

R4E355-AG02-09

AC centrifugal fan

backward-curved, single-intake



ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2 · D-74673 Mulfingen

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	R4E355-AG02-09	
Motor	M4E074-GA	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		fa
Valid for approval/standard		CE
Speed (rpm)	min ⁻¹	1430
Power consumption	W	210
Current draw	A	0.97
Capacitor	µF	7
Capacitor voltage	VDB	400
Capacitor standard		S0 (CE)
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	30
Starting current	A	2.6

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

Data according to ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_s	%	45.4	45.4
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		62	62
05 Variable speed drive		No	

Data obtained at optimum efficiency level.

The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

09 Power consumption P_e	kW	0.26
09 Air flow q_v	m ³ /h	1685
09 Pressure increase p_{fs}	Pa	250
10 Speed (rpm) n	min ⁻¹	1395
11 Specific ratio	*	1.00

· Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

LU-37971



ebmpapst

Technical description

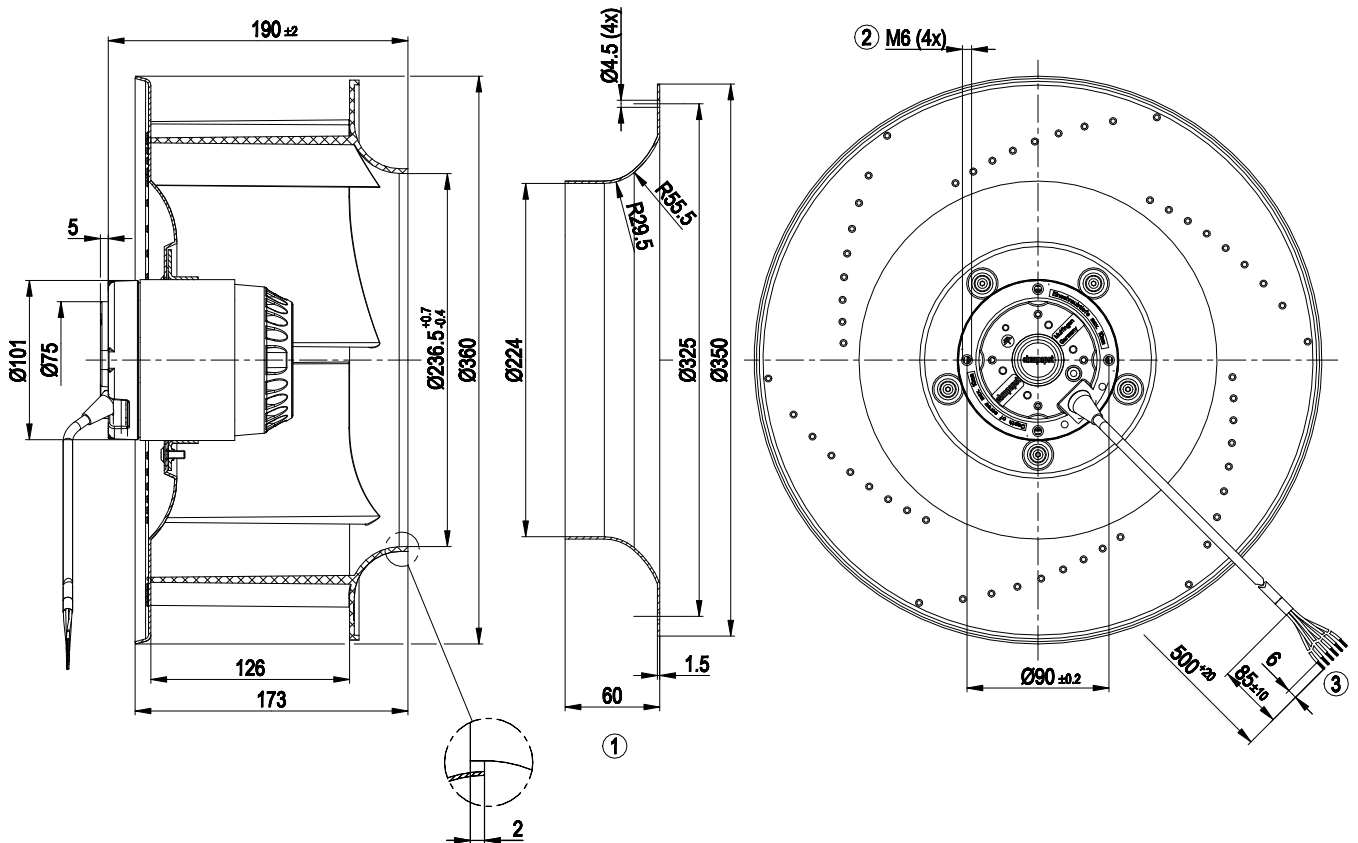
Weight	5.4 kg
Fan size	355 mm
Motor size	74
Rotor surface	Painted black
Impeller material	PP plastic
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44
Degree of protection	Depending on installation position acc. to EN 60034-5
Insulation class	«B»
Moisture (F) / Environmental (H) protection class	H1
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) brought out, with basic insulation
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	EAC



AC centrifugal fan

backward-curved, single-intake

Product drawing

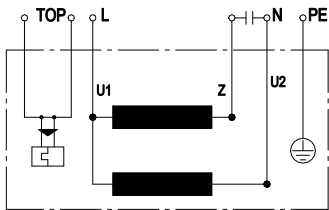


- | | |
|---|---|
| 1 | Accessory part: inlet ring 51357-2-4013, not included in scope of delivery. Other inlet rings on request. |
| 2 | Max. clearance for screw 10 mm |
| 3 | Connection line PVC 6G 0.5 mm ² , 6 crimped wire end sleeves |

AC centrifugal fan

backward-curved, single-intake

Connection diagram



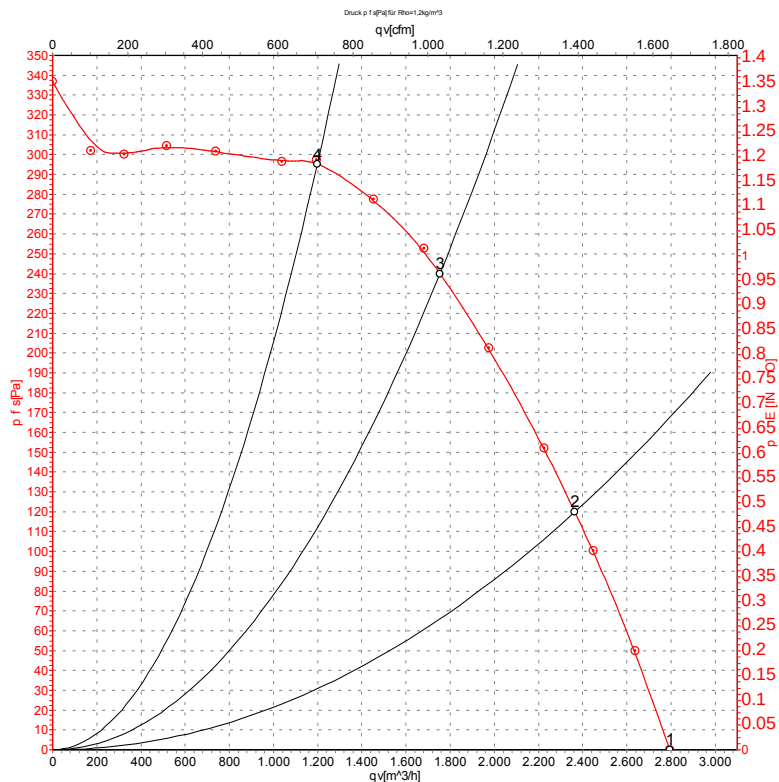
U1	blue	Z	brown	U2	black
PE	green/yellow	TOP	2 x white		



AC centrifugal fan

backward-curved, single-intake

Curves: Air performance 50 Hz



Measurement: LU-37971-1

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 must be checked in the installed unit.

Measured values

	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	230	50	1430	210	0.97	2795	0	1645	0.00
2	230	50	1415	244	1.13	2365	120	1390	0.48
3	230	50	1395	268	1.22	1755	240	1030	0.96
4	230	50	1405	255	1.17	1200	300	705	1.20

U = Power supply · f = Frequency · n = Speed (rpm) · P

e = Power consumption · I = Current draw · q_v = Air flow · p

fs = Pressure increase

