

KARTA KATALOGOWA

R4E310-AL11-01

Wentylator promieniowy AC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst

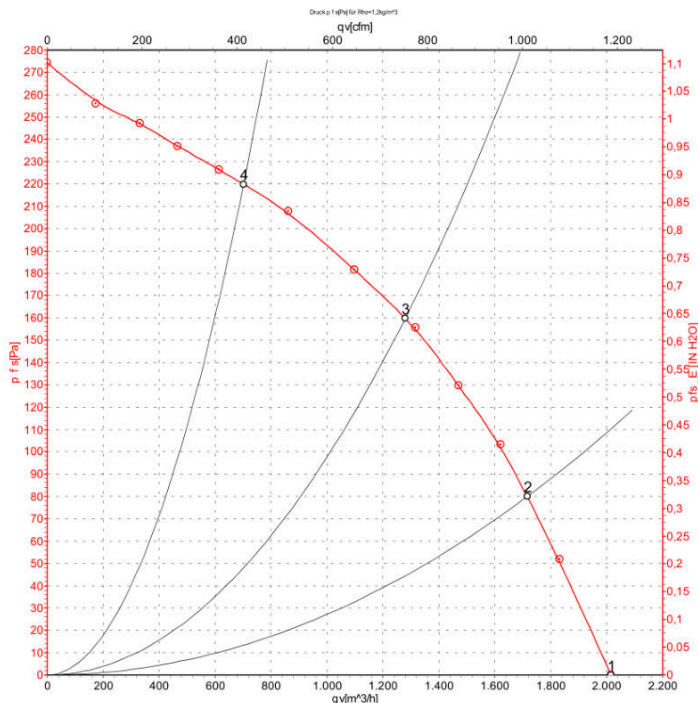


Zdjęcie poglądowe

Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V	Wielkość	310 mm
Częstotliwość	50 / 60 Hz	Silnik	M4E074-DF
Prędkość obrotowa	1380 / 1580 obr/min	Materiał wirnika	blacha aluminiowa malowana na czarno
Pobór mocy	115 / 160 W	Liczba łopatek	6
Pobór prądu	0,52 / 0,71 A	Kierunek obrotów	w prawo, patrząc na wirnik
Kondensator	4 µF / 400 V	Stopień ochrony	IP44
Maks. wydajność	2000 m³/h	Klasa izolacji	F
Maks. ciśnienie statyczne	265 Pa	Zabezpieczenie silnika	termik (TOP), podłączony wewnętrznie
Temperatura otoczenia	min. -25 °C; maks. 70 / 50 °C	Łożyskowanie	kulkowe
		Masa	3,86 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



Measurement: LU-37623-1

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.

Wartości przy swobodnym wydmuchu; producent zastrzega możliwość zmian.

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R4E310-AL11-01

AC centrifugal fan

backward-curved, single-intake

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Nominal data

Type	R4E310-AL11-01		
Motor	M4E074-DF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		-	-
Speed (rpm)	min ⁻¹	1380	1580
Power consumption	W	115	160
Current draw	A	0.52	0.71
Capacitor	µF	4	4
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	-25	-25
Max. ambient temperature	°C	70	50

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



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Technical description

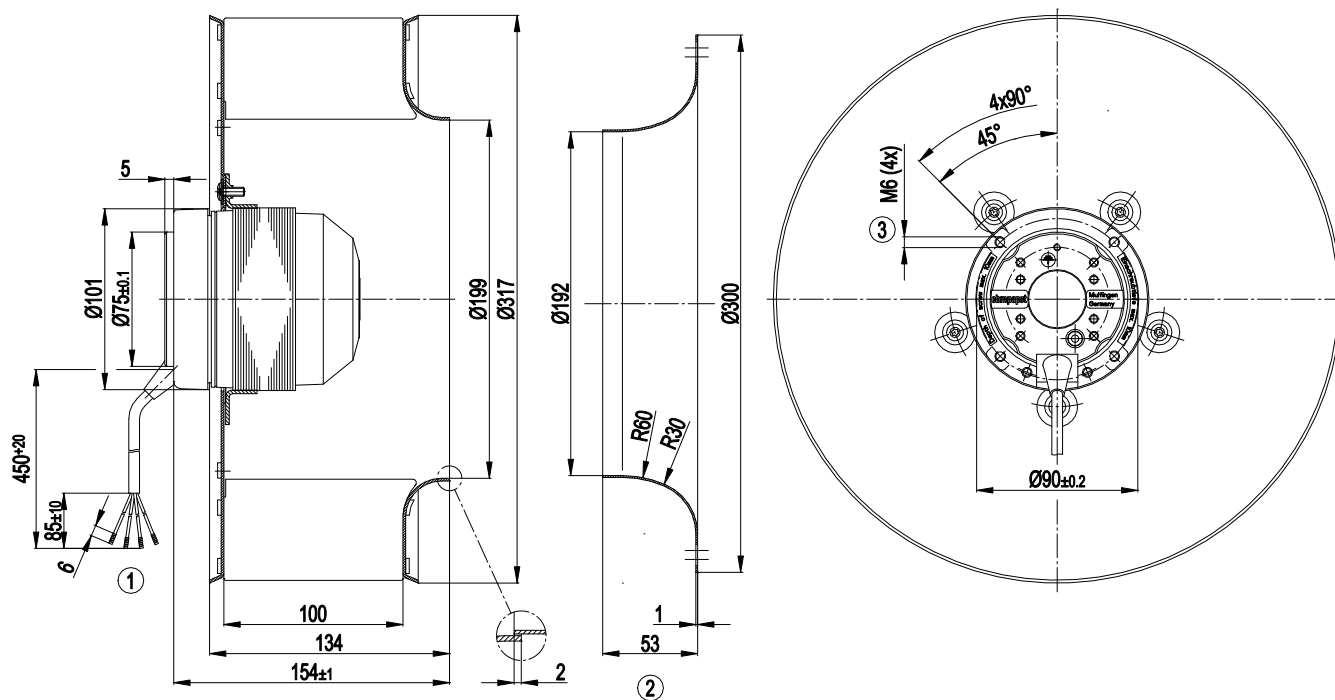
Weight	3.86 kg
Size	310 mm
Motor size	74
Rotor surface	Painted black
Impeller material	Sheet aluminum, painted black
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
Moisture (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) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1
Approval	CCC; EAC

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AC centrifugal fan

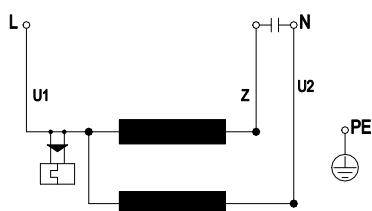
backward-curved, single-intake

Product drawing



- | | |
|---|---|
| 1 | Cable silicone 4G 0.5 mm ² , 4x crimped splices |
| 2 | Accessory part: inlet ring 97512-2-4013 not included in scope of delivery |
| 3 | Max. clearance for screw 10 mm |

Connection diagram

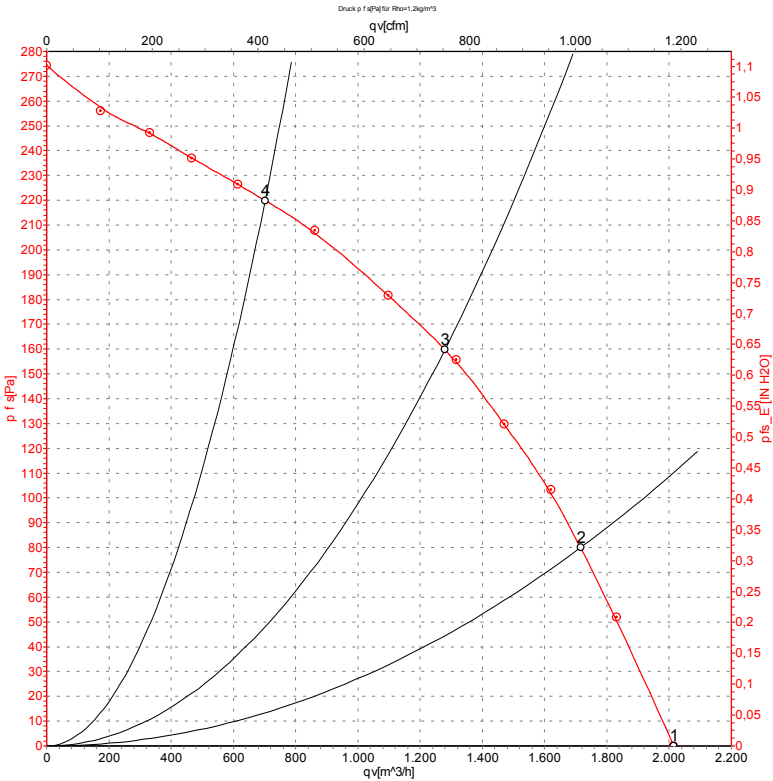


U1	blue	Z	brown	U2	black
PE	green/yellow				

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Curves: Air performance 50 Hz



Measurement: LU-37623-1

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Measured values

	U	f	n	P _e	I	q _v	p _f s	q _v	p _f s
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	230	50	1380	115	0.52	2015	0	1185	0.00
2	230	50	1360	130	0.58	1715	80	1010	0.32
3	230	50	1330	142	0.63	1280	160	755	0.64
4	230	50	1355	130	0.58	700	220	415	0.88

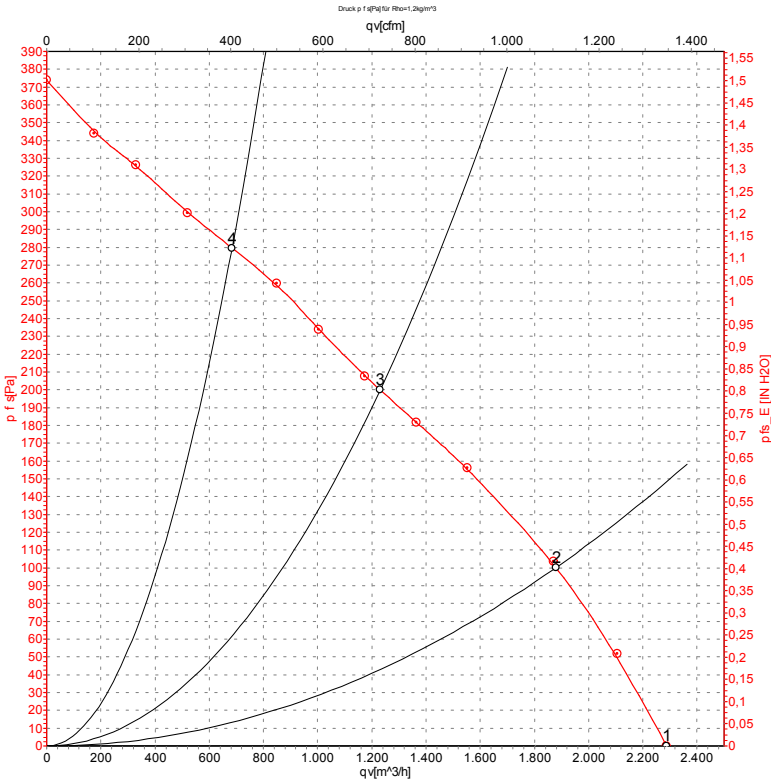
U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_fs = Pressure increase



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AC centrifugal fan
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Curves: Air performance 60 Hz



Measurement: LU-37624-1

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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	m ³ /h	Pa	cfm	in. wg
1	230	60	1580	160	0.71	2290	0	1345	0.00
2	230	60	1490	181	0.79	1880	100	1105	0.40
3	230	60	1420	195	0.85	1230	200	725	0.80
4	230	60	1510	177	0.77	685	280	405	1.12

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

