D2E160-GL07-01

AC centrifugal fan

forward-curved, dual-intake

with housing (large flange)

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Nominal data

Type	**D2E160-GL07-01**
Motor	**M2E074-HA**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		ml
Valid for approval/standard		-
Speed (rpm)	min^{-1}	1700
Power consumption	W	470
Current draw	A	2.06
Capacitor	µF	12
Capacitor voltage	VDB	400
Capacitor standard		S2 (CE)
Min. back pressure	Pa	100
Min. back pressure	inH2O	0.4
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

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	6.5 kg
Fan size	160 mm
Rotor surface	Partly cast in aluminum
Terminal box material	PP plastic, black
Impeller material	Sheet steel, hot-dip galvanized
Housing material	PP plastic, black
Motor suspension	Motor vibration-damped on both sides
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	Via terminal box, capacitor integrated and connected; With plug
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Axial
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
Approval	CCC; EAC

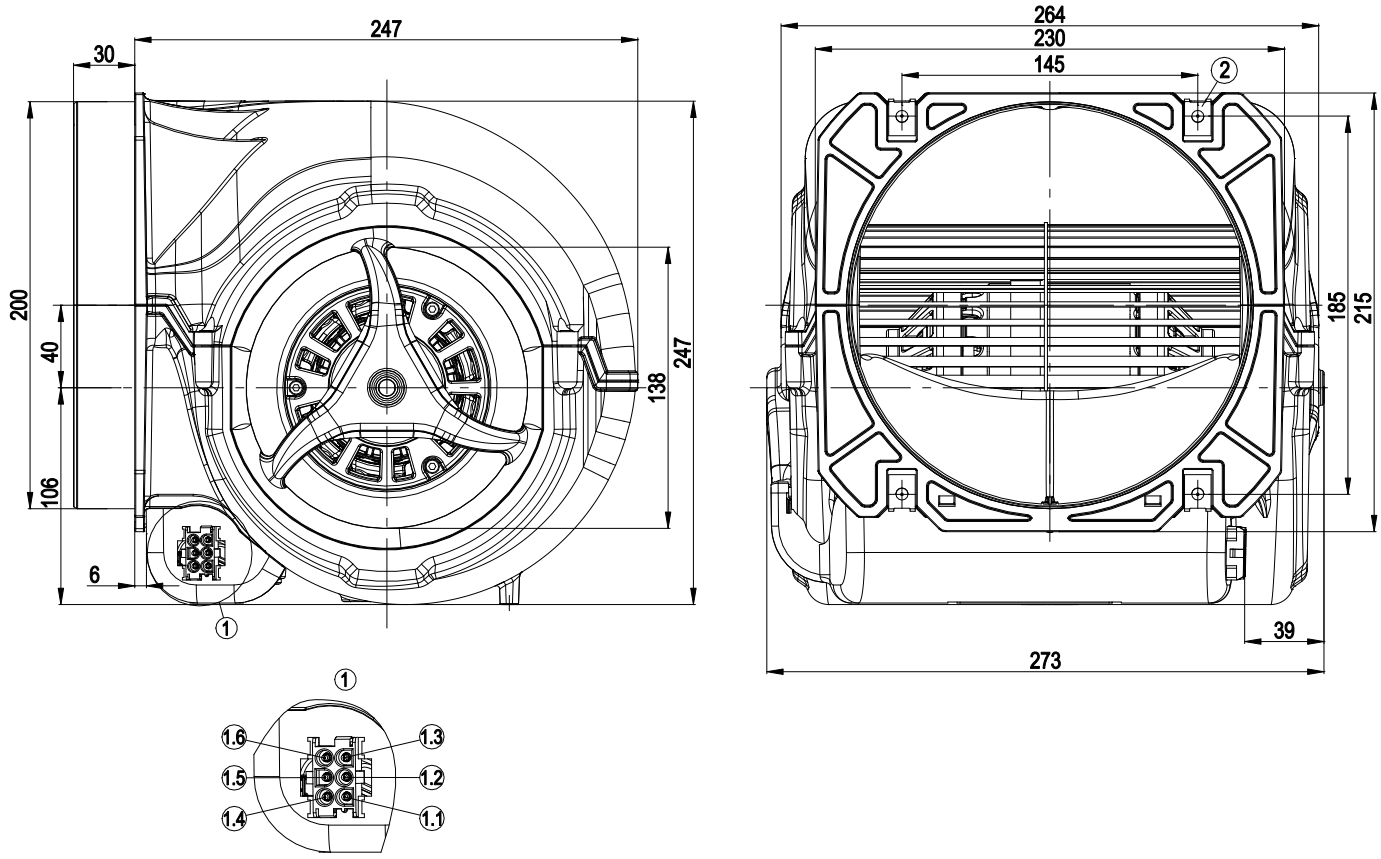
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Product drawing



1	Coded plug system AMP Universal Mate-N-Lok; connector housing: AMP 926 682-3; 6 x plug pin AMP 926 886-1
1.1	L = step 1 (min.)
1.2	L = step 2
1.3	L = step 3
1.4	L = step 4 (max.)
1.5	N
1.6	Protective earth
2	4x sheet metal nut for thread EN ISO 1478-ST4.8 (min. screw length 14.5 mm plus material thickness of mounting)

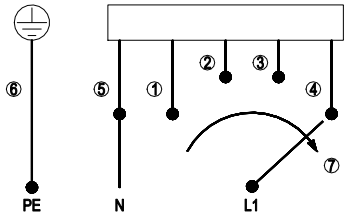
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Connection diagram



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	PE protective earth
7	Speed increasing				

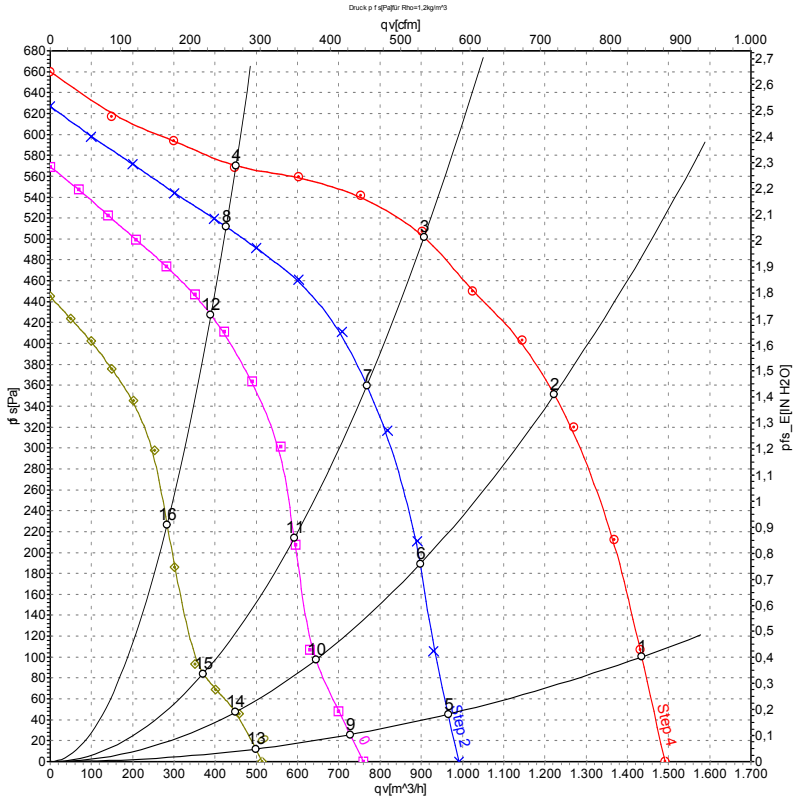
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Curves: Air performance 50 Hz



Measurement: LU-127474-1
Measurement: LU-127462-1
Measurement: LU-127463-1
Measurement: LU-127464-1

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	1800	500	2.19	1435	100	845	0.40
2	4	230	50	2170	440	1.94	1225	350	720	1.41
3	4	230	50	2515	371	1.70	905	500	535	2.01
4	4	230	50	2700	309	1.52	450	570	265	2.29
5	3	230	50	1125	378	1.69	965	44	570	0.18
6	3	230	50	1635	352	1.61	900	193	530	0.77
7	3	230	50	2155	295	1.44	770	360	450	1.45
8	3	230	50	2600	210	1.22	425	512	250	2.06
9	2	230	50	870	319	1.44	730	26	430	0.10
10	2	230	50	1170	310	1.41	645	94	380	0.38
11	2	230	50	1690	285	1.34	590	214	350	0.86
12	2	230	50	2380	205	1.11	390	427	230	1.71
13	1	230	50	615	270	1.23	500	12	295	0.05
14	1	230	50	855	260	1.19	450	49	265	0.20
15	1	230	50	1070	256	1.18	370	84	220	0.34
16	1	230	50	1745	226	1.09	285	226	165	0.91

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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