

AC centrifugal fan

forward-curved, dual-intake
with housing (without flange)

D2E146-AV65-D9 ebmpapst Datasheet
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Nominal data

Type	D2E146-AV65-D9	
Motor	M2E068-EC	
Phase		1~
Nominal voltage	VAC	115
Frequency	Hz	60
Method of obtaining data		ce
Valid for approval/standard		CE
Speed (rpm)	min ⁻¹	2450
Power consumption	W	400
Current draw	A	3.5
Capacitor	μF	25
Capacitor voltage	VDB	240
Capacitor standard		S2 (CE)
Min. back pressure	Pa	0
Min. back pressure	inH ₂ O	0
Min. ambient temperature	°C	-20
Max. ambient temperature	°C	45

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



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Technical description

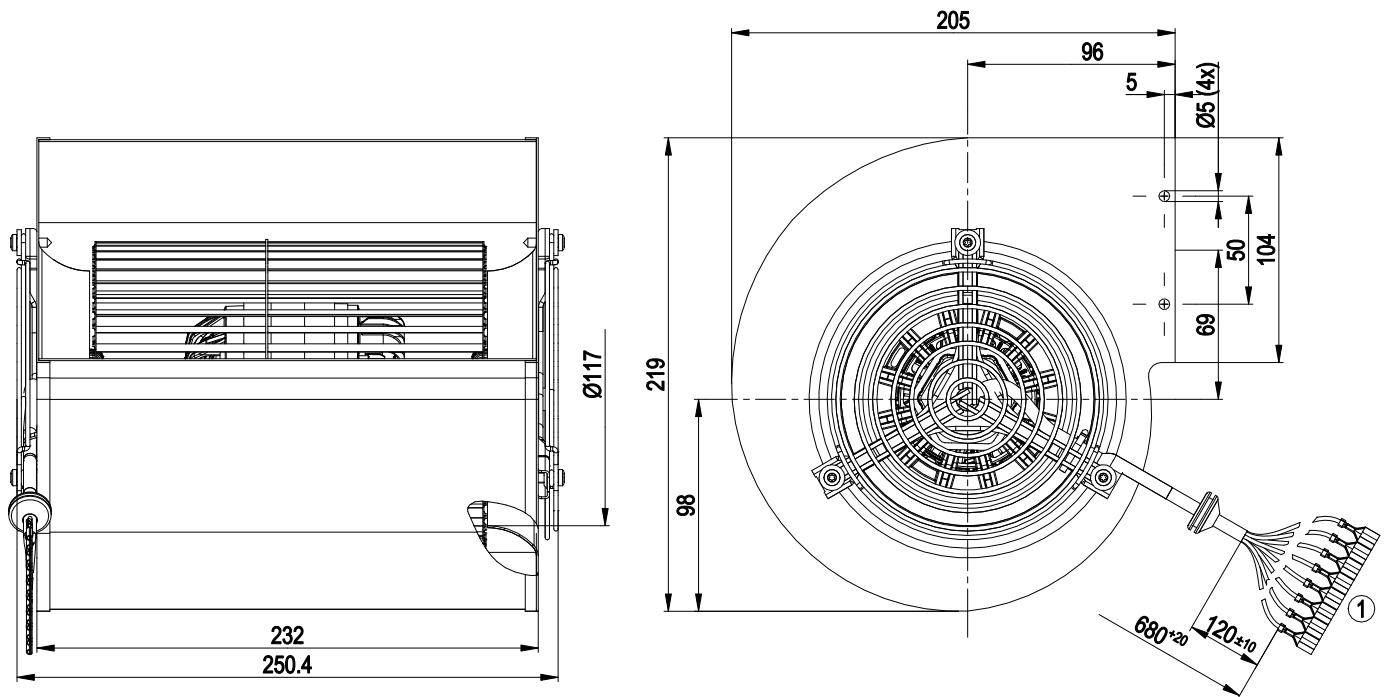
Weight	4.26 kg
Fan size	146 mm
Rotor surface	Unpainted
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Support structure material	Sheet steel, galvanized
Guard grille material	Steel, coated with gray plastic (RAL 9006)
Motor suspension	Motor vibration-damped on both 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	Calotte bearing
Speed levels	4
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
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

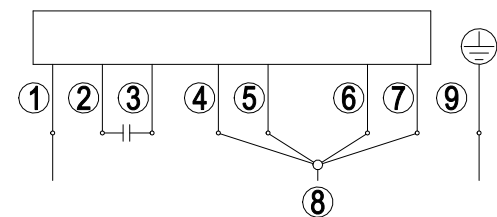


1 Cable Raychem Spec. 44, AWG22, 8x flat push-on receptacle 6.3 x 0.8 crimped

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Connection diagram



Note: High speed (step IV); low speed (step I); the switch must interrupt the circuit when switching.

1	N (blue)
2	brown
3	yellow
4	Step I black 1 / white
5	Step II black 2 / red
6	Step III black 3 / gray
7	Step IV black 4 / black
8	L1
9	= PE = green/yellow

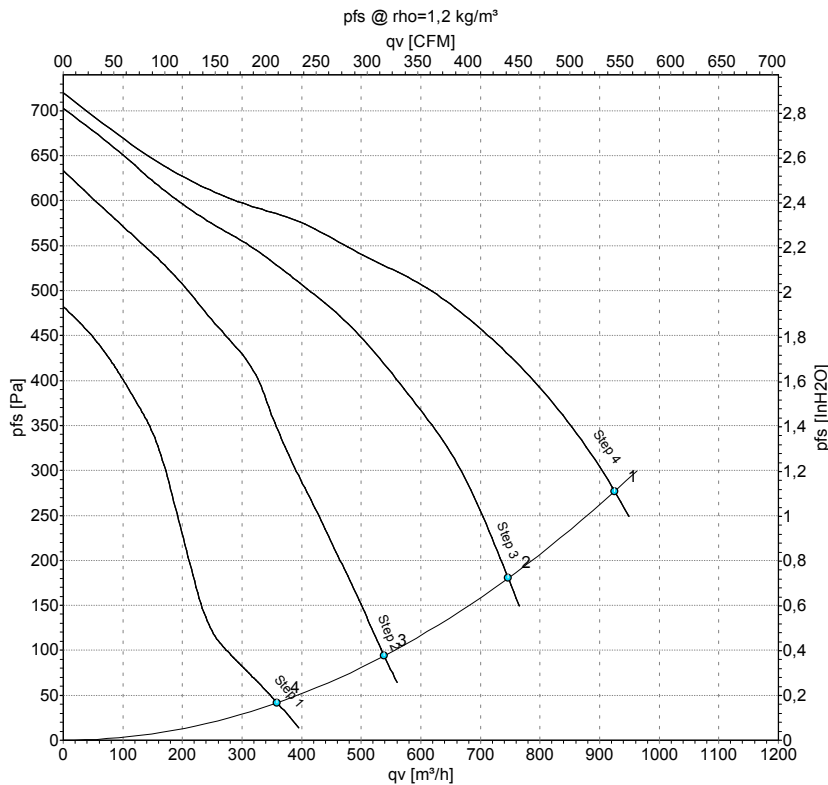


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Curves: Air performance 60 Hz



Measurement: LU-117903-1
Measurement: LU-117904-1
Measurement: LU-117905-1
Measurement: LU-117906-1

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	m³/h	Pa	cfm	inH2O
1	4	115	60	2450	400	3.50	925	275	545	1.10
2	3	115	60	1805	314	2.81	745	181	440	0.73
3	2	115	60	1325	249	2.25	540	94	315	0.38
4	1	115	60	920	195	1.79	360	42	210	0.17

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

