

KARTA KATALOGOWA

R4E355-AG02-05

Wentylator promieniowy AC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst



Zdjęcie poglądowe

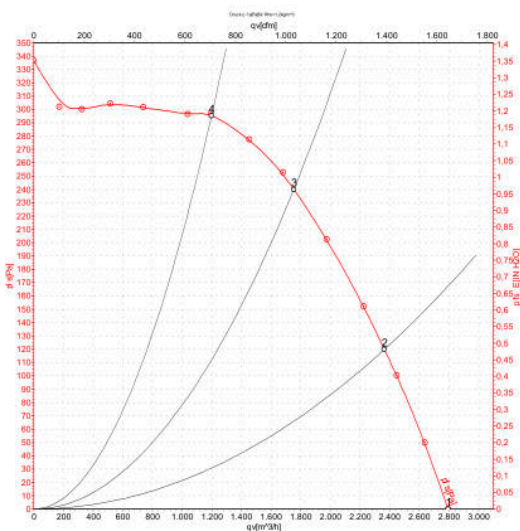
Dane znamionowe	
Napięcie znamionowe	1~ 230 V
Częstotliwość	50 Hz
Prędkość obrotowa	1430 obr/min
Pobór mocy	210 W
Pobór prądu	0,97 A
Kondensator	7 µF / 400 V
Maks. wydajność	2795 m³/h
Maks. ciśnienie statyczne	300 Pa
Temperatura otoczenia	-25...+30 °C

Dane ErP (UE 327/2011)	
Sprawność całkowita	45,4 %
Przepływ w pkt. optymalnym	1685 m³/h
Przyrost ciśnienia	250 Pa
Regulacja obrotów	nie

Budowa	
Średnica wirnika	355 mm
Materiał wirnika	tworzywo PP
Liczba łopatek	6
Stopień ochrony	IP44
Klasa izolacji	B
Zabezpieczenie silnika	termik (TOP)
Masa	5,4 kg

Charakterystyka przepływowa

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. Initial 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.

Dane na podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).
Wartości dla 50 Hz / 60 Hz; producent zastrzega możliwość zmian.

Dobór, wycena i dostawa – zapytaj LUFTBERG

tel. +48 600 100 371 · tel. +48 604 959 199
biuro@luftberg.pl · www.luftberg.pl

R4E355-AG02-05

AC centrifugal fan

backward-curved, single-intake

Nominal data

Type	R4E355-AG02-05	
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. back pressure	inH2O	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_{es}	%	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	m³/h	1685
09 Pressure increase p_{fs}	Pa	250
10 Speed (rpm) n	min ⁻¹	1395
11 Specific ratio*		1.00

* Specific ratio = $1 + p_b / 100\,000\text{ Pa}$ LU-37971



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Technical description

Weight	5.4 kg
Fan size	355 mm
Rotor surface	Painted black
Impeller material	PP plastic
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
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	EAC

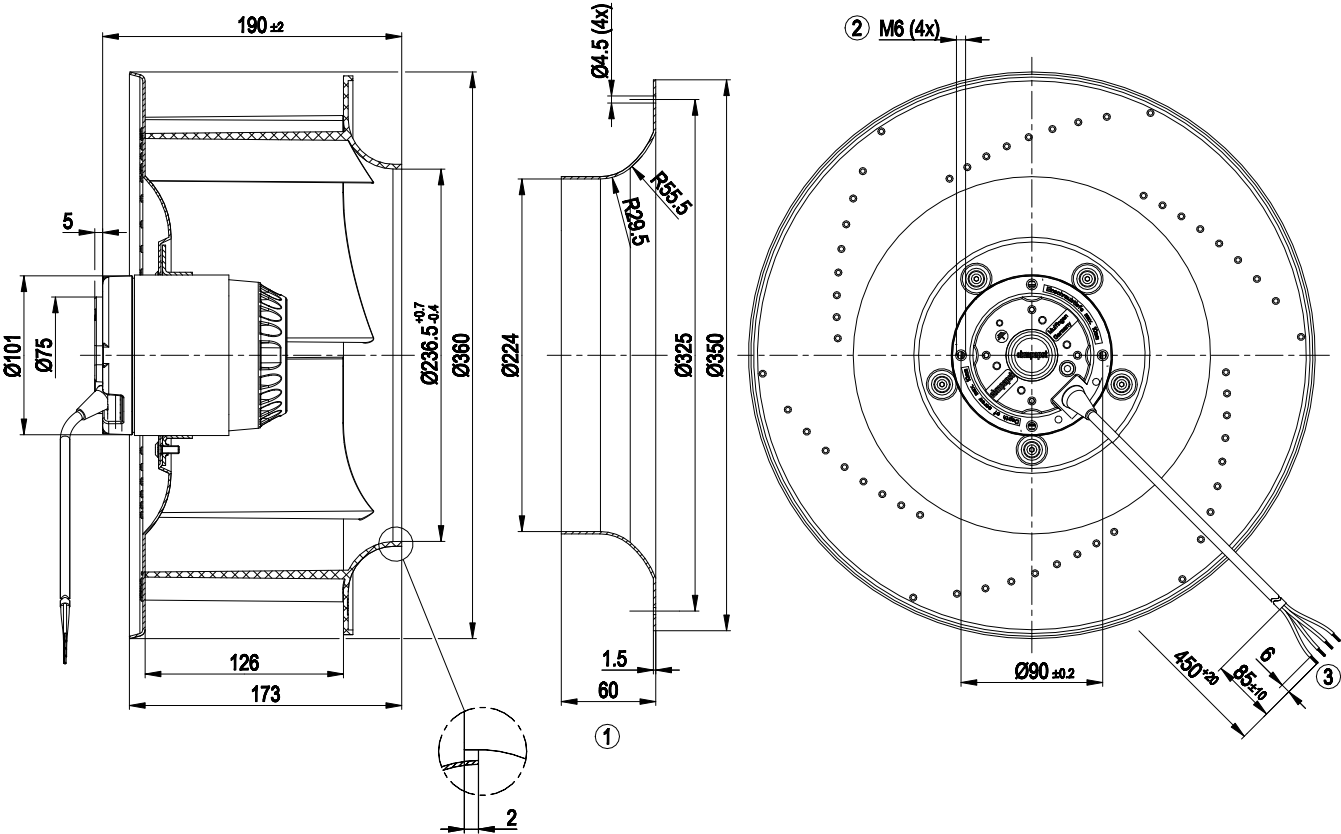


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AC centrifugal fan

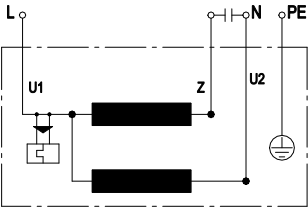
backward-curved, single-intake

Product drawing



- | | |
|---|--|
| 1 | Accessory part: inlet ring 51357-2-4013, not included in scope of delivery |
| 2 | Max. clearance for screw 10 mm |
| 3 | Cable PVC 4G 0.5 mm², 4x crimped splices |

Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				

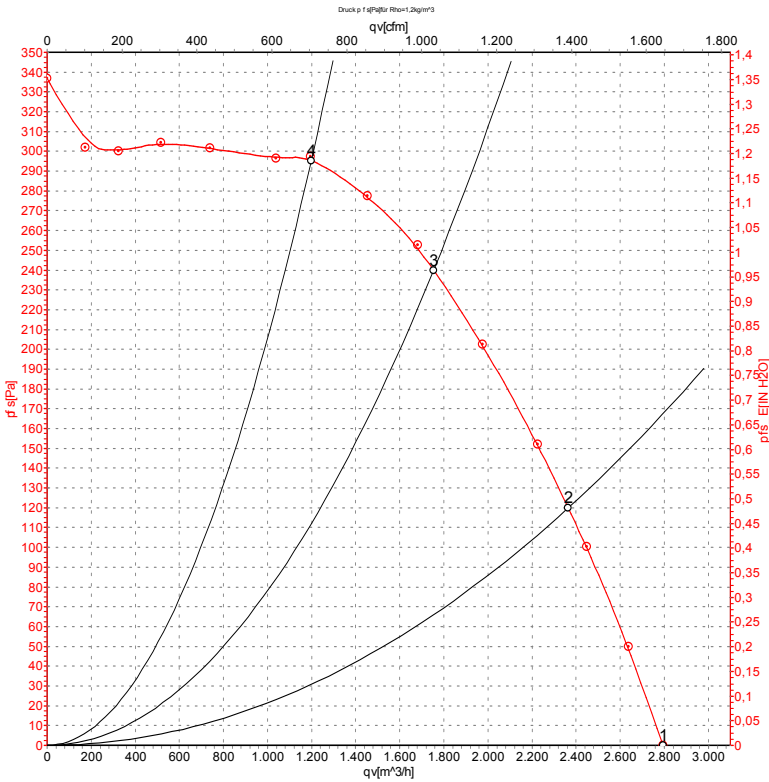


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AC centrifugal fan

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 have to be checked on 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	m ³ /h	Pa	cfm	inH ₂ O
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

