D2E146-HT67-60

AC centrifugal fan

forward-curved, dual-intake

with housing (flange)



ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**D2E146-HT67-60**
Motor	**M2E068-EC**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		ml	ml
Valid for approval/standard		-	-
Speed (rpm)	min^{-1}	2200	2150
Power consumption	W	305	395
Current draw	A	1.34	1.73
Capacitor	µF	8	8
Capacitor voltage	VDB	450	450
Capacitor standard		S2 (CE)	S2 (CE)
Min. back pressure	Pa	250	235
Min. back pressure	inH2O	1	0.94
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	55	55
Starting current	A	1.8	

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	3.7 kg
Fan size	146 mm
Terminal box material	PP plastic
Impeller material	Sheet steel, galvanized
Housing material	PP plastic
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP20
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, open rotor
Mode	S1
Motor bearing	Ball bearing
Speed levels	4
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	With plug
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 60335-2-31
Approval	CCC; CSA C22.2 No. 113; UL 507

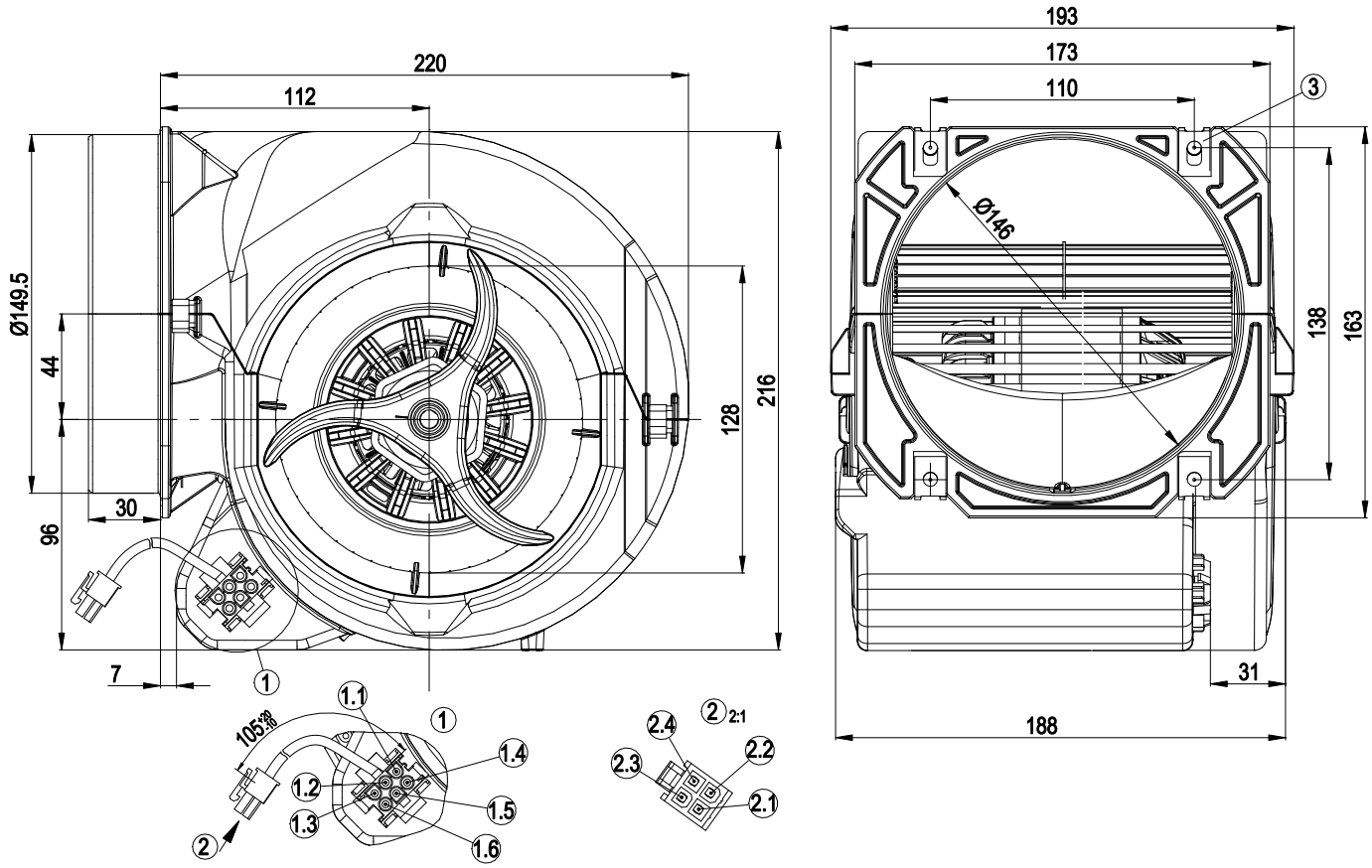
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Product drawing



1	Coded plug-in system AMP Universal- Mate- N- Lok; Connector housing: AMP 926 682-3; 6x 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	N
1.6	Protective earth
2	Connector housing: Molex 39-01-2040; 6x socket Molex 39-00-0065
2.1	red
2.2	black
2.3	white
3	4x sheet metal nut for thread EN ISO 1478-ST4.8 (min. screw length 14.5 mm plus material thickness of mounting)

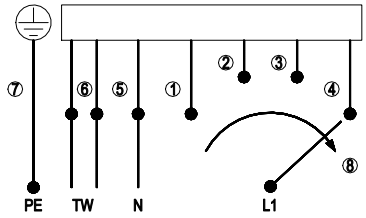
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Connection diagram



The switch must interrupt the circuit when switching.

1	Step 1 (min.)	2	Step 2	3	Step 3
4	Step 4 (max.)	5	N	6	TOP 2x
7	Protective earth	8	Speed increasing		

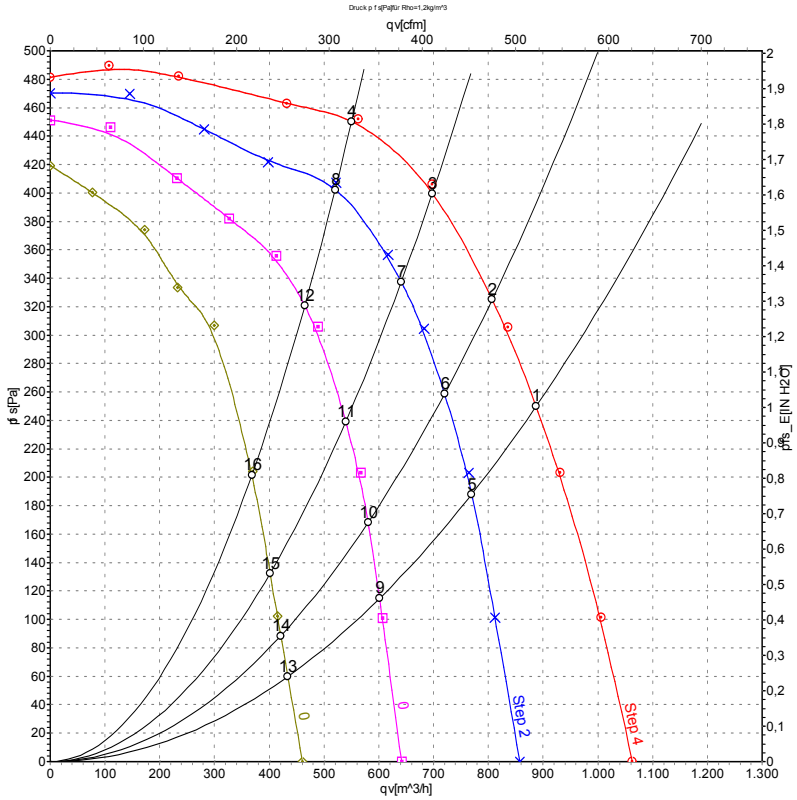
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Curves: Air performance 50 Hz



Measurement: LU-45713-1
Measurement: LU-45715-1
Measurement: LU-45717-1
Measurement: LU-45719-1

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	4	230	50	2200	305	1.34	885	250	520	1.00
2	4	230	50	2320	290	1.26	805	325	475	1.30
3	4	230	50	2435	268	1.16	700	400	410	1.61
4	4	230	50	2545	242	1.05	550	450	325	1.81
5	3	230	50	1945	254	1.15	770	192	455	0.77
6	3	230	50	2075	240	1.10	720	259	425	1.04
7	3	230	50	2235	221	1.03	640	338	375	1.36
8	3	230	50	2415	195	0.93	520	408	305	1.64
9	2	230	50	1535	218	1.01	600	116	355	0.47
10	2	230	50	1685	210	0.98	580	169	340	0.68
11	2	230	50	1895	196	0.94	540	240	320	0.96
12	2	230	50	2160	174	0.87	465	322	275	1.29
13	1	230	50	1115	189	0.87	435	60	255	0.24
14	1	230	50	1230	186	0.86	420	88	250	0.35
15	1	230	50	1425	179	0.84	400	132	235	0.53
16	1	230	50	1765	165	0.80	370	206	215	0.83

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

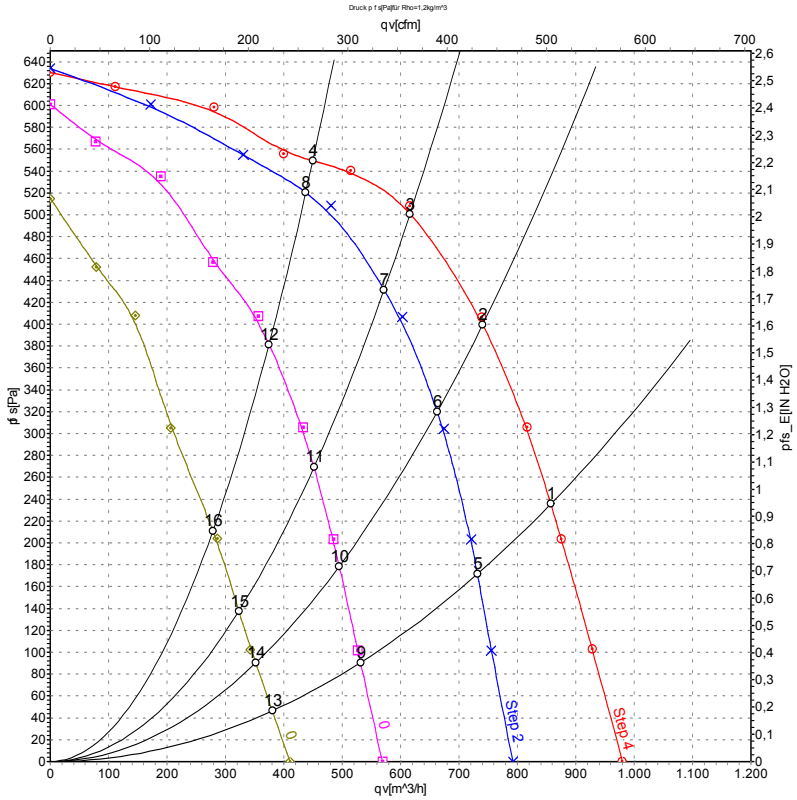
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Curves: Air performance 60 Hz



Measurement: LU-45714-1
Measurement: LU-45716-1
Measurement: LU-45718-1
Measurement: LU-45720-1

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	4	230	60	2150	395	1.73	855	235	505	0.94
2	4	230	60	2465	378	1.64	740	400	435	1.61
3	4	230	60	2685	360	1.58	615	500	365	2.01
4	4	230	60	2860	344	1.52	450	550	265	2.21
5	3	230	60	1845	294	1.37	730	172	430	0.69
6	3	230	60	2205	278	1.33	660	322	390	1.29
7	3	230	60	2500	260	1.29	570	433	335	1.74
8	3	230	60	2765	238	1.24	440	522	260	2.10
9	2	230	60	1370	227	1.10	530	91	315	0.37
10	2	230	60	1670	220	1.09	495	179	290	0.72
11	2	230	60	1990	210	1.07	450	270	265	1.08
12	2	230	60	2415	190	1.04	375	383	220	1.54
13	1	230	60	985	186	0.92	380	46	225	0.18
14	1	230	60	1170	184	0.91	350	88	205	0.35
15	1	230	60	1405	180	0.90	325	137	190	0.55
16	1	230	60	1770	172	0.89	280	214	165	0.86

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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