D3G146-HQ01-02

EC centrifugal fan

forward-curved, dual-intake

with housing (large flange)



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Nominal data

Type	**D3G146-HQ01-02**
Motor	**M3G055-DF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min^{-1}	2230
Power consumption	W	130
Current draw	A	1.0
Min. back pressure	Pa	0
Min. back pressure	inH2O	0
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	2.4 kg
Fan size	146 mm
Impeller material	PP plastic
Housing material	PP plastic
Motor suspension	Motor vibration-damped on both sides
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"F"
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)	<= 3.5 mA
Electrical hookup	Via terminal box; With plug
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE

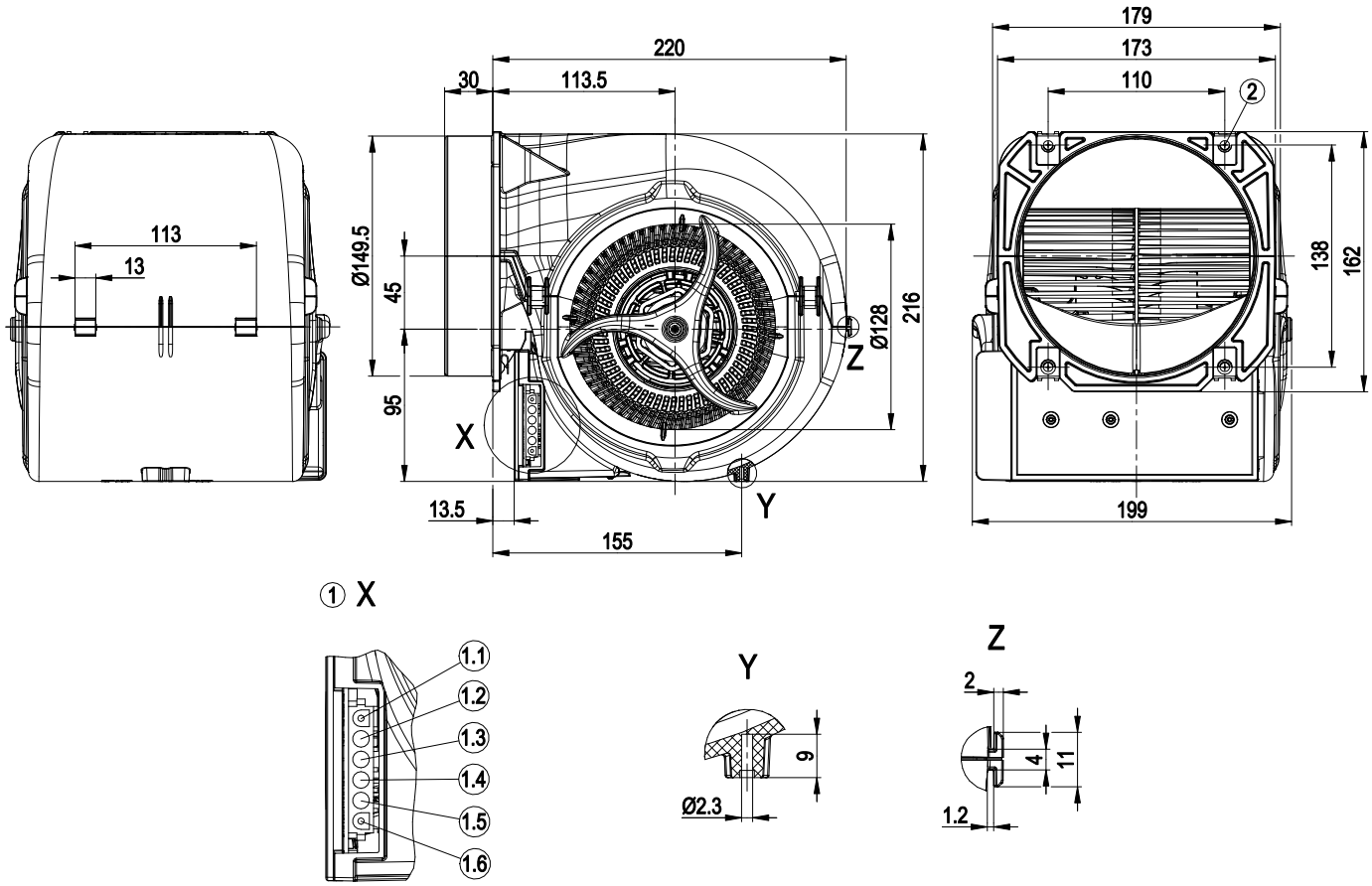
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Product drawing



1	Pin socket AMP Universal Mate-N-Lok 1586936-1
1.1	L = step 4 (max.)
1.2	L = step 3
1.3	L = step 2
1.4	L = step 1 (min.)
1.5	PE
1.6	N
2	4x sheet metal nut for thread EN ISO 1478-ST4.8

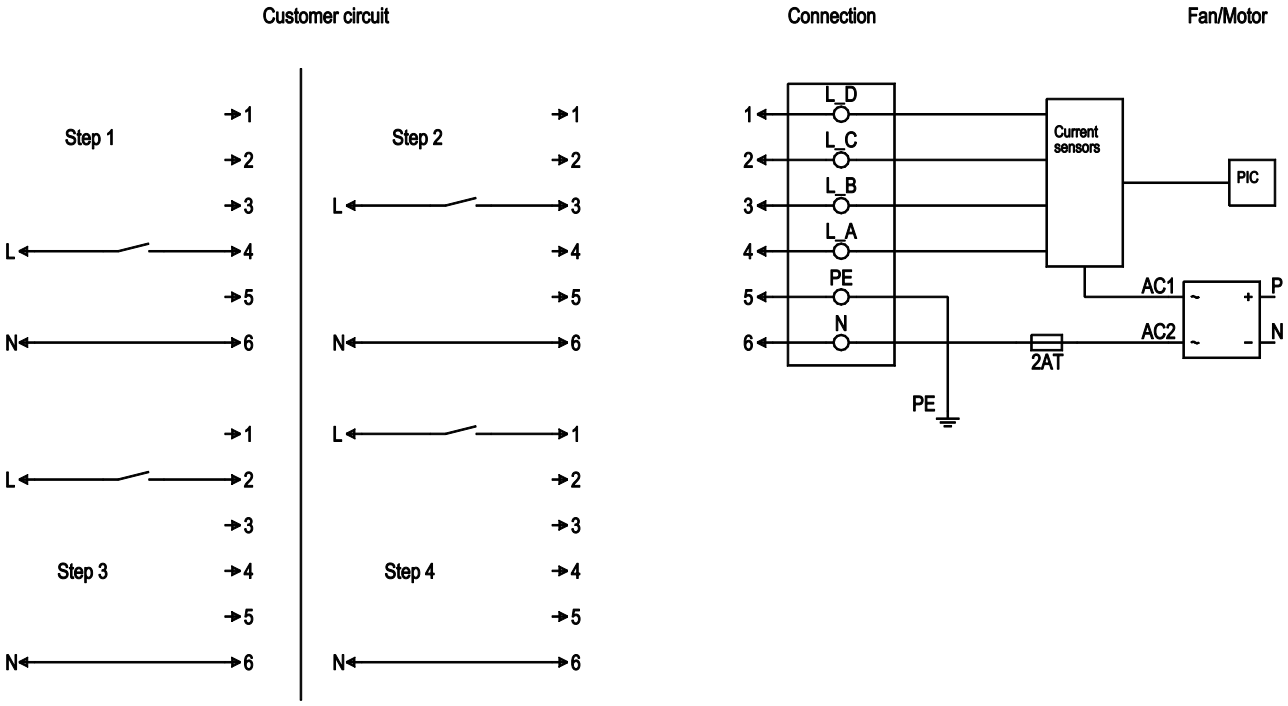
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	1	L_D	black	Step 4 - highest step (230 VAC, 50-60 Hz, see nameplate for voltage range)
	2	L_C	gray	Step 3 (230 VAC, 50-60 Hz, see nameplate for voltage range)
	3	L_B	red	Step 2 (230 VAC, 50-60 Hz, see nameplate for voltage range)
	4	L_A	white	Step 1 - lowest step (230 VAC, 50-60 Hz, see nameplate for voltage range)
	5	PE	green/yellow	Protective earth
	6	N	blue	Neutral conductor

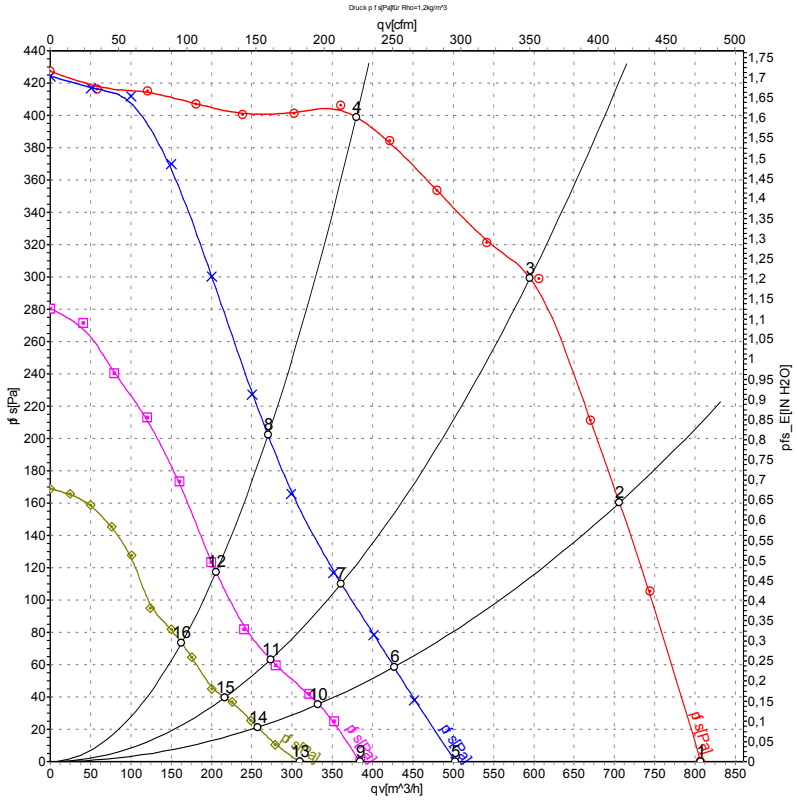
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Curves: Air performance 50 Hz



Measurement: LU-126474-1
Measurement: LU-126364-1
Measurement: LU-126365-1
Measurement: LU-126367-1

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_{ed}	I	qv	p_{fs}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	230	50	1365	88	0.64	805	0	475	0.00
2	230	50	1835	112	0.82	705	160	415	0.64
3	230	50	2230	130	1.00	595	300	350	1.20
4	230	50	2510	101	0.76	380	400	225	1.61
5	230	50	860	22	0.19	505	0	295	0.00
6	230	50	1135	27	0.22	425	58	250	0.23
7	230	50	1395	32	0.25	360	110	210	0.44
8	230	50	1805	40	0.31	270	202	160	0.81
9	230	50	670	11	0.10	385	0	225	0.00
10	230	50	890	14	0.12	330	36	195	0.14
11	230	50	1065	15	0.13	275	63	160	0.25
12	230	50	1385	20	0.16	205	117	120	0.47
13	230	50	550	6.9	0.07	310	0	180	0.00
14	230	50	695	7.8	0.08	255	21	150	0.08
15	230	50	850	8.9	0.09	215	40	130	0.16
16	230	50	1105	11	0.11	165	73	95	0.29

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

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