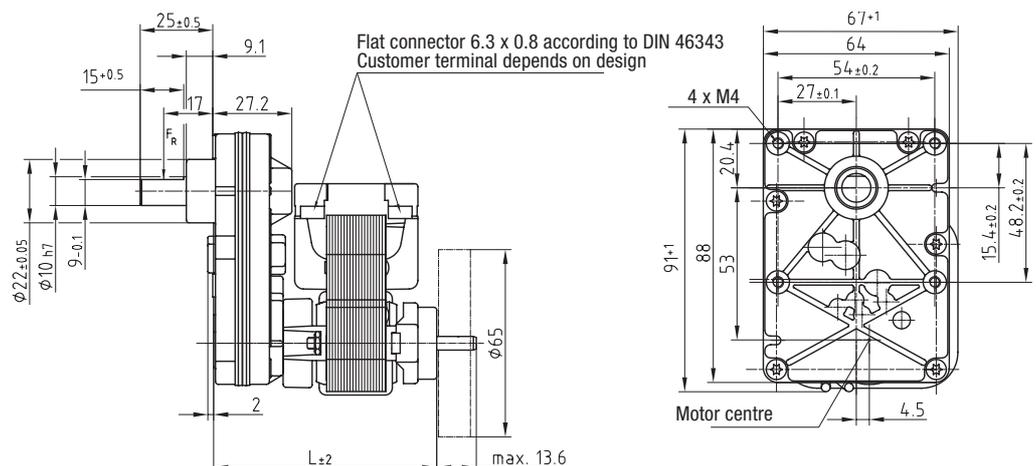
with Flatline 78



- Spur gear unit with die-cast zinc housing
- Max. permitted radial load 150 N
- Max. permitted axial load 50 N
- Lifetime lubrication
- Expected service life: 5000 h
- Noise-optimized input stage
- Gearbox output shaft: slide/needle bearing
- S1 operation at ambient temperatures up to 50 °C

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Nominal data		Nominal voltage	Frequency	Reduction	Drive torque	Output speed	Output power	Nominal current	Weight	Length
Order number	Motor	V	Hz	i/No. of stages	M <sub>ab</sub> (NM)	n <sub>ab</sub> (rpm)	P <sub>ab</sub> (W)	I (A)	m (kg)	L (mm)
78.3.3045.F20	EM3045	230	50	38,6 / 3	1,1	67,3	7,8	0,5	1,5	102
78.3.3045.F21	EM3045	230	50	65,2 / 3	1,5	39,9	6,3	0,5	1,5	102
78.3.3045.F22	EM3045	230	50	82,8 / 3	2,3	31,4	7,6	0,5	1,5	102
78.3.3045.F23	EM3045	230	50	106,1 / 3	2,6	24,5	6,7	0,5	1,5	102
78.3.3045.F24	EM3045	230	50	140,8 / 3	3,2	18,5	6,2	0,5	1,5	102
78.4.3030.F25	EM3030	230	50	191,9 / 4	3,8	13,5	5,4	0,46	1,1	87
78.4.3030.F26	EM3030	230	50	252,6 / 4	5,1	10,3	5,4	0,46	1,1	87
78.4.3030.F27	EM3030	230	50	315,7 / 4	6,3	8,24	5,4	0,46	1,1	87
78.5.3030.F28	EM3030	230	50	408,4 / 5	6	6,37	4	0,46	1,1	87
78.5.3030.F29	EM3030	230	50	737,4 / 5	6,3	3,53	2,3	0,46	1,1	87
78.5.3030.F40	EM3030	230	50	408,4 / 5	7,4	6,37	4,9	0,46	1,1	87
78.5.3030.F41	EM3030	230	50	737,4 / 5	12,5	3,53	4,6	0,46	1,1	87
78.5.3020.F30	EM3020	230	50	976 / 5	6,3	2,66	1,8	0,15	0,9	77
78.5.3020.F31	EM3020	230	50	1266,1 / 5	7	2,05	1,5	0,15	0,9	77
78.5.3020.F32	EM3020	230	50	1648,6 / 5	7,1	1,58	1,2	0,15	0,9	77
78.5.3020.F33	EM3020	230	50	2135,9 / 5	7,3	1,22	0,9	0,15	0,9	77
78.5.3020.F42	EM3020	230	50	976 / 5	11,9	2,66	3,3	0,15	0,9	77
78.5.3020.F43	EM3020	230	50	1266,1 / 5	13	2,05	2,8	0,15	0,9	77
78.5.3020.F44	EM3020	230	50	1648,6 / 5	14	1,58	2,3	0,15	0,9	77
78.5.3020.F45	EM3020	230	50	2135,9 / 5	15	1,22	1,9	0,15	0,9	77



# Capacitor motor KM 40

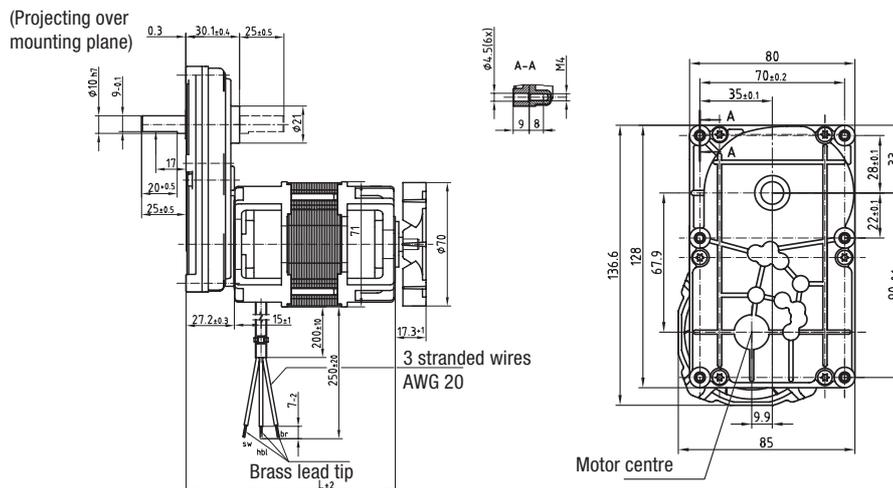
with Flatline 85



- Spur gear unit with die-cast zinc housing
- Max. permitted radial load 150 N
- Max. permitted axial load 50 N
- Lifetime lubrication
- Expected service life: 5000 h
- Noise-optimized input stage
- Gearbox output shaft: sleeve bearings on both sides
- S1 operation at ambient temperatures up to 50 °C

ebm-papst • Landshut

Nominal data		Nominal voltage	Frequency	Reduction	Drive torque	Output speed	Output power	Nominal current	Capacitor	Weight	Length
Order number	Motor	V	Hz	i/No. of stages	M <sub>ab</sub> (NM)	n <sub>ab</sub> (rpm)	P <sub>ab</sub> (W)	I (A)		m (kg)	L (mm)
85.3.4050.2.F01	EM4050-2	230	50	8,2 / 3	1,5	335	52	0,68	5µF/400 V	2,1	139
85.3.4050.2.F02	EM4050-2	230	50	12,3 / 3	2,2	224	52	0,68	5µF/400 V	2,1	139
85.3.4050.2.F03	EM4050-2	230	50	18 / 3	3,3	153	52	0,68	5µF/400 V	2,1	139
85.3.4050.2.F04	EM4050-2	230	50	27,6 / 3	5	99,6	52	0,68	5µF/400 V	2,1	139
85.3.4050.2.F05	EM4050-2	230	50	40,3 / 3	7,3	68,2	52	0,68	5µF/400 V	2,1	139
85.3.4050.2.F06	EM4050-2	230	50	64 / 3	11,7	43	52	0,68	5µF/400 V	2,1	139
85.3.4050.2.F07	EM4050-2	230	50	101,8 / 3	18,6	27	52	0,68	5µF/400 V	2,1	139
85.3.4050.2.F08	EM4050-2	230	50	136,5 / 3	24,9	20,1	52	0,68	5µF/400 V	2,1	139
85.3.4050.2.F09	EM4050-2	230	50	189 / 3	25	14,6	38	0,68	5µF/400 V	2,1	139
85.4.4030.F10	KM4030-2	230	50	303,6 / 4	27,7	9,06	26	0,38	3,5µF/400 V	1,7	119
85.4.4030.F11	KM4030-2	230	50	454 / 4	30	6,06	19	0,38	3,5µF/400 V	1,7	119
85.4.4030.F12	KM4030-2	230	50	687 / 4	30	4	13	0,38	3,5µF/400 V	1,7	119
85.5.4030.F13	KM4030-2	230	50	1028,7 / 4	30	2,67	8,4	0,38	3,5µF/400 V	1,7	119



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- *Corporate brochure/facts and figures*
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