

D4E133-DA56-D4

AC centrifugal fan

forward curved, dual inlet
with housing (without flange)

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Nominal data

Type	D4E133-DA56-D4	
Motor	M4E068-BF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		CE
Speed	min ⁻¹	1070
Power input	W	82
Current draw	A	0.37
Motor capacitor	µF	1.5
Capacitor voltage	VDB	400
Capacitor standard		P2 (CE)
Min. back pressure	Pa	0
Max. ambient temperature	°C	30

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

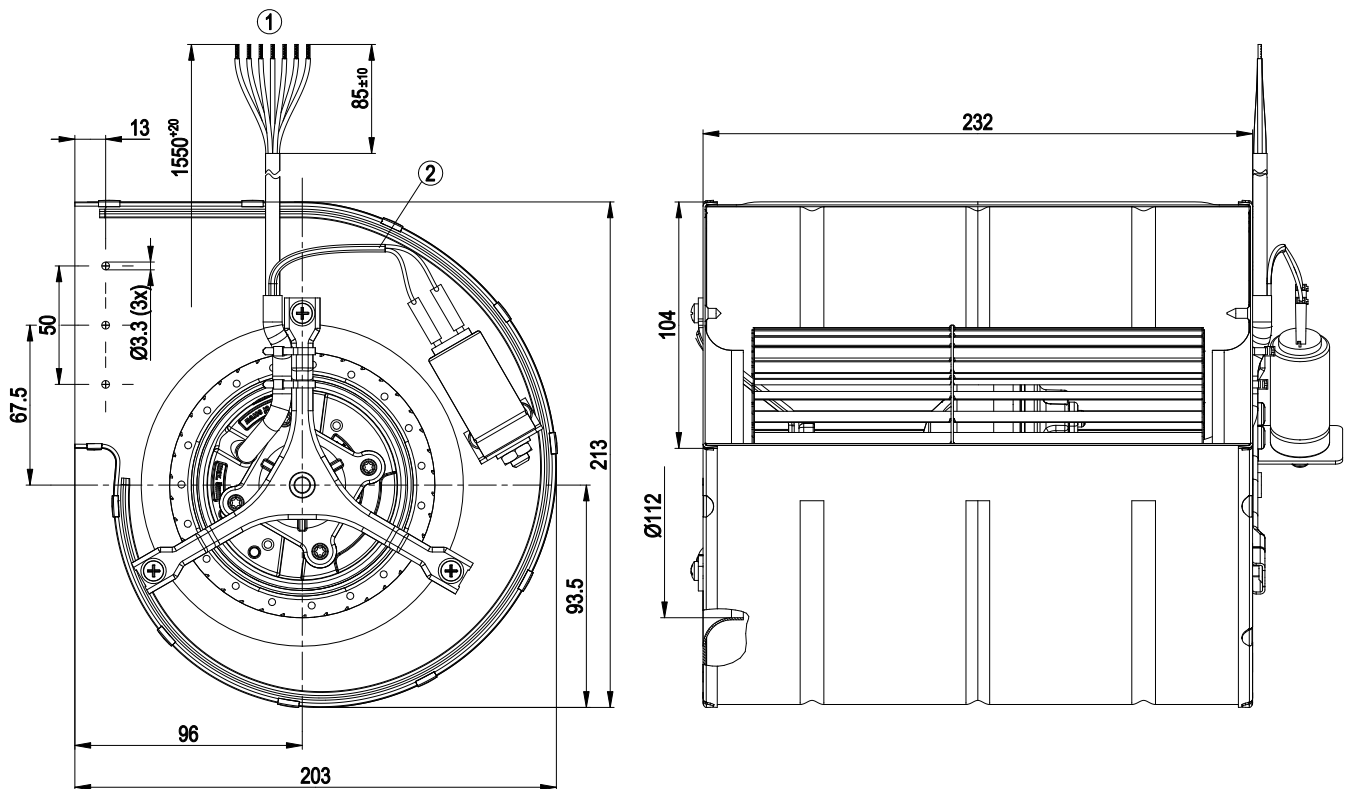
Mass	3.1 kg
Size	133 mm
Surface of rotor	Uncoated
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Motor suspension	Motor mounted vibration-free on both sides
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 70 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing with anti-freezing grease
Speed steps	5
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical leads	Capacitor mounted
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



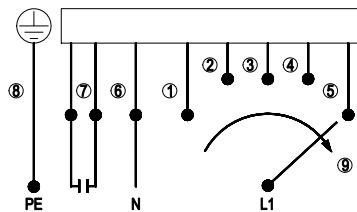
- | | |
|---|---|
| 1 | Connection line AWG20 7x 0.5 mm ² , 7x lead tips crimped |
| | All colours have 6 mm of stripped insulation except violet, which has 6.4 mm |
| 2 | Connection line AWG20 2x 0.5 mm ² , 2x threaded pins with insulating sleeves attached to capacitor |



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Connection screen



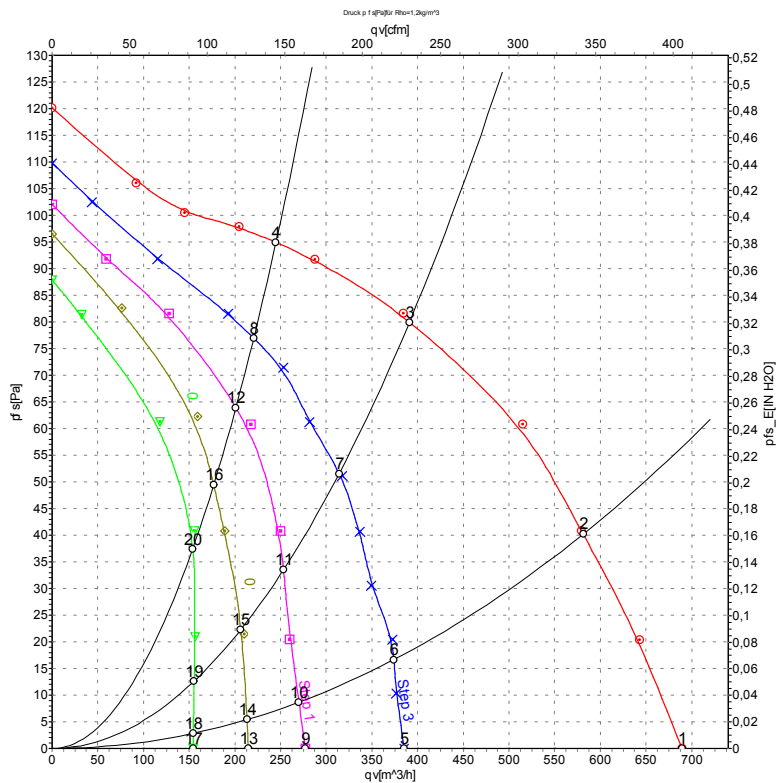
When changing speeds, switch must break the circuit

1	Stage 1(min.), red
2	Stage 2, brown
3	Stage 3, grey
4	Stage 4, violet
5	Stage 5 (max.), black
6	N, white
7	Capacitor, yellow and orange
8	Protective earth, green/yellow
9	Speed increase

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Charts: Air flow 50 Hz



Measurement: LU-27568
Measurement: LU-27569
Measurement: LU-27570
Measurement: LU-27571
Measurement: LU-27572

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	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa
1	5	230	50	1070	82	0.37	690	0
2	5	230	50	1220	74	0.33	580	40
3	5	230	50	1335	66	0.31	390	80
4	5	230	50	1395	63	0.31	245	95
5	4	230	50	625	58	0.25	385	0
6	4	230	50	815	56	0.24	375	17
7	4	230	50	1110	49	0.21	315	52
8	4	230	50	1260	44	0.19	220	77
9	3	230	50	480	50	0.22	280	0
10	3	230	50	610	48	0.21	270	8
11	3	230	50	915	44	0.19	255	34
12	3	230	50	1135	39	0.17	200	65
13	2	230	50	410	44	0.19	215	0
14	2	230	50	495	44	0.19	215	6
15	2	230	50	745	42	0.18	205	25
16	2	230	50	1015	37	0.16	175	50
17	1	230	50	295	41	0.18	155	0
18	1	230	50	345	40	0.18	155	3
19	1	230	50	495	39	0.17	155	11
20	1	230	50	870	36	0.16	155	42

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

