D2E133-DX73-91

AC centrifugal fan

forward-curved, dual-intake

with housing (without flange)

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**D2E133-DX73-91**
Motor	**M2E068-DF**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		ml
Valid for approval/standard		-
Speed (rpm)	min^{-1}	1600
Power consumption	W	200
Current draw	A	0.88
Capacitor	µF	3
Capacitor voltage	VDB	450
Capacitor standard		S2 (CE)
Min. back pressure	Pa	110
Min. back pressure	in. wg	0.44
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60
Starting current	A	0.98

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	4.1 kg
Size	133 mm
Motor size	68
Rotor surface	Unpainted
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Motor suspension	Motor vibration-damped on both sides
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
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
Mode	S1
Motor mounting	Ball bearing
Speed levels	5
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Capacitor mounted
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Axial
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S2
Conformity with standards	EN 60335-1

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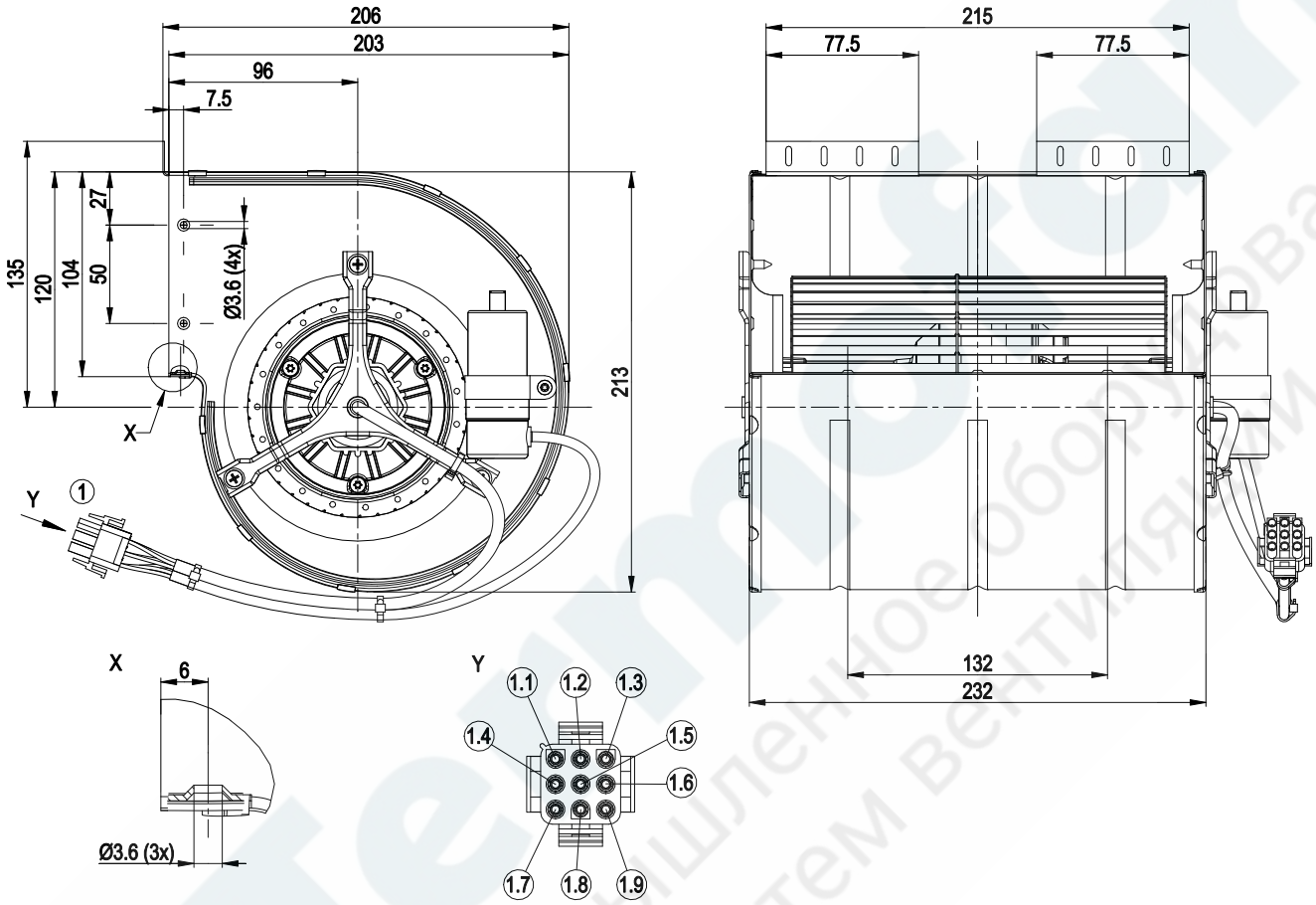
Product drawing



1	Cable ETFE AWG20
	9-pole connector housing TE 1-1863003-2, 6x plug pin TE 926885-1, 1x plug pin TE 350654-1, 2x plug pin TE926868-3
1.1	white
1.2	red
1.3	gray
1.4	orange
1.5	black
1.6	blue
1.7	green/yellow
1.8	yellow + capacitor
1.9	brown + capacitor

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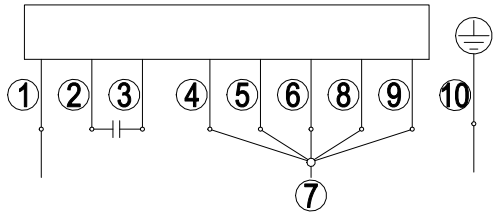
Connection diagram



Note: High speed (step V); low speed (step I)

1	= N = blue	2	brown	3	yellow
4	Step I white	5	Step II red	6	Step III gray
7	L1	8	Step IV orange	9	Step V black
10	PE				

Termofan
промышленное оборудование
для систем вентиляции

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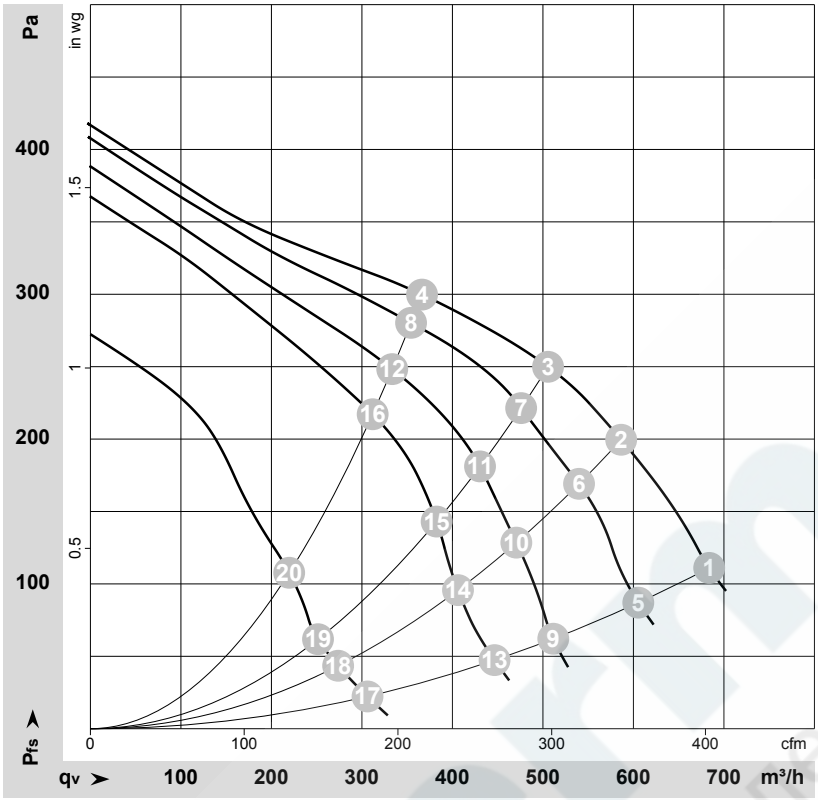
Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-32441-1
Measurement: LU-32442-1
Measurement: LU-32443-1
Measurement: LU-32444-1
Measurement: LU-32445-1

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	m^3/h	Pa	cfm	in. wg
1	5	230	50	1900	190	0.82	685	110	405	0.44
2	5	230	50	2155	176	0.76	585	200	345	0.80
3	5	230	50	2305	163	0.71	505	250	300	1.00
4	5	230	50	2495	146	0.63	365	300	215	1.20
5	4	230	50	1635	160	0.69	605	86	355	0.35
6	4	230	50	1965	148	0.65	540	169	320	0.68
7	4	230	50	2170	136	0.61	475	221	280	0.89
8	4	230	50	2410	121	0.55	355	280	210	1.12
9	3	230	50	1445	141	0.62	510	58	300	0.23
10	3	230	50	1735	134	0.59	470	128	275	0.51
11	3	230	50	1980	126	0.56	430	182	255	0.73
12	3	230	50	2280	109	0.51	335	251	195	1.01
13	2	230	50	1225	127	0.56	445	44	265	0.18
14	2	230	50	1510	122	0.55	405	94	240	0.38
15	2	230	50	1780	116	0.53	385	146	225	0.59
16	2	230	50	2125	103	0.48	310	217	185	0.87
17	1	230	50	825	98	0.44	305	21	180	0.08
18	1	230	50	990	97	0.44	275	39	160	0.16
19	1	230	50	1125	96	0.43	250	53	150	0.21
20	1	230	50	1515	91	0.42	220	109	130	0.44

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

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