

R4E450-AB09-06

AC centrifugal fan

backward curved, single inlet



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Nominal data

Type	R4E450-AB09-06	
Motor	M4E094-HA	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed	min ⁻¹	1290
Power input	W	640
Current draw	A	3.1
Motor capacitor	μF	10
Capacitor voltage	VDB	400
Min. back pressure	Pa	0
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	50
Starting current	A	6.2

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

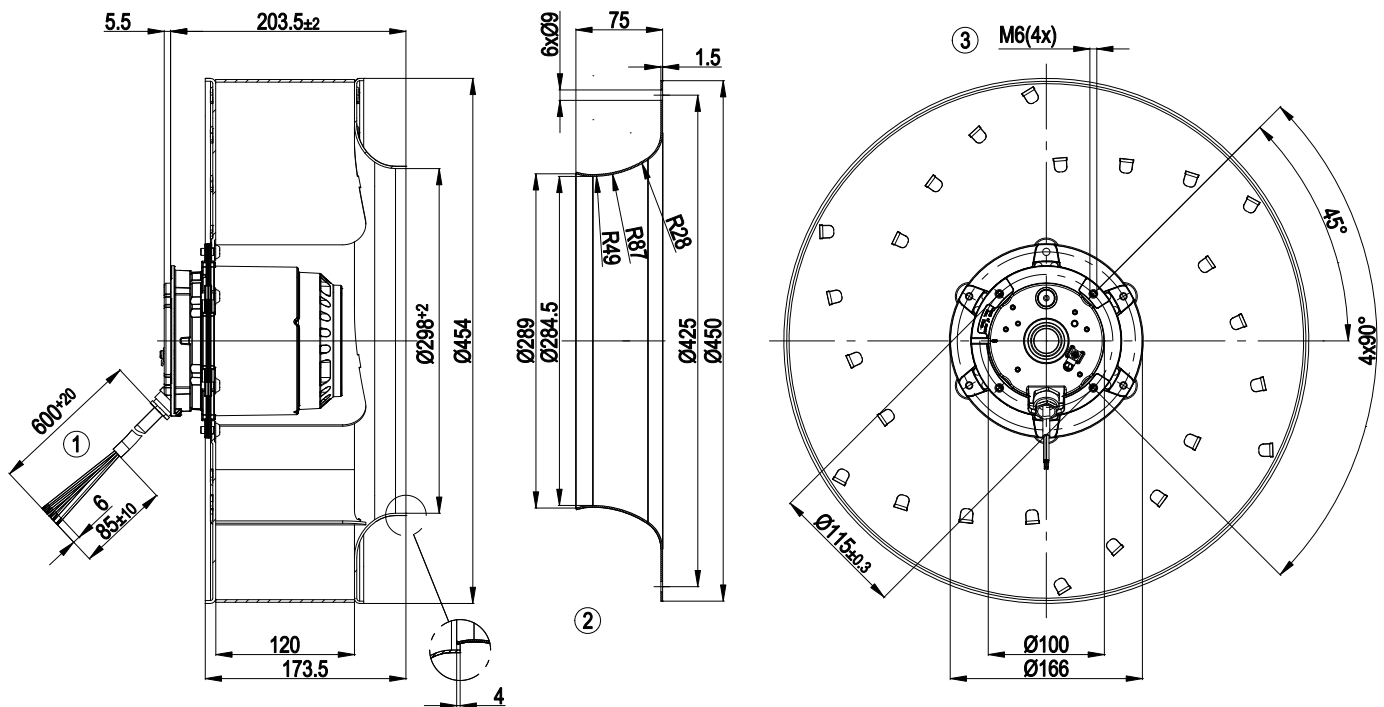
Mass	9.5 kg
Size	450 mm
Surface of rotor	Coated in black
Material of electronics housing	Rotor: Coated in black
Material of impeller	Aluminium sheet
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity class	F4-1
Max. permissible ambient 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)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60034
Approval	CCC; EAC



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Product drawing

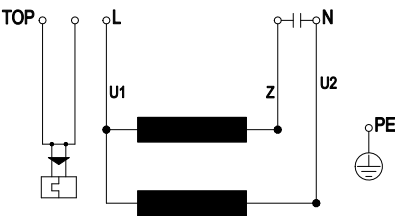


- | | |
|---|---|
| 1 | Connection line silicone 6G 0.5 mm ² , 6 x brass lead tips crimped |
| 2 | Accessory part: inlet nozzle 63045-2-4013, not included in the standard scope of delivery; other inlet nozzles on request |
| 3 | Depth of screw max. 12 mm |

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Connection screen



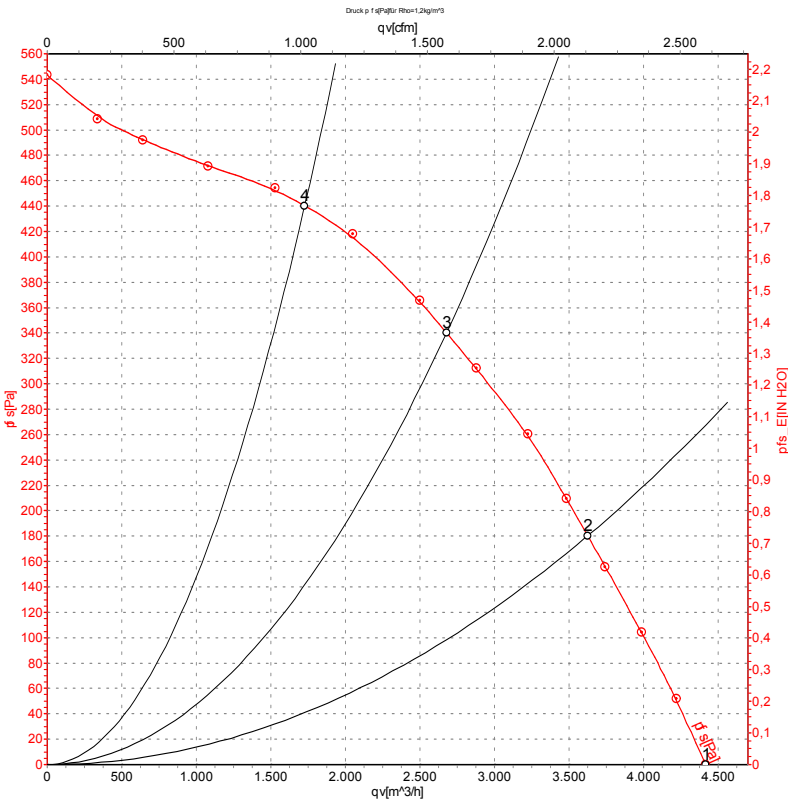
TOP	2 x grey	U1	blue	Z	brown
U2	black	PE	green / yellow		



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Charts: Air flow 50 Hz



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	m³/h	Pa
1	230	50	1385	445	2.27	4415	0
2	230	50	1320	588	2.88	3625	180
3	230	50	1290	640	3.10	2680	340
4	230	50	1325	573	2.80	1725	440

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

