

R4E355-AL02-05

AC centrifugal fan

backward-curved, single-intake



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Nominal data

Type	R4E355-AL02-05	
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	1420
Power consumption	W	245
Current draw	A	1.12
Capacitor	µF	8
Capacitor voltage	VDB	400
Capacitor standard		P0 (CE)
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50
Starting current	A	5.5

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

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio *	1.00

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

	Actual	Req. 2013	Req. 2015
Overall efficiency η	43	41.9	45.9
Efficiency grade N	59.1	58	62
Power consumption P_e	kW	0.29	
Air flow q_v	m ³ /h	1840	
Pressure increase p_{fs}	Pa	251	
Speed (rpm) n	min ⁻¹	1390	

Data obtained at optimum efficiency level.



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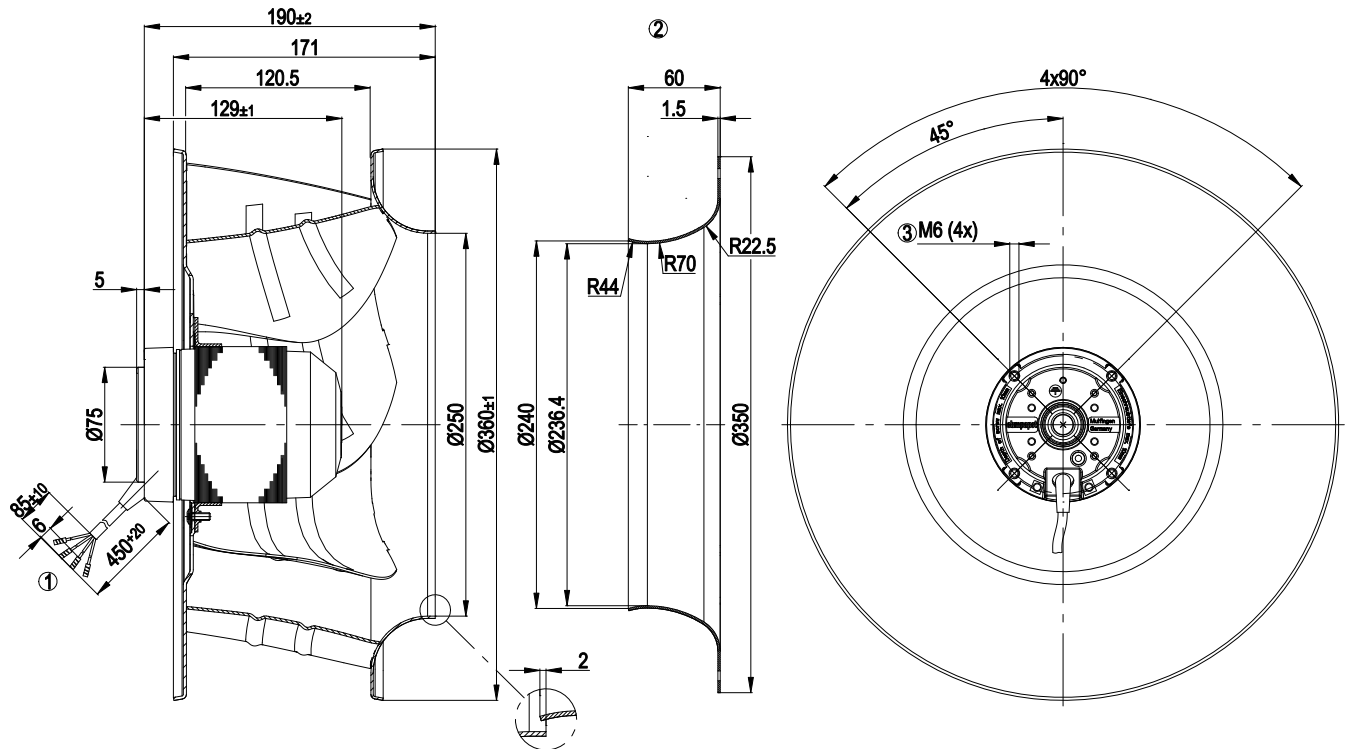
Technical description

Weight	5.44 kg
Motor size	355 mm
Rotor surface	Painted black
Impeller material	Aluminum sheet, laser-welded
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP 44; installation- and position-dependent as per EN 60034-5
Insulation class	«F»
Moisture protection class	F1-2
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 for motor	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

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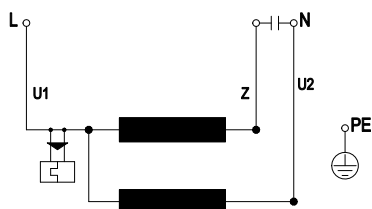
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Product drawing



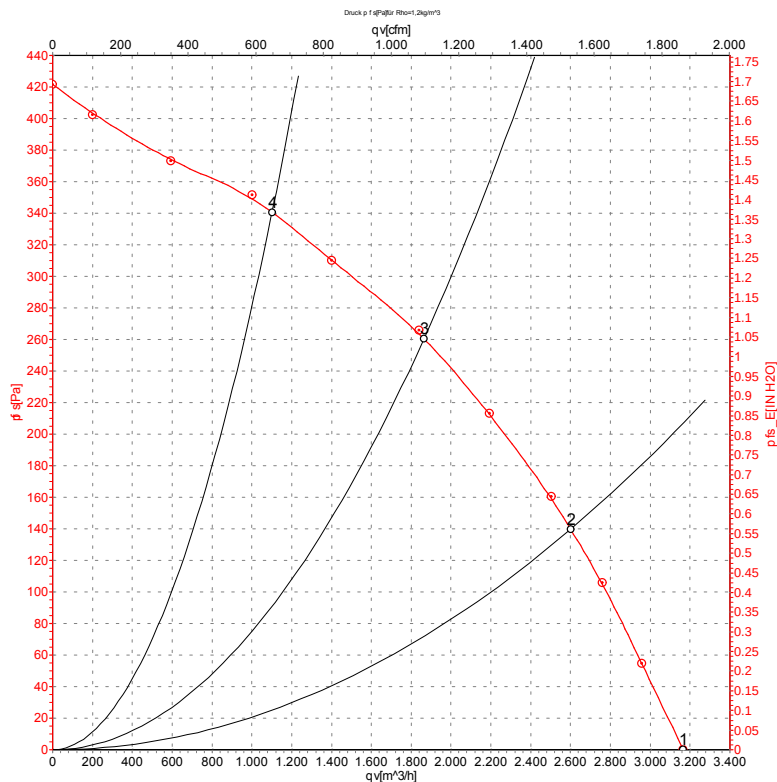
- | | |
|---|---|
| 1 | Connection cable silicone 4 x 0,5 mm ² |
| 2 | Accessory part: inlet ring 35560-2-4013 not included in scope of delivery |
| 3 | Max. clearance for screw 10 mm |

Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				

Curves: Air performance 50 Hz



Measurement: LU-106561

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	qv	P _{ts}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	50	1420	245	1.12	3165	0
2	230	50	1400	288	1.28	2600	140
3	230	50	1390	298	1.32	1865	260
4	230	50	1410	271	1.22	1100	340

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

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

ts = Pressure increase