D4E146-AU46-54

AC centrifugal fan

forward curved, dual inlet

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Nominal data

Type	**D4E146-AU46-54**	
Motor	**M4E068-CF**	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		cu
Valid for approval / standard		CE
Speed	min^{-1}	1250
Power input	W	90
Current draw	A	0.41
Motor capacitor	µF	2
Capacitor voltage	VDB	450
Min. back pressure	Pa	40
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	55

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

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Technical features

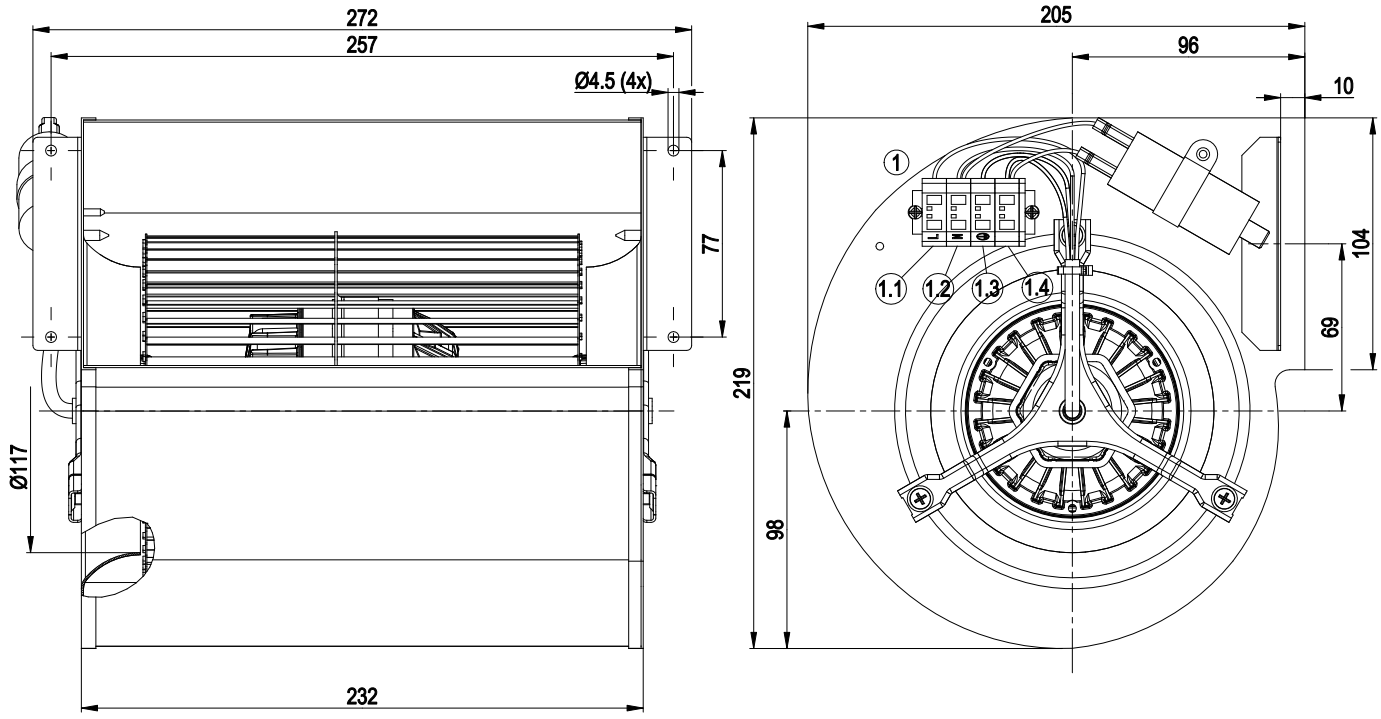
Mass	3.7 kg
Size	146 mm
Surface of rotor	Uncoated
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Motor suspension	Motor mounted anti-vibration on both sides
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"F"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical leads	Capacitor mounted
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

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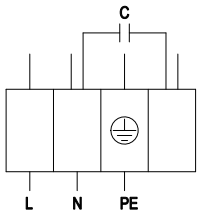
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Product drawing



1	Connection line ETFE AWG22, with terminal strip WAGO 261-009
1.1	Blue
1.2	black + capacitor
1.3	green/yellow
1.4	brown + capacitor

Connection screen



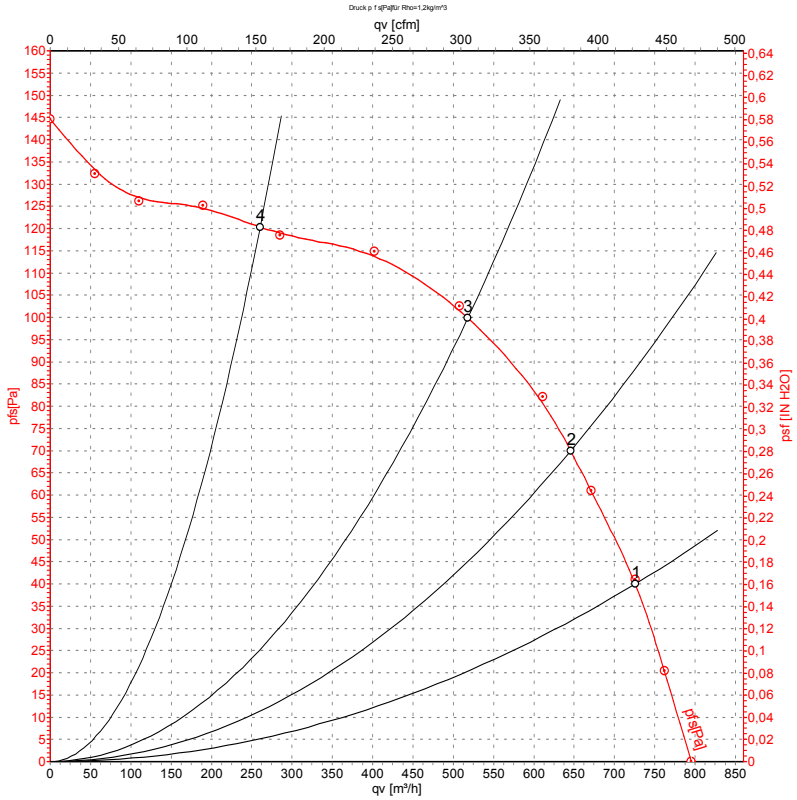
L	blue	N	black	PE	green/yellow

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Charts: Air flow 50 Hz



Measurement: LU-44080

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	f	n	P_e	I	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	230	50	1250	90	0.41	725	40
2	230	50	1305	86	0.38	645	70
3	230	50	1365	78	0.34	520	100
4	230	50	1430	67	0.31	260	120

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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