

KARTA KATALOGOWA

R4D560-AW03-01

Wentylator promieniowy AC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst



Dane znamionowe

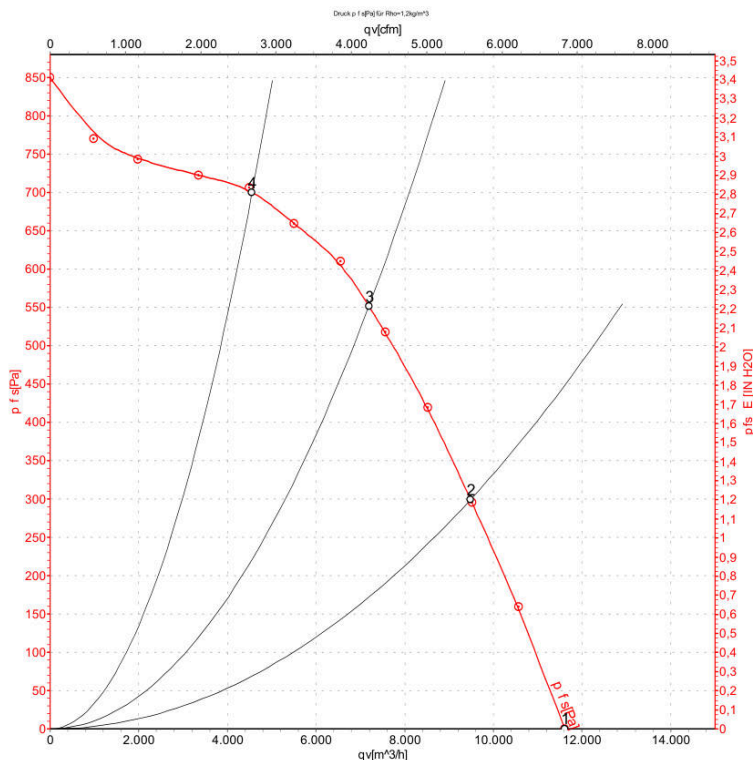
Napięcie znamionowe	3~ 230/277 V Δ · 400/480 V Y (50/60 Hz)
Częstotliwość	50/60 Hz
Prędkość obrotowa	1370 / 1610 obr/min
Pobór mocy	2350 / 3800 W
Pobór prądu	8,17 / 10,12 A (Δ) · 4,72 / 5,85 A (Y)
Maks. wydajność	11610 m³/h
Maks. ciśnienie statyczne	700 Pa
Temperatura otoczenia	-40...+85 °C (60 Hz: +60 °C)

Budowa

Średnica wirnika	560 mm
Materiał wirnika	blacha aluminiowa
Liczba łopatek	9
Stopień ochrony	IP54
Klasa izolacji	F
Zabezpieczenie silnika	termik (TOP)
Masa	30,2 kg

Charakterystyka przepływowa

Curves: Air performance 50 Hz



Measurement: LU-101336-1

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.

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

R4D560-AW03-01

AC centrifugal fan
backward-curved, single-intake



Nominal data

Type	R4D560-AW03-01				
Motor	M4D138-NA				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	230	277	400	480
Wiring		Δ	Δ	Y	Y
Frequency	Hz	50	60	50	60
Method of obtaining data		ml	ml	ml	ml
Valid for approval/standard		-	-	-	-
Speed (rpm)	min ⁻¹	1370	1610	1370	1610
Power consumption	W	2350	3800	2350	3800
Current draw	A	8.17	10.12	4.72	5.85
Min. back pressure	Pa	0	0	0	0
Min. back pressure	in. wg	0	0	0	0
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	85	60	85	60
Starting current	A	38	42	22	24

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



R4D560-AW03-01

AC centrifugal fan

backward-curved, single-intake

Technical description

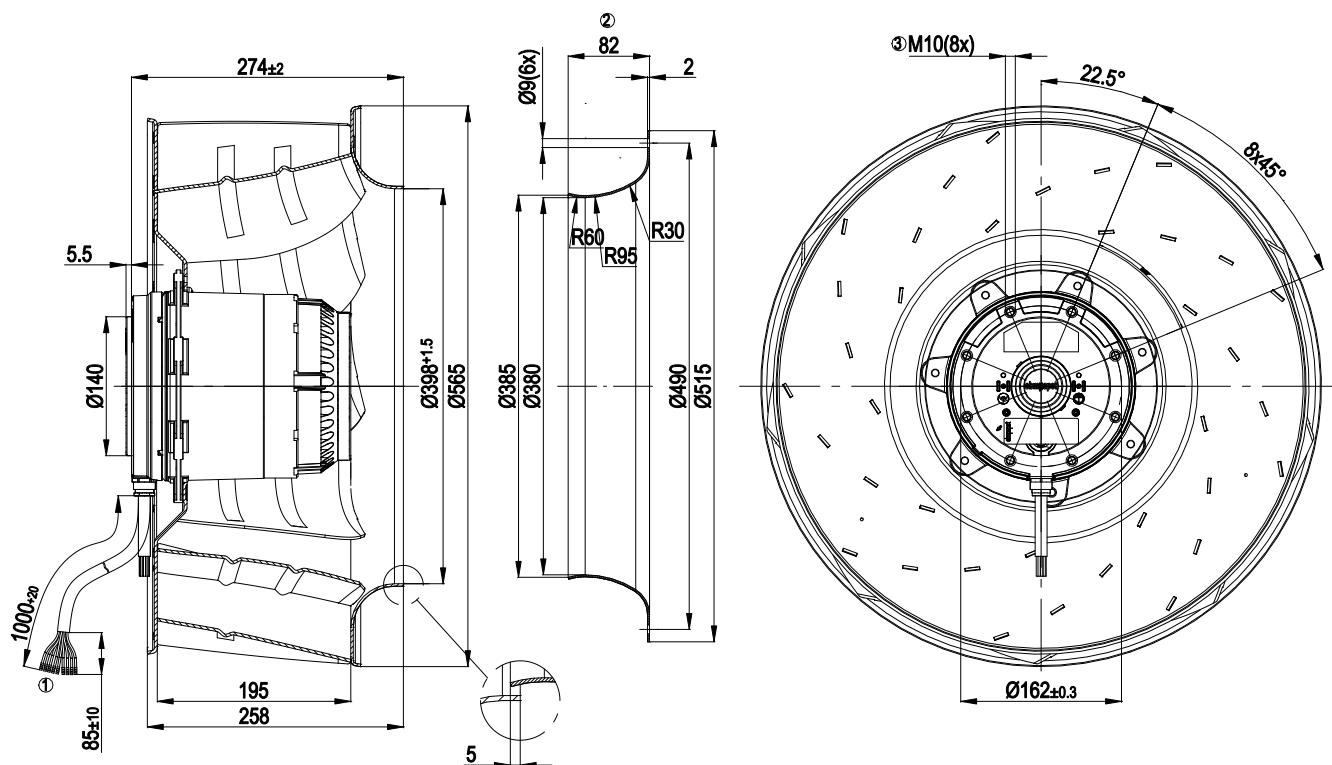
Weight	30.2 kg
Size	560 mm
Motor size	138
Rotor surface	Cast in aluminum
Impeller material	Sheet aluminum
Number of blades	9
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H2
Ambient temperature note	Occasional start-up at temperatures between -40°C and -25°C is permitted. For continuous operation at ambient temperatures below -25°C (such as refrigeration applications), use must be made of a fan design with special low-temperature bearings.
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	On rotor and stator sides
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60034-1 (2010)
Approval	UL 1004-1; EAC; CSA C22.2 No. 100

R4D560-AW03-01

AC centrifugal fan

backward-curved, single-intake

Product drawing



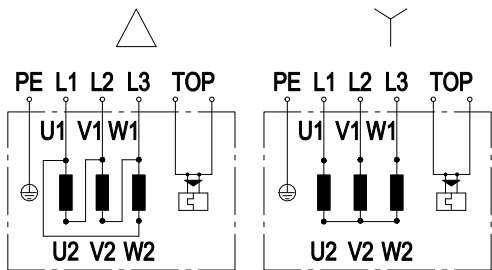
- | | |
|---|--|
| 1 | Cable silicone 9G 0.75 mm ² , 9x crimped splices |
| 2 | Accessory part: inlet ring 63071-2-4013 not included in scope of delivery. |
| 3 | Max. clearance for screw 18 mm |

R4D560-AW03-01

AC centrifugal fan

backward-curved, single-intake

Connection diagram



Note: Change of rotation direction by reversing two phases

Δ	Delta connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow	TOP	2x gray
PE	green/yellow				

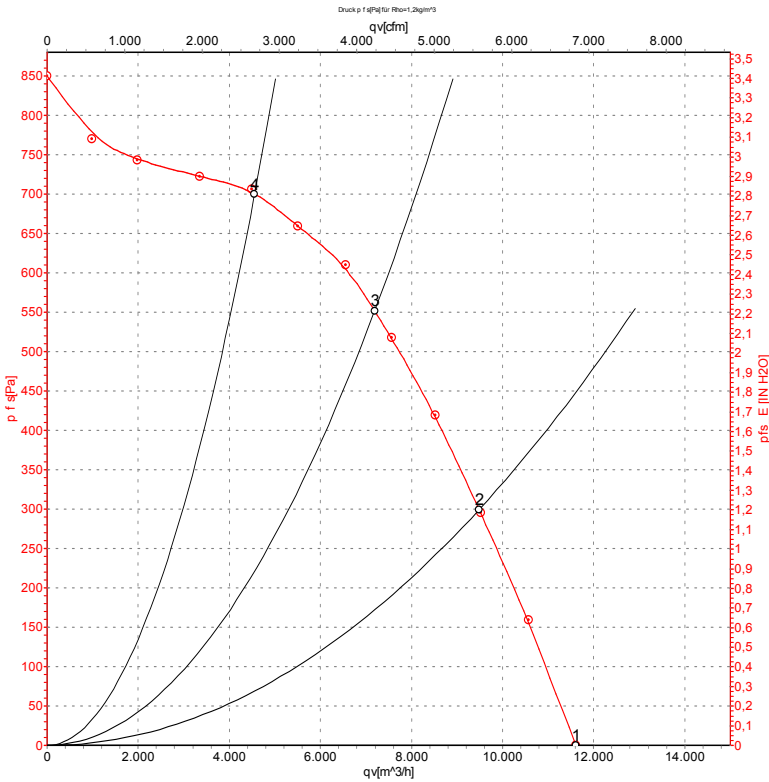


R4D560-AW03-01

AC centrifugal fan

backward-curved, single-intake

Curves: Air performance 50 Hz



Measurement: LU-101336-1

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	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	Y	400	50	1405	1785	4.01	78	86	11610	0	6835	0.00
2	Y	400	50	1380	2197	4.52	76	83	9485	300	5580	1.20
3	Y	400	50	1370	2350	4.72	74	81	7190	550	4230	2.21
4	Y	400	50	1390	2046	4.30	74	82	4555	700	2680	2.81

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_v = Air flow · p_{fs} = Pressure increase

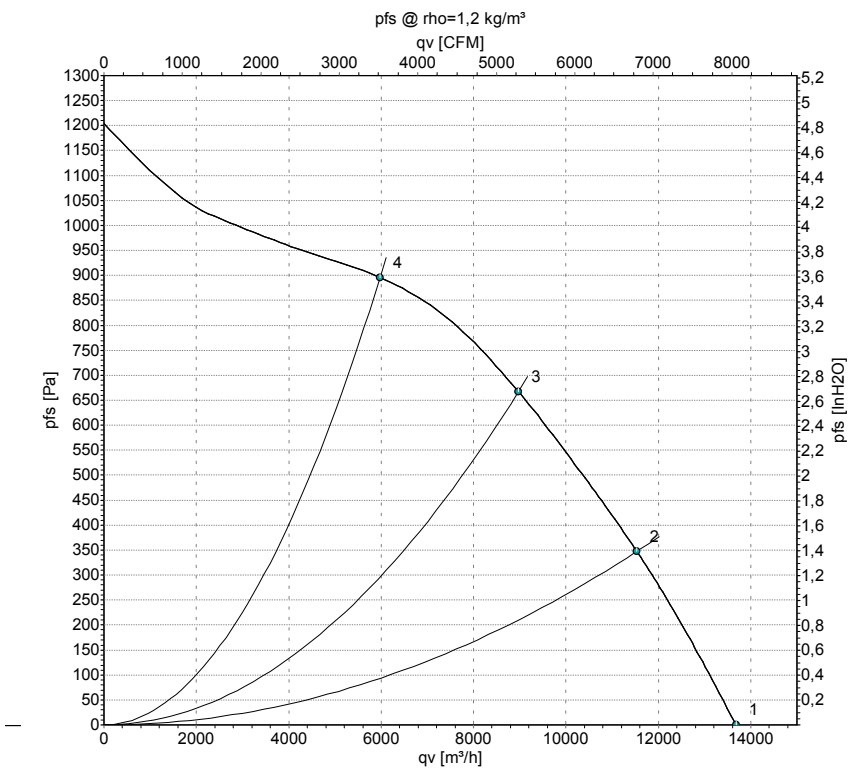


R4D560-AW03-01

AC centrifugal fan

backward-curved, single-intake

Curves: Air performance 60 Hz



Measurement: LU-101338-1

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	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	Y	480	60	1660	2931	4.80	83	90	13680	0	8055	0.00
2	Y	480	60	1625	3513	5.50	80	87	11540	350	6790	1.41
3	Y	480	60	1610	3800	5.85	78	85	8970	675	5280	2.71
4	Y	480	60	1630	3388	5.33	78	86	5975	900	3520	3.61

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_v = Air flow · p_{fs} = Pressure increase

