

KARTA KATALOGOWA

R2E160-AY50-26

Wentylator promieniowy AC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst



Zdjęcie poglądowe

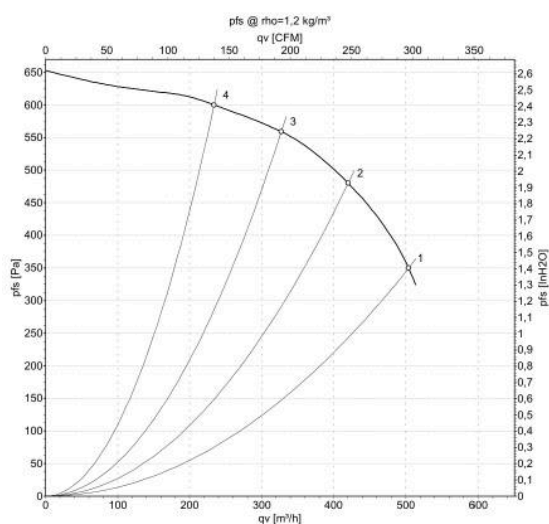
Dane znamionowe	
Napięcie znamionowe	1~ 230 V
Częstotliwość	50/60 Hz
Prędkość obrotowa	2500 / 2550 obr/min
Pobór mocy	210 / 280 W
Pobór prądu	0,93 / 1,22 A
Kondensator	6 µF / 400 V
Maks. wydajność	505 m³/h
Maks. ciśnienie statyczne	600 Pa
Temperatura otoczenia	-25...+50 °C (60 Hz: +30 °C)

Dane ErP (UE 327/2011)	
Sprawność całkowita	32,6 %
Przepływ w pkt. optymalnym	355 m³/h
Przyrost ciśnienia	525 Pa
Regulacja obrotów	nie

Budowa	
Średnica wirnika	160 mm
Materiał wirnika	stal ocynkowana
Stopień ochrony	IP44
Klasa izolacji	B
Zabezpieczenie silnika	termik (TOP)
Masa	2,6 kg

Charakterystyka przepływowa

Charts: Air flow 50 Hz



Measurement: LU-152519

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.

Dane na podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).

Wartości dla 50 Hz / 60 Hz; producent zastrzega możliwość zmian.

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R2E160-AY50-26

AC centrifugal fan

backward curved, single inlet

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Nominal data

Type	R2E160-AY50-26		
Motor	M2E068-EC		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min ⁻¹	2500	2550
Power input	W	210	280
Current draw	A	0.93	1.22
Motor capacitor	µF	6	6
Capacitor voltage	VDB	400	400
Capacitor standard		P0 (CE)	P0 (CE)
Min. back pressure	Pa	350	365
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	30
Starting current	A	1.73	1.63

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
 Subject to alterations

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.01

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

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	32.6	25.6	32.6
Efficiency grade N		44	37	44
Power input P_e	kW	0.16		
Air flow q_v	m³/h	355		
Pressure increase p_{fs}	Pa	525		
Speed n	min ⁻¹	2685		

Data definition with optimum efficiency. LU-152519
 The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



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backward curved, single inlet

Technical features

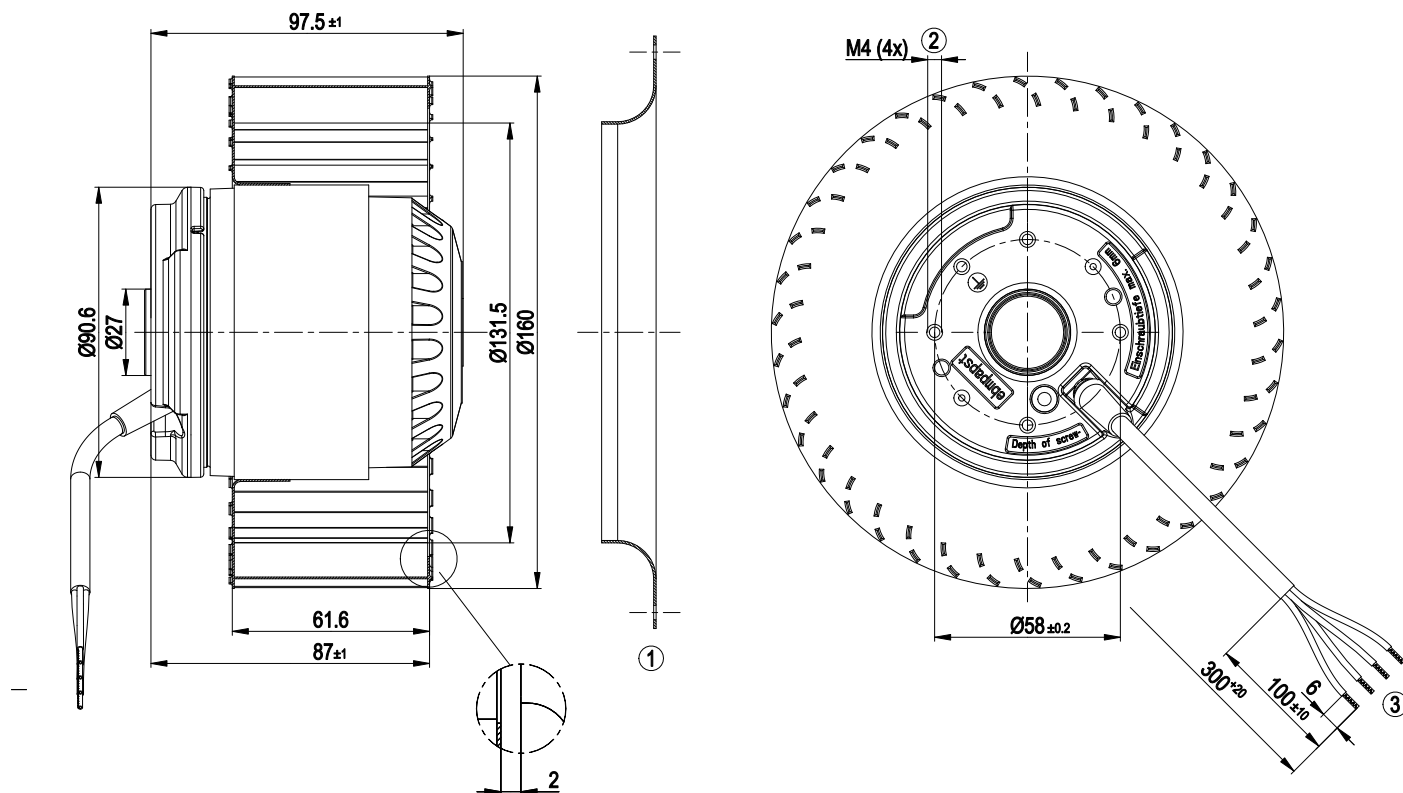
Mass	2.6 kg
Size	160 mm
Surface of rotor	Uncoated
Material of impeller	Sheet steel, galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"B"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball 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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Product drawing



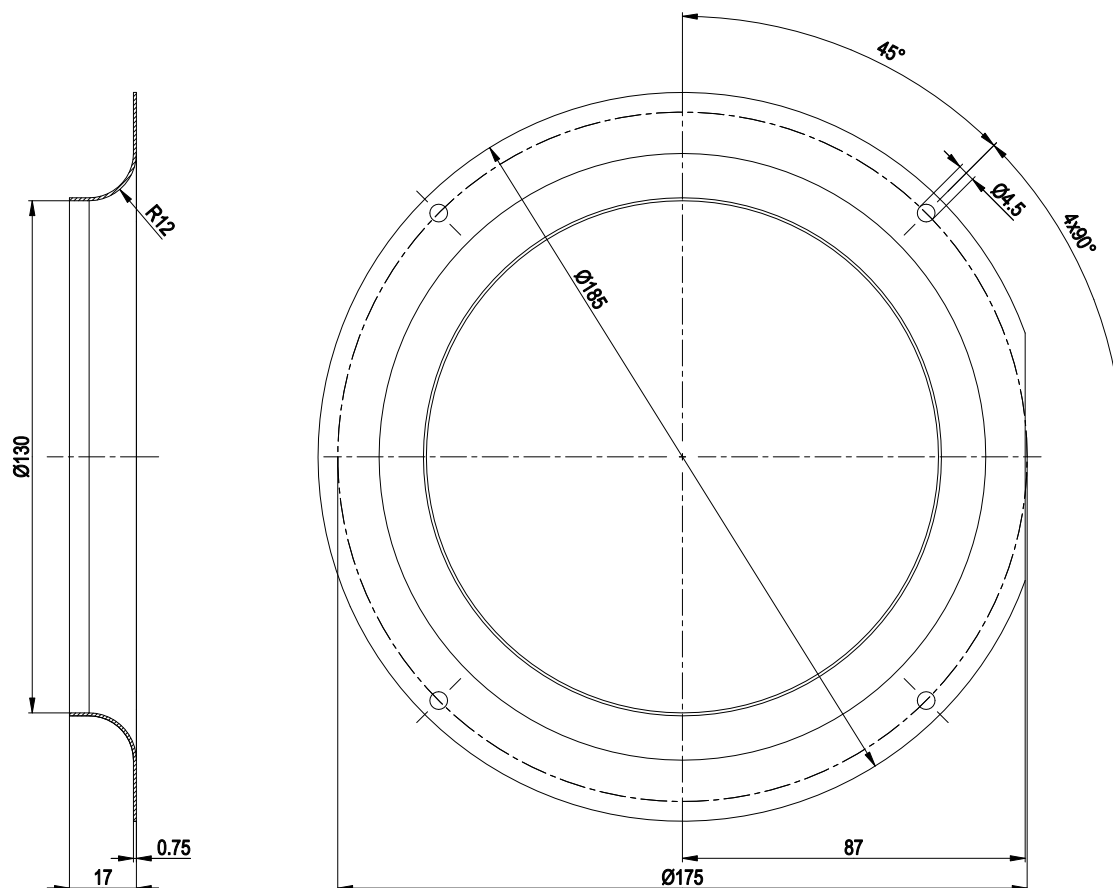
- | | |
|---|---|
| 1 | Accessory part: Inlet nozzle 09588-2-4013 not included in scope of delivery |
| 2 | Thread reach max. 6 mm |
| 3 | Connection line PVC AWG20, 4x lead tips crimped |

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AC centrifugal fan

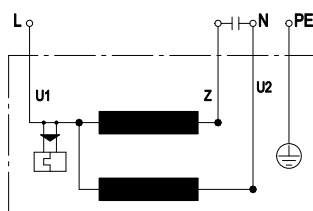
backward curved, single inlet

Accessory part



Accessory part: inlet nozzle 09588-2-4013 not included in scope of delivery

Connection screen



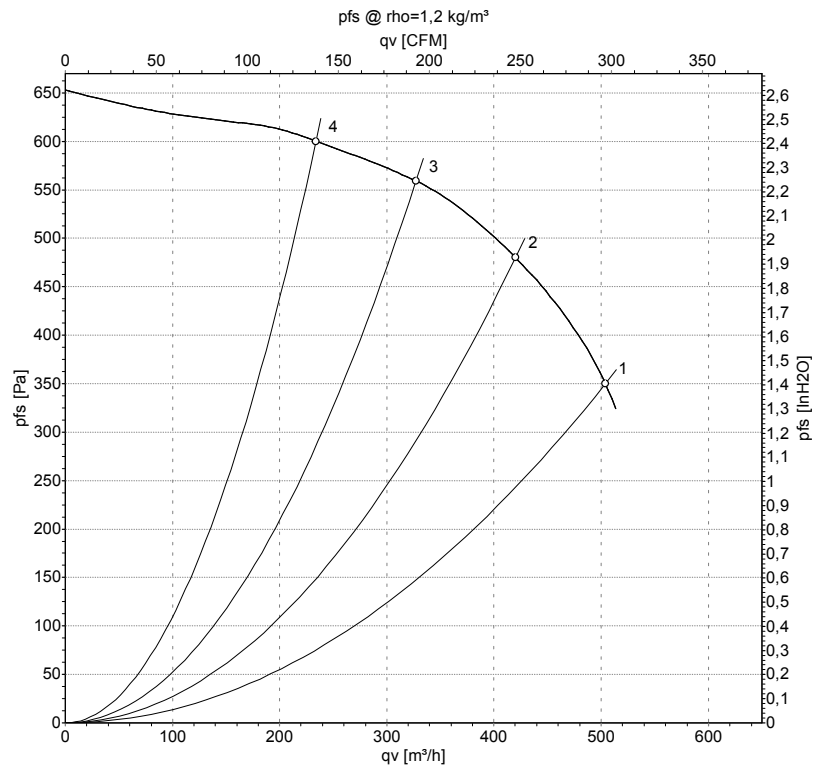
U1	blue	Z	brown	U2	black
PE	green/yellow				

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AC centrifugal fan

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Charts: Air flow 50 Hz



Measurement: LU-152519

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	LpA _{in}	LwA _{in}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa
1	230	50	2500	210	0.93	70	78	505	350
2	230	50	2615	182	0.79	70	77	420	480
3	230	50	2700	157	0.68	70	76	325	560
4	230	50	2770	137	0.59	71	78	235	600

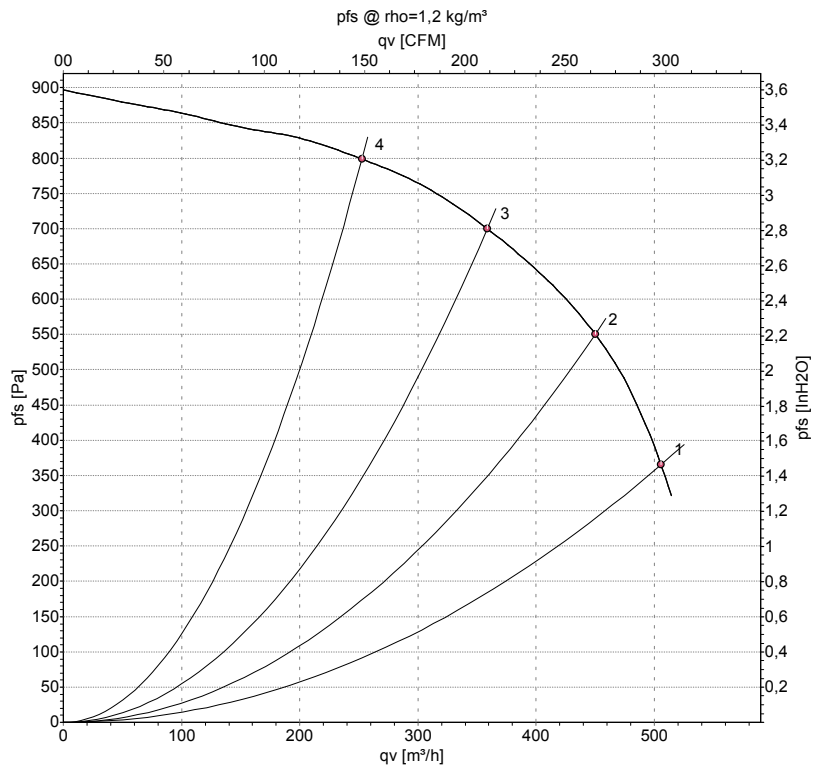
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · qv = Air flow
p_{fs} = Pressure increase

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AC centrifugal fan

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Charts: Air flow 60 Hz



Measurement: LU-153104

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	m³/h	Pa
1	230	60	2550	280	1.22	505	365
2	230	60	2805	254	1.11	450	550
3	230	60	3035	222	0.98	360	700
4	230	60	3205	189	0.86	255	800

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

