

KARTA KATALOGOWA

R4D450-AA04-05

Wentylator promieniowy AC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst



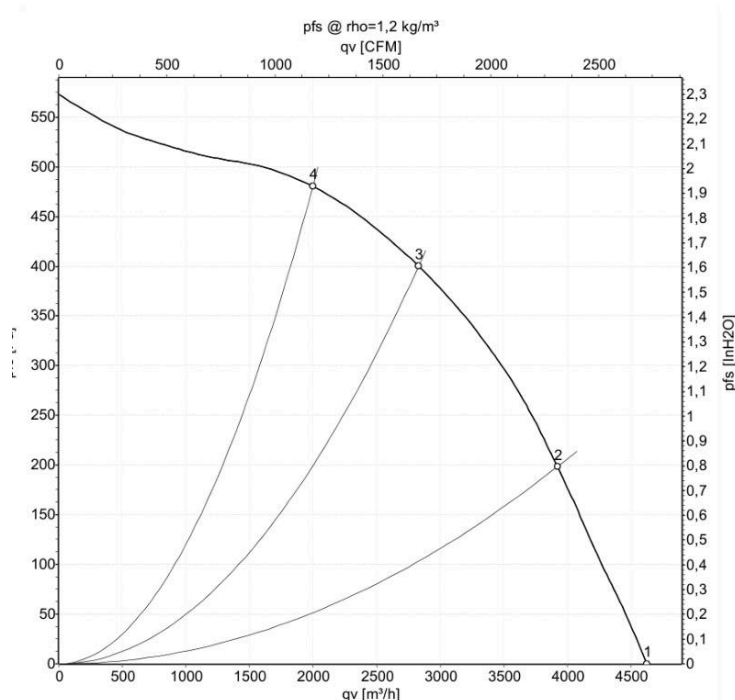
Zdjęcie poglądowe

Dane znamionowe	
Napięcie znamionowe	3~ 230 / 400 V
Połączenie	Δ / Y
Częstotliwość	50 Hz
Prędkość obrotowa	1375 obr/min
Pobór mocy	650 W
Pobór prądu	2,45 / 1,42 A
Maks. wydajność	4600 m³/h
Maks. ciśnienie statyczne	480 Pa
Temperatura otoczenia	-40...+50 °C

Budowa	
Wielkość	450 mm
Silnik	M4D094-HA
Materiał wirnika	blacha aluminiowa
Kierunek obrotów	w prawo, patrząc na wirnik
Stopień ochrony	IP54
Klasa izolacji	F
Zabezpieczenie silnika	termik (TOP), izolacja podstawowa
Łożyskowanie	kulkowe
Podłączenie	skrzynka zaciskowa
Masa	9 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



Measurement: LU-53036-1

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 okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).
Wartości przy maksymalnym obciążeniu; producent zastrzega możliwość zmian.

Dobór, wycena i dostawa – zapytaj LUFTBERG

tel. +48 600 100 371 · tel. +48 604 959 199
biuro@luftberg.pl · www.luftberg.pl

R4D450-AA04-05

AC centrifugal fan

backward-curved, single-intake

ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Nominal data

Type	R4D450-AA04-05		
Motor	M4D094-HA		
Phase		3~	3~
Nominal voltage	VAC	230	400
Wiring		Δ	Y
Frequency	Hz	50	50
Method of obtaining data		ml	ml
Valid for approval/standard		-	-
Speed (rpm)	min ⁻¹	1375	1375
Power consumption	W	650	650
Current draw	A	2.45	1.42
Min. back pressure	Pa	0	0
Min. back pressure	inH2O	0	0
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	50	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

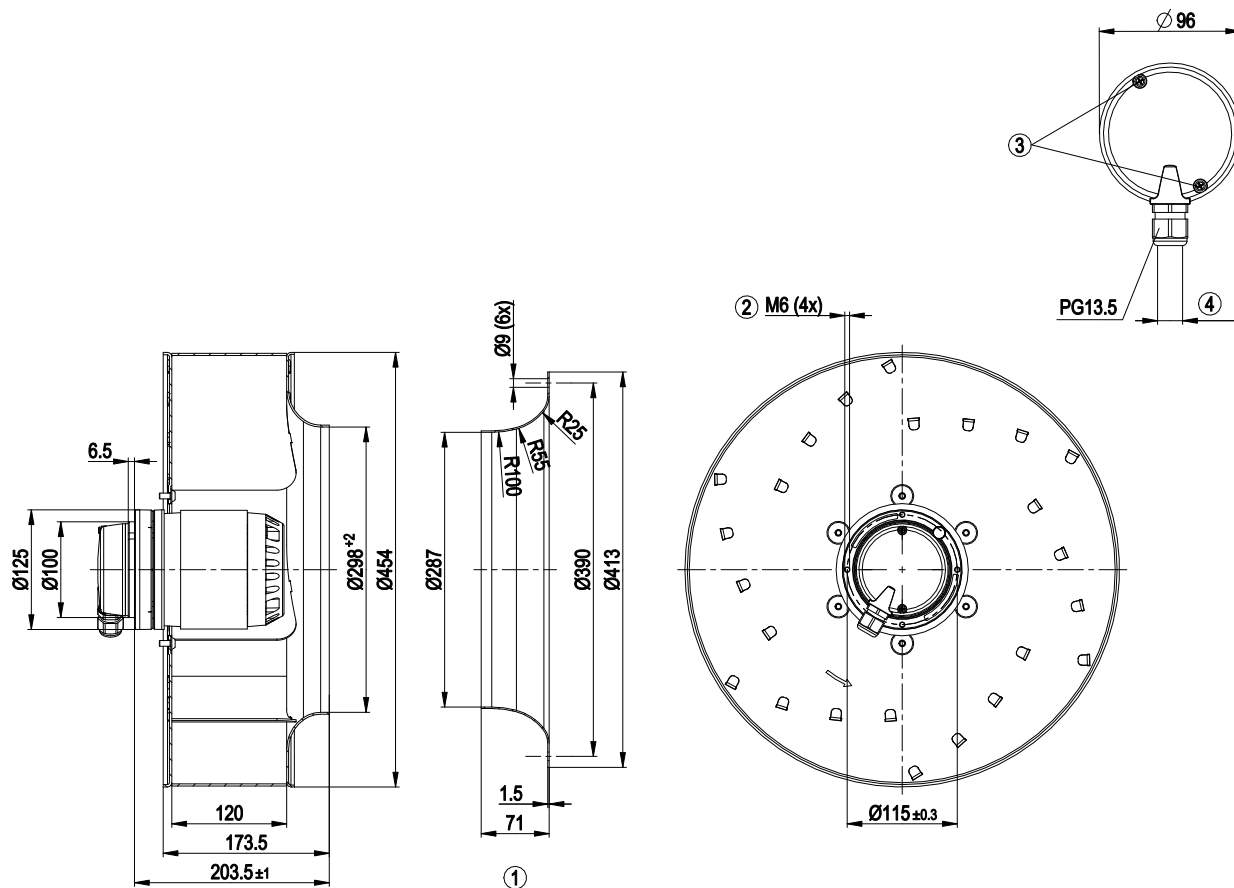
Weight	9 kg
Fan size	450 mm
Rotor surface	Painted black
Terminal box material	ABS plastic
Impeller material	Sheet aluminum
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F4-1
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Via terminal box
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 60034-1 (2010)
Approval	CCC

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Product drawing

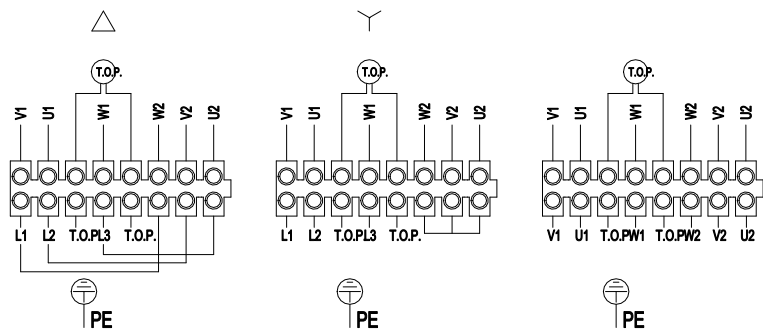


- | | |
|---|---|
| 1 | Accessory part: inlet ring 54478-2-4013 not included in scope of delivery |
| 2 | Max. clearance for screw 10 mm |
| 3 | Tightening torque 1.5 ± 0.2 Nm |
| 4 | Cable diameter min. 6 mm, max. 12 mm, tightening torque 2 ± 0.15 Nm |

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Connection diagram



Δ	Delta connection
Y	Star connection
L1	= V1 = black
L2	= U1 = blue
L3	= W1 = red
U2	green
V2	yellow
W2	white
TOP	Thermal overload protector

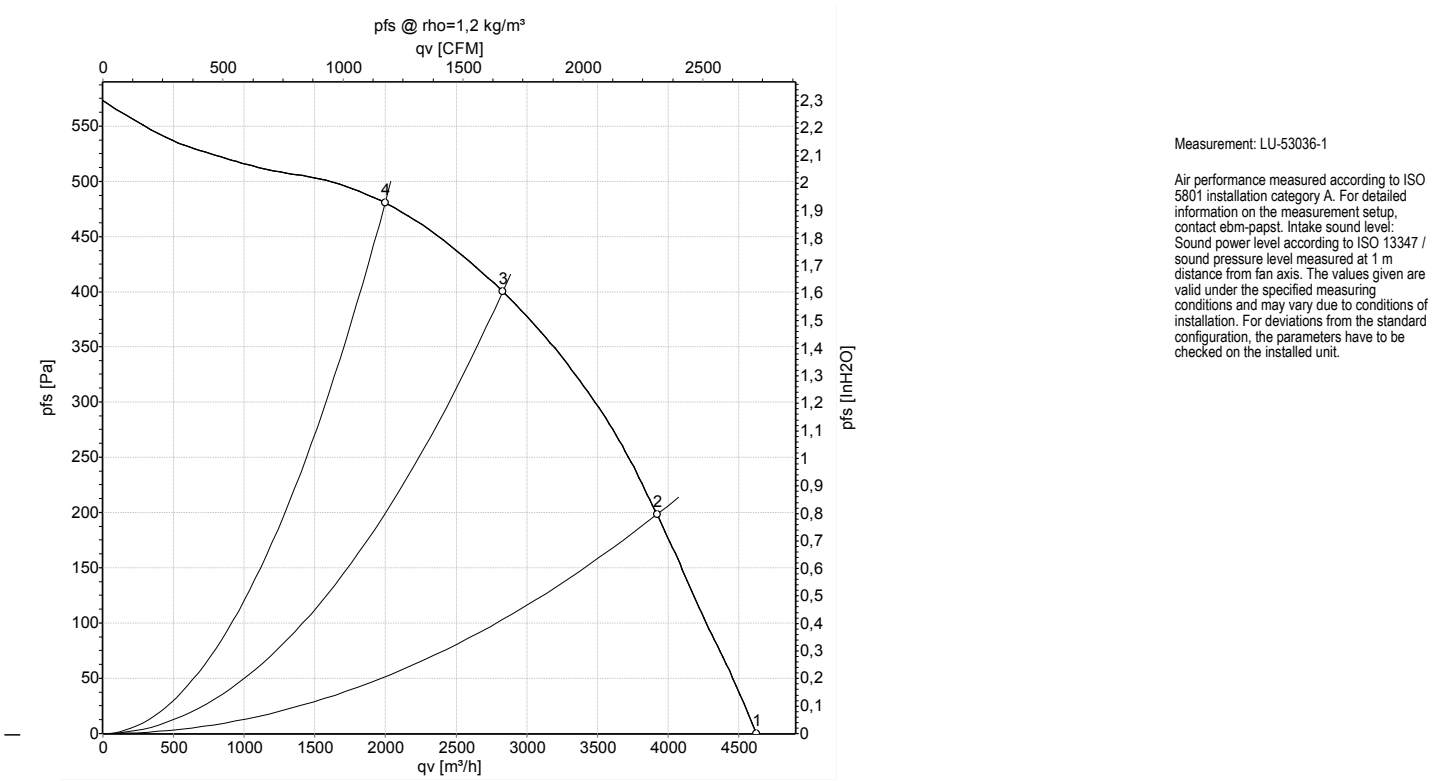


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Curves: Air performance 50 Hz



Measured values

	Wired	U	f	n	P _e	I	q _v	P _{fs}	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	inH2O
1	Y	400	50	1425	435	1.15	4625	0	2720	0.00
2	Y	400	50	1390	591	1.30	3920	200	2310	0.80
3	Y	400	50	1375	650	1.42	2830	400	1665	1.61
4	Y	400	50	1390	591	1.29	1995	480	1175	1.93

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

