

# AC axial fans - HyBlade®

Ø 300



- **Material:** Guard grille: Steel, phosphated and coated in black plastic (RAL9005)  
Wall ring: Sheet steel, pre-galvanised and coated in black plastic (RAL9005)  
Blades: C D G H Plastic PP; A B E F Sheet steel, coated in black  
Rotor: Surface coated in black
- **Number of blades:** 5
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 44, depending on installation and position (acc. to EN 60034-5)
- **Insulation class:** A B "F"; C D E F G H "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharge holes:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

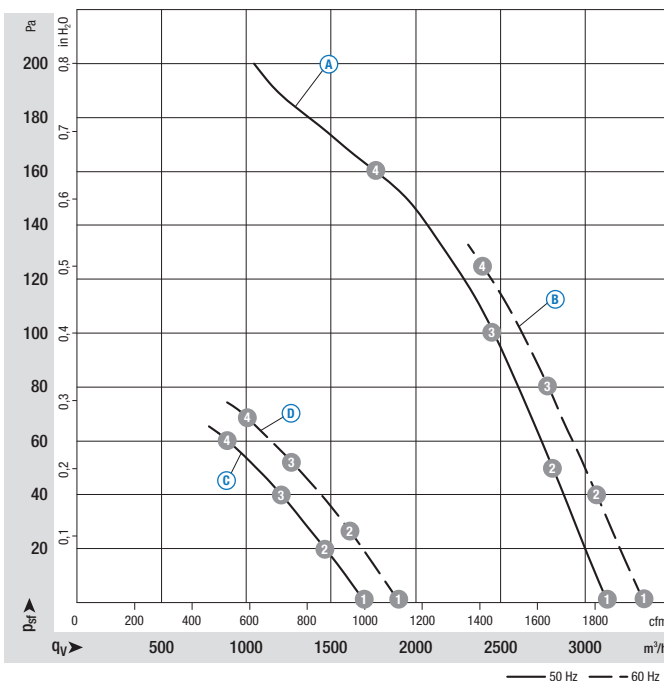
Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm	input power	current draw	Capacitor	Max. back pressure	Perm. amb. temp.	Mass without attachments	Electr. connection
Typ	Motor	VAC	Hz	rpm	W	A	µF/VDB	Pa	°C	kg		
*2D 300 <sup>(2)</sup>	M2D 074-DF	A	3~230/400	50	2580	210	0,62/0,36	---	200	-25..+75	3,1	p. 61 / C1,C2
		B	3~230/400	60	2750	300	0,84/0,48	---	125	-25..+40	3,1	
*4D 300 <sup>(1)(2)</sup>	M4D 068-CF	C	3~230/400	50	1300	68	0,25/0,14	---	60	-25..+60	1,6	p. 61 / C1,C2
		D	3~230/400	60	1400	90	0,26/0,15	---	70	-25..+55	1,6	
*2E 300	M2E 074-DF	E	1~230	50	2700	230	1,10	8,0/400	200	-25..+50	3,1	p. 60 / A1
		F	1~230	60	3000	350	1,55	8,0/400	50	-25..+40	3,1	
*4E 300 <sup>(1)</sup>	M4E 068-CF	G	1~230	50	1320	72	0,32	2,0/400	60	-25..+50	2,7	p. 60 / A1
		H	1~230	60	1500	90	0,40	2,0/400	60	-25..+50	2,7	

subject to alterations

(1) Nominal data in operating point with maximum load and 230 or 400 VAC

(2) 230 VAC Δ / 400 VAC Y

## Curves



Air performance measured as per: ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact

Suction-side noise levels: L<sub>WA</sub> as per ISO 13347, L<sub>pA</sub> measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.

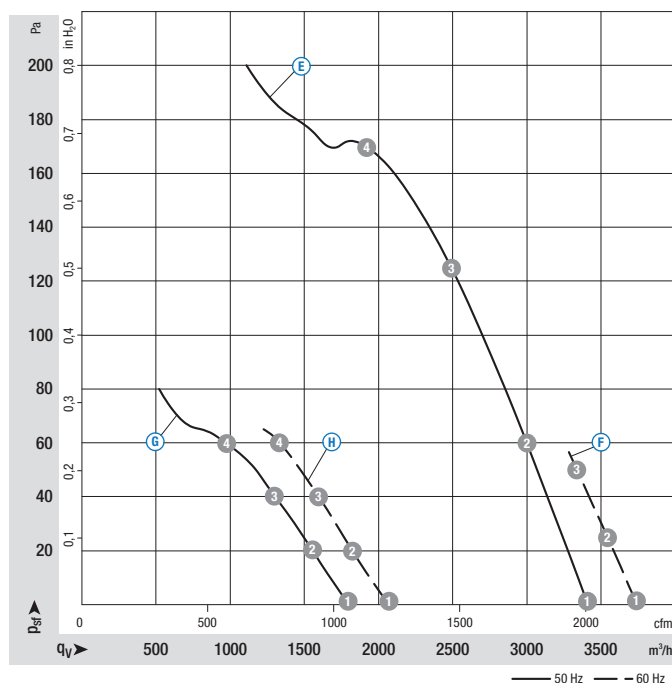
	n rpm	P <sub>e</sub> W	I A	L <sub>WA</sub> dB(A)
A 1	2580	210	0,62/0,36	78
A 2	2540	227	0,62/0,36	78
A 3	2490	244	0,68/0,39	77
A 4	2395	278	0,74/0,43	78
B 1	2750	300	0,84/0,48	80
B 2	2685	316	0,84/0,48	79
B 3	2625	331	0,87/0,50	79
B 4	2550	347	0,90/0,52	78
C 1	1350	55	0,23/0,13	59
C 2	1350	57	0,23/0,13	58
C 3	1335	61	0,23/0,13	58
C 4	1300	68	0,25/0,14	64
D 1	1500	70	0,23/0,13	62
D 2	1495	75	0,24/0,14	61
D 3	1460	80	0,24/0,14	61
D 4	1400	90	0,25/0,15	66

- **Motor protection:** E F G H TOP wired internally
- **Leakage current:** < 0,75 mA acc. to EN 60335-1
- **Cable exit:** Variable
- **Terminal box design:** Electrical connection via terminal strip
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1; CE
- **Approvals:** VDE, cURus on request

Direction of air flow	Direction of air flow "A" on request			
	Without attachments	With full round nozzle	With guard grille for short nozzle	With guard grille for short nozzle and mounted terminal box
"V"	A2D 300-AP02 -01	W2D 300-CP02 -30	S2D 300-AP02 -30	S2D 300-AP02 -50*
"V"	A4D 300-AS34 -01	W4D 300-CS34 -30	S4D 300-AS34 -30	S4D 300-AS34 -50*
"V"	A2E 300-AP02 -01	W2E 300-CP02 -30	S2E 300-AP02 -30	S2E 300-AP02 -50*(3)
"V"	A4E 300-AS72 -01	W4E 300-CS72 -30	S4E 300-AS72 -30	S4E 300-AS72 -50*(3)

Direction of air flow "A" on request    \*Terminal box design: Electrical connection via terminal strip    (3) Device is outfitted with a P0 capacitor. EN 60335-1 is to be observed for the end application!

### Curves



Air performance measured as per: ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact

Suction-side noise levels:  $L_{wA}$  as per ISO 13347,  $L_pA$  measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.

	n rpm	$P_e$ W	I A	$L_{wA}$ dB(A)
E 1	2700	230	1,10	80
E 2	2680	255	1,12	79
E 3	2600	279	1,22	79
E 4	2520	303	1,32	79
F 1	3000	350	1,55	82
F 2	2940	355	1,58	81
F 3	2885	362	1,60	81
F 4	---	---	---	---
G 1	1380	62	0,28	60
G 2	1370	63	0,28	59
G 3	1355	66	0,29	58
G 4	1320	72	0,32	61
H 1	1590	80	0,36	63
H 2	1560	83	0,36	62
H 3	1535	86	0,37	62
H 4	1500	90	0,40	62

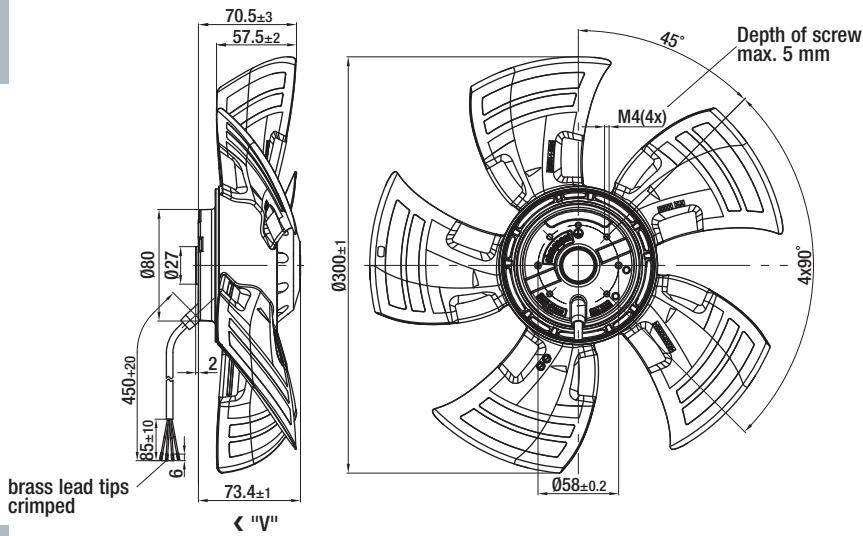
# AC axial fans - HyBlade®

Ø 300 with motor M4\* 068, drawings for direction of air flow "V"



## Without attachments

Typ	Mass kg
A4D 300-AS34 -01	1,6
A4E 300-AS72 -01	2,7

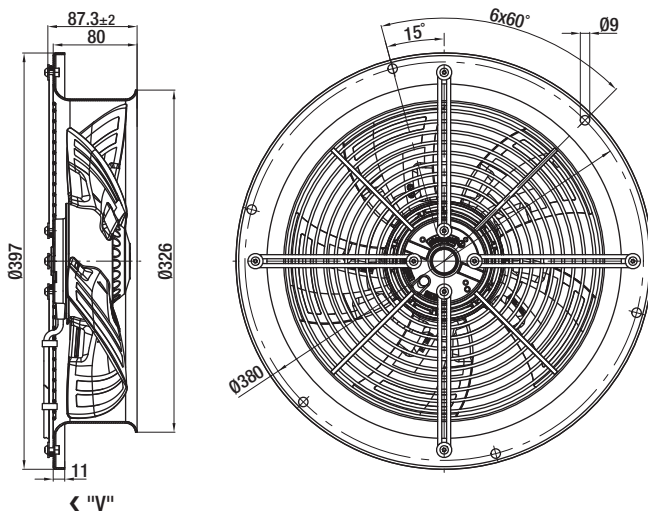


Internal diameter of the wall ring at least 306 mm



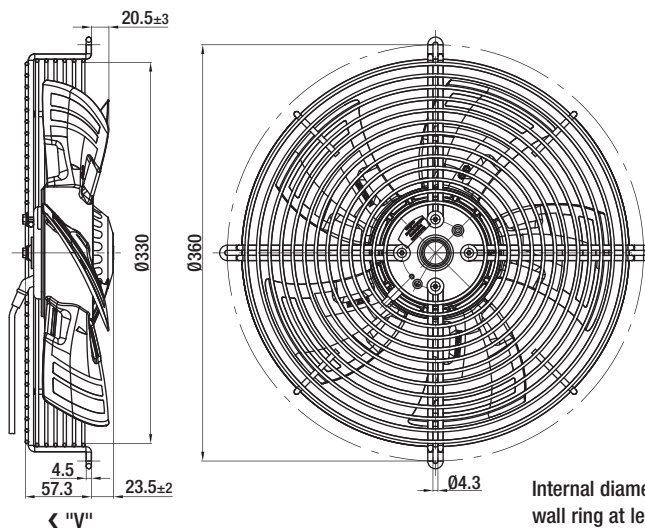
## With full round nozzle

Typ	Mass kg
W4D 300-CS34 -30	3,85
W4E 300-CS72 -30	4,1



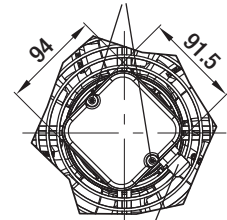
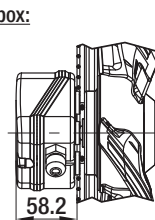
## With guard grille for short nozzle

Typ	Mass kg
S4D 300-AS34 -30	2,60
S4E 300-AS72 -30	2,85
S4D 300-AS34 -50*	2,75
S4E 300-AS72 -50*	3,00



\*Type with terminal box:

Tightening torque: 0,7 Nm ± 0,2 Nm



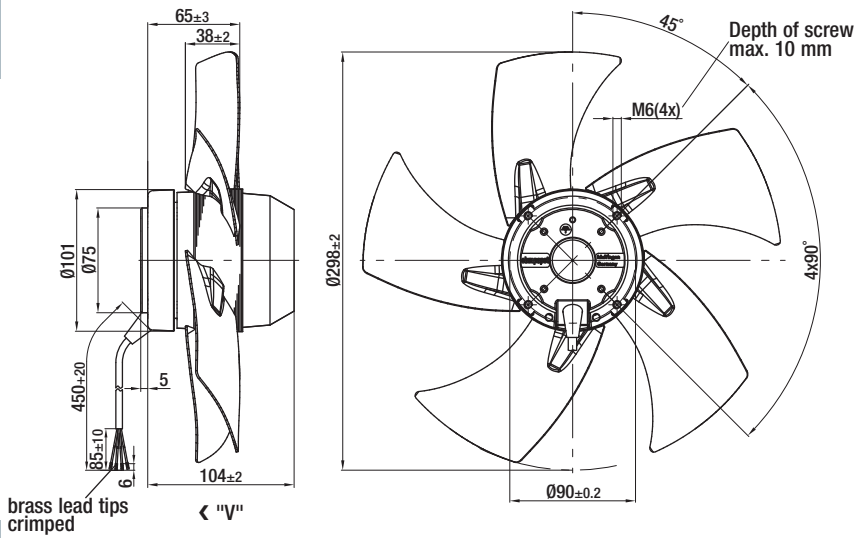
Cable diameter: max. 7,5 mm  
Tightening torque: 1,3 Nm ± 0,2 Nm

# AC axial fans

Ø 300 with motor M2\* 074, drawings for direction of air flow "V"



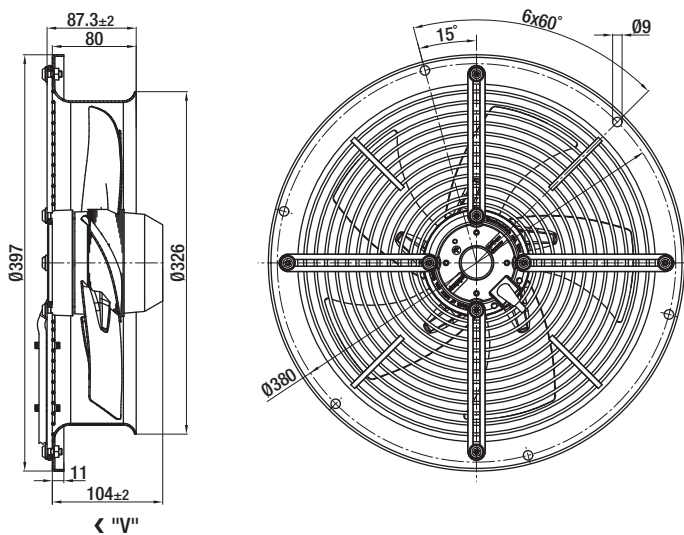
## Without attachments



Typ	Mass kg
A2D 300-AP02 -01	3,1
A2E 300-AP02 -01	3,1

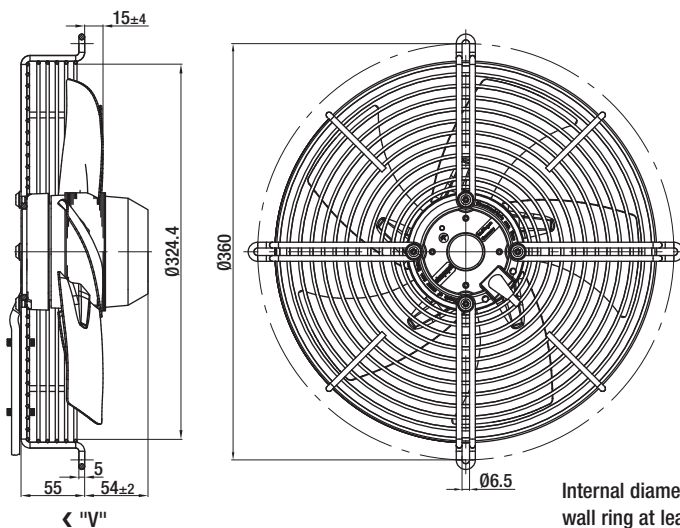
Internal diameter of the wall ring at least 306 mm

## With full round nozzle



Typ	Mass kg
W2D 300-CP02 -30	5,2
W2E 300-CP02 -30	5,2

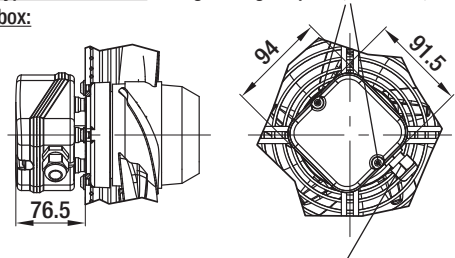
## With guard grille for short nozzle



Typ	Mass kg
S2D 300-AP02 -30	4,10
S2E 300-AP02 -30	4,10
S2D 300-AP02 -50*	4,25
S2E 300-AP02 -50*	4,25

\*Type with terminal box:

Tightening torque: 0,7 Nm ± 0,2 Nm



Cable diameter: max. 7,5 mm  
Tightening torque: 1,3 Nm ± 0,2 Nm