R2E140-BR64-03

AC centrifugal fan

forward curved

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Nominal data

Type	**R2E140-BR64-03**		
Motor	**M2E052-CA**		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		fa	ml
Valid for approval / standard		CE	CE
Speed	min^{-1}	1200	1800
Power input	W	77	75
Current draw	A	0.34	0.33
Motor capacitor	µF	2	2
Capacitor voltage	VDB	400	400
Min. back pressure	Pa	0	150
Min. ambient temperature	°C	-20	-20
Max. ambient temperature	°C	25	25

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

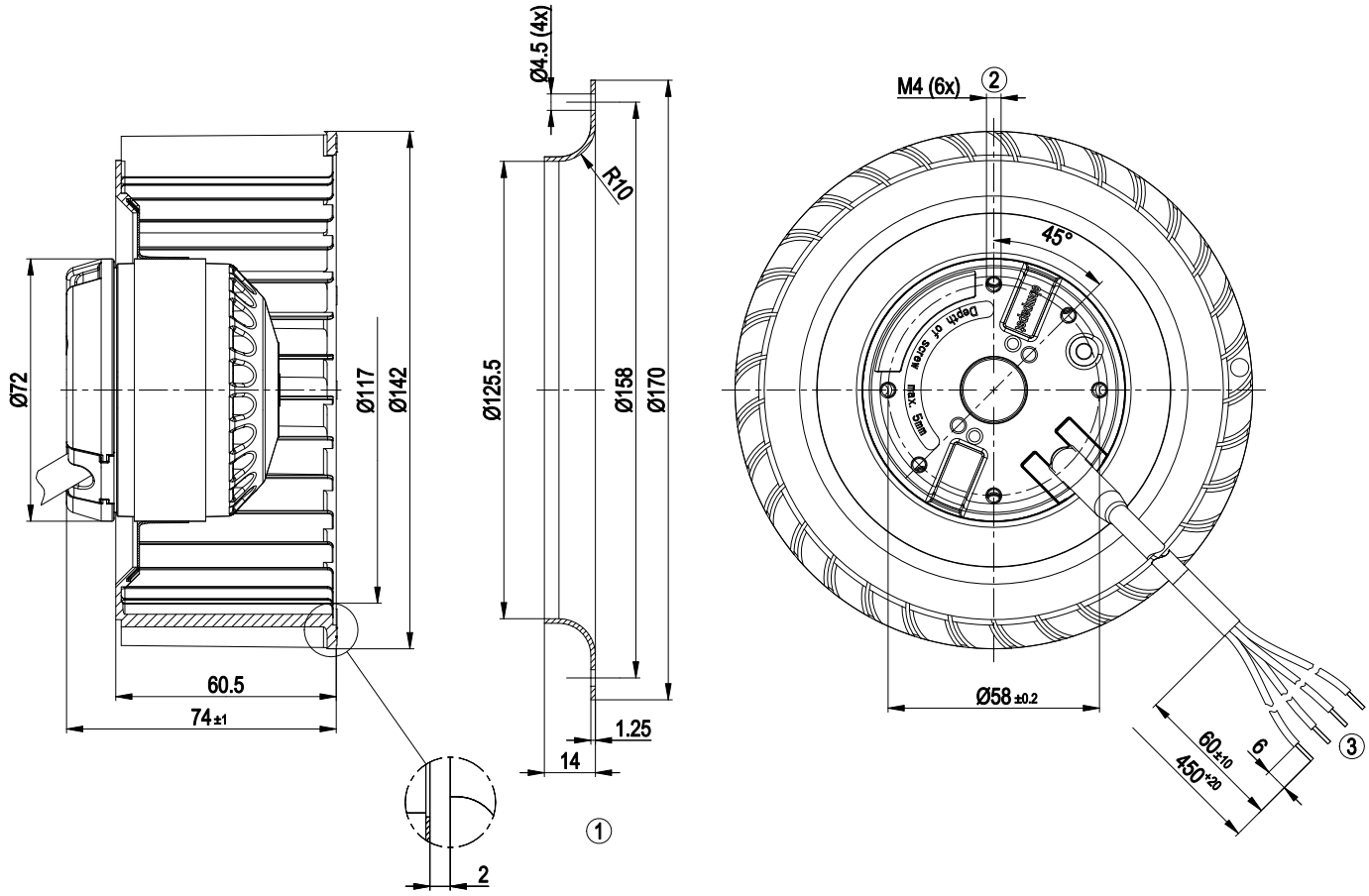
Mass	0.8 kg
Size	140 mm
Material of impeller	PA6 plastic
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 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

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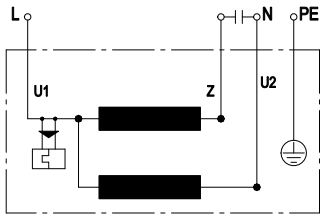
forward curved

Product drawing



1	Inlet nozzle accessory part 09576-2-4013 (not included in scope of delivery)
2	Depth of screw max. 5 mm
3	Connection line H03VV-F4G0.5, 6 mm bared

Connection screen



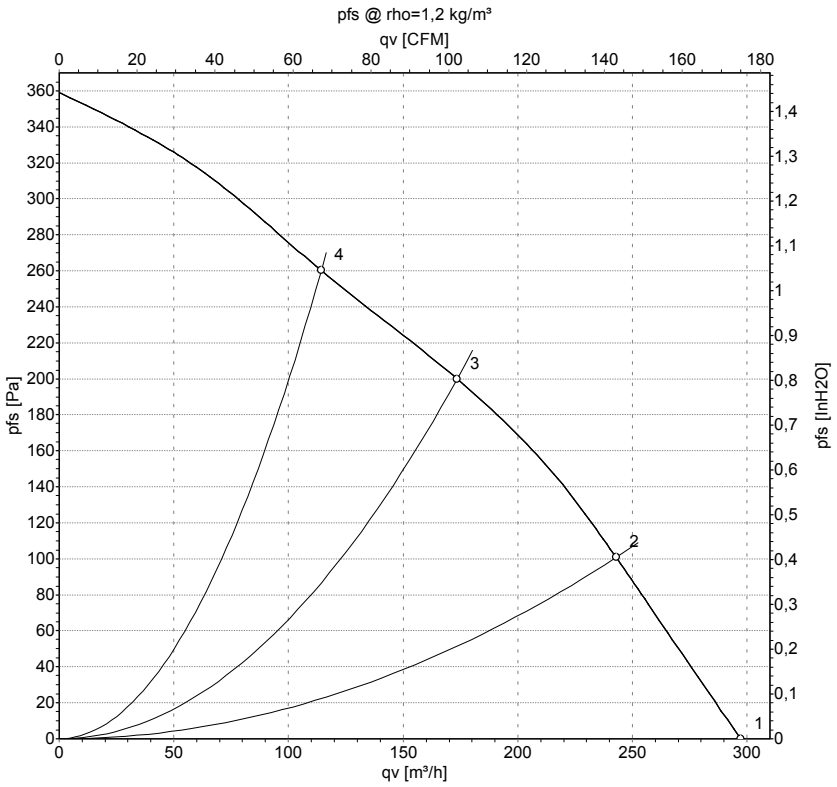
U1	blue	Z	brown	U2	black
PE	green/yellow				

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Charts: Air flow 50 Hz



Measurement: LU-72405

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_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	230	50	1200	77	0.34	295	0
2	230	50	1495	75	0.33	245	100
3	230	50	1955	72	0.31	175	200
4	230	50	2225	69	0.30	115	260

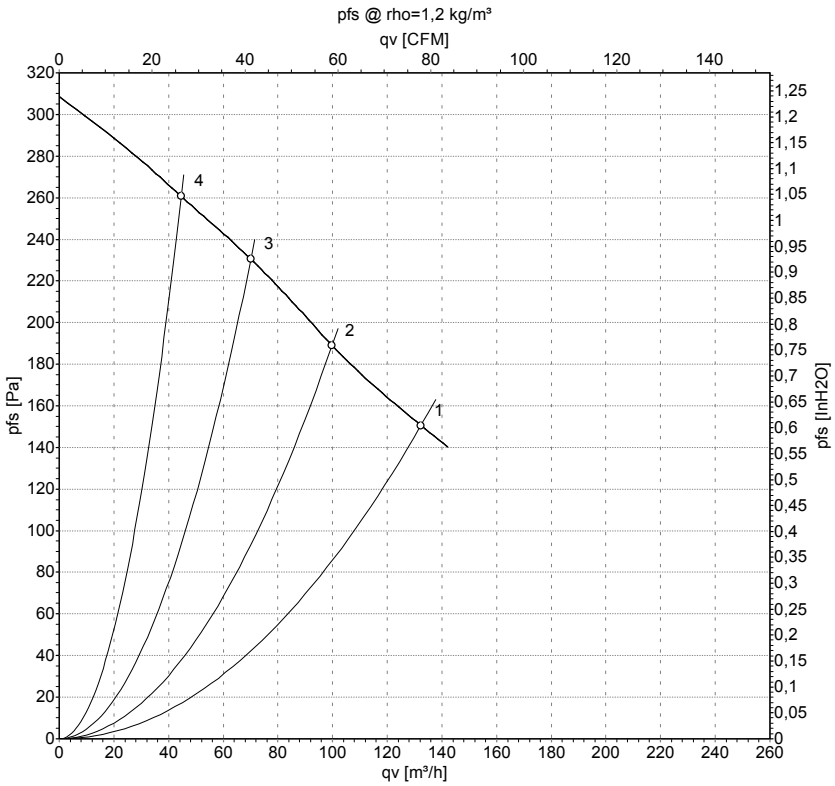
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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Charts: Air flow 60 Hz



Measurement: LU-72406

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_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	230	60	1800	75	0.33	130	150
2	230	60	1915	75	0.33	100	190
3	230	60	2050	75	0.33	70	230
4	230	60	2140	75	0.33	45	260

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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