

AC centrifugal fan

forward-curved, dual-intake

with housing (flange)

D2E146-HS03-37 ebmpapst Datasheet

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Nominal data

Type	D2E146-HS03-37	
Motor	M2E068-DF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		ml
Valid for approval/standard		CE
Speed (rpm)	min ⁻¹	2000
Power consumption	W	140
Current draw	A	0.62
Capacitor	μF	3
Capacitor voltage	VDB	400
Capacitor standard		S2 (CE)
Min. back pressure	Pa	250
Min. back pressure	inH ₂ O	1
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	70
Starting current	A	0.82

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



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Technical description

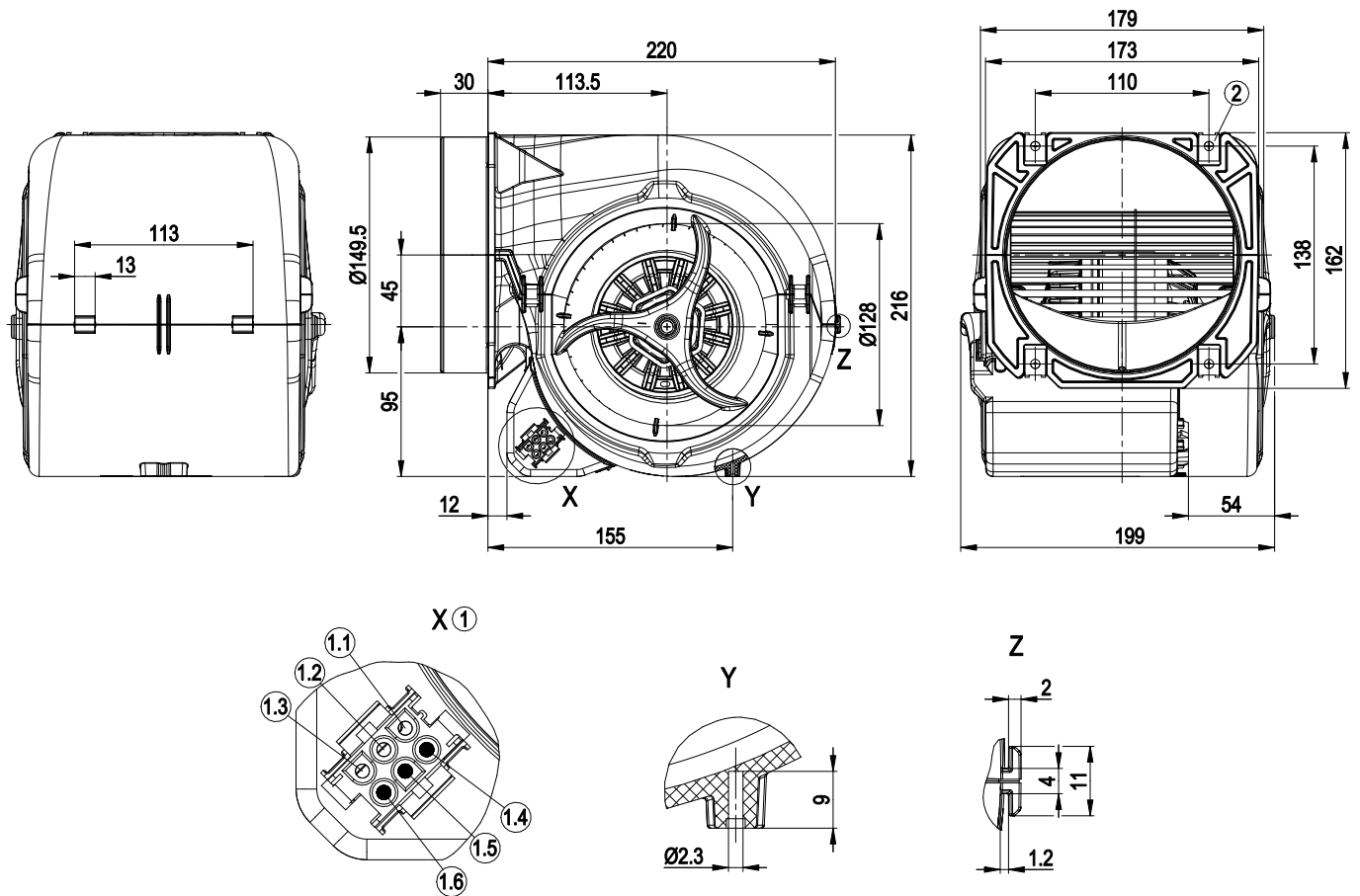
Weight	3.4 kg
Fan size	146 mm
Rotor surface	Partly cast in aluminum
Terminal box material	PP plastic, black
Impeller material	Sheet steel, hot-dip galvanized
Housing material	PP plastic, black
Motor suspension	Motor vibration-damped on both sides
Direction of rotation	Counterclockwise, viewed toward 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
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
Approval	VDE



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Product drawing

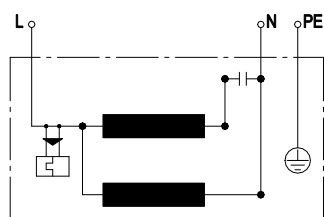


1	tyco coded plug system Universal-Mate-N-Lok, connector housing tyco 926682-3, 3x plug pin tyco 926886-1
1.1	not used
1.2	not used
1.3	not used
1.4	L
1.5	N
1.6	PE
2	4x sheet metal nut for thread EN ISO 1478-ST4.8 (min. screw length 14.5 mm plus material thickness of attachment)

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Connection diagram

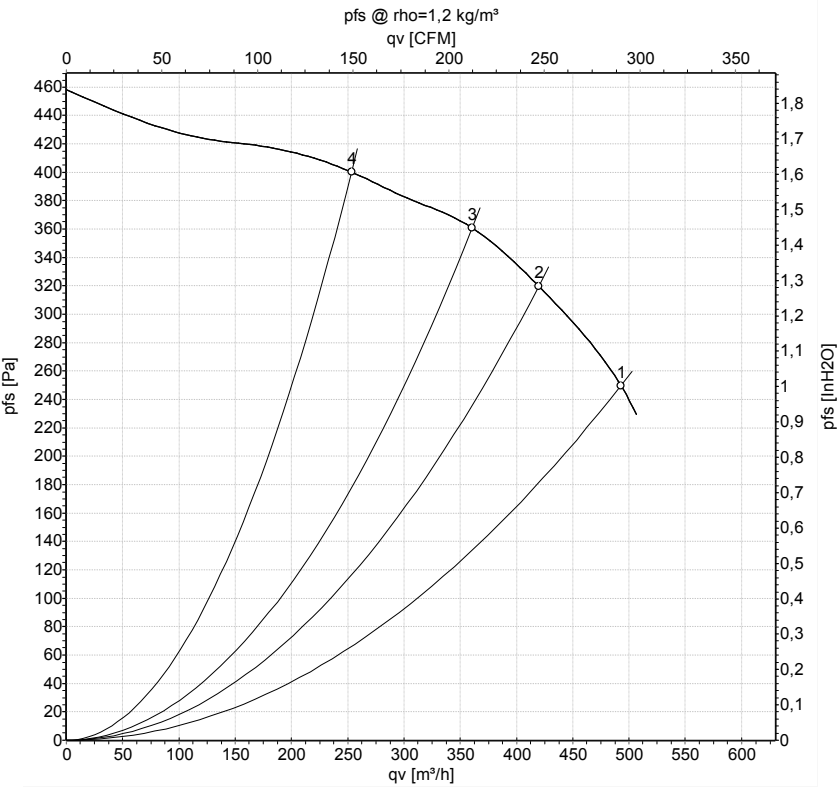


L	blue	N	black	PE	green/yellow
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Curves: Air performance 50 Hz



Measured values

	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	inH ₂ O
1	230	50	2000	140	0.62	495	250	290	1.00
2	230	50	2180	130	0.56	420	320	245	1.28
3	230	50	2345	116	0.51	360	360	210	1.45
4	230	50	2490	102	0.44	255	400	150	1.61

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

