

D2E146-FW37-09

AC centrifugal fan

forward curved, dual inlet

with housing (flange)



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Nominal data

Type	D2E146-FW37-09	
Motor	M2E068-DF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		-
Speed	min ⁻¹	1350
Power input	W	235
Current draw	A	1.05
Motor capacitor	µF	6
Capacitor voltage	VDB	400
Capacitor standard		P2 (CE)
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50
Starting current	A	1.2

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

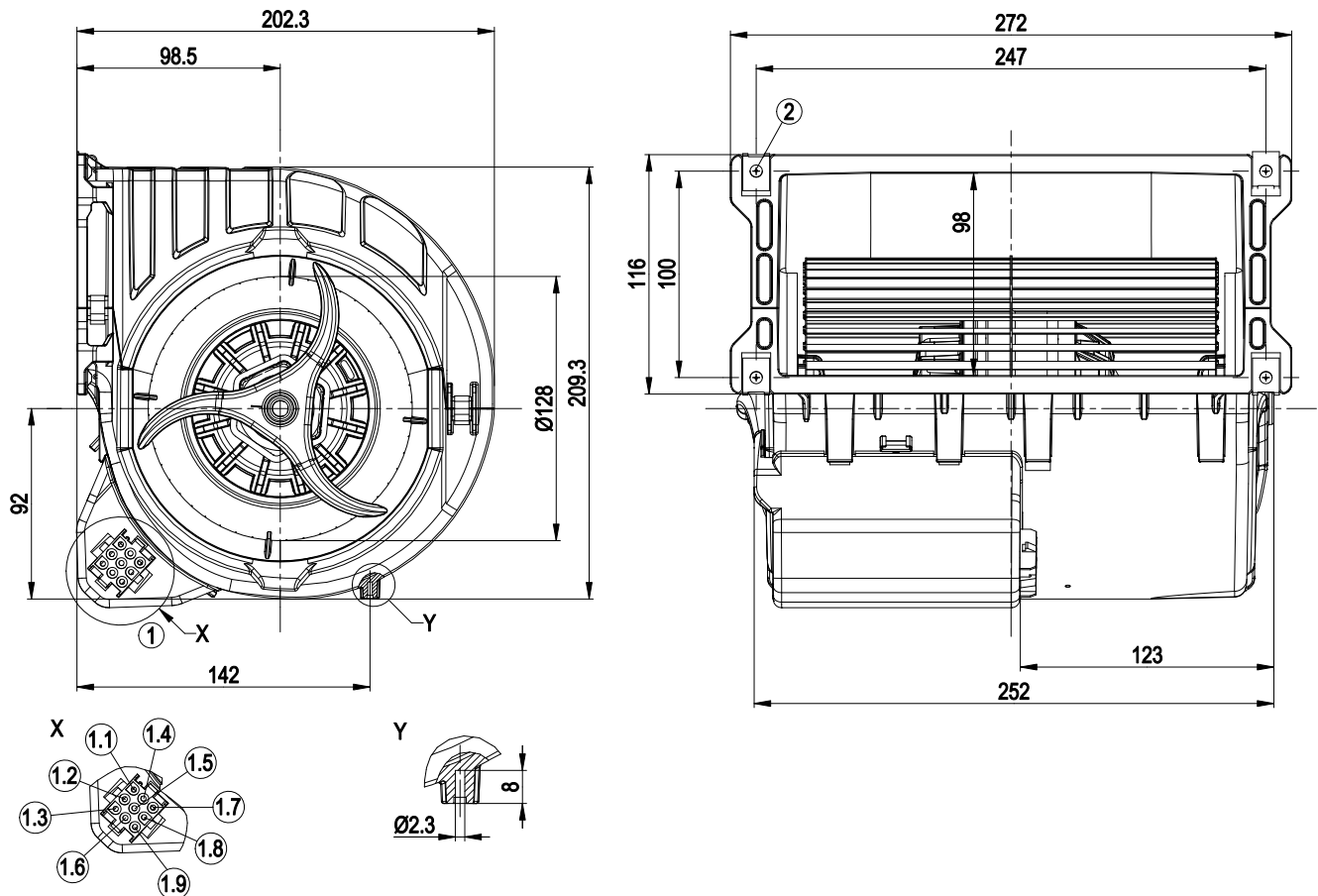
Mass	3.3 kg
Size	146 mm
Material of impeller	Sheet steel, galvanised
Housing material	PP plastic
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 20
Insulation class	"F"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Speed steps	5
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical leads	Via terminal box, integrated capacitor connected via terminal box; With plug
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1



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Product drawing

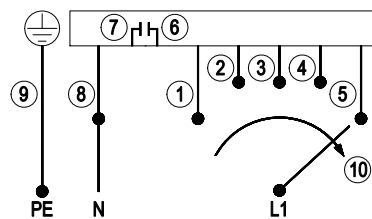


1	AMP Universal Mate-N-Lok coded plug system; connector shell: AMP 927 231-3; 7x plug pin AMP 926 886-1
1.1	L = step 1
1.2	L = step 2
1.3	L = step 3
1.4	L = step 4
1.5	L = step 5
1.6	Not assigned
1.7	Not assigned
1.8	N
1.9	Protective earth
2	4x sheet metal nut for thread EN ISO 1478-ST4.8 (min. screw length 14.5 mm plus thickness of mounting material)

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Connection screen



When changing speeds, switch must break the circuit

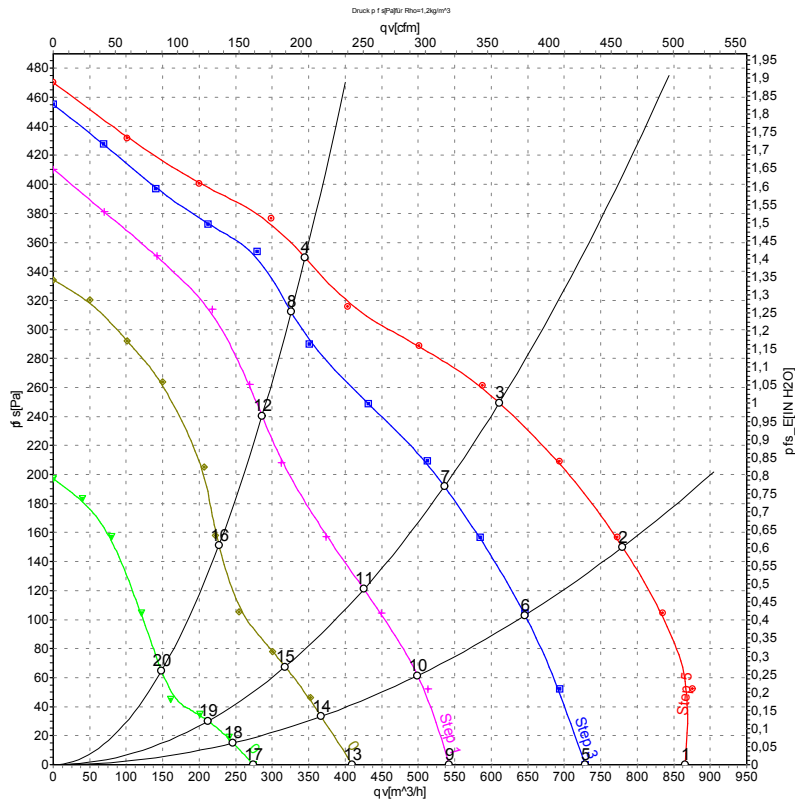
1	Step 1 (min.)	2	Step 2	3	Step 3
4	Step 4	5	Step 5 (max.)	6	Capacitor
7	Capacitor	8	N	9	Protective earth
10	Speed increase				



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Charts: Air flow 50 Hz



Measurement: LU-59827
Measurement: LU-59829
Measurement: LU-59831
Measurement: LU-59833
Measurement: LU-59835

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

	Stage	U	f	n	P _e	I	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa
1	5	230	50	1350	235	1.05	865	0
2	5	230	50	1735	221	0.97	780	150
3	5	230	50	2080	205	0.90	610	250
4	5	230	50	2455	176	0.79	345	350
5	4	230	50	1015	187	0.85	730	0
6	4	230	50	1445	179	0.82	645	105
7	4	230	50	1835	166	0.79	535	192
8	4	230	50	2315	140	0.71	325	312
9	3	230	50	830	151	0.71	540	0
10	3	230	50	1130	147	0.70	500	64
11	3	230	50	1470	141	0.69	425	121
12	3	230	50	1995	123	0.64	285	240
13	2	230	50	640	128	0.62	410	0
14	2	230	50	885	125	0.61	365	34
15	2	230	50	1125	122	0.60	320	68
16	2	230	50	1600	114	0.58	225	150
17	1	230	50	395	105	0.53	275	0
18	1	230	50	575	104	0.52	245	16
19	1	230	50	740	103	0.52	210	30
20	1	230	50	1065	99	0.51	150	64

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

