

AC centrifugal fan

forward-curved, dual-intake

with housing (flange)



D2E146-HT79-32 ebmpapst Datasheet

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Nominal data

Type	D2E146-HT79-32	
Motor	M2E068-EC	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		ce
Valid for approval/standard		CE
Speed (rpm)	min ⁻¹	2450
Power consumption	W	290
Current draw	A	1.3
Capacitor	μF	8
Capacitor voltage	VDB	450
Capacitor standard		S2 (CE)
Min. back pressure	Pa	0
Min. back pressure	inH ₂ O	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40
Starting current	A	2.2

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Data according to ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_e	%	39.1	39.1
02 Measurement category		B	
03 Efficiency category		Total	
04 Efficiency grade N		49	49
05 Variable speed drive		No	

Data obtained at optimum efficiency level.

The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

09 Power consumption P_e	kW	0.27
09 Air flow q_v	m ³ /h	750
09 Pressure increase p_f	Pa	496
10 Speed (rpm) n	min ⁻¹	2515
11 Specific ratio*		1.00

* Specific ratio = $1 + p_f / 100\,000\text{ Pa}$

LU-160241



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Technical description

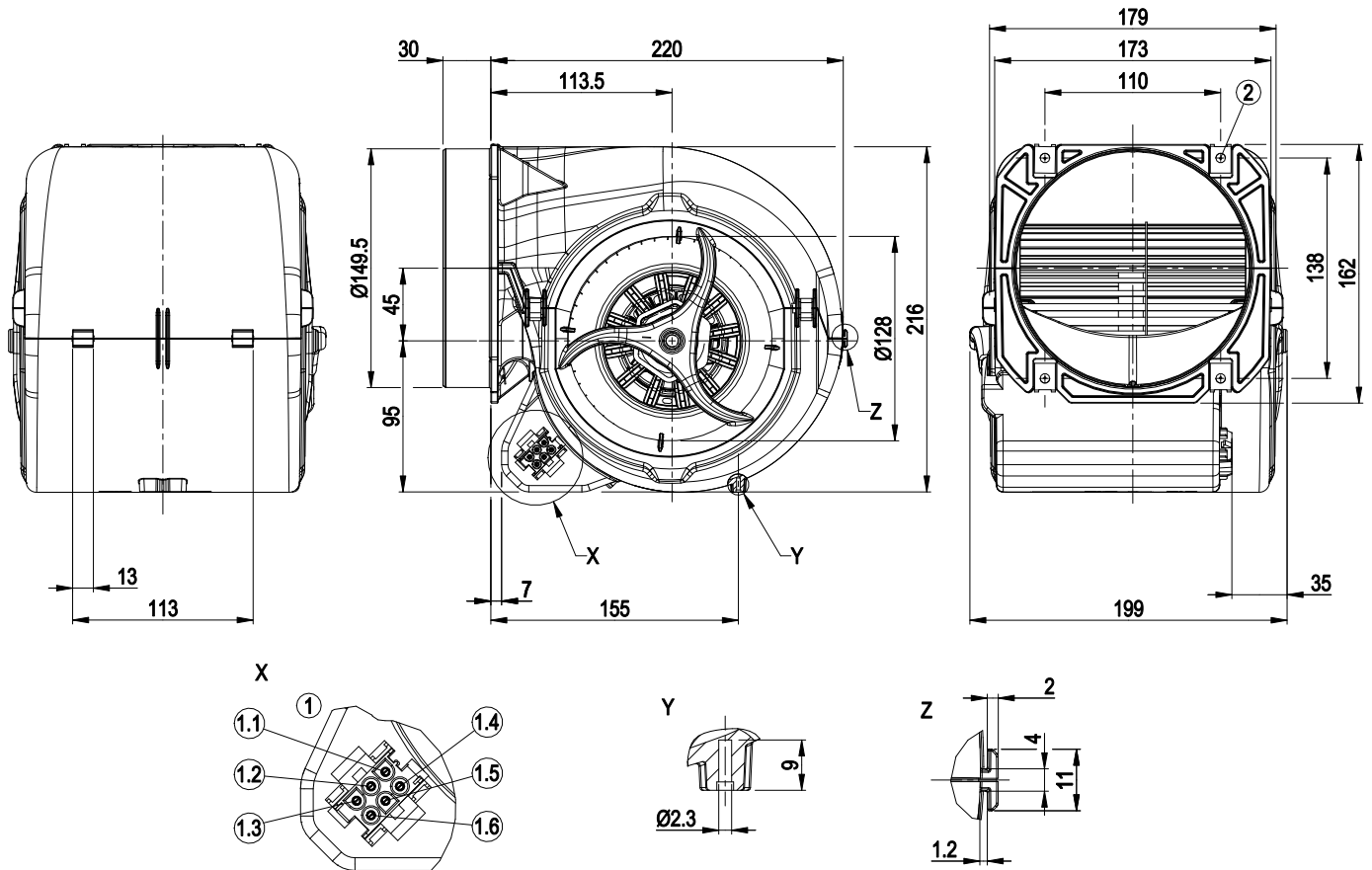
Weight	3.5 kg
Fan size	146 mm
Rotor surface	Unpainted
Terminal box material	PP plastic, black
Impeller material	Sheet steel, galvanized
Housing material	PP plastic, black
Motor suspension	Motor vibration-damped on both sides
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	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	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; CE



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Product drawing

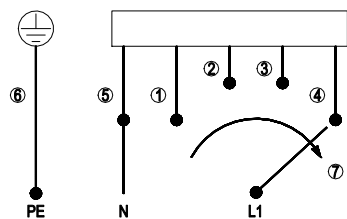


1	tyco coded plug system Universal-Mate-N-Lok, connector housing: tyco 926682-3, 6x plug pin tyco 926886-1
1.1	L = step 1 (min.)
1.2	L = step 2
1.3	L = step 3
1.4	L = step 4 (max.)
1.5	N
1.6	PE
2	4x sheet metal nut for thread EN ISO 1478-ST4.8 (min. screw length 14.5 mm plus material thickness of mounting)

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Connection diagram



The switch must interrupt the circuit when switching.

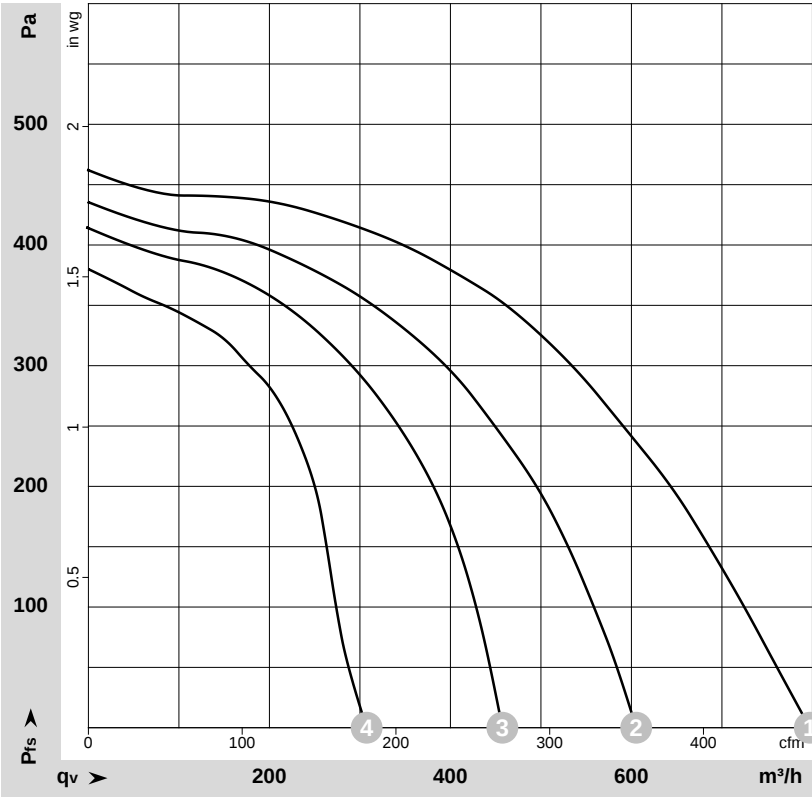
1	Step 1 (min.)	2	Step 2	3	Step 3
4	Step 4 (max.)	5	N	6	PE protective earth
7	Speed increasing				



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Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-60622-1
Measurement: LU-60624-1
Measurement: LU-60627-1
Measurement: LU-60630-1

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	q _v	P _{ts}
		V	Hz	min ⁻¹	W	A	m³/h	cfm	inH2O
1	4	230	50	2450	290	1.30	795	470	0.00
2	3	230	50	1925	248	1.10	605	355	0.00
3	2	230	50	1445	232	1.03	455	270	0.00
4	1	230	50	1000	206	0.91	305	180	0.00

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow

