

KARTA KATALOGOWA

R2D280-RB06-01

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

Producent: ebm-papst



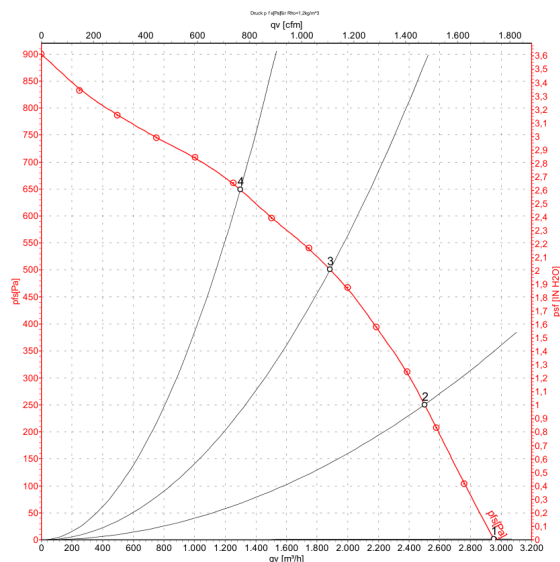
Zdjęcie poglądowe

Dane znamionowe		Budowa	
Napięcie znamionowe	3~ 230 V Δ / 400 V Y	Średnica wirnika	280 mm
Częstotliwość	50 Hz	Materiał wirnika	tworzywo PP
Prędkość obrotowa	2500 obr/min	Liczba łopatek	6
Pobór mocy	570 W	Stopień ochrony	IP44
Pobór prądu	1,58 / 0,91 A	Klasa izolacji	F
Maks. wydajność	2950 m³/h	Zabezpieczenie silnika	termik (TOP) wyprowadzony
Maks. ciśnienie statyczne	650 Pa	Masa	5,4 kg
Temperatura otoczenia	-25...+50 °C		

Dane ErP (UE 327/2011)	
Sprawność całkowita	45,2 %
Przepływ w pkt. optymalnym	1750 m³/h
Przyrost ciśnienia	523 Pa
Regulacja obrotów	nie

Charakterystyka przepływowa

Charts: Air flow 50 Hz



Measurement: LU-137192

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).

Dwie wartości odpowiadają połączeniu Δ / Y (kolumny karty producenta); producent zastrzega możliwość zmian.

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AC centrifugal fan - RadiCal®

backward curved, single inlet

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Nominal data

Type	R2D280-RB06-01		
Motor	M2D074-GA		
Phase		3~	3~
Nominal voltage	VAC	230	400
Connection		Δ	Y
Frequency	Hz	50	50
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min ⁻¹	2500	2500
Power input	W	570	570
Current draw	A	1.58	0.91
Min. back pressure	Pa	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	50
Starting current	A	4.36	2.52

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*	1.01

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	45.2	44.9	48.9
Efficiency grade N	58.3	58	62
Power input P_e	kW	0.56	
Air flow q_v	m ³ /h	1750	
Pressure increase p_{fs}	Pa	523	
Speed n	min ⁻¹	2505	

Data established at point of optimum efficiency



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Technical features

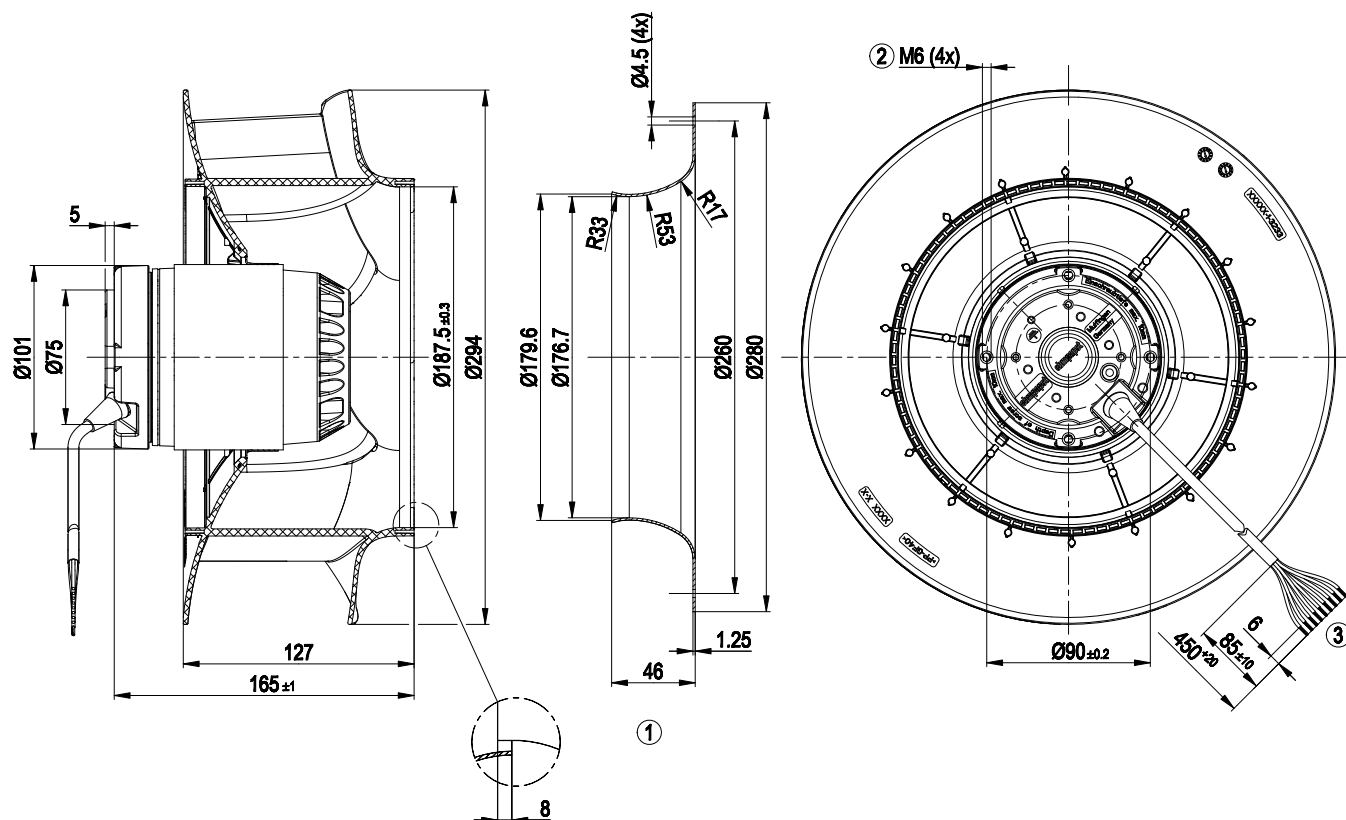
Mass	5.4 kg
Size	280 mm
Surface of rotor	Coated in black
Material of impeller	PP plastic
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity class	F1-2
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
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

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Product drawing



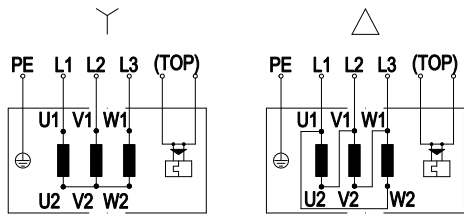
- | | |
|---|---|
| 1 | Accessory part: Inlet nozzle 28000-2-4013, not included in the standard scope of delivery |
| 2 | Depth of screw max. 10mm |
| 3 | Connection line PFA 9G 0.5mm ² , 9x brass lead tips crimped |

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Connection screen



Y	Star connection	Δ	Delta connection	L1	= U1 = black
U2	green	L2	= V1 = blue	V2	white
L3	= W1 = brown	W2	yellow	TOP	2 x grey
PE	green/yellow				

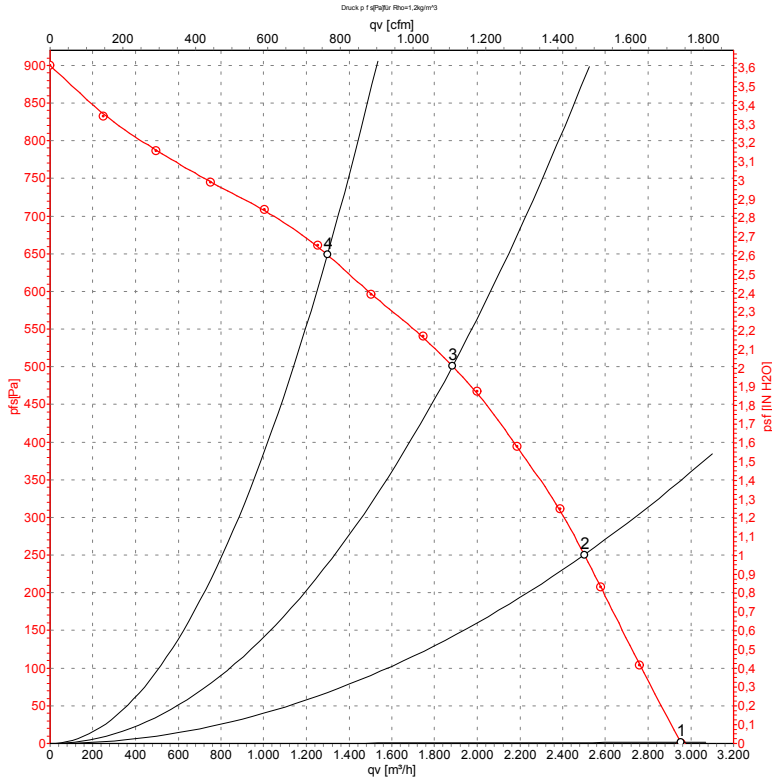


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Measured values

	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	50	2640	440	0.73	76	84	2950	0
2	Y	400	50	2555	520	0.84	71	79	2500	250
3	Y	400	50	2500	570	0.91	66	73	1885	500
4	Y	400	50	2540	528	0.84	66	74	1300	650

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

