R2E140-BO10-22-C01

AC centrifugal fan

forward-curved, single-intake

ebm-papst ventilator (Shanghai)Co.,Ltd.
No.418, Hua jing Road, Wai Gao qiao Free Trade Zone, Pudong
Tel: +86(0)21-50460183
www.ebmpapst.com

Nominal data

Type	R2E140-BO10-22-C01	
Motor	**M2E068-CA**	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		fa
Speed (rpm)	min^{-1}	1850
Power consumption	W	140
Current draw	A	0.63
Capacitor	µF	2
Capacitor voltage	VDB	450
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	45

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

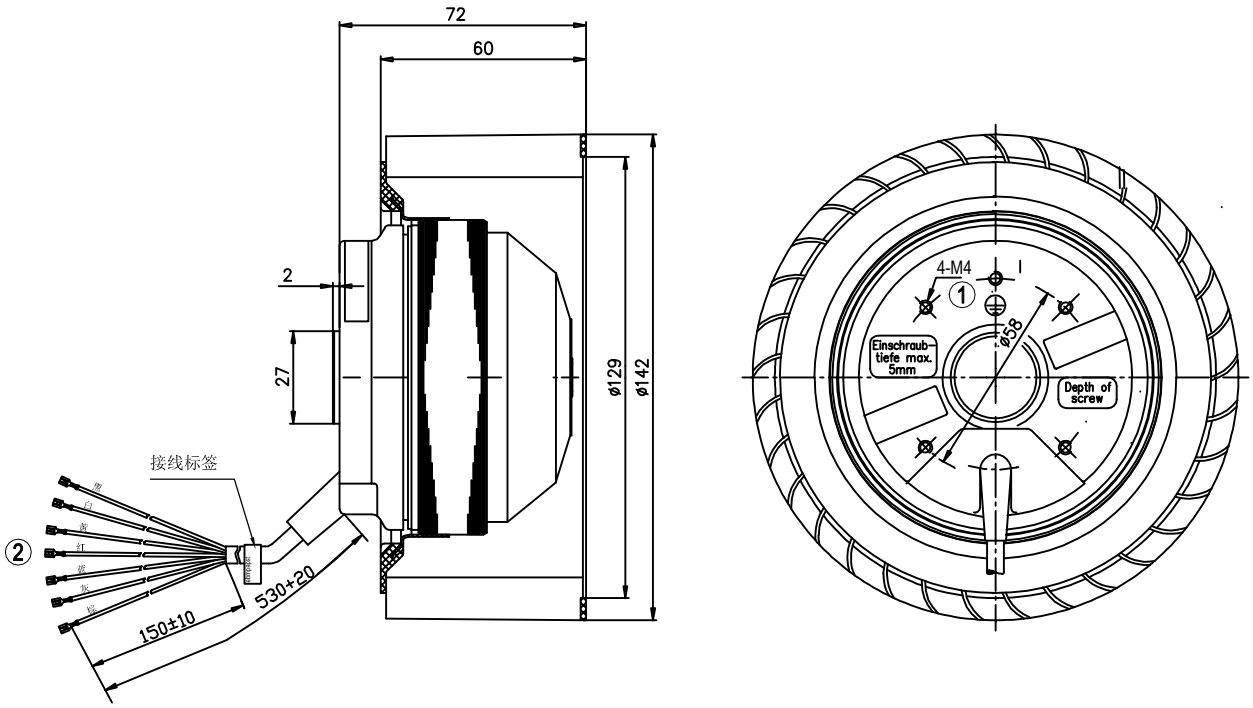
Technical description

Weight	1.4 kg
Fan size	140 mm
Impeller material	plastic
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F1-1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	any
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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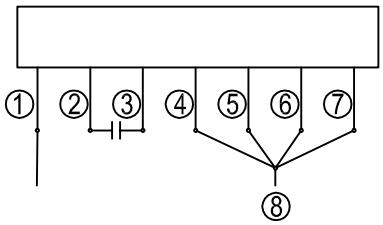
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Product drawing



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.

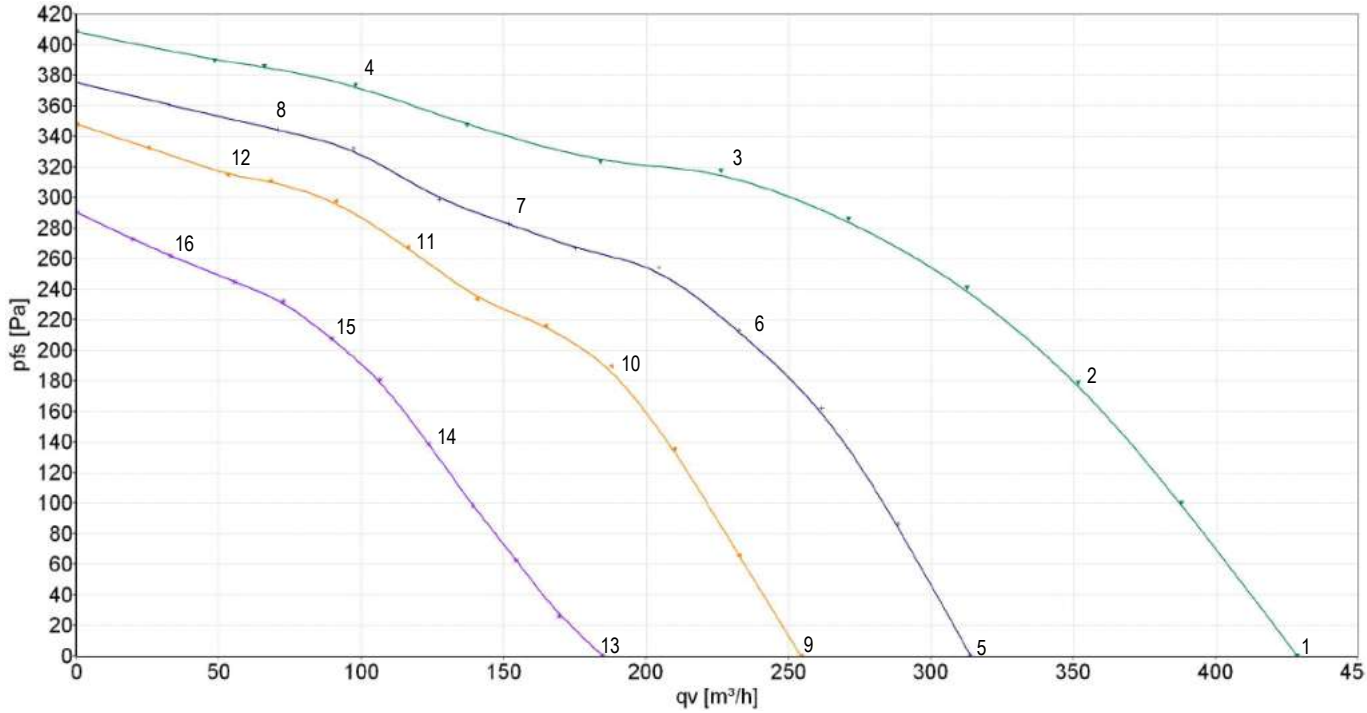
1	= N = blue
2	brown
3	yellow
4	Step I gray
5	Step II black
6	Step III white
7	Step IV red
8	L1

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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	1860	119	0.55	429	0
2	4	220	50	2165	104	0.48	352	179
3	4	220	50	2492	85	0.40	226	318
4	4	220	50	2690	71	0.36	98	373
5	3	220	50	1327	89	0.41	314	0
6	3	220	50	2065	72	0.34	233	213
7	3	220	50	2432	59	0.28	152	282
8	3	220	50	2568	53	0.25	71	344
9	2	220	50	1116	76	0.35	254	0
10	2	220	50	1932	63	0.30	188	190
11	2	220	50	2333	50	0.25	116	267
12	2	220	50	2455	46	0.23	53	315
13	1	220	50	812	61	0.29	184	0
14	1	220	50	1708	52	0.25	124	138
15	1	220	50	2046	46	0.22	90	208
16	1	220	50	2231	41	0.21	33	262

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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