R2E140-AS77-37-C01

AC centrifugal fan

forward-curved, single-intake

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Nominal data

Type	**R2E140-AS77-37-C01**		
Motor	**M2E068-BF**		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Speed (rpm)	min^{-1}	1500	1400
Power consumption	W	100	110
Current draw	A	0.45	0.48
Capacitor	µF	2	2
Capacitor voltage	VDB	450	450
Capacitor standard		S0 (CE)	S0 (CE)
Min. back pressure	Pa	0	0
Min. back pressure	in. wg	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	40	30

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

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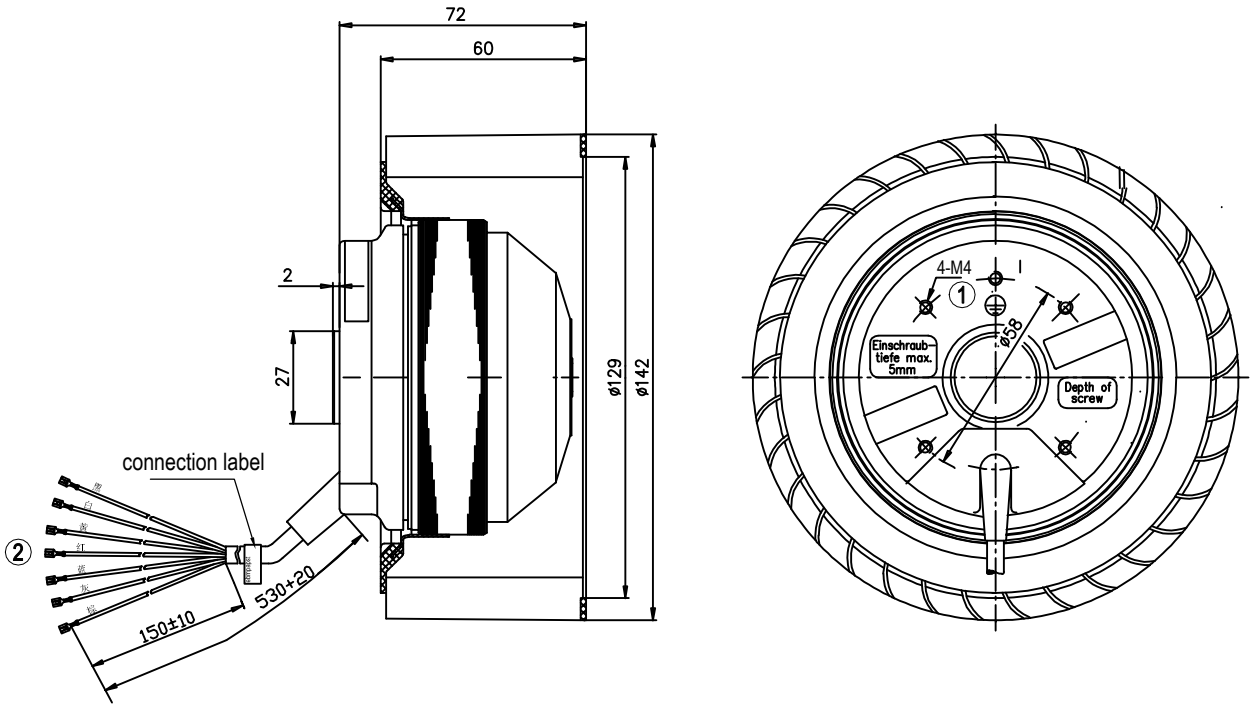
Technical description

Weight	1.2 kg
Fan size	140 mm
Impeller material	PP plastic
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Temperature limiter manual reset
With cable	Variable
Protection class	I (with customer connection of protective earth)
Approval	CCC

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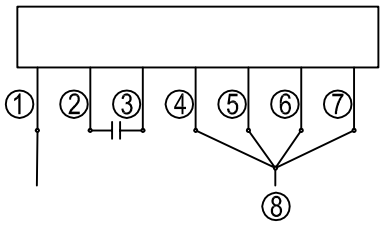
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Product drawing



1	Max. clearance for screw 5 mm
2	Cable PVC 7G AWG20, connector 6.3x0.8 auto-lock

Connection diagram



Note: High speed (step IV); low speed (step I); the switch must interrupt the circuit when switching.

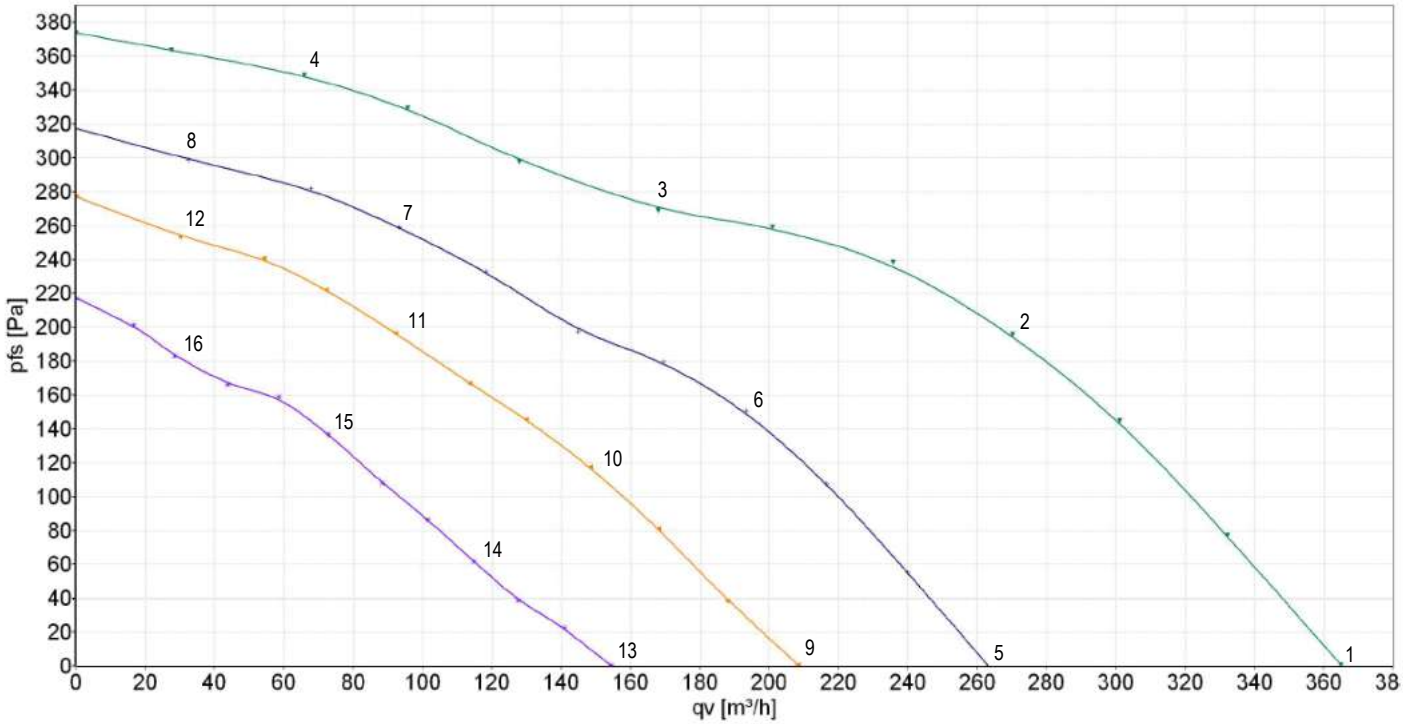
1	= N = blue
2	brown
3	yellow
4	Step I gray
5	Step II black
6	Step III white
7	Step IV red
8	L1

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Curves: Air performance 50 Hz 220V



Measured values

	Stage	U	f	n	P_e	I	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	4	220	50	1486	91	0.42	365	0
2	4	220	50	1980	81	0.37	270	196
3	4	220	50	2347	70	0.33	168	270
4	4	220	50	2540	64	0.31	66	350
5	3	220	50	1089	66	0.31	263	0
6	3	220	50	1706	59	0.28	193	151
7	3	220	50	2236	49	0.24	93	260
8	3	220	50	2343	47	0.22	32	299
9	2	220	50	868	56	0.27	208	0
10	2	220	50	1519	50	0.25	148	118
11	2	220	50	2056	43	0.22	72	222
12	2	220	50	2151	41	0.21	30	253
13	1	220	50	642	46	0.23	100	0
14	1	220	50	1095	46	0.23	85	62
15	1	220	50	1648	40	0.21	70	137
16	1	220	50	1845	38	0.20	50	183

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

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