D2E160-GL07-06

AC centrifugal fan

forward-curved, dual-intake

with housing (flange)

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Nominal data

Type	**D2E160-GL07-06**
Motor	**M2E074-HA**

Phase		1~
Nominal voltage	VAC	240
Nominal voltage range	VAC	220 .. 240
Frequency	Hz	50
Method of obtaining data		ml
Valid for approval/standard		-
Speed (rpm)	min^{-1}	1900
Power consumption	W	520
Current draw	A	2.2
Capacitor	µF	12
Capacitor voltage	VDB	400
Capacitor standard		P2 (CE)
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	55

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	With plug; Via terminal box, capacitor integrated and connected
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1

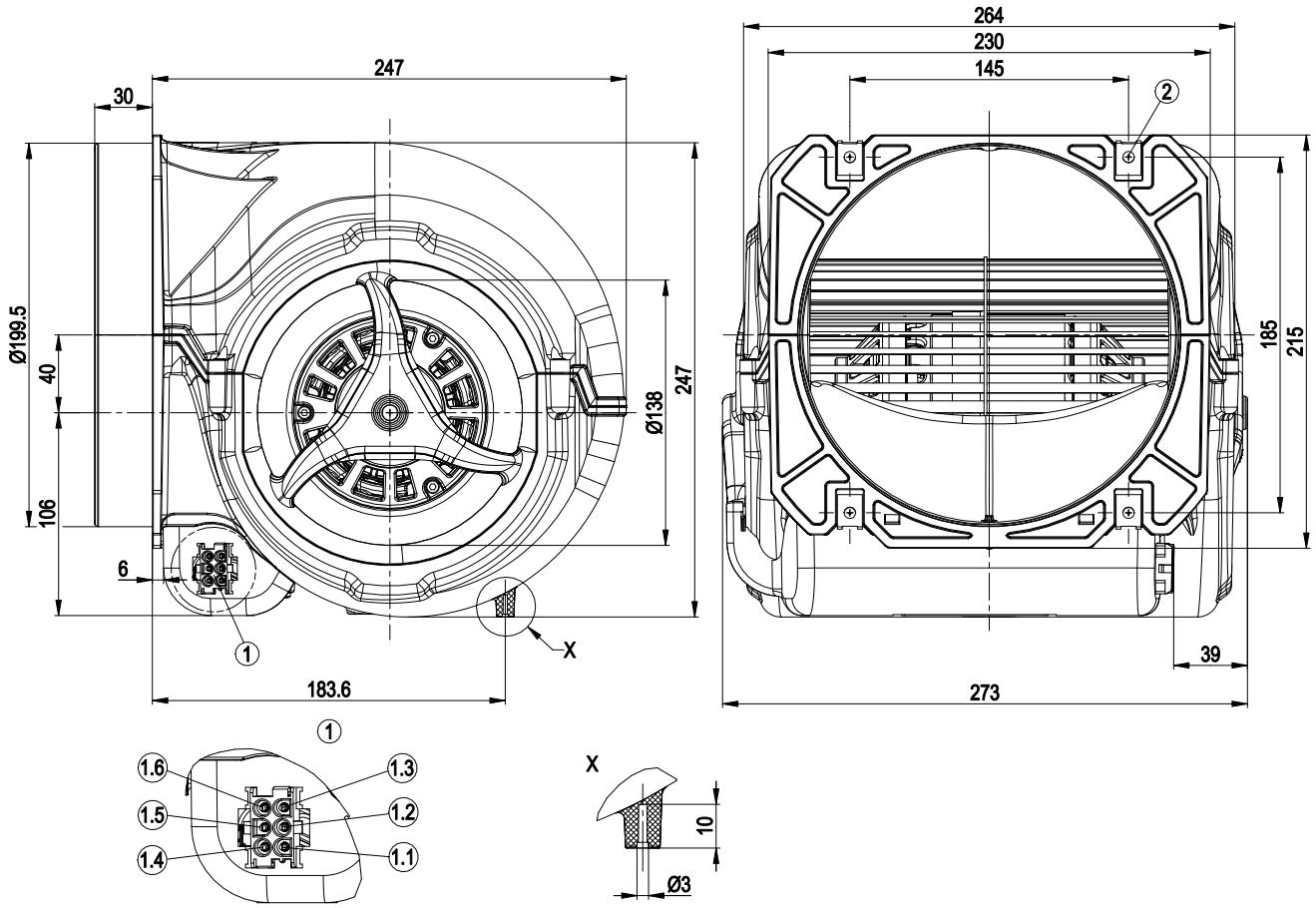
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Product drawing



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)

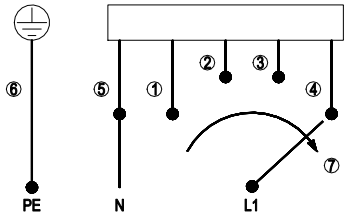
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Connection diagram



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				

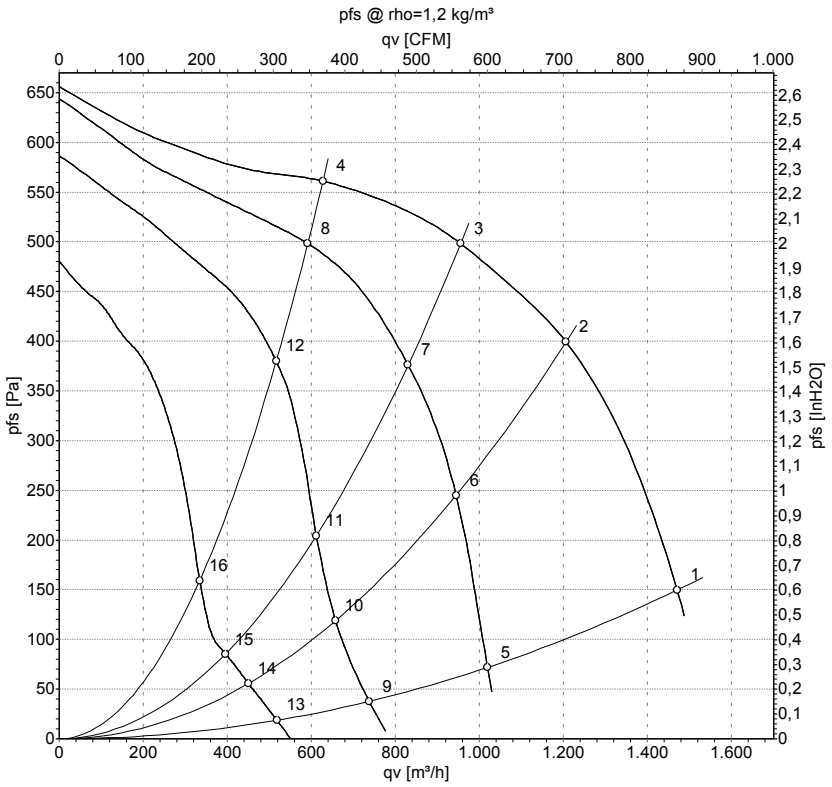
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Curves: Air performance 50 Hz



Measurement: LU-127460-1
Measurement: LU-127476-1
Measurement: LU-127477-1
Measurement: LU-127478-1

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

	U	f	n	P_e	I	LpA_{in}	LwA_{in}	qv	p_{fs}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	CFM	inH2O
1	240	50	1900	520	2.20	63	76	1470	150	865	0.60
2	240	50	2310	453	1.93	62	74	1205	400	710	1.61
3	240	50	2525	397	1.76	62	75	955	500	560	2.01
4	240	50	2685	343	1.60	64	77	625	560	370	2.25
5	240	50	1260	409	1.76		2	1020	71	600	0.29
6	240	50	1810	366	1.63		2	945	246	555	0.99
7	240	50	2185	317	1.49		2	830	377	490	1.51
8	240	50	2520	249	1.32		2	590	499	350	2.00
9	240	50	940	338	1.48			740	35	435	0.14
10	240	50	1300	327	1.44			660	118	385	0.47
11	240	50	1625	306	1.39			610	201	360	0.81
12	240	50	2225	245	1.22			515	380	305	1.53
13	240	50	675	291	1.28	378		520	19	305	0.08
14	240	50	915	283	1.25	429		450	56	265	0.22
15	240	50	1090	279	1.23	456		395	86	235	0.35
16	240	50	1445	261	1.18	478		335	157	195	0.63

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
qv = Air flow · p_{fs} = Pressure increase

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