

KARTA KATALOGOWA

R4D180-AB16-09

Wentylator promieniowy AC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst

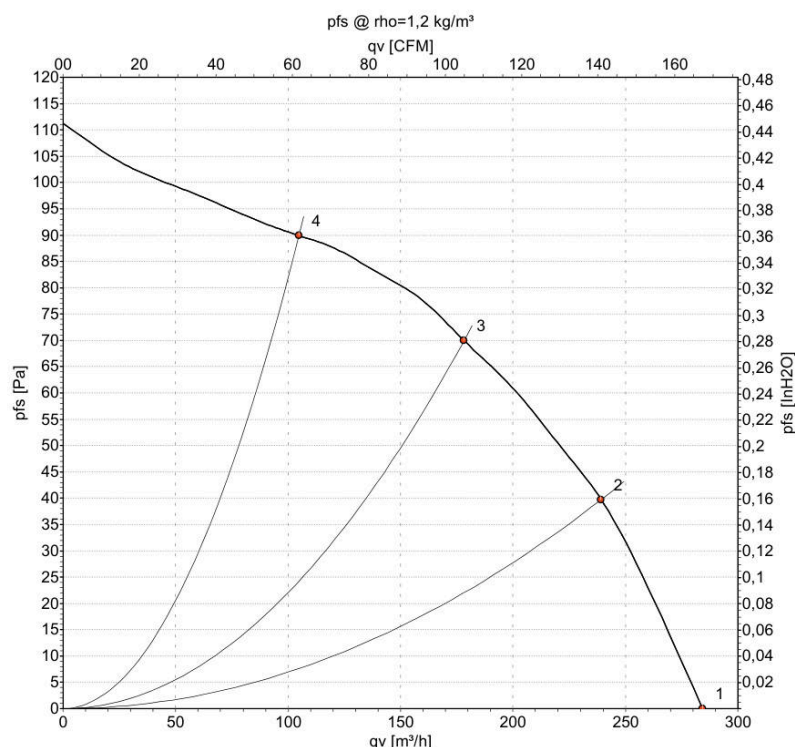


Zdjęcie poglądowe

Dane znamionowe		Budowa	
Napięcie znamionowe	3~ 480 V	Średnica wirnika	180 mm
Częstotliwość	60 Hz	Materiał wirnika	tworzywo PA
Prędkość obrotowa	1700 obr/min	Liczba łopatek	16
Pobór mocy	33 W	Stopień ochrony	IP44
Pobór prądu	0,08 A	Klasa izolacji	F
Maks. wydajność	285 m³/h	Zabezpieczenie silnika	termik (TOP)
Maks. ciśnienie statyczne	90 Pa	Masa	1,24 kg
Temperatura otoczenia	-25...+60 °C		

Charakterystyka przepływowa

Curves: Air performance 60 Hz



Measurement: LU-154565-1

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.

Dane na podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).

Wartości znamionowe dla punktu maksymalnego obciążenia; producent zastrzega możliwość zmian.

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AC centrifugal fan

backward-curved, single-intake

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	R4D180-AB16-09	
Motor	M2D068-BC	
Phase		3~
Nominal voltage	VAC	480
Wiring		Y
Frequency	Hz	60
Method of obtaining data		ml
Valid for approval/standard		CE
Speed (rpm)	min ⁻¹	1700
Power consumption	W	33
Current draw	A	0.08
Min. back pressure	Pa	0
Min. back pressure	in. wg	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60
Starting current	A	0.15

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



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Technical description

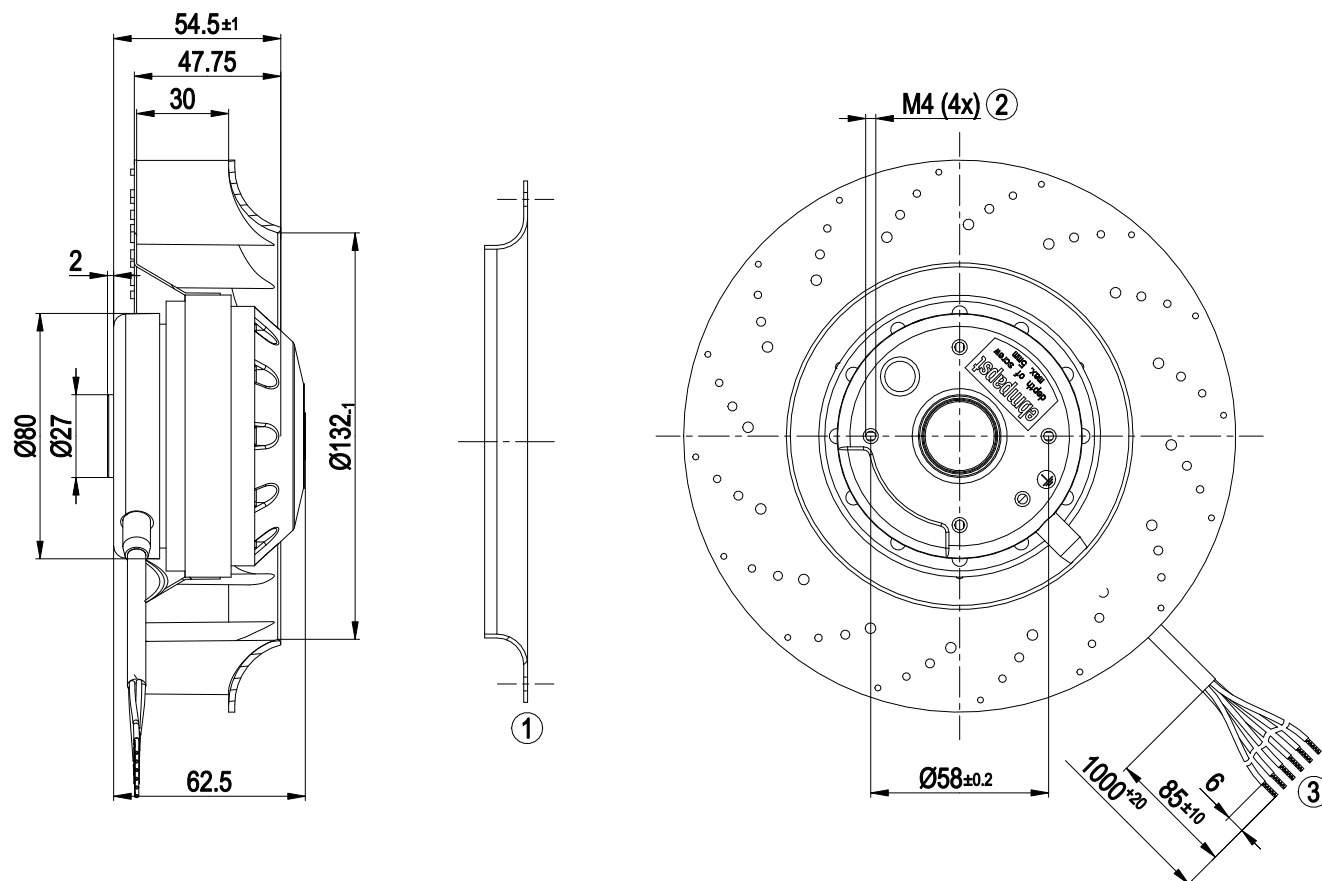
Weight	1.24 kg
Size	180 mm
Motor size	68
Rotor surface	Painted black
Impeller material	PA plastic
Number of blades	16
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H1+
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE

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Product drawing



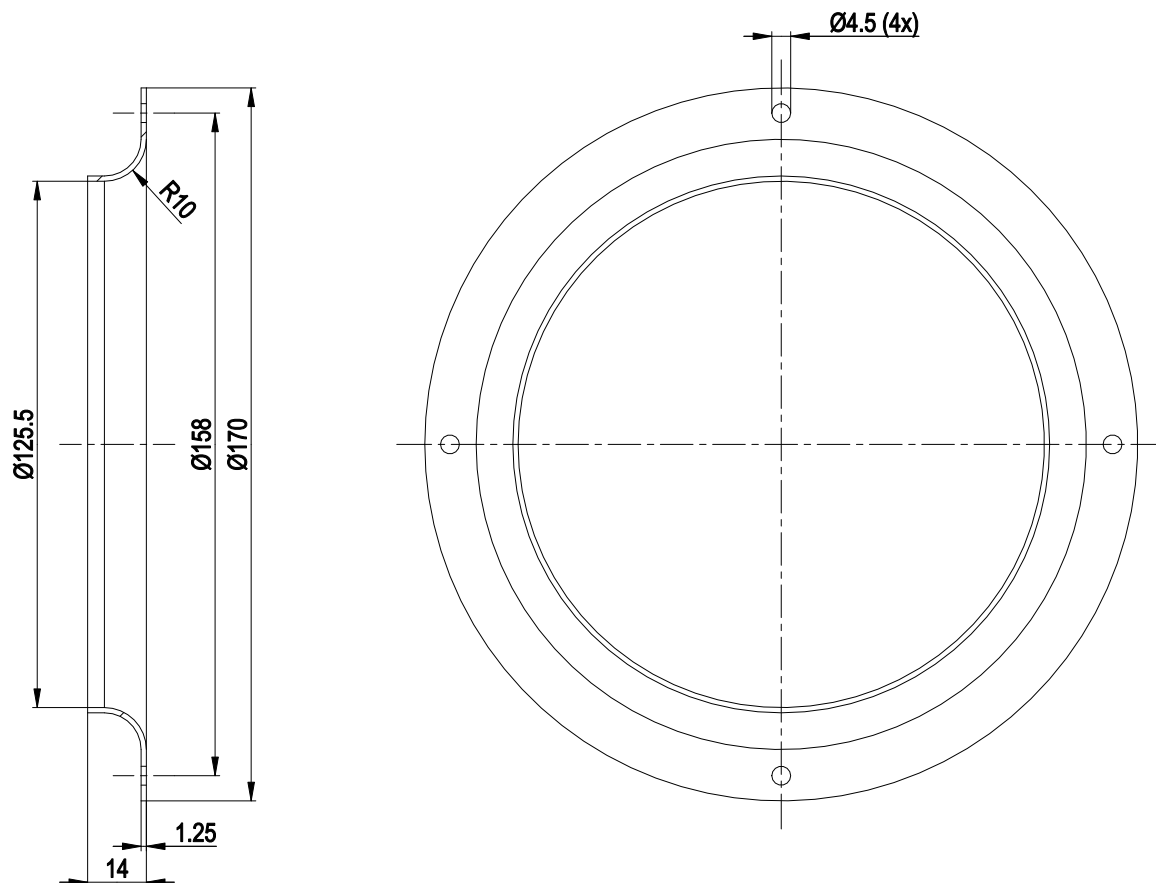
1	Accessory part: inlet ring 09576-2-4013 not included in scope of delivery
2	Max. clearance for screw 5 mm
3	Cable, halogen-free, railway application EN 45545, 6G 0.5 mm ²
	6x splice

R4D180-AB16-09

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Accessory part

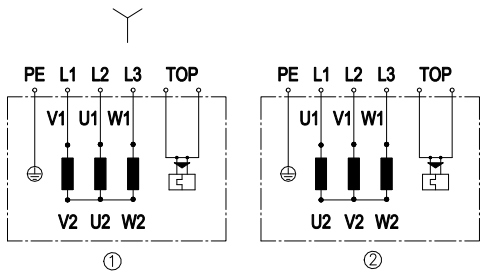


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R4D180-AB16-09

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Connection diagram



Change of rotation direction by reversing two phases

	Three-phase motor
Y	Star connection
1	Counterclockwise operation
L1	= V1 = blue
L2	= U1 = black
L3	= W1 = brown
2	Clockwise operation
L1	= U1 = black
L2	= V1 = blue
L3	= W1 = brown
PE	Green/yellow
TOP	2x gray

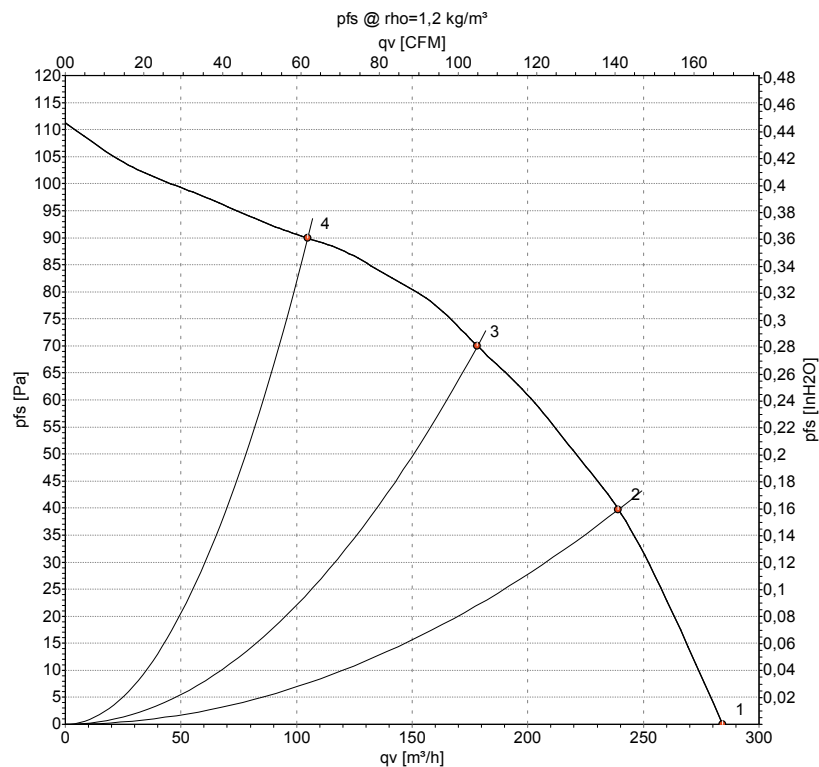


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Measured values

	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	480	60	1700	33	0.08	285	0	165	0.00
2	480	60	1700	33	0.08	240	40	140	0.16
3	480	60	1700	33	0.08	180	70	105	0.28
4	480	60	1720	31	0.07	105	90	60	0.36

U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase