AC centrifugal fan

forward curved, dual inlet

with housing (without flange)

Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

Nominal data

Type	**D4E133-DU12-L7**
Motor	**M4E068-CA**

Phase		1~	1~	1~
Nominal voltage	VAC	230	230	230
Frequency	Hz	50	60	60
Type of data definition		fa	fa	fa
Valid for approval / standard		CE	CE	UL 2111
Speed (rpm)	min^{-1}	910	910	910
Power input	W	50	55	62
Current draw	A	0.22	0.24	0.27
Motor capacitor	µF	2	2	2
Capacitor voltage	VDB	400	400	400
Capacitor standard			S0 (CE)	UL
Min. back pressure	Pa	0	0	0
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	55	55	55
Starting current	A	0.25	0.27	

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

AC centrifugal fan

forward curved, dual inlet

with housing (without flange)

Technical features

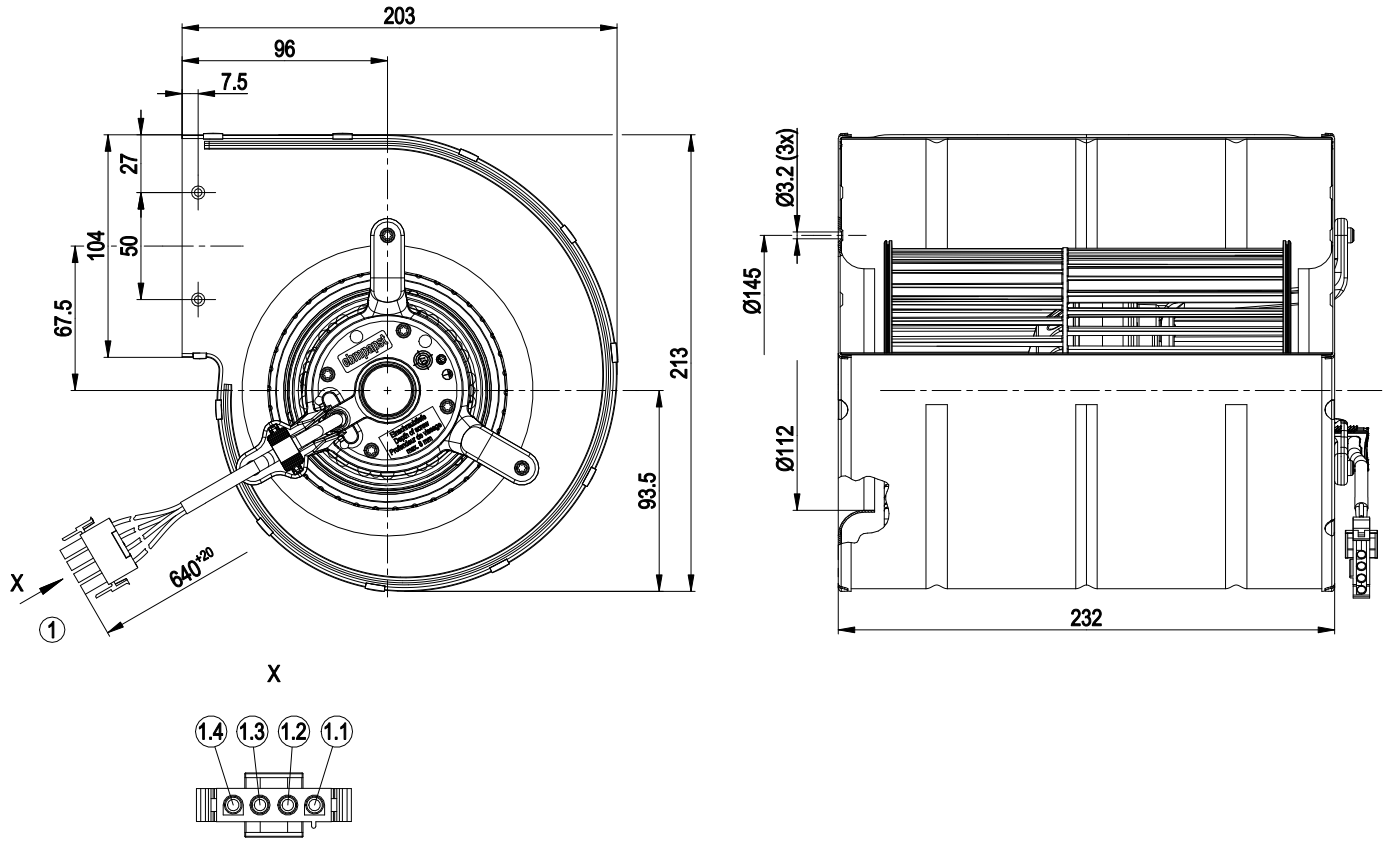
Mass	2.8 kg
Size	133 mm
Surface of rotor	Uncoated
Material of impeller	PA plastic
Housing material	Sheet steel, galvanised and coated in black
Motor suspension	Motor mounted via brackets on one side
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
Humidity (F)/environmental protection class (H)	H0 - dry environment
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	With plug
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
Approval	CSA C22.2 No.77; UL 2111; CCC

AC centrifugal fan

forward curved, dual inlet

with housing (without flange)

Product drawing



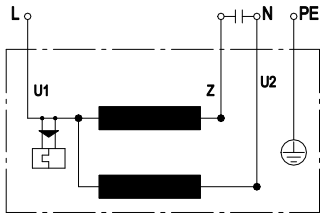
1	Connection line PVC AWG20, connector housing 4-pole Tyco 350779-4, 4x female connector Tyco 926882-1
1.1	PE (green/yellow)
1.2	N (blue)
1.3	L (black)
1.4	Z (brown)

AC centrifugal fan

forward curved, dual inlet

with housing (without flange)

Connection screen



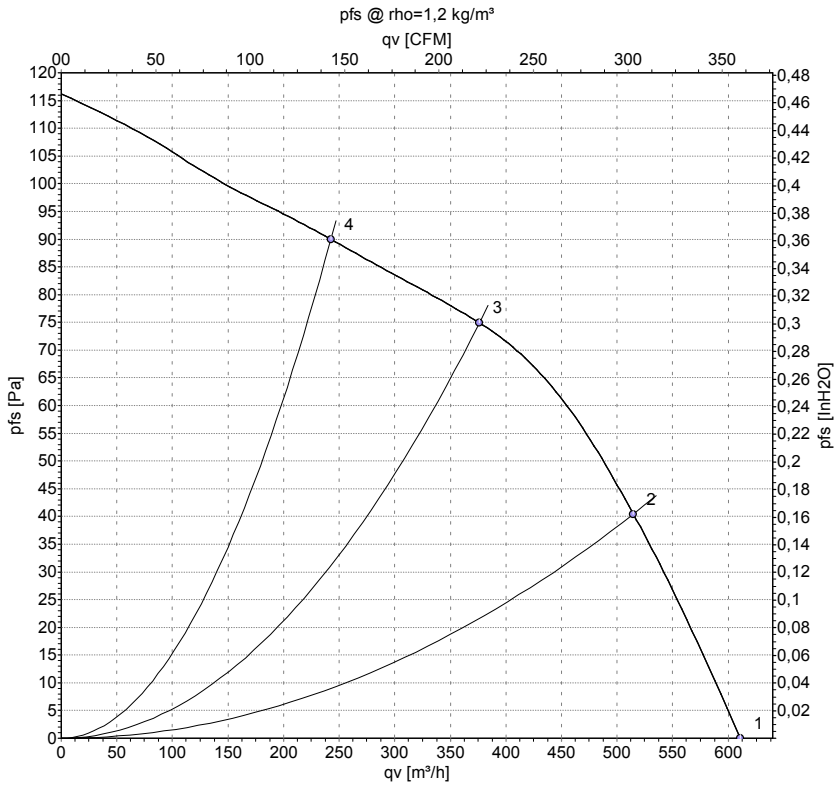
U1	blue	Z	brown	U2	black
PE	green/yellow				

AC centrifugal fan

forward curved, dual inlet

with housing (without flange)

Charts: Air flow 50 Hz



Measurement: LU-63225-1

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	910	50	0.22	610	0	360	0.00
2	230	50	1100	44	0.20	515	40	305	0.16
3	230	50	1245	39	0.18	375	75	220	0.30
4	230	50	1325	35	0.16	240	90	140	0.36

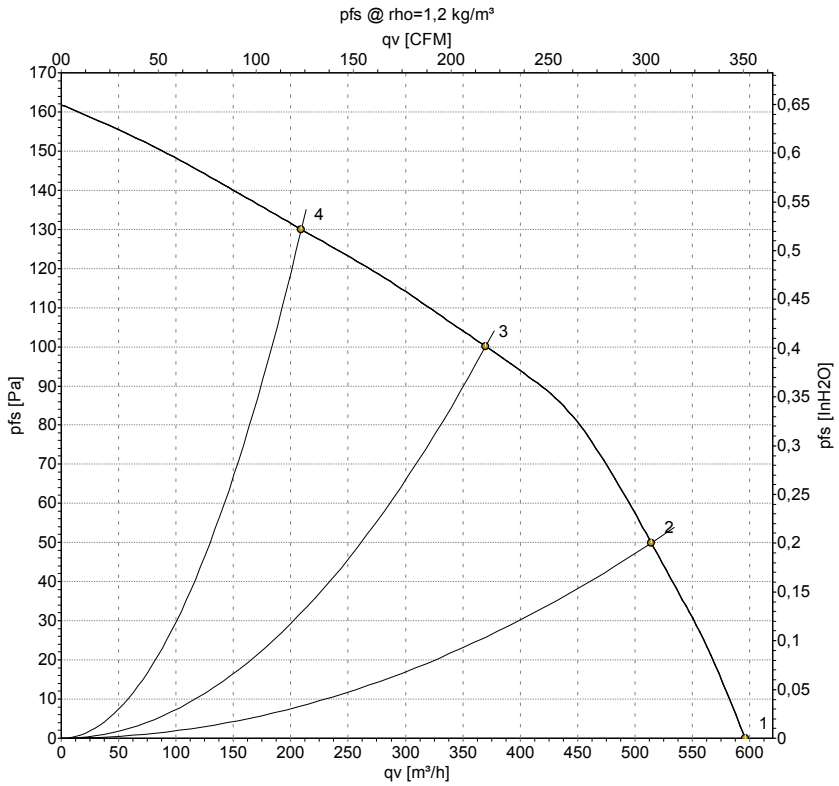
U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

AC centrifugal fan

forward curved, dual inlet

with housing (without flange)

Charts: Air flow 60 Hz



Measurement: LU-63226-1

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	60	910	55	0.24	595	0	350	0.00
2	230	60	1180	52	0.24	515	50	305	0.20
3	230	60	1425	45	0.22	370	100	220	0.40
4	230	60	1570	40	0.20	210	130	125	0.52

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