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County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

County court Stuttgart · HRB 590142

**Nominal data**

Type	D2E133-CI33-22		
Motor	M2E068-CF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min ⁻¹	1700	2100
Power input	W	175	190
Current draw	A	0.77	0.84
Motor capacitor	µF	4	4
Capacitor voltage	VDB	400	400
Min. back pressure	Pa	50	200
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	35	25
Starting current	A	0.84	0.88

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	25.1	25.1	32.1
Efficiency grade N	37	37	44
Power input P_e	kW	0.13	
Air flow q_v	m ³ /h	420	
Pressure increase p_{fs}	Pa	274	
Speed n	min ⁻¹	2365	

Data established at point of optimum efficiency



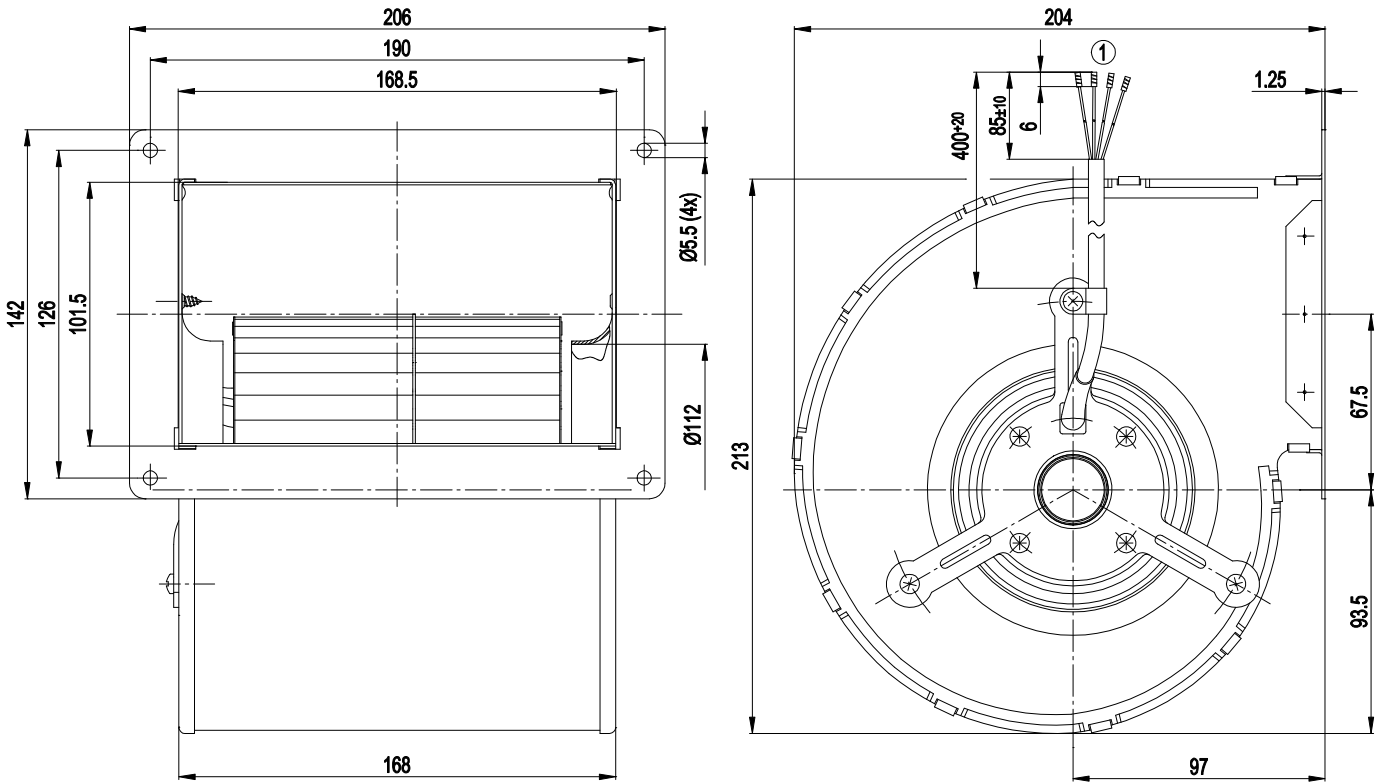
Technical features

Mass	3.1 kg
Size	133 mm
Surface of rotor	Partially cast in aluminium
Material of impeller	Sheet steel, hot-galvanised
Housing material	Sheet steel, hot-galvanised
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
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
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	CCC

AC centrifugal fan

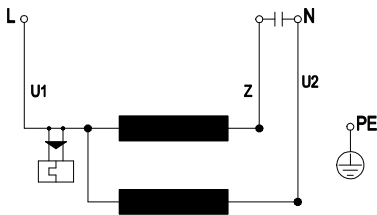
forward curved, dual inlet
with housing (flange)

Product drawing



1 Connection line PVC 4G 0.5mm², 4x brass lead tips crimped

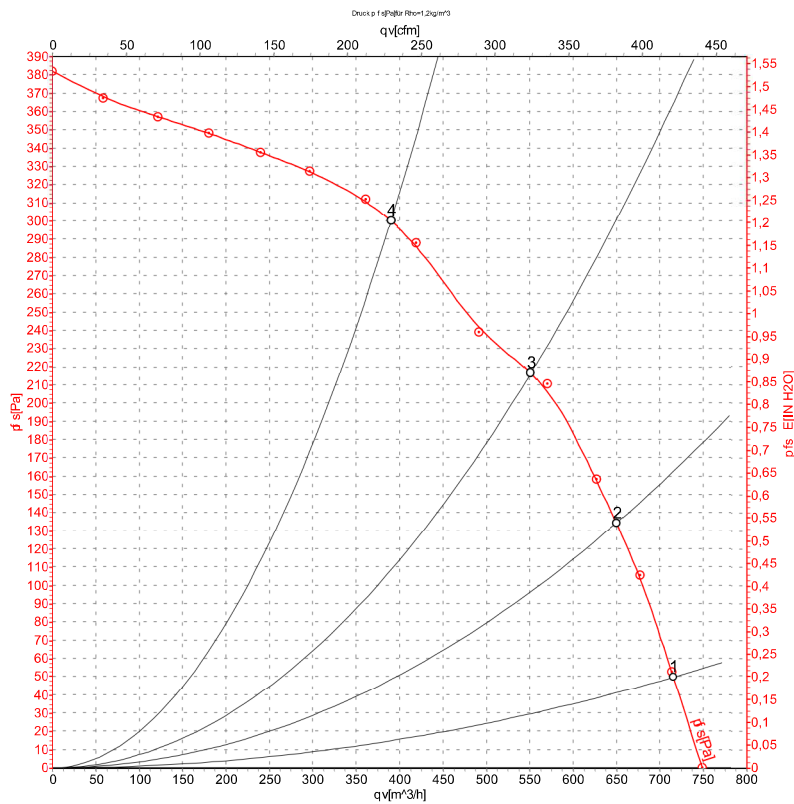
Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				



Charts: Air flow 50 Hz



Measurement: LU-105286

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: L_{WA} measured as per ISO 13347 /
 L_{pA} 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.

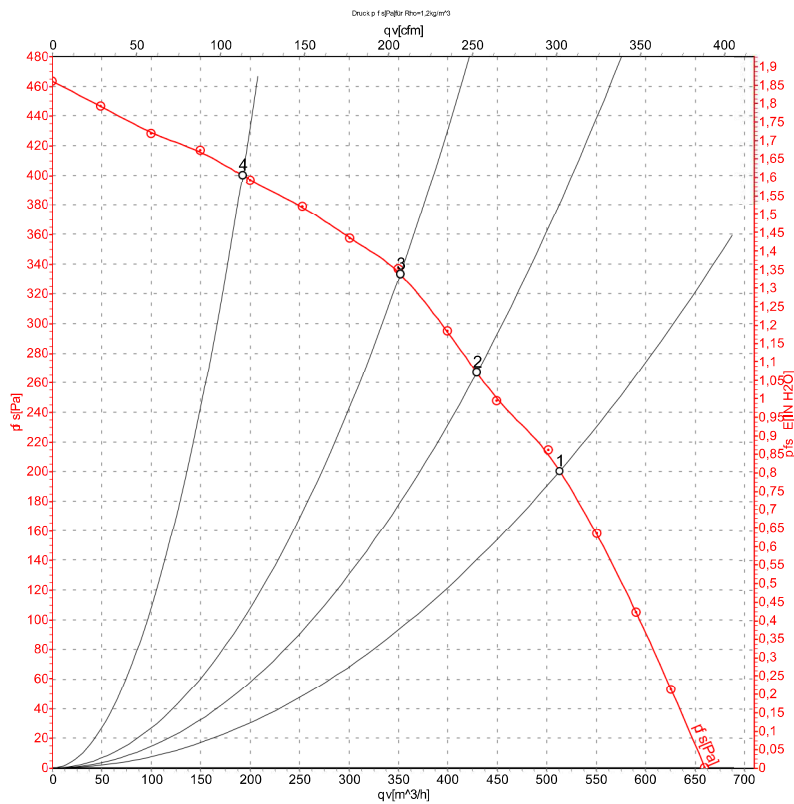
Measured values

	U	f	n	P _e	I	qv	p _{ts}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	50	1700	175	0.77	715	50
2	230	50	1900	159	0.69	650	135
3	230	50	2150	146	0.64	550	220
4	230	50	2415	129	0.56	390	300

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



Charts: Air flow 60 Hz



Measurement: LU-105290

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 _{ts}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	230	60	2100	190	0.84	515	200
2	230	60	2330	176	0.77	430	265
3	230	60	2535	171	0.75	350	335
4	230	60	2805	161	0.71	190	400

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

