D2E097-CB11-54

AC centrifugal fan

forward curved, dual inlet

with housing (flange)

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Nominal data

Type	**D2E097-CB11-54**
Motor	**M2E042-CA**

Phase		1~
Nominal voltage	VAC	115
Frequency	Hz	60
Type of data definition		fa
Valid for approval / standard		CE
Speed	min^{-1}	1400
Power input	W	43
Current draw	A	0.38
Motor capacitor	µF	5
Capacitor voltage	VDB	220
Capacitor standard		P2 (CE)
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	1.3 kg
Size	97 mm
Surface of rotor	Uncoated
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Motor suspension	Motor mounted via brackets on one side
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
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
Motor protection	Thermal overload protector (TOP) wired internally
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CSA C22.2 Nr.113; UL 507; CCC

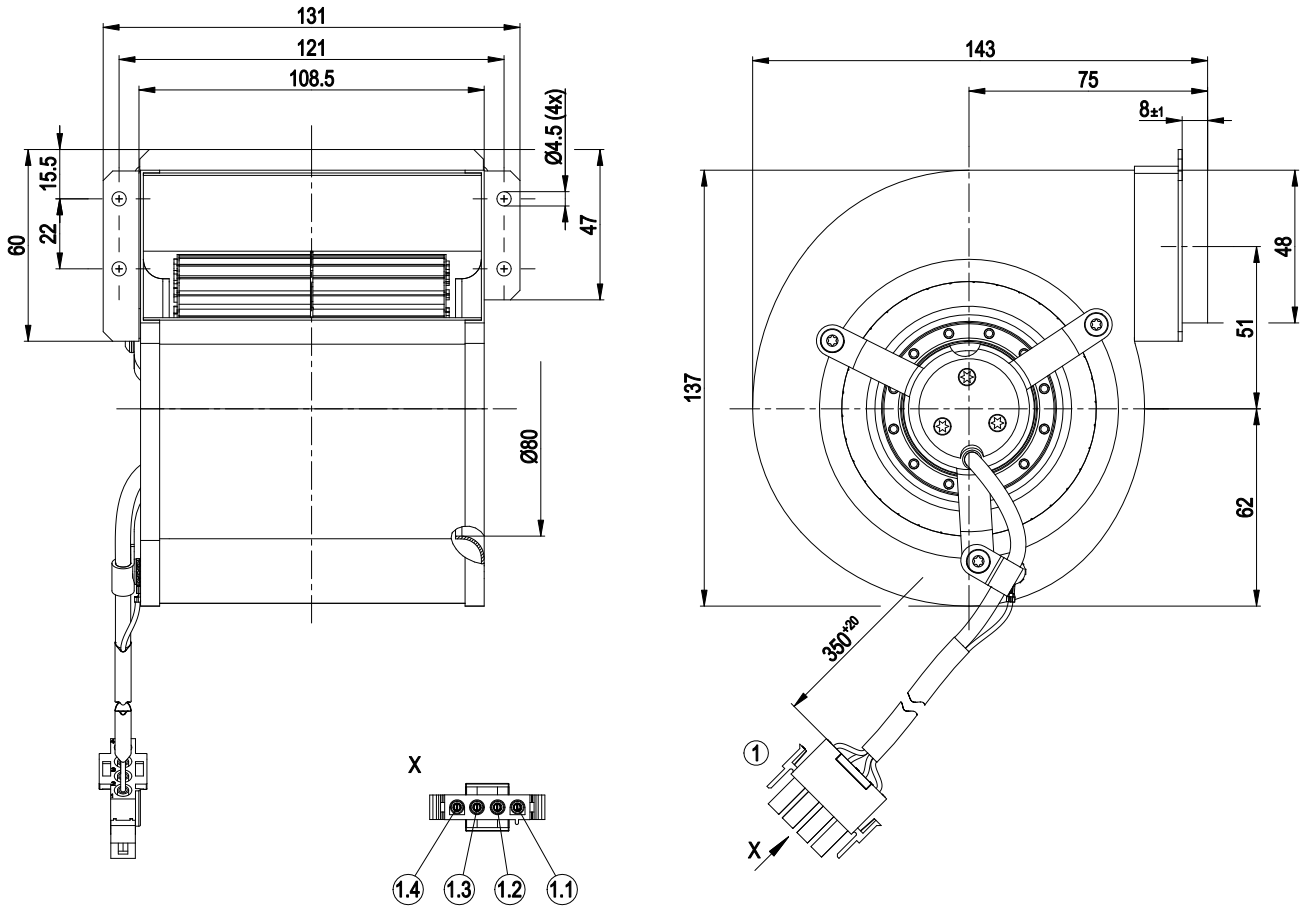
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Product drawing



1	Connection line 3X AWG20 and 1x AWG18 (PE), connector shell AMP 350779-4 and 4x plug pin AMP 926887-1 crimped
1.1	Blue
1.2	black
1.3	brown
1.4	green / yellow

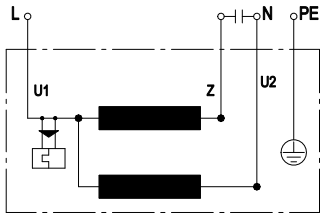
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Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

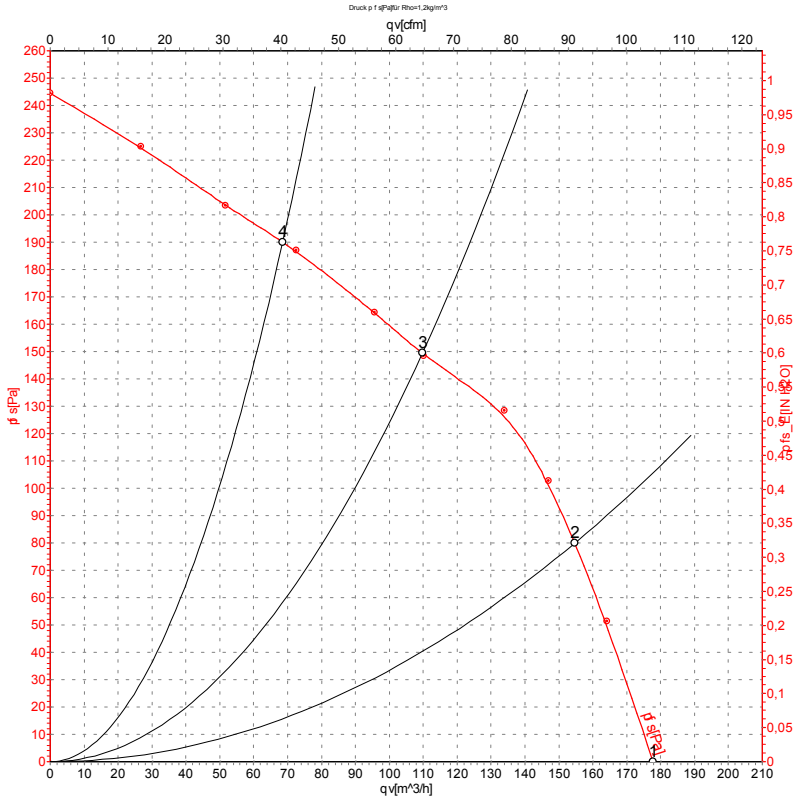
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Charts: Air flow 60 Hz



Measurement: LU-48244

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	115	60	1400	43	0.38	180	0
2	115	60	1945	39	0.35	155	80
3	115	60	2540	35	0.31	110	150
4	115	60	2830	32	0.28	70	190

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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