D2E133-DM17-98

AC centrifugal fan

forward-curved, dual-intake

with housing (flange)

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**D2E133-DM17-98**		
Motor	**M2E068-DF**		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min^{-1}	1000	950
Power consumption	W	120	125
Current draw	A	0.53	0.55
Capacitor	µF	2.5	2.5
Capacitor voltage	VDB	400	400
Capacitor standard		S2 (CE)	S2 (CE)
Min. back pressure	Pa	0	0
Min. back pressure	inH2O	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	70	65

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	4.4 kg
Fan size	133 mm
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Support structure material	Sheet steel, galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"F"
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
Speed levels	3
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Capacitor mounted
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S2
Conformity with standards	EN 60335-1; CE

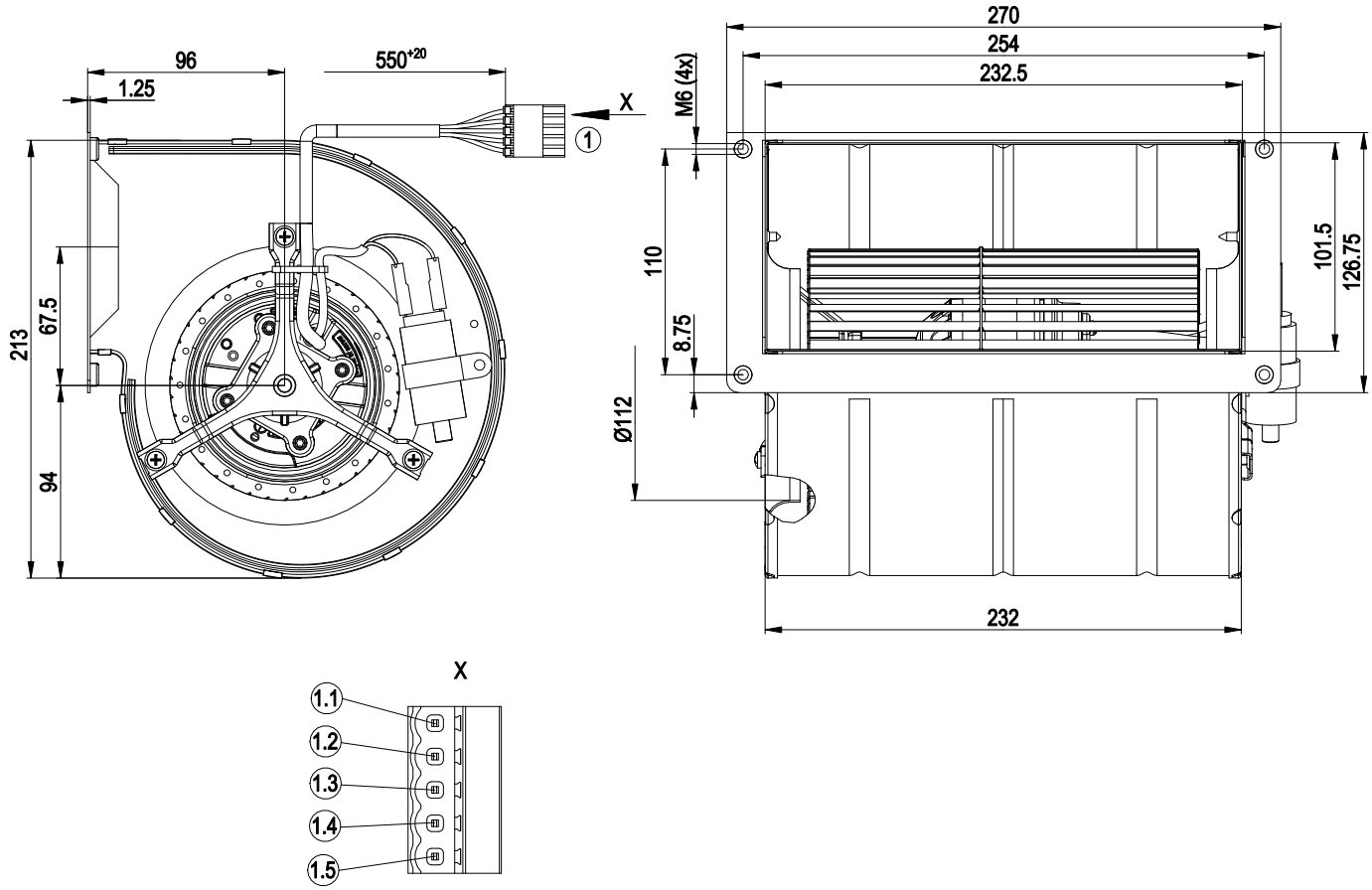
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Product drawing



1	Cable halogen-silicone-free 5x 0.5 mm², 5-pole connector housing Weidmüller 170940, 5x crimped ferrules
1.1	green/yellow
1.2	blue
1.3	white
1.4	gray
1.5	black

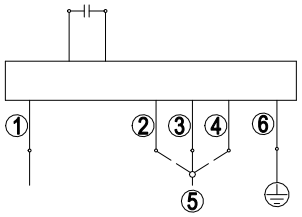
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Connection diagram



Note: High speed (step III); low speed (step I)

1	blue (N)
2	Step I black 1/white
3	Step II black 2/gray
4	Step III black 3/black
5	L1
6	PE (green/yellow)

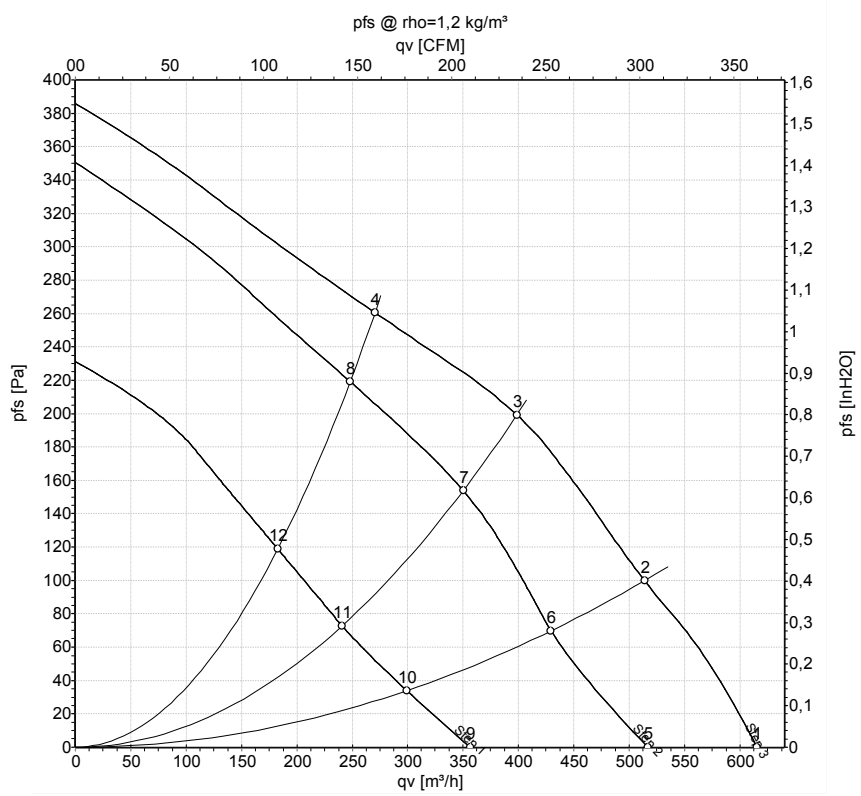
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Curves: Air performance 50 Hz



Measurement: LU-38045-1
Measurement: LU-38046-1
Measurement: LU-38048-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

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	3	230	50	1000	120	0.53	615	0	360	0.00
2	3	230	50	1540	110	0.48	515	100	305	0.40
3	3	230	50	2015	99	0.43	400	200	235	0.80
4	3	230	50	2260	89	0.39	270	260	160	1.04
5	2	230	50	850	98	0.43	515	0	305	0.00
6	2	230	50	1305	94	0.41	430	69	250	0.28
7	2	230	50	1770	85	0.38	350	156	205	0.63
8	2	230	50	2075	77	0.35	250	219	145	0.88
9	1	230	50	585	74	0.33	355	0	210	0.00
10	1	230	50	890	72	0.33	300	33	175	0.13
11	1	230	50	1220	70	0.32	240	73	140	0.29
12	1	230	50	1535	66	0.31	185	119	110	0.48

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

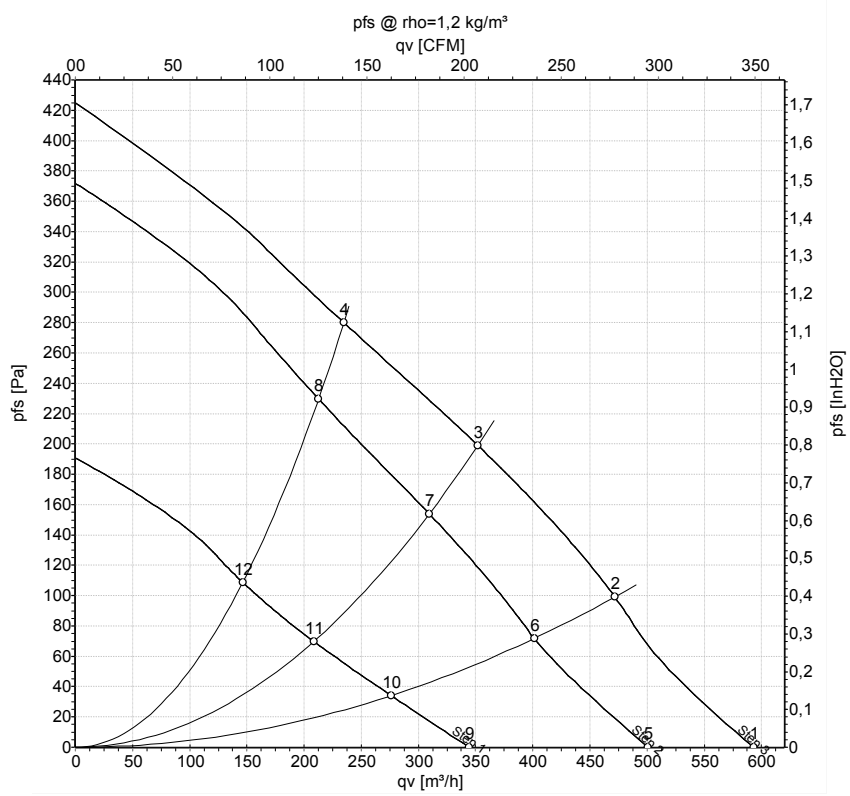
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Curves: Air performance 60 Hz



Measurement: LU-38049-1
Measurement: LU-38050-1
Measurement: LU-38051-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

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	3	230	60	950	125	0.55	595	0	350	0.00
2	3	230	60	1490	120	0.52	470	100	280	0.40
3	3	230	60	2015	117	0.51	350	200	205	0.80
4	3	230	60	2330	112	0.49	235	280	140	1.12
5	2	230	60	810	101	0.45	500	0	295	0.00
6	2	230	60	1265	98	0.44	400	71	235	0.29
7	2	230	60	1775	94	0.43	310	154	180	0.62
8	2	230	60	2115	90	0.42	215	230	125	0.92
9	1	230	60	540	72	0.34	345	0	200	0.00
10	1	230	60	860	71	0.34	275	33	160	0.13
11	1	230	60	1170	70	0.34	210	70	125	0.28
12	1	230	60	1445	68	0.33	145	107	85	0.43

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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