

R2E225-BD40-28

AC centrifugal fan

backward-curved

ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2 · D-74673 Muldingen

Phone +49 7938 81-0

Fax +49 7938 81-110

info1@de.ebmpapst.com

www.ebmpapst.com

Limited partnership · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	R2E225-BD40-28		
Motor	M2E068-DF		
Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2700	3050
Power consumption	W	142	195
Current draw	A	1.25	1.7
Capacitor	μF	16	16
Capacitor voltage	VDB	250	250
Min. back pressure	Pa	0	0
Min. back pressure	inH2O	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	60

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

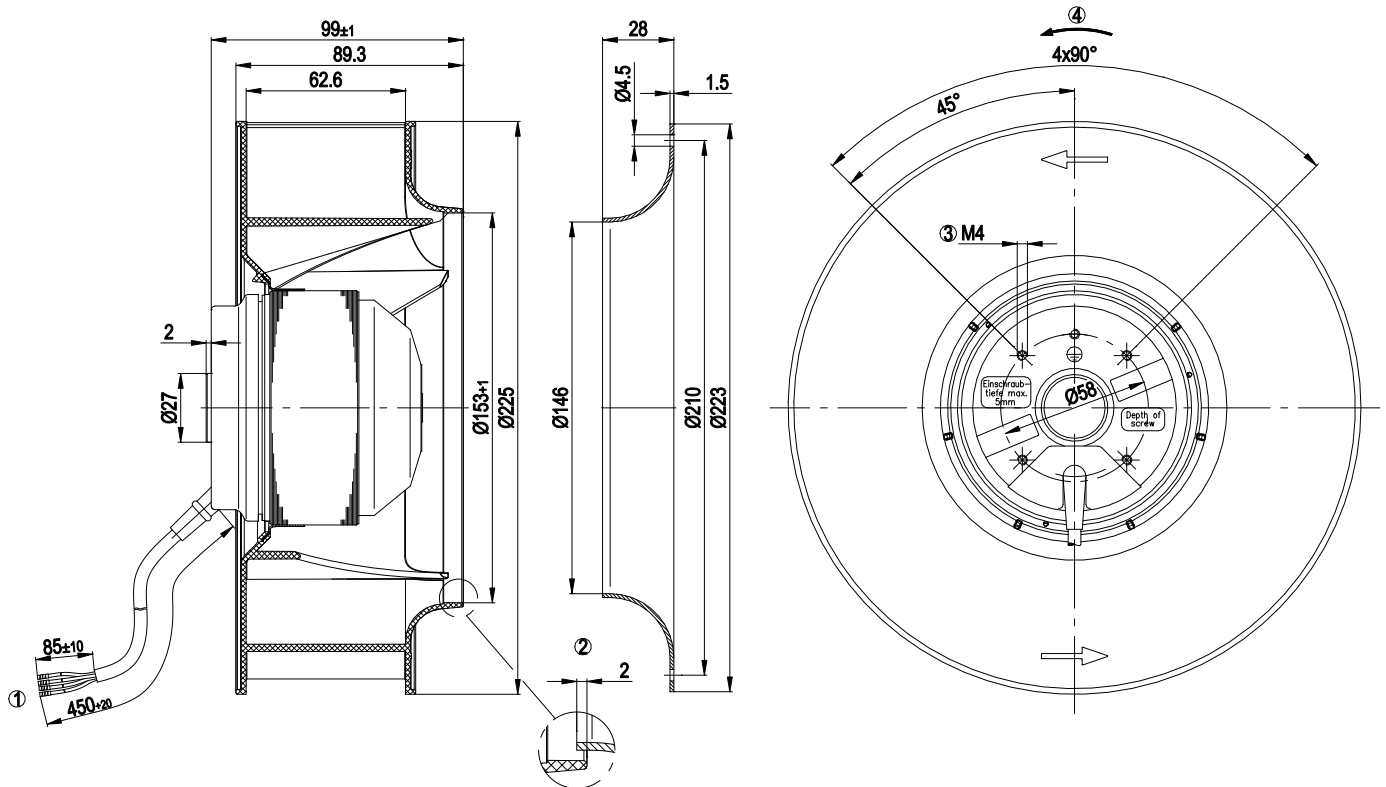
Technical description

Weight	2.26 kg
Fan size	225 mm
Rotor surface	Painted black
Impeller material	PA 6 plastic
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H0+
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CCC; UL 1004-1; CSA C22.2 No. 100

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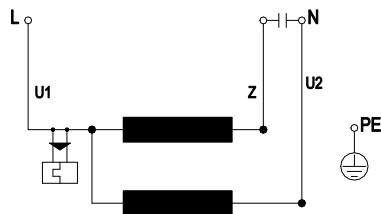
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Product drawing



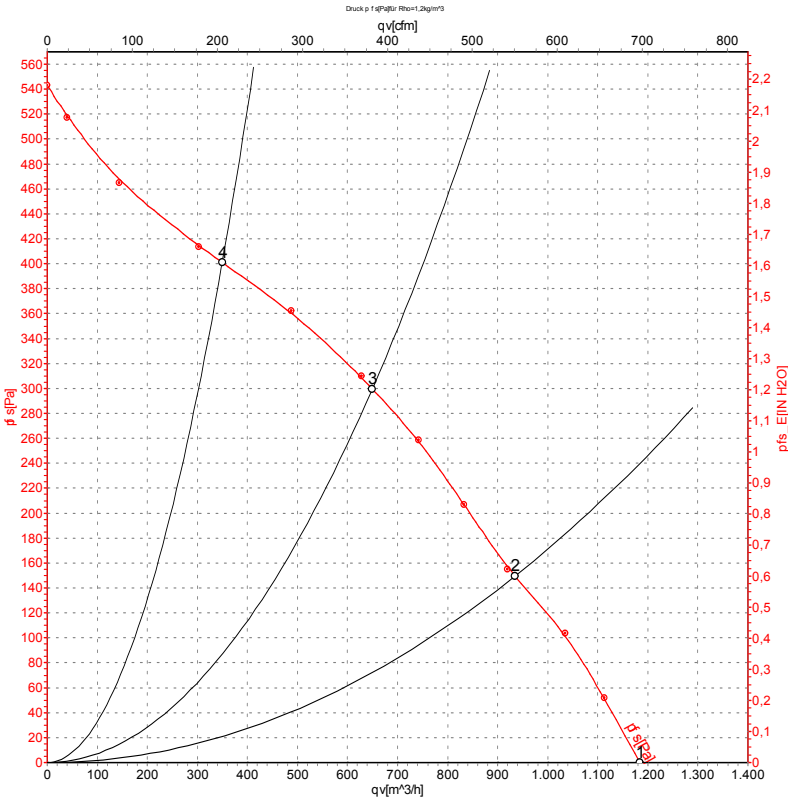
1	Cable Raychem AWG 20, 4x crimped splices
2	Accessory part: inlet ring 96358-2-4013 not included in scope of delivery.
3	Max. clearance for screw 5 mm
4	Direction of rotation clockwise, viewed toward rotor

Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				

Curves: Air performance 50 Hz



Measurement: LU-54262-1

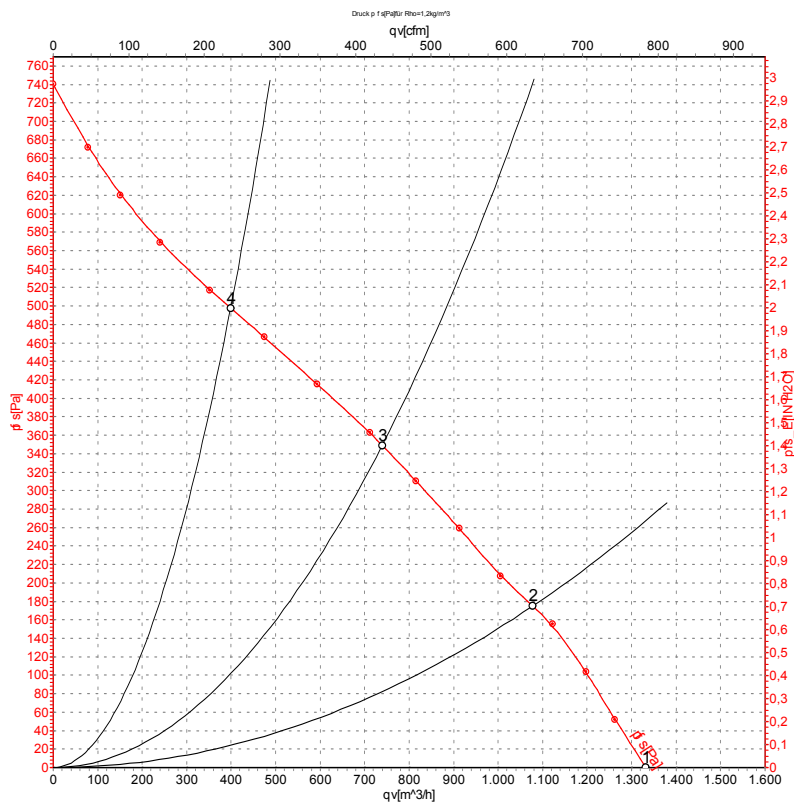
Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the 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

	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	CFM	inH2O
1	115	50	2700	142	1.25	69	76	1185	0	695	0.00
2	115	50	2655	151	1.36	64	72	935	150	550	0.60
3	115	50	2605	162	1.44	61	69	650	300	385	1.20
4	115	50	2660	149	1.34	63	71	350	400	205	1.61

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
qv = Air flow · p_{fs} = Pressure increase

Curves: Air performance 60 Hz



Measurement: LU-54261-1

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

	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa	CFM	inH ₂ O
1	115	60	3050	195	1.70	71	78	1330	0	785	0.00
2	115	60	2950	211	1.84	67	75	1080	175	635	0.70
3	115	60	2845	224	1.95	64	72	740	350	435	1.41
4	115	60	2960	209	1.82	66	74	400	500	235	2.01

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · Lp_{A_{in}} = Sound pressure level intake side · Lw_{A_{in}} = Sound power level intake side
qv = Air flow · p_{ts} = Pressure increase

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