

KARTA KATALOGOWA

R4D355-RB10-01

Wentylator promieniowy AC RadiCal, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst



Zdjęcie poglądowe

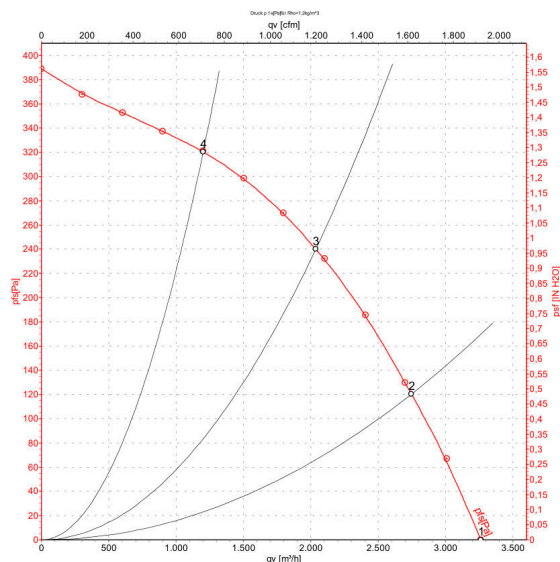
Dane znamionowe	
Napięcie znamionowe	3~ 230 V Δ / 400 V Y
Częstotliwość	50/60 Hz
Prędkość obrotowa	1390 / 1550 obr/min
Pobór mocy	270 / 400 W
Pobór prądu	1,25 / 1,35 A (Δ) · 0,72 / 0,78 A (Y)
Maks. wydajność	3260 m³/h
Maks. ciśnienie statyczne	320 Pa
Temperatura otoczenia	-25...+60 °C (60 Hz: +40 °C)

Dane ErP (UE 327/2011)	
Sprawność całkowita	47,9 %
Przepływ w pkt. optymalnym	2105 m³/h
Przyrost ciśnienia	223 Pa
Regulacja obrotów	nie

Budowa	
Średnica wirnika	355 mm
Materiał wirnika	tworzywo PP
Liczba łopatek	6
Stopień ochrony	IP44
Klasa izolacji	F
Zabezpieczenie silnika	termik (TOP) wyprowadzony
Masa	5,6 kg

Charakterystyka przepływowa

Charts: Air flow 50 Hz Y



Measurement: LU-139188

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Dane na podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).
Wartości dla 50 Hz / 60 Hz; 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

R4D355-RB10-01

AC centrifugal fan - RadiCal®

backward curved



Nominal data

Type	R4D355-RB10-01				
Motor	M4D074-GA				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	230	230	400	400
Connection		Δ	Δ	Y	Y
Frequency	Hz	50	60	50	60
Type of data definition		ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE
Speed	min ⁻¹	1390	1550	1390	1550
Power input	W	270	400	270	400
Current draw	A	1.25	1.35	0.72	0.78
Min. back pressure	Pa	0	0	0	0
Min. ambient temperature	°C	-25	-25	-25	-25
Max. ambient temperature	°C	60	40	60	40
Starting current	A	3.6	3.5	2.07	2.0

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

* Specific ratio = 1 + p_{fs} / 100 000 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η _{es}		47.9	41.5	45.5
Efficiency grade N		64.4	58	62
Power input P _e	kW	0.27		
Air flow q _v	m ³ /h	2105		
Pressure increase p _{fs}	Pa	223		
Speed n	min ⁻¹	1390		

Data definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



R4D355-RB10-01

AC centrifugal fan - RadiCal®

backward curved

Technical features

Mass	5.6 kg
Size	355 mm
Material of impeller	PP plastic
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity class	F1-2
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CCC

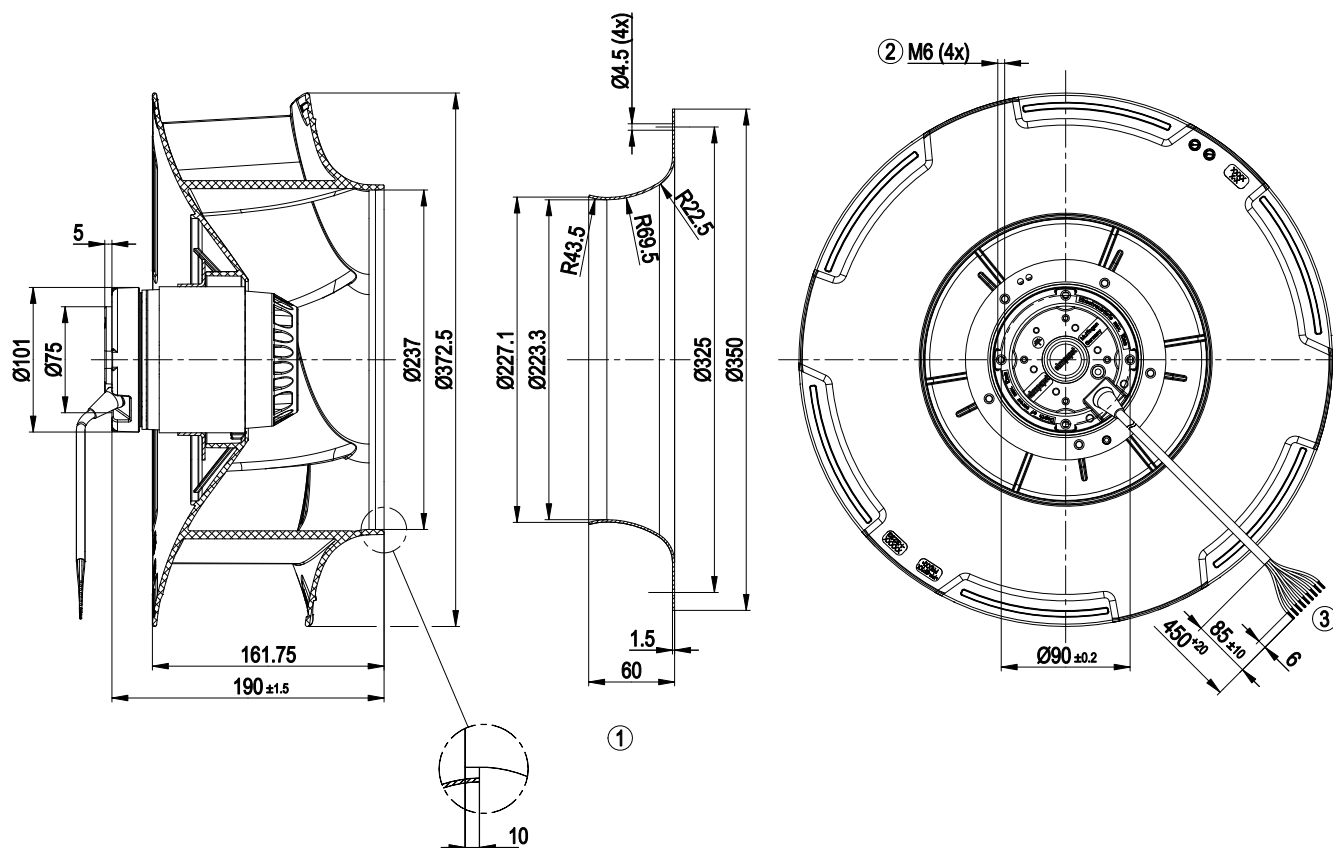


R4D355-RB10-01

AC centrifugal fan - RadiCal®

backward curved

Product drawing



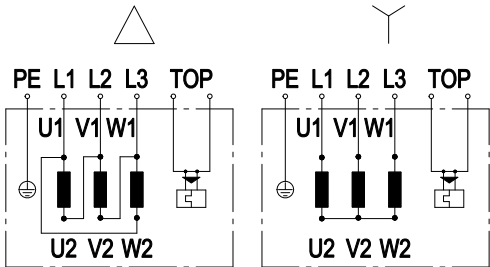
- | | |
|---|---|
| 1 | Accessory part: Inlet nozzle 35500-2-4013, not included in the standard scope of delivery |
| 2 | Depth of screw max. 10 mm |
| 3 | Connection line silicone 9G 0.5 mm², 9x brass lead tips crimped |

R4D355-RB10-01

AC centrifugal fan - RadiCal®

backward curved

Connection screen



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	2xgrey
PE	green/yellow				

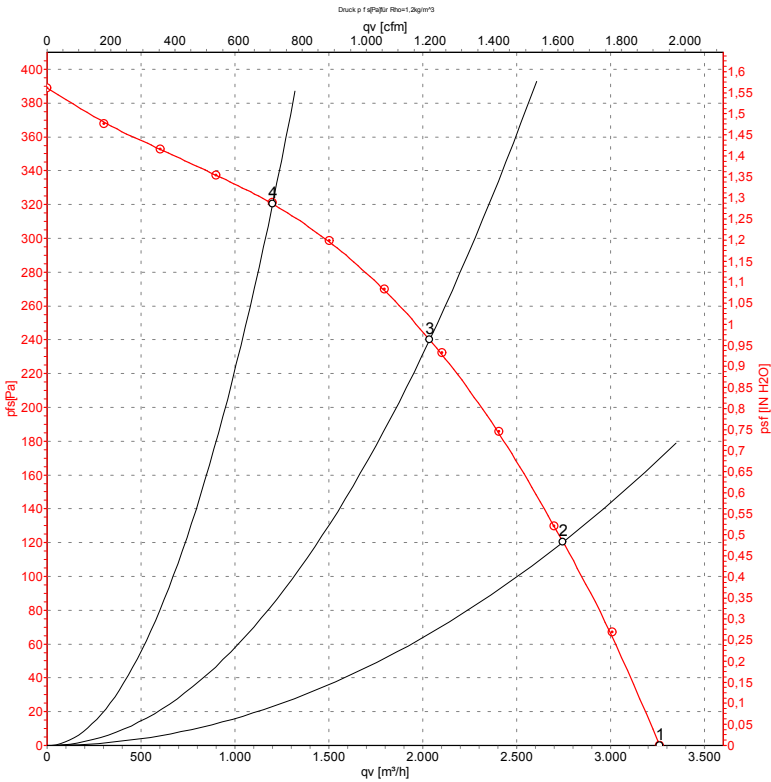


R4D355-RB10-01

AC centrifugal fan - RadiCal®

backward curved

Charts: Air flow 50 Hz Y



Measurement: LU-139188

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	Conn.	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa
1	Y	400	50	1425	206	0.67	64	72	3260	0
2	Y	400	50	1405	243	0.69	60	67	2745	120
3	Y	400	50	1390	270	0.72	55	62	2035	240
4	Y	400	50	1400	251	0.69	57	65	1200	320

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side
qv = Air flow · p_{fs} = Pressure increase

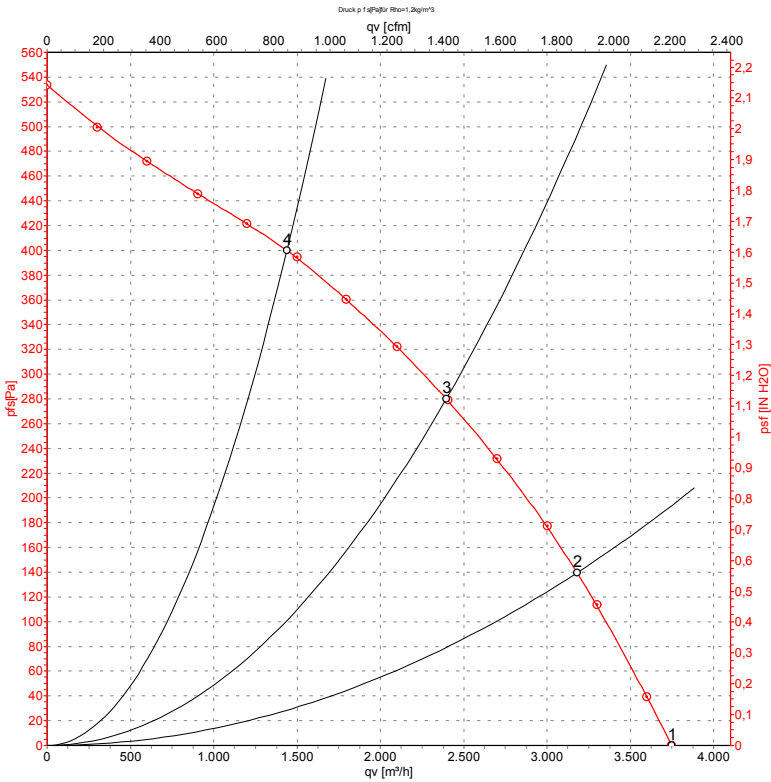


R4D355-RB10-01

AC centrifugal fan - RadiCal®

backward curved

Charts: Air flow 60 Hz Y



Measurement: LU-139189

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	Conn.	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	p _{ts}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa
1	Y	400	60	1635	295	0.64	68	75	3750	0
2	Y	400	60	1590	353	0.71	63	70	3180	140
3	Y	400	60	1550	400	0.78	58	66	2395	280
4	Y	400	60	1570	371	0.74	60	68	1440	400

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side
qv = Air flow · p_{ts} = Pressure increase

