

R4D355-RB10-10 ebmpapst Datasheet
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Nominal data

Type	R4D355-RB10-10		
Motor	M4D074-GA		
Phase		3~	3~
Nominal voltage	VAC	400	400
Connection		Y	Y
Frequency	Hz	50	60
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed (rpm)	min ⁻¹	1390	1550
Power input	W	270	400
Current draw	A	0.72	0.78
Min. back pressure	Pa	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	40
Starting current	A	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 in accordance with ecodesign regulation EU 327/2011

		Actual	Request 2015
01 Overall efficiency η_{es}	%	47.9	45.5
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		64.4	62
05 Variable speed drive		No	

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

09 Power input P_e	kW	0.27
09 Air flow q_v	m ³ /h	2105
09 Pressure increase p_{fs}	Pa	223
10 Speed (rpm) n	min ⁻¹	1390
11 Specific ratio*		1.00

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

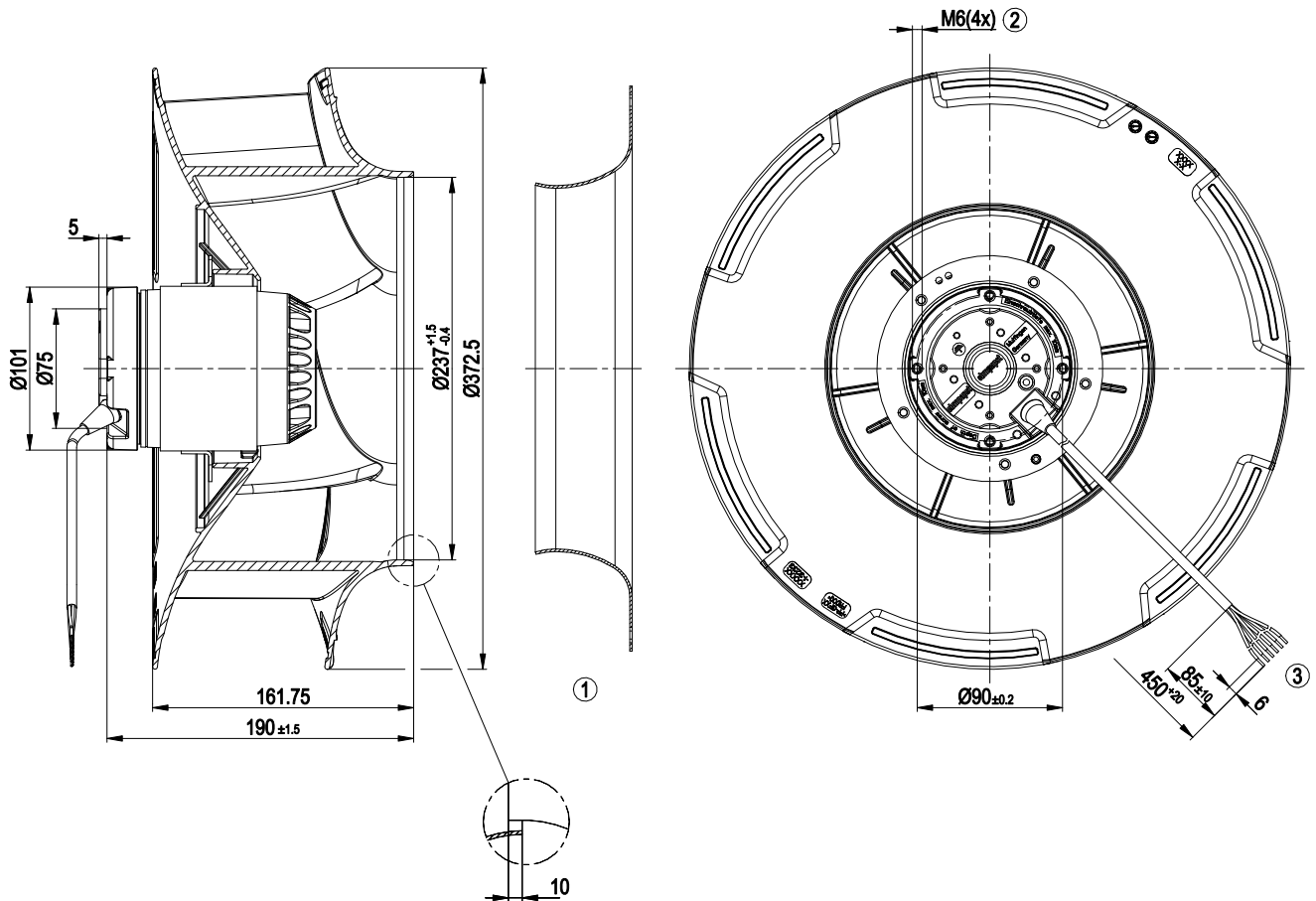
LU-139188



Technical features

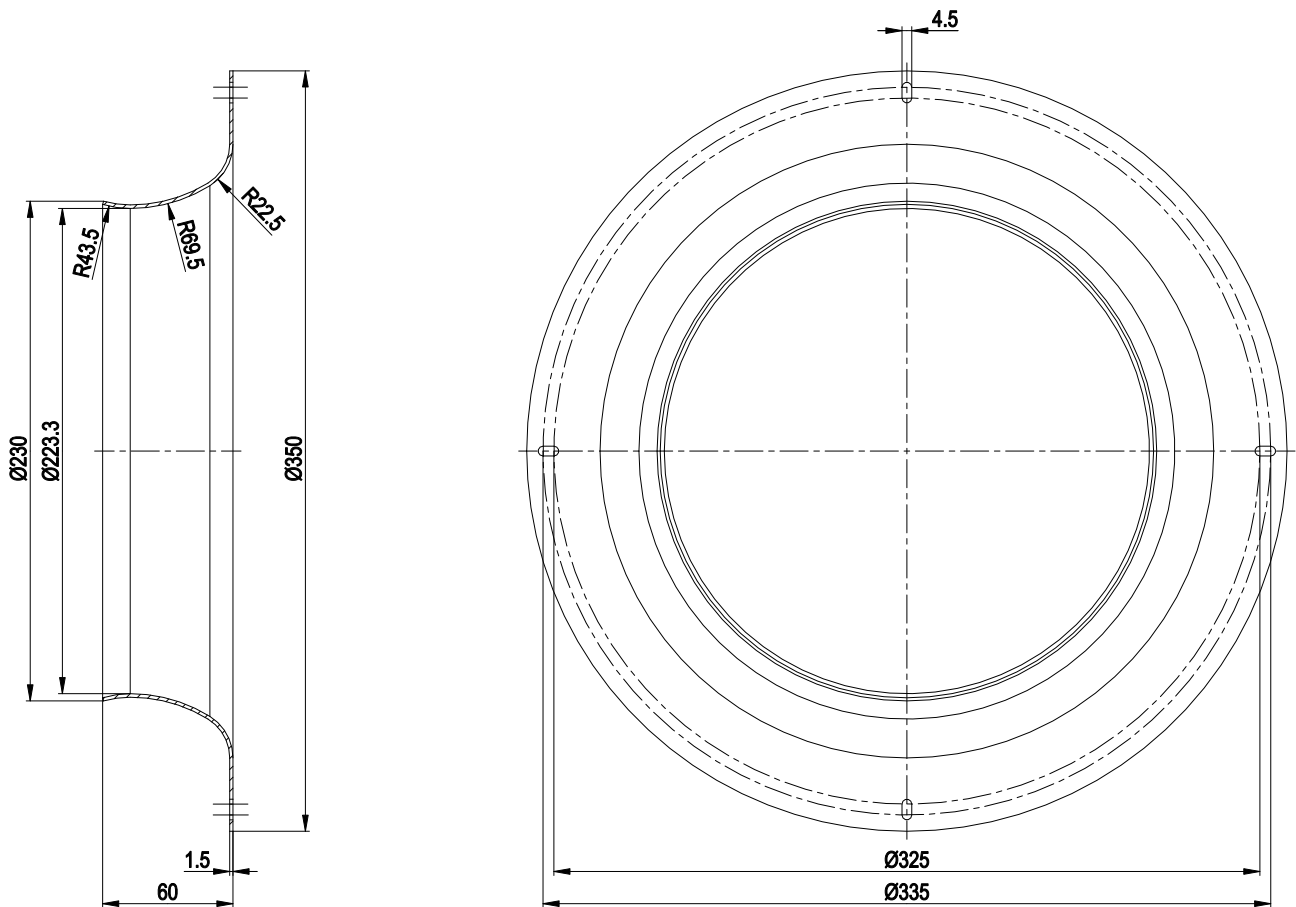
Mass	5.5 kg
Size	355 mm
Motor size	74
Surface of rotor	Coated in black
Material of impeller	PP plastic
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity (F) / environmental protection class (H)	H1+; F2-2
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
Condensation drainage 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, basic insulation
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

Product drawing



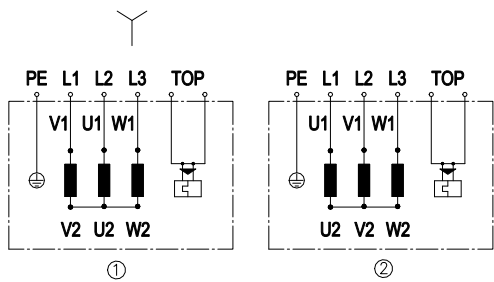
- | | |
|---|---|
| 1 | Accessory part: Inlet nozzle 35500-2-4013 not included in scope of delivery |
| 2 | Thread reach max. 10 mm |
| 3 | Connection line silicone 6G 0.5 mm ² , 6x lead tips crimped |

Accessory part



Inlet nozzle 35500-2-4013 not included in scope of delivery

Connection screen



Change in direction of rotation by reversing two phases

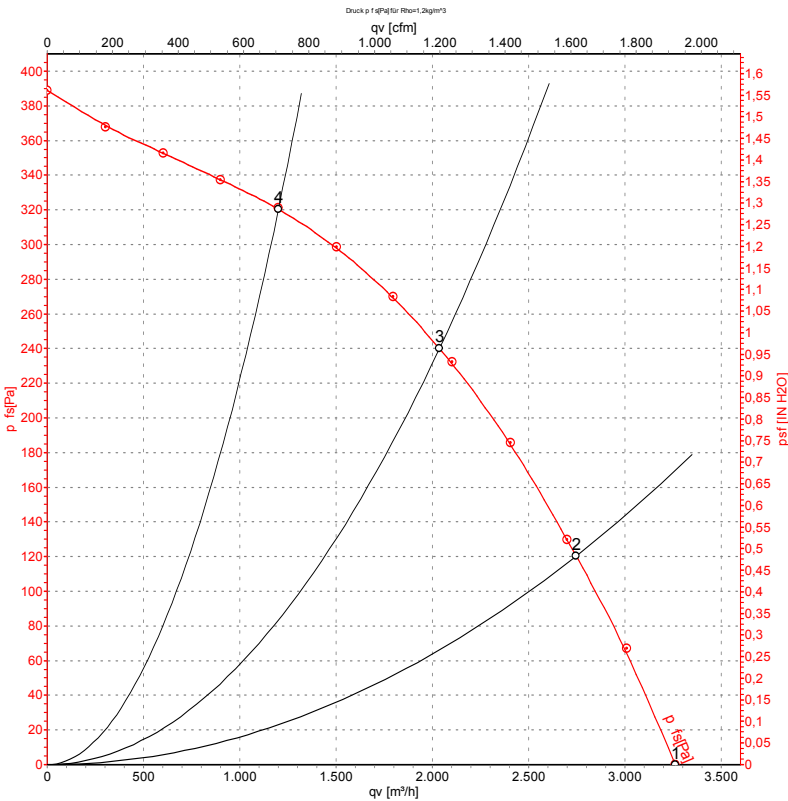
	Three-phase motor
Y	Star connection
1	Anti-clockwise operation
L1	= V1 = blue
L2	= U1 = black
L3	= W1 = brown
2	Clockwise operation
L1	= U1 = black
L2	= V1 = blue
L3	= W1 = brown
PE	green / yellow
TOP	2x grey



AC centrifugal fan - RadiCal

backward curved

Charts: Air flow 50 Hz Y



Measurement: LU-139188-1

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: L_{wA} measured as per ISO 13347 /
L_{pA} 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.

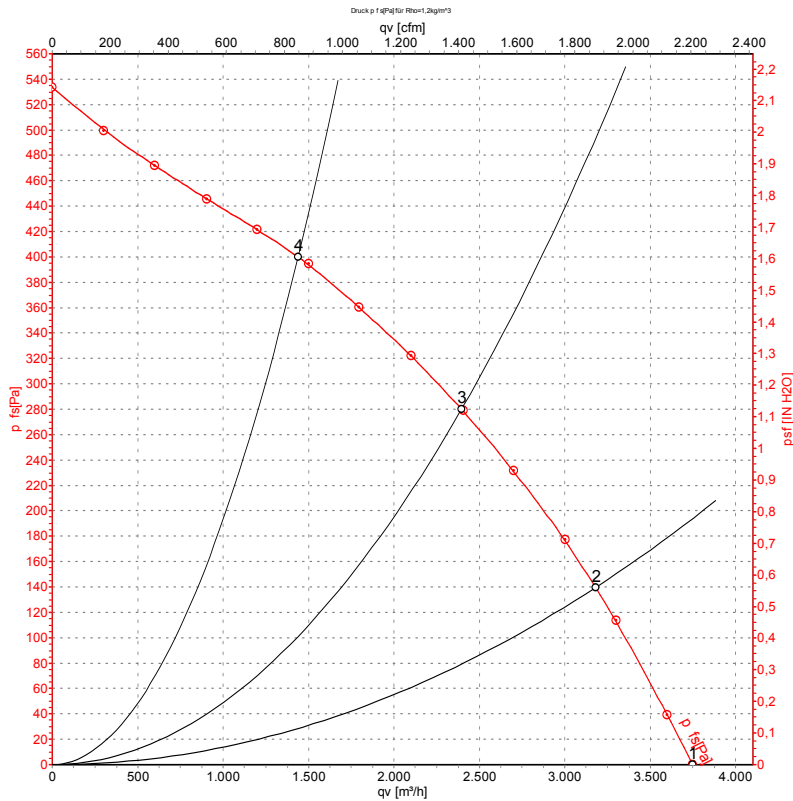
Measured values

	Conn.	U	f	n	P _e	I	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	Y	400	50	1425	206	0.67	64	72	3260	0	1920	0.00
2	Y	400	50	1405	243	0.69	60	67	2745	120	1615	0.48
3	Y	400	50	1390	270	0.72	55	62	2035	240	1200	0.96
4	Y	400	50	1400	251	0.69	57	65	1200	320	705	1.28

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



Charts: Air flow 60 Hz Y



Measurement: LU-139189-1

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: L_{wA} measured as per ISO 13347 /
L_{pA} 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}	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	Y	400	60	1635	295	0.64	68	75	3750	0	2205	0.00
2	Y	400	60	1590	353	0.71	63	70	3180	140	1870	0.56
3	Y	400	60	1550	400	0.78	58	66	2395	280	1410	1.12
4	Y	400	60	1570	371	0.74	60	68	1440	400	845	1.61

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

