R2D225-RA26-01

AC centrifugal fan - RadiCal®

backward curved

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**R2D225-RA26-01**
Motor	**M2D068-DF**

Phase		3~	3~
Nominal voltage	VAC	400	480
Connection		Y	Y
Frequency	Hz	50	60
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min^{-1}	2530	2900
Power input	W	150	235
Current draw	A	0.27	0.33
Min. back pressure	Pa	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	80	55
Starting current	A	0.74	0.83

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}		43.6	38.5	42.5
Efficiency grade N		63.1	58	62
Power input P_e	kW	0.14		
Air flow q_v	m^3/h	705		
Pressure increase p_{fs}	Pa	318		
Speed n	min^{-1}	2555		

Data established at point of optimum efficiency

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Technical features

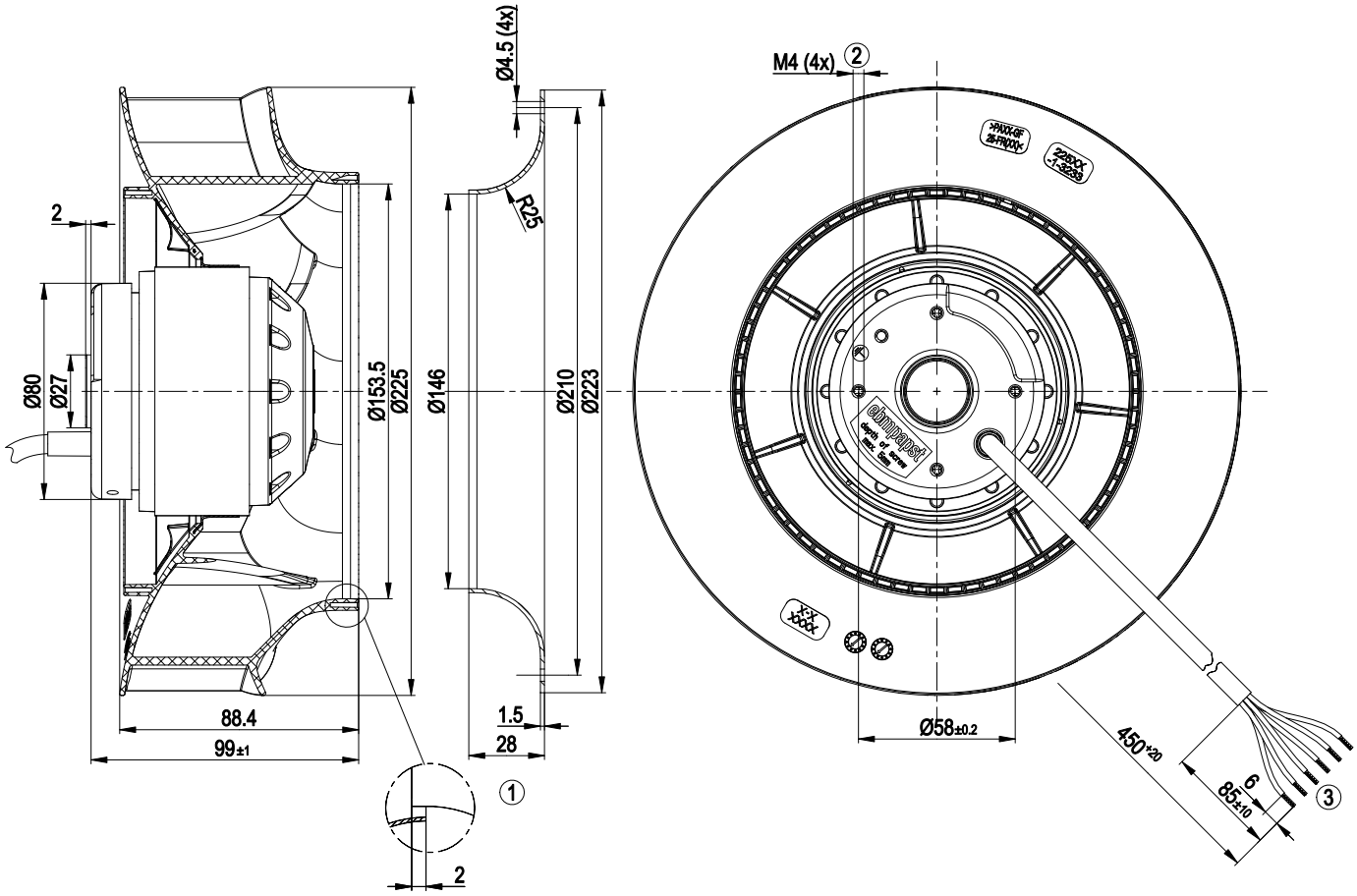
Mass	2.1 kg
Size	225 mm
Material of impeller	PA plastic
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"F"
Humidity class	F1-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
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	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

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Product drawing



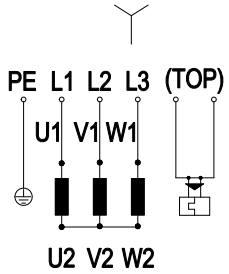
1	Accessory part: Inlet nozzle 96358-2-4013, not included in the standard scope of delivery
2	Depth of screw max. 5 mm
3	Connection line silicone 6G 0.5 mm², 6 x brass lead tips crimped

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Connection screen



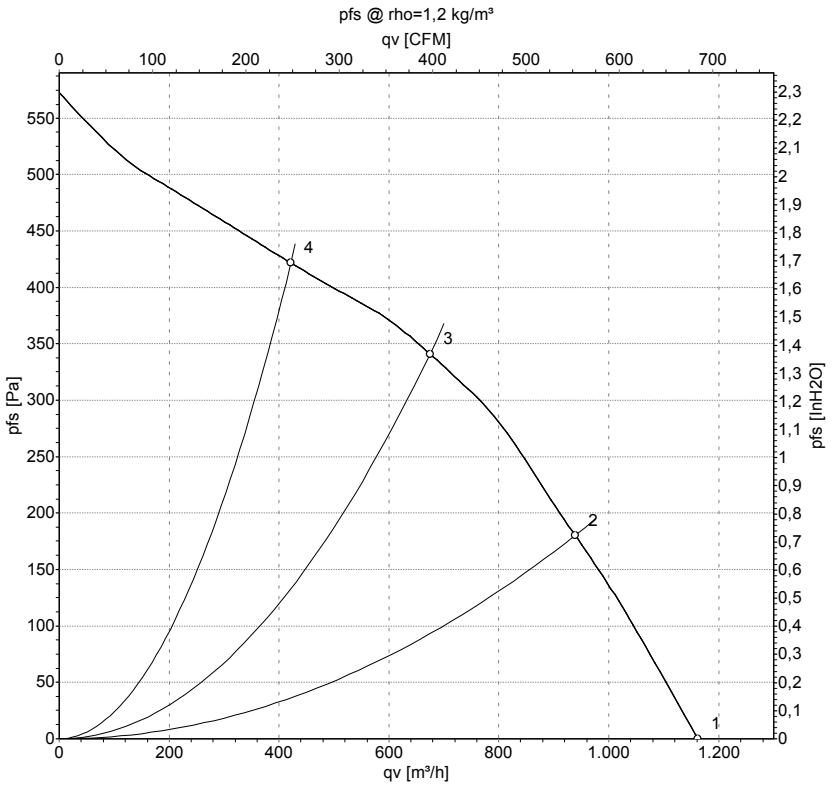
L1	= U1 = black	L2	= V1 = blue	L3	= W1 = brown
PE	green/yellow	TOP	2 x grey	Y	Star connection

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Charts: Air flow 50 Hz



Measurement: LU-140430

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

	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	400	50	2645	122	0.24	66	74	1160	0
2	400	50	2530	150	0.27	61	69	940	180
3	400	50	2555	141	0.26	57	65	675	340
4	400	50	2600	128	0.24	62	70	420	420

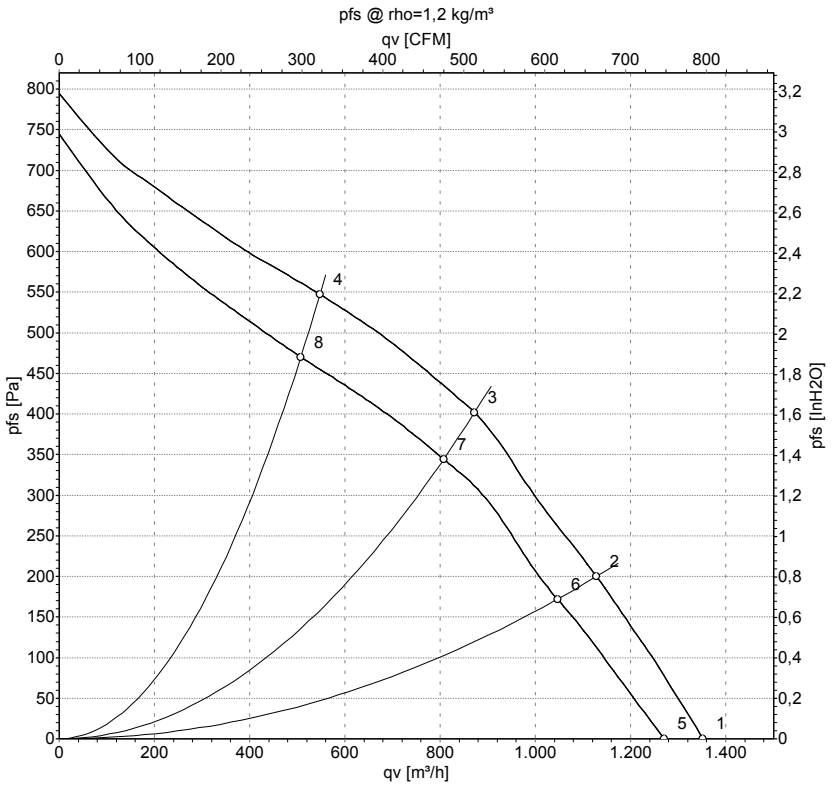
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · qv = Air flow
p_{fs} = Pressure increase

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Charts: Air flow 60 Hz



Measurement: LU-140437
Measurement: LU-140433

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

	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	480	60	3065	192	0.28	70	78	1350	0
2	480	60	2940	225	0.32	66	74	1130	200
3	480	60	2900	235	0.33	61	69	870	400
4	480	60	3000	209	0.30	64	73	545	550
5	400	60	2880	171	0.28	76	69	1270	0
6	400	60	2725	197	0.32	72	65	1045	172
7	400	60	2700	200	0.33	68	60	805	345
8	400	60	2775	186	0.30	74	64	505	470

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
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