

AC centrifugal fan

backward curved, single inlet

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Nominal data

Type	R2S133-AE17-43			
Motor	M2E052-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
Speed	min ⁻¹	2650	2950	2950
Power input	W	37	36	38
Current draw	A	0.24	0.21	
Min. back pressure	Pa	0	0	0
Min. ambient temperature	°C	-20	-20	-20
Max. ambient temperature	°C	45	65	65
Starting current	A	0.35	0.3	0.3

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



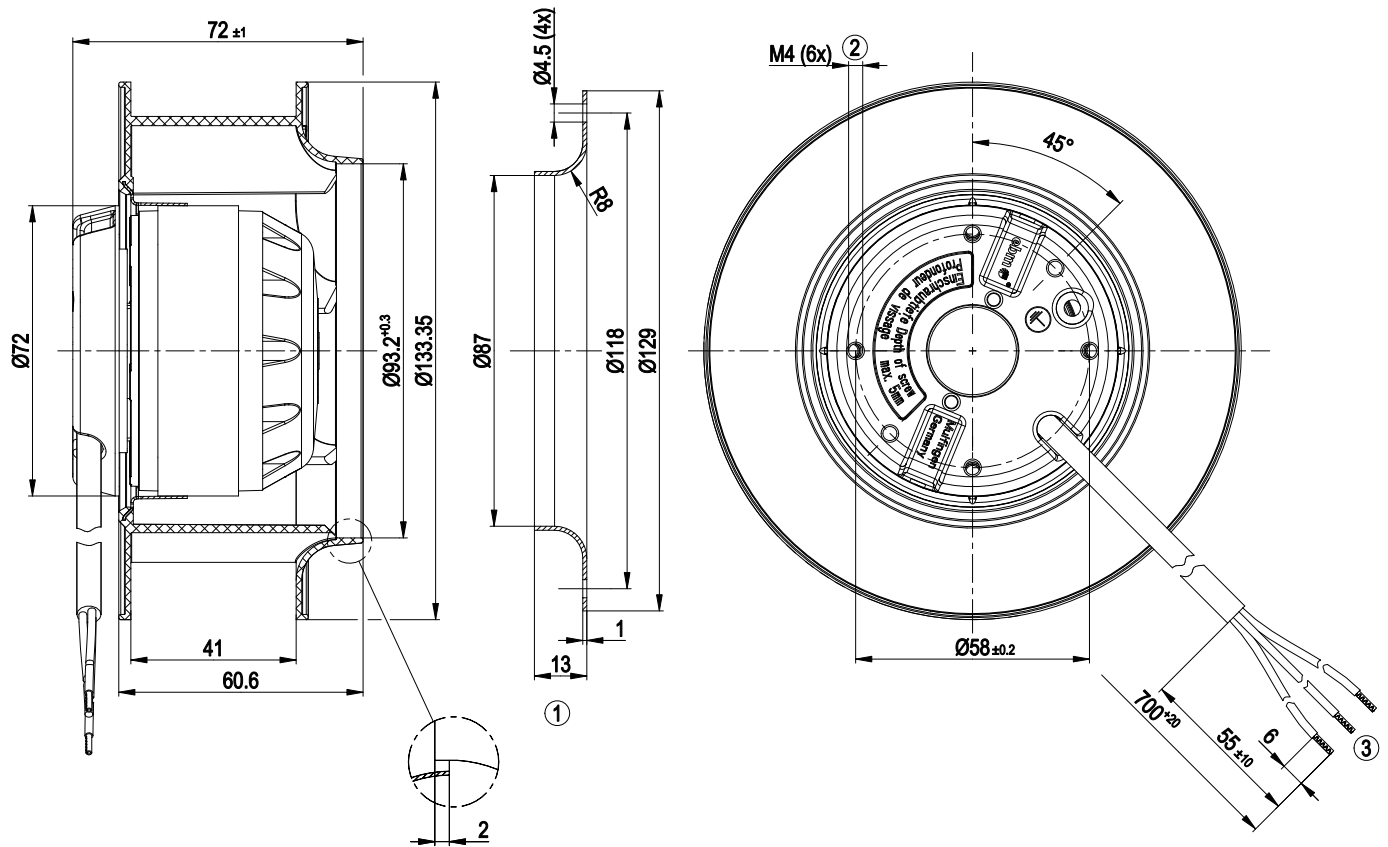
Technical features

Mass	0.7 kg
Size	133 mm
Surface of rotor	Coated in black
Material of impeller	PA plastic
Number of blades	7
Direction of rotation	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, horizontal preferred
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Twin 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	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CCC; CSA C22.2 Nr.77; EAC; UL 2111

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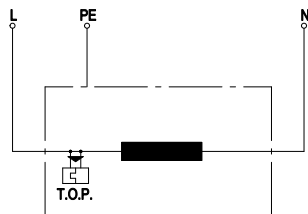
backward curved, single inlet

Product drawing



- | | |
|---|--|
| 1 | Accessory part: inlet nozzle 09566-2-4013, not included in scope of delivery |
| 2 | Depth of screw max. 5 mm |
| 3 | Connection line PVC 3G AWG20, 3x lead tips crimped |

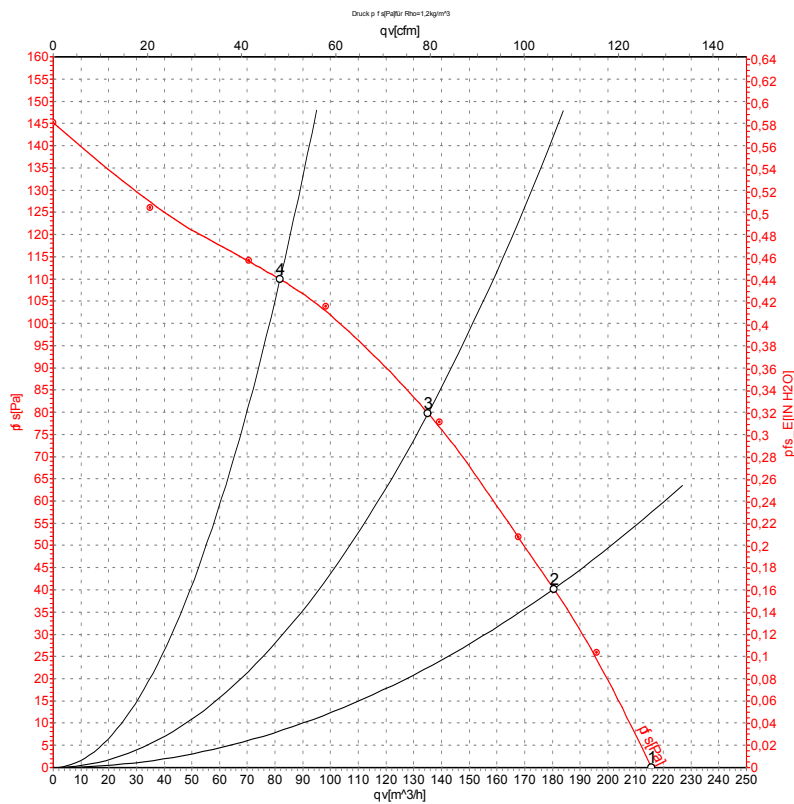
Connection screen



- | | |
|-----|------------------------------|
| L | = blue |
| PE | = green / yellow |
| N | = brown |
| TOP | = Thermal overload protector |



Charts: Air flow 50 Hz



Measurement: LU-61919

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 _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	230	50	2650	37	0.24	215	0
2	230	50	2630	38	0.24	180	40
3	230	50	2630	37	0.24	135	80
4	230	50	2655	37	0.24	80	110

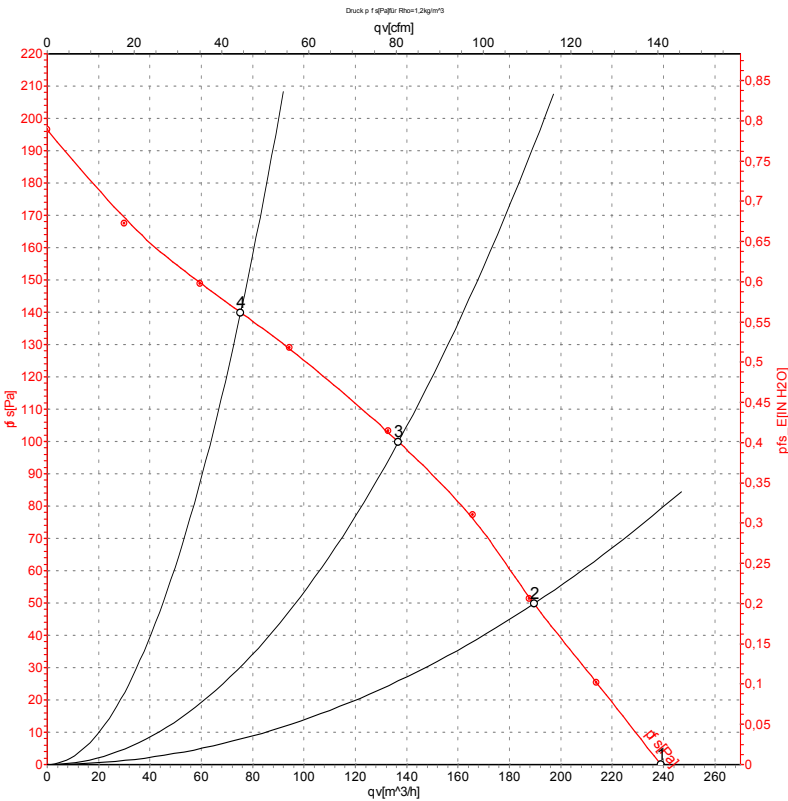
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase



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Charts: Air flow 60 Hz



Measurement: LU-61921

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 _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	230	60	2950	36	0.21	240	0
2	230	60	2810	38	0.22	190	50
3	230	60	2835	37	0.21	135	100
4	230	60	2960	35	0.21	75	140

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

