

KARTA KATALOGOWA

R2D270-AB12-09

Wentylator promieniowy AC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst

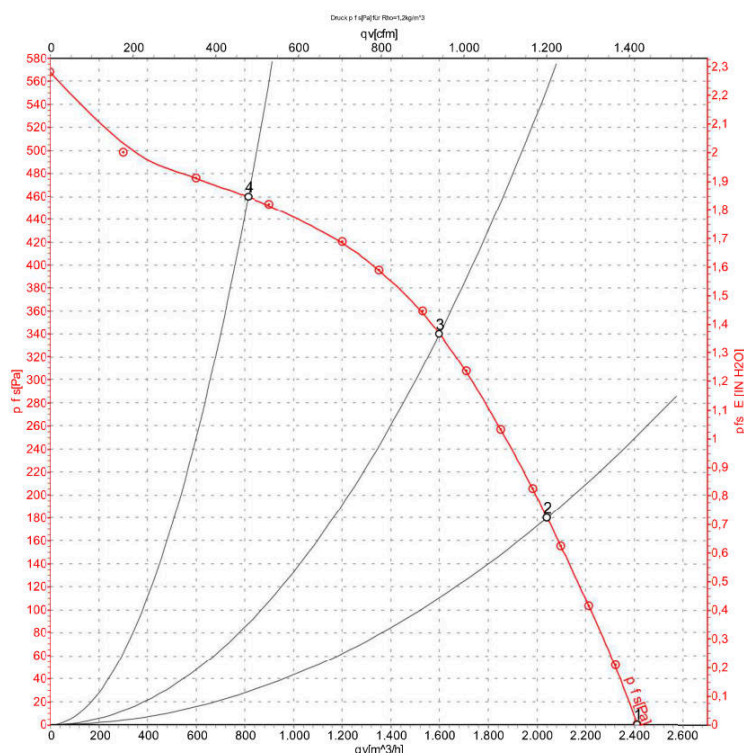


Zdjęcie poglądowe

Dane znamionowe		Budowa	
Napięcie znamionowe	3~ 400 V	Średnica wirnika	270 mm
Częstotliwość	50/60 Hz	Materiał wirnika	blacha aluminiowa
Prędkość obrotowa	2710 / 2980 obr/min	Liczba łopatek	11
Pobór mocy	375 / 560 W	Stopień ochrony	IP54
Pobór prądu	0,68 / 0,91 A	Klasa izolacji	F
Maks. wydajność	2415 m³/h	Zabezpieczenie silnika	termik (TOP)
Maks. ciśnienie statyczne	460 Pa	Masa	4,4 kg
Temperatura otoczenia	-25...+80 °C (60 Hz: +56 °C)		

Charakterystyka przepływowa

Curves: Air performance 50 Hz



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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R2D270-AB12-09

AC centrifugal fan

backward-curved

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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	R2D270-AB12-09		
Motor	M2D074-EI		
Phase		3~	3~
Nominal voltage	VAC	400	400
Wiring		Y	Y
Frequency	Hz	50	60
Method of obtaining data		ml/ce	ml/ce
Valid for approval/standard		-	-
Speed (rpm)	min ⁻¹	2710	2980
Power consumption	W	375	560
Current draw	A	0.68	0.91
Min. back pressure	Pa	0	0
Min. back pressure	in. wg	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	80	56

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



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Technical description

Weight	4.4 kg
Size	270 mm
Motor size	74
Rotor surface	Painted black
Impeller material	Sheet aluminum
Number of blades	11
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H2+
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) with basic insulation
With cable	Variable
Protection class assignment	I; If a protective earth is connected by the customer This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection.
Conformity with standards	EN 60335-1; EN 60034-1; EN 60204-1
Approval	CCC; UL 1004-1; EAC; CSA C22.2 No. 100

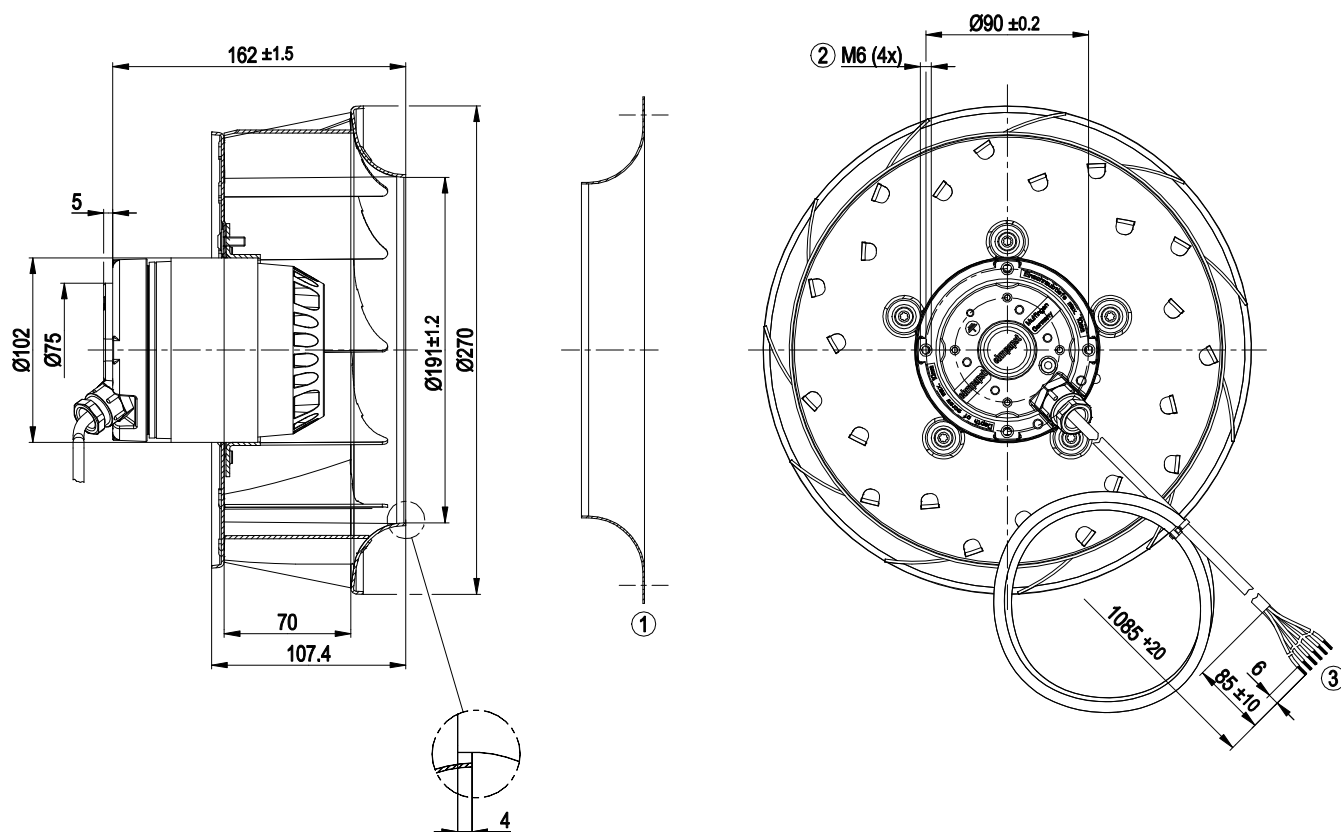


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Product drawing



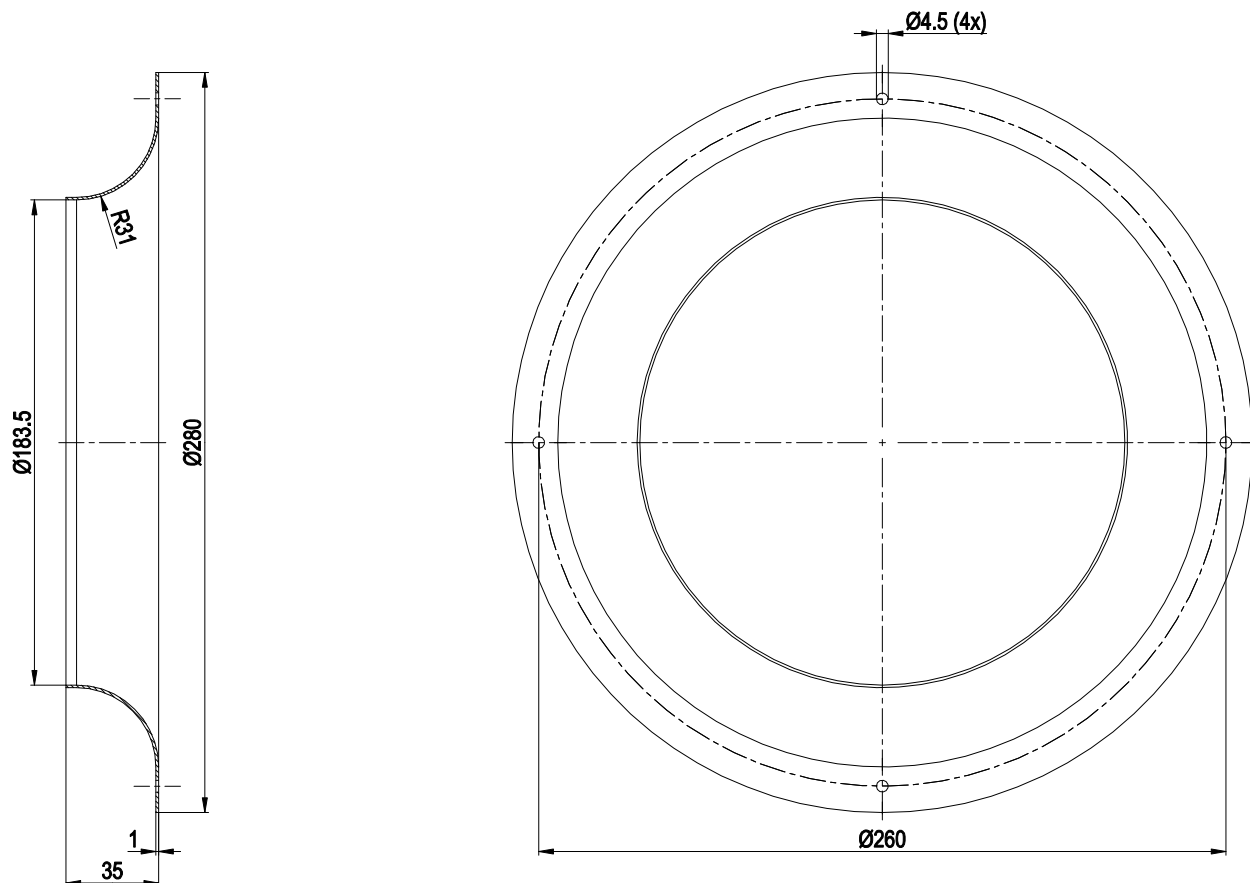
1	Accessory part: inlet ring 96360-2-4013, not included in scope of delivery
2	Max. clearance for screw 10 mm
3	Cable silicone 6G 0.5 mm ²
	6x splice

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Accessory part



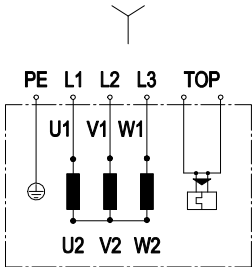
Inlet ring 96360-2-4013

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Connection diagram



Note: Change of rotation direction by reversing two phases

Y	Star connection	L1	= U1 = black	L2	= V1 = blue
L3	= W1 = brown	PE	green/yellow	TOP	2x gray

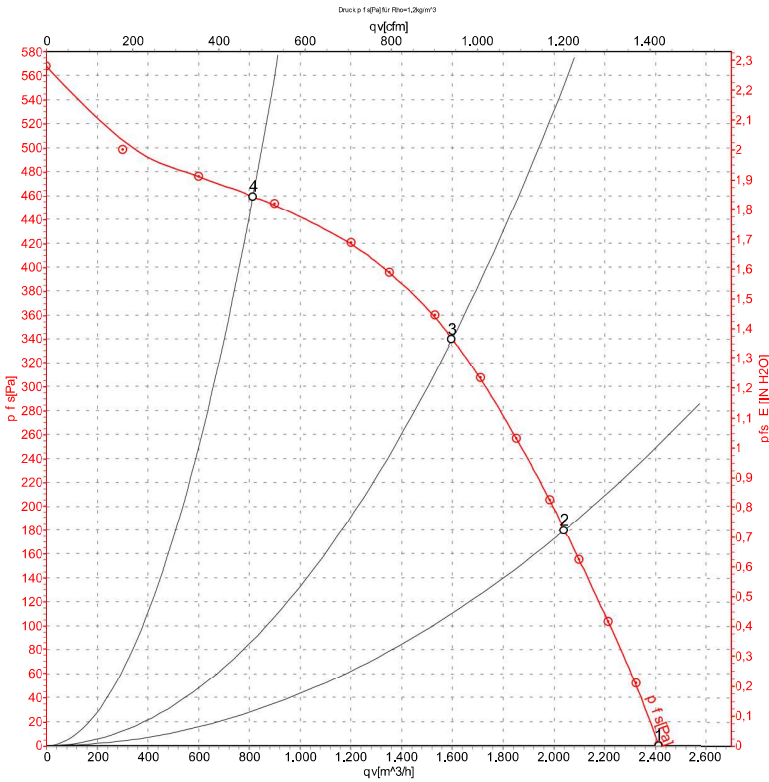


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AC centrifugal fan

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Curves: Air performance 50 Hz



Measurement: LU-114790-1

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

	Wired	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	Y	400	50	2800	279	0.61	2415	0	1420	0.00
2	Y	400	50	2745	341	0.67	2040	180	1200	0.72
3	Y	400	50	2710	375	0.68	1600	340	940	1.36
4	Y	400	50	2765	315	0.61	815	460	480	1.85

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

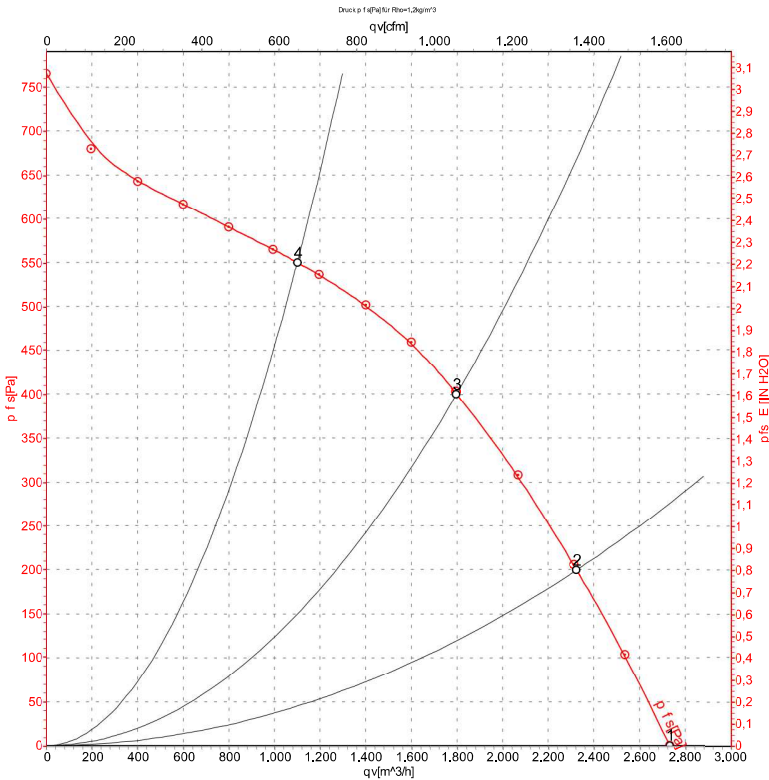


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Curves: Air performance 60 Hz



Measurement: LU-114789-1

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

	Wired	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	Y	400	60	3180	422	0.70	2735	0	1610	0.00
2	Y	400	60	3060	512	0.83	2325	200	1370	0.80
3	Y	400	60	2980	560	0.91	1800	400	1060	1.61
4	Y	400	60	3060	505	0.82	1100	550	645	2.21

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

