R2E225-AX96-31

AC centrifugal fan

backward curved

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Nominal data

Type	**R2E225-AX96-31**
Motor	**M2E068-DF**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		CE
Speed (rpm)	min^{-1}	2700
Power input	W	115
Current draw	A	0.51
Motor capacitor	µF	3
Capacitor voltage	VDB	400
Capacitor standard		S2 (CE)
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	30
Starting current	A	1.3

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

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Technical features

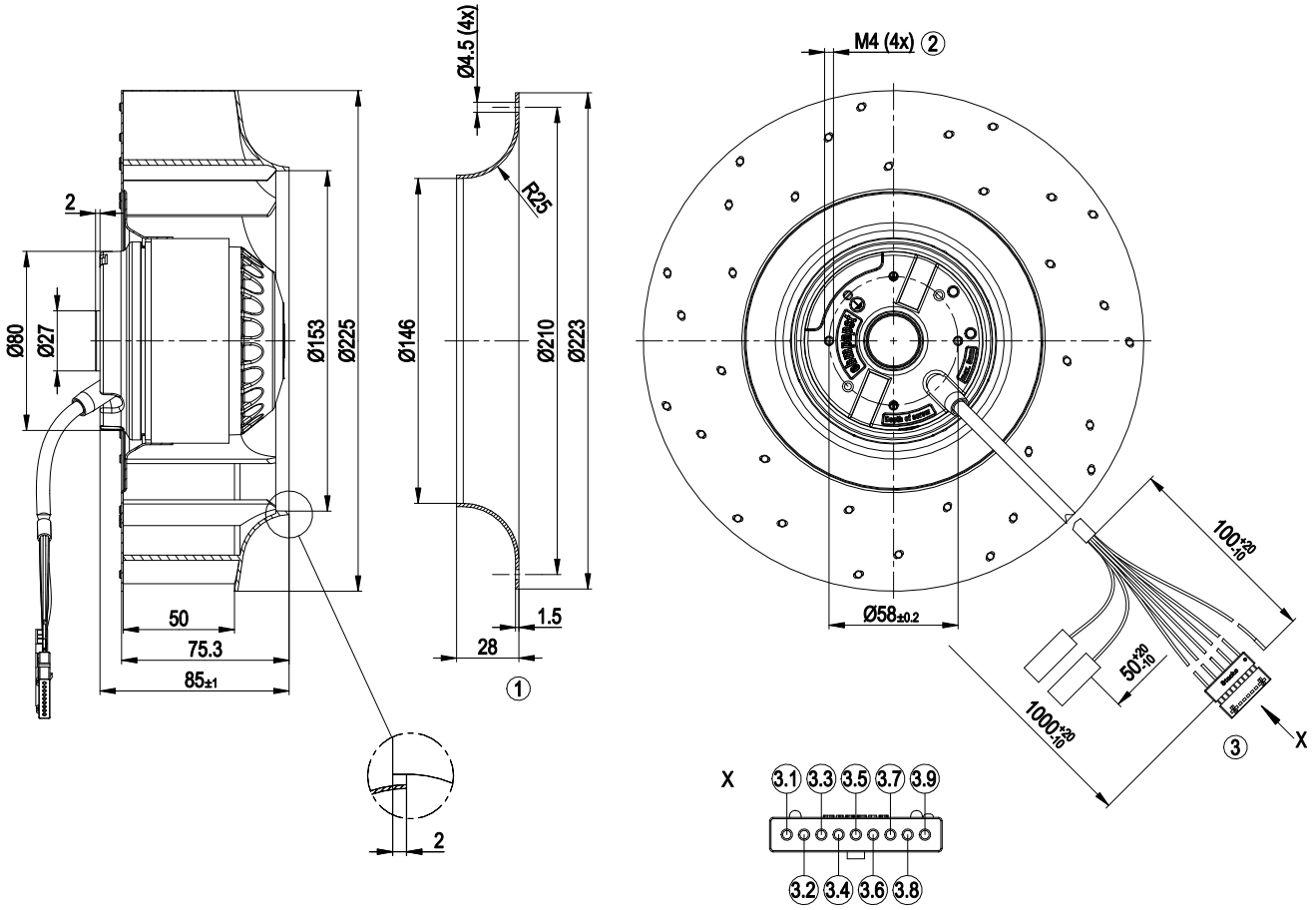
Mass	2.4 kg
Size	225 mm
Surface of rotor	Coated in black
Material of impeller	PA plastic
Number of blades	11
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity (F)/environmental protection class (H)	H0+
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Rotor on bottom
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Speed steps	4
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) wired internally
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



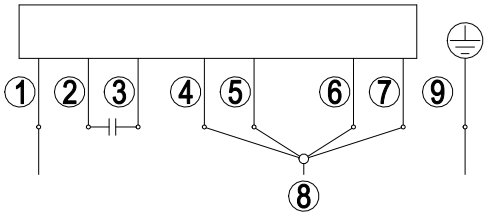
1	Accessory part: Inlet nozzle 96358-2-4013, not included in scope of delivery
2	Thread reach max. 5 mm
3	Connection line halogen and silicone-free 8x 0.5 mm², 1x 9-pole connector housing Stocko MKH 5139-1-0-900 S 38, 5x receptacle Stocko MKH RFB 7808 V 0.6-0.5, 2x threaded pin 6.3x0.8, crimped, 2x receptacle housing tyco 1-735075-0, 1x crimped lead tip
3.1	blue
3.2	not used
3.3	black
3.4	not used
3.5	grey
3.6	not used
3.7	red
3.8	not used
3.9	white

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Connection screen



Note: fast speed (step IV); slow speed (step I); the switch must interrupt the circuit during the changeover.

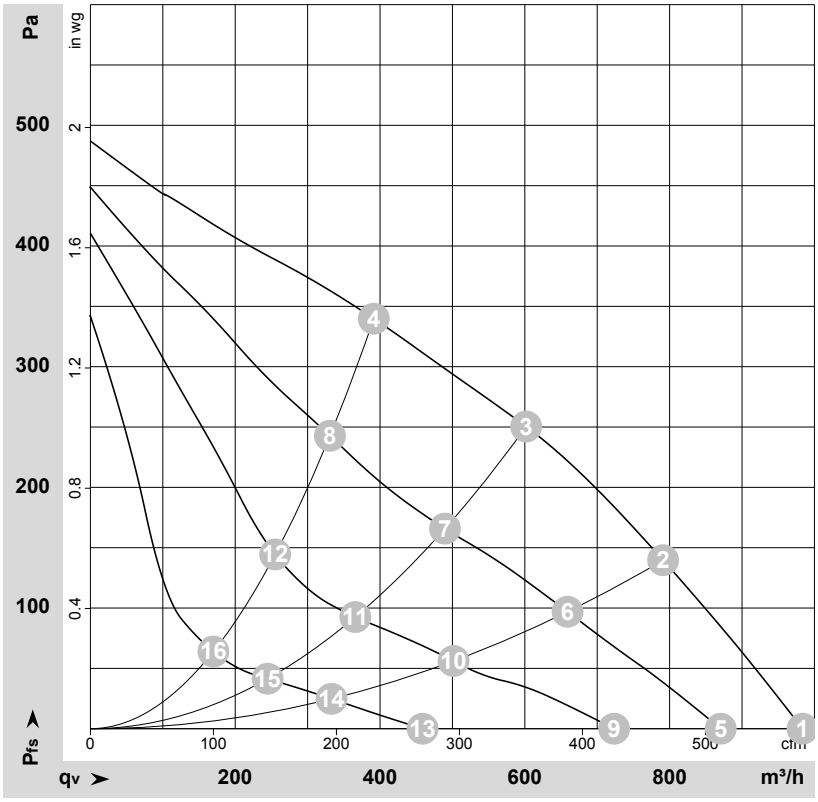
1	N (blue)
2	brown
3	yellow
4	Step I black 1 / white
5	Step II black 2 / red
6	Step III black 3 / grey
7	Step IV black 4 / black
8	L1
9	= PE = green / yellow

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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-123905-1
Measurement: LU-123906-1
Measurement: LU-123907-1
Measurement: LU-123908-1

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: 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

	Stage	U	f	n	P_e	I	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	4	230	50	2700	115	0.51	985	0	580	0.00
2	4	230	50	2565	130	0.57	790	140	465	0.56
3	4	230	50	2535	134	0.59	600	250	355	1.00
4	4	230	50	2585	126	0.55	390	340	230	1.36
5	3	230	50	2340	108	0.47	870	0	515	0.00
6	3	230	50	2140	124	0.54	660	97	390	0.39
7	3	230	50	2075	128	0.55	490	165	290	0.66
8	3	230	50	2200	119	0.52	330	243	195	0.98
9	2	230	50	1940	108	0.47	725	0	425	0.00
10	2	230	50	1645	119	0.52	500	56	295	0.22
11	2	230	50	1555	120	0.52	365	92	215	0.37
12	2	230	50	1695	115	0.50	255	144	150	0.58
13	1	230	50	1240	101	0.44	460	0	270	0.00
14	1	230	50	1080	103	0.45	335	25	195	0.10
15	1	230	50	1035	102	0.45	245	41	145	0.16
16	1	230	50	1120	101	0.44	170	64	100	0.26

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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