

KARTA KATALOGOWA

R2D220-AC14-20

Wentylator promieniowy AC, łopatki zakrzywione do tyłu

Producent: ebm-papst

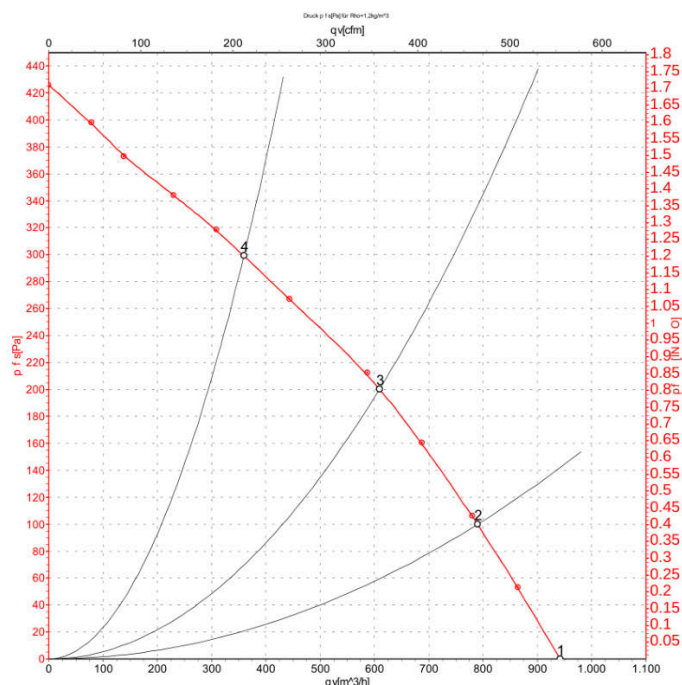


Zdjęcie poglądowe

Dane znamionowe		Budowa	
Napięcie znamionowe	3~ 400 / 460 / 460 V	Wielkość	220 mm
Połączenie	Y	Silnik	M2D068-CF
Częstotliwość	50 / 60 / 60 Hz	Materiał wirnika	tworzywo PA6 wzmocnione włóknem szklanym
Prędkość obrotowa	2650 / 3080 / 3080 obr/min	Liczba łopatek	11
Pobór mocy	74 / 107 / 115 W	Kierunek obrotów	w prawo, patrząc na wirnik
Pobór prądu	0,16 / 0,18 A	Stopień ochrony	IP44
Prąd rozruchowy	0,48 / 0,46 / 0,46 A	Klasa izolacji	B
Maks. wydajność	940 m³/h	Zabezpieczenie silnika	termik (TOP), wyprowadzony, izolacja podstawowa
Maks. ciśnienie statyczne	415 Pa	Łożyskowanie	kulkowe
Temperatura otoczenia	min. -25 °C; maks. 65 / 50 / 50 °C	Masa	1,7 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



Measurement: LU-55254-1

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 must be checked in the installed unit.

Dane na okładce wg karty ebm-papst; strony producenta przetłumaczone z wersji rosyjskiej (oryg. RUS).
Wartości przy swobodnym wydmuchu; producent zastrzega możliwość zmian.

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R2D220-AC14-20

AC centrifugal fan

backward curved

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Nominal data

Type	R2D220-AC14-20			
Motor	M2D068-CF			
Phase		3~	3~	3~
Nominal voltage	VAC	400	460	460
Connection		Y	Y	Y
Frequency	Hz	50	60	60
Method of obtaining data		fa	fa	fa
Valid for approval/standard		CE	CE	UL
Speed (rpm)	min ⁻¹	2650	3080	3080
Power consumption	W	74	107	115
Current draw	A	0.16	0.18	
Min. back pressure	Pa	0	0	0
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	65	50	50
Starting current	A	0.48	0.46	0.46

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


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AC centrifugal fan

backward curved

Technical description

Weight	1.7 kg
Fan size	220 mm
Motor size	68
Rotor surface	Painted black
Impeller material	PA6 plastic, glass-fiber reinforced
Number of blades	11
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44
Insulation class	«B»
Moisture (F) / Environmental (H) protection class	H1+; F2-2
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) brought out, with basic insulation
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CSA C22.2 № 100; CCC; EAC; UL 1004-1

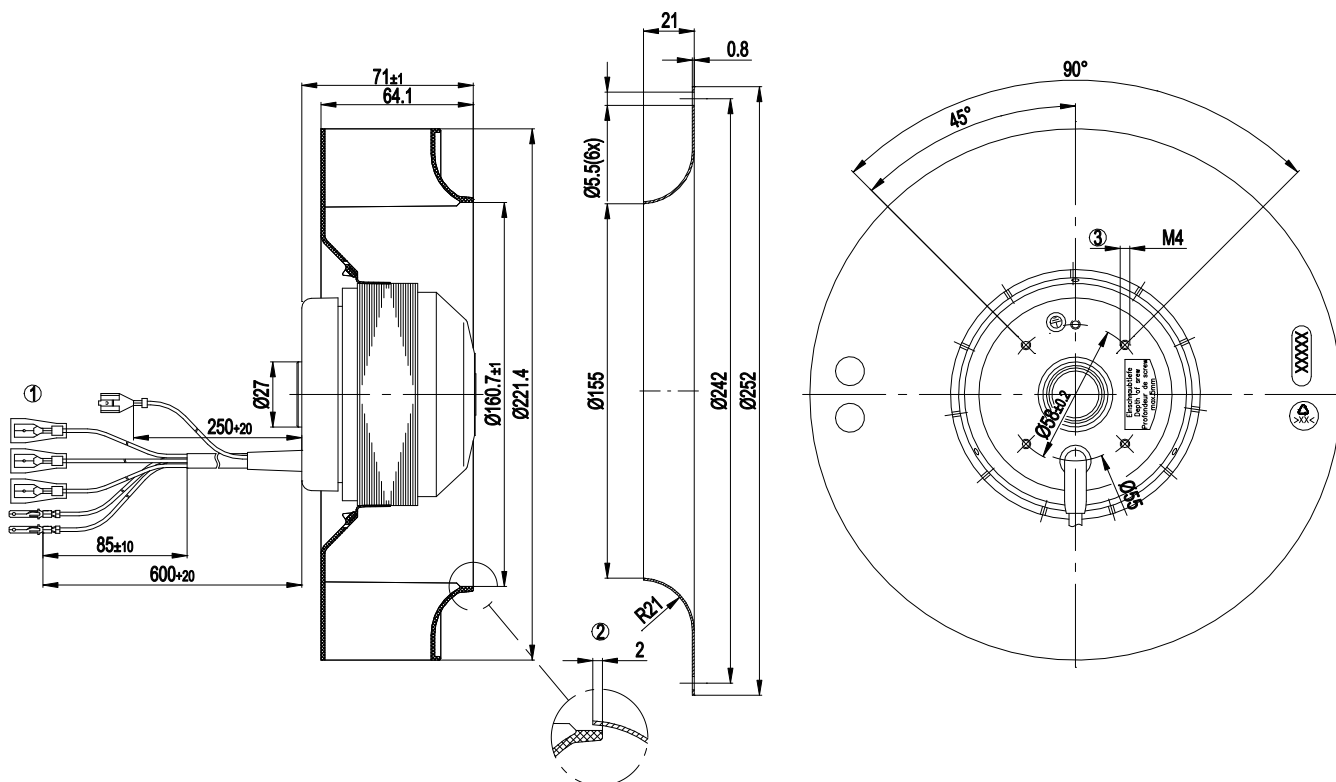


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AC centrifugal fan

backward curved

Product drawing

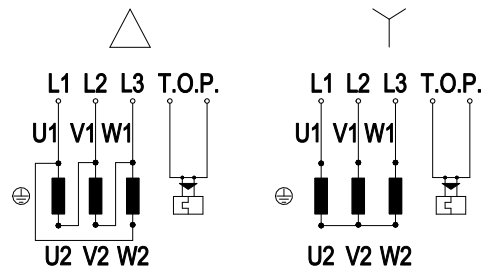


- | | |
|---|---|
| 1 | Connection line PFA, 1 flat plug and 5 crimped flat receptacles |
| 2 | Accessory part: inlet ring 09609-2-4013, not included in scope of delivery. |
| 3 | Max. clearance for screw 5 mm |

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AC centrifugal fan
backward curved

Connection diagram



Note: direction of rotation is reversed by swapping two phases

Δ	Delta connection
Y	Star connection
L1	black
L2	blue
L3	brown
U1	black
V1	blue
W1	brown
U2	green
V2	white
W2	yellow
TOP	gray

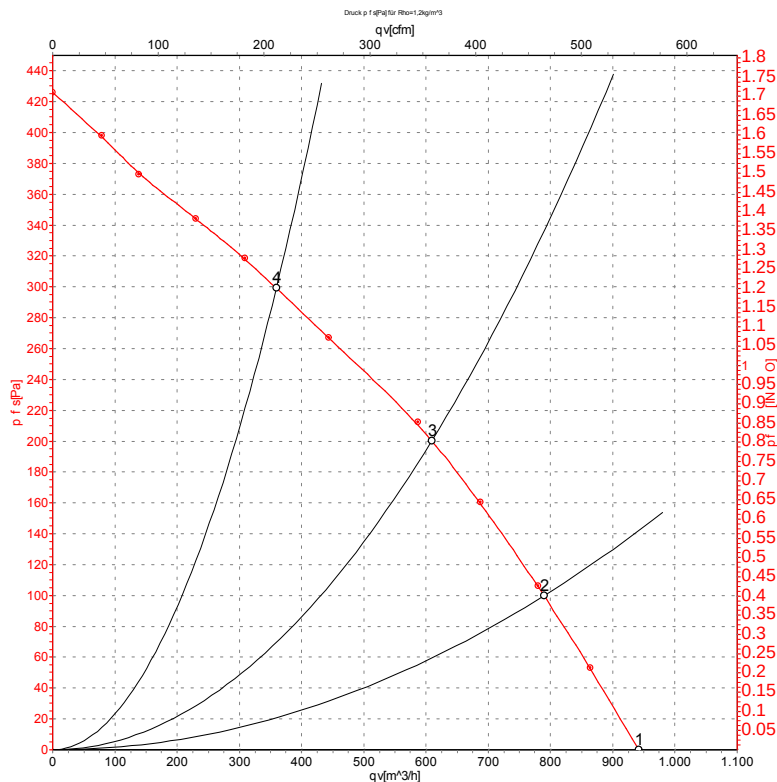


R2D220-AC14-20

AC centrifugal fan

backward curved

Curves: Air performance 50 Hz



Measurement: LU-55254-1

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 must be checked in the installed unit.

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	400	50	2650	74	0.16	940	0	555	0.00
2	400	50	2575	87	0.17	790	100	465	0.40
3	400	50	2490	98	0.18	610	200	360	0.80
4	400	50	2505	97	0.18	360	300	210	1.20

U = Power supply · f = Frequency · n = Speed (rpm) · P

e = Power consumption · I = Current draw · q_v = Air flow · p

fs = Pressure increase



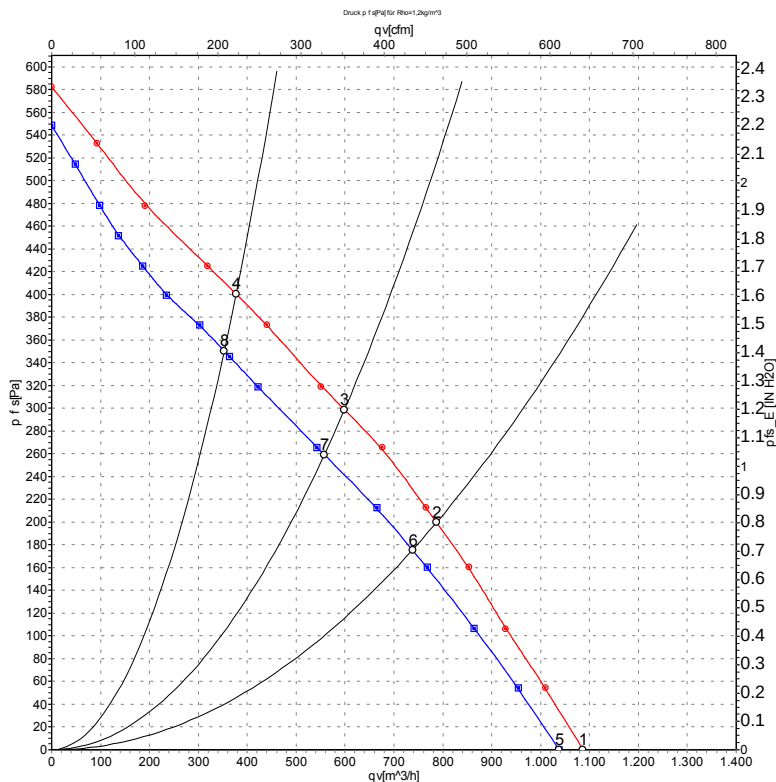
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R2D220-AC14-20

AC centrifugal fan

backward curved

Curves: Air performance 60 Hz



Measurement: LU-55256-1
Measurement: LU-55255-1

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 must be checked in the installed unit.

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	460	60	3080	107	0.18	1085	0	640	0.00
2	460	60	2865	140	0.21	785	200	465	0.80
3	460	60	2805	147	0.22	600	300	355	1.20
4	460	60	2845	142	0.21	375	400	220	1.61
5	400	60	2950	98	0.17	1035	0	610	0.00
6	400	60	2690	125	0.20	740	176	435	0.71
7	400	60	2625	132	0.21	560	259	330	1.04
8	400	60	2655	128	0.21	355	350	210	1.41

U = Power supply · f = Frequency · n = Speed (rpm) · P

_e = Power consumption · I = Current draw · q_v = Air flow · p

_{fs} = Pressure increase



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