

AC axial fans - HyBlade®

Ø 400

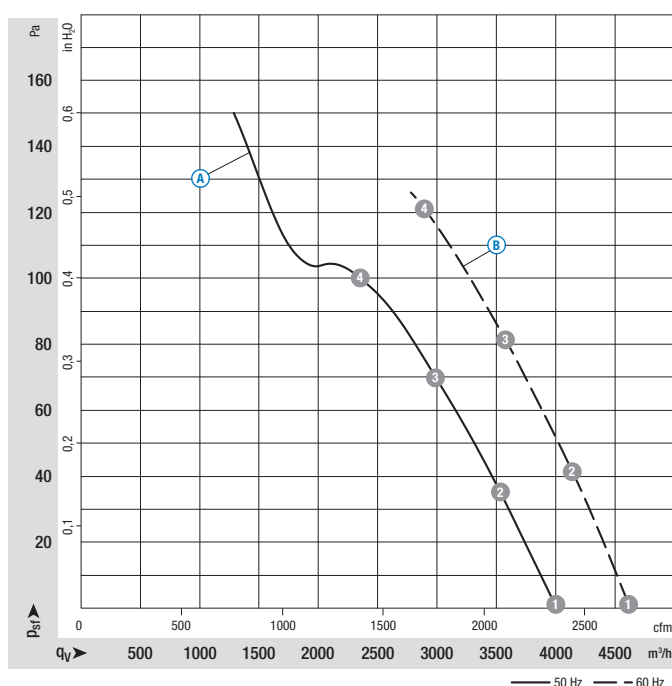


- Material:** Guard grille: Steel, phosphated and coated in black plastic (RAL9005)
Wall ring: Sheet steel, pre-galvanised and coated in black plastic (RAL9005)
Blades: **E** **F** Plastic PP; **A** **B** **C** **D** Sheet steel, coated in black
Rotor: Surface coated in black
- Number of blades:** 5
- 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:** **E** **F** "F"; **A** **B** **C** **D** "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	
*4D 400⁽²⁾	M4D 074-EI	A	3~230/400	50	1450	135	0,76/0,44	---	150	-25..+40	4,2	p. 61 / C1,C2)
		B	3~230/400	60	1690	185	0,68/0,39	---	120	-25..+40	4,2	
*4E 400	M4E 074-EI	C	1~230	50	1430	160	0,73	6,0/400	150	-25..+40	4,1	p. 60 / A1)
		D	1~230	50	1700	240	1,06	6,0/400	75	-25..+40	4,1	
*6E 400⁽¹⁾	M6E 074-DF	E	1~230	50	870	120	0,53	3,0/400	40	-25..+60	3,7	p. 60 / A1)
		F	1~230	60	870	150	0,67	3,0/400	40	-25..+45	3,7	

subject to alterations (1) Nominal data in operating point with maximum load and 230 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_{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)
A 1	1450	135	0,76/0,44	74
A 2	1435	161	0,81/0,47	73
A 3	1420	182	0,85/0,49	72
A 4	1410	203	0,87/0,50	74
B 1	1690	185	0,68/0,39	76
B 2	1660	223	0,78/0,45	76
B 3	1635	256	0,85/0,49	76
B 4	1605	290	0,94/0,54	76

- **Motor protection:** 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

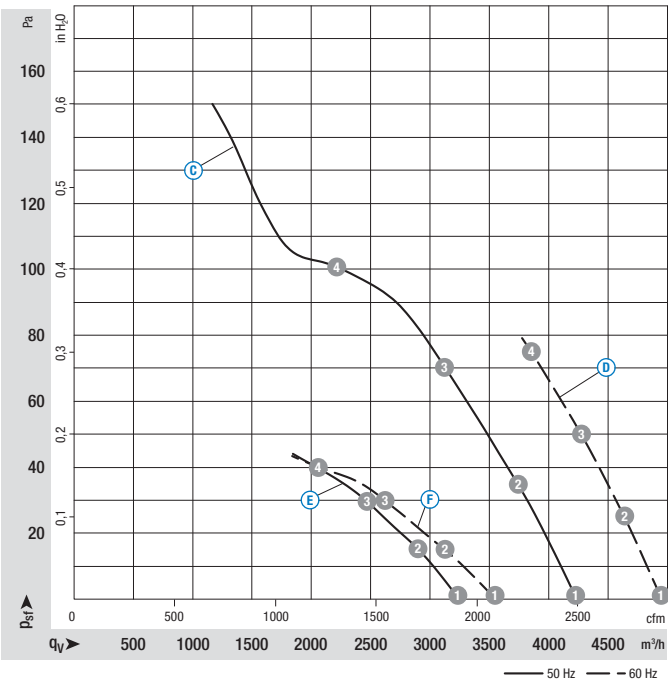
	Direction of air flow			
	Without attachments	With full round nozzle	With guard grille for short nozzle	With guard grille for short nozzle and mounted terminal box
"V"	A4D 400-AP12 -01	W4D 400-CP12 -30	S4D 400-AP12 -03	S4D 400-AP12 -50*
"V"	A4E 400-AP02 -01	W4E 400-CP02 -30	S4E 400-AP02 -03	S4E 400-AP02 -50*(3)
"V"	A6E 400-AN24 -01	W6E 400-CN24 -30	S6E 400-AN24 -30	S6E 400-AN24 -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)
	1	1430	160	0,73	74
	2	1425	180	0,81	74
	3	1405	198	0,88	73
	4	1380	219	0,97	74
	1	1700	240	1,06	78
	2	1675	255	1,13	77
	3	1645	271	1,19	77
	4	1620	286	1,25	76
	1	900	110	0,49	63
	2	900	110	0,49	61
	3	890	114	0,50	58
	4	870	120	0,53	59
	1	990	145	0,64	65
	2	955	148	0,64	63
	3	920	149	0,65	59
	4	870	150	0,67	60

AC axial fans

Ø 400 with motor M4* 074, drawings for direction of air flow "V"

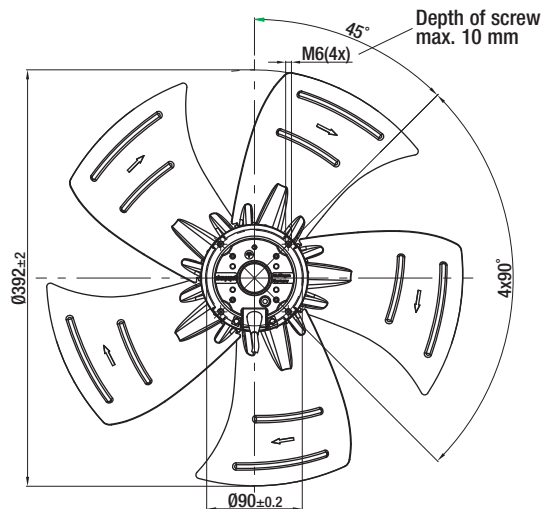
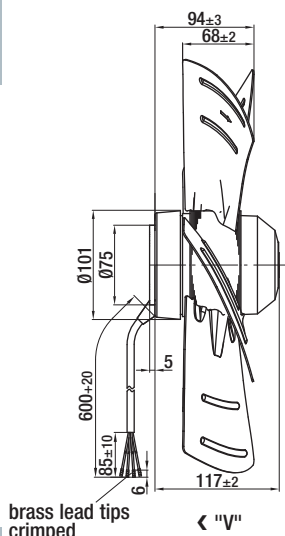


Without attachments

Typ

Mass
kg

A4D 400-AP12 -01	4,2
A4E 400-AP02 -01	4,1



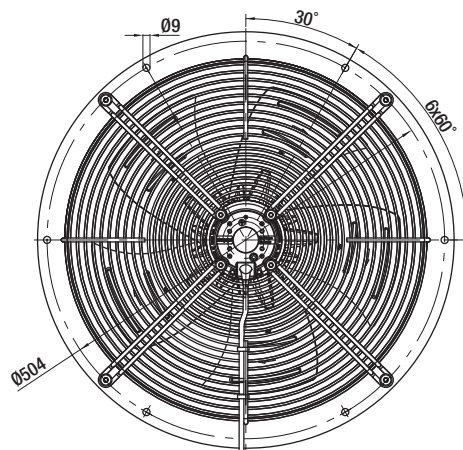
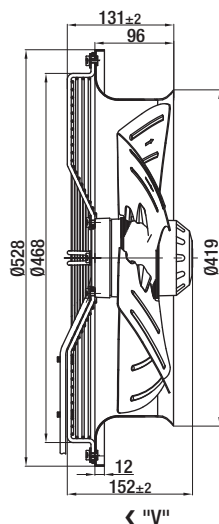
Internal diameter of the wall ring at least 400 mm

With full round nozzle

Typ

Mass
kg

W4D 400-CP12 -30	8,0
W4E 400-CP02 -30	8,0

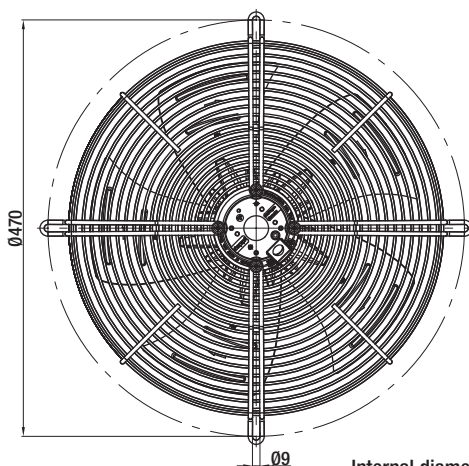
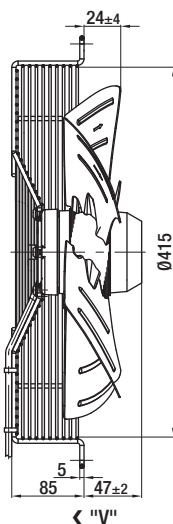


With guard grille for short nozzle

Typ

Mass
kg

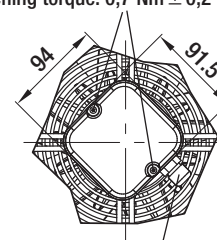
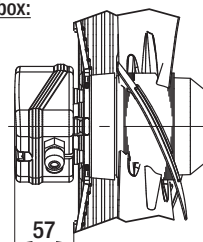
S4D 400-AP12 -03	5,90
S4E 400-AP02 -03	5,90
S4D 400-AP12 -50*	6,05
S4E 400-AP02 -50*	6,05



Internal diameter of the wall ring at least 400 mm

*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

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Ø 400 with motor M6E 074, drawings for direction of air flow "V"



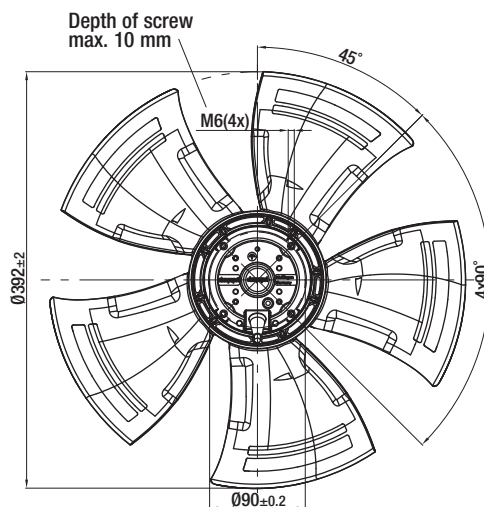
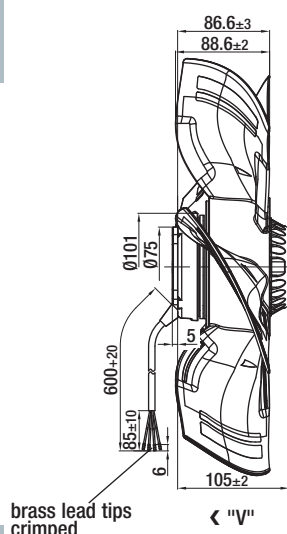
Without attachments

Typ

Mass
kg

A6E 400-AN24 -01

3,7



Internal diameter of the wall ring at least 400 mm

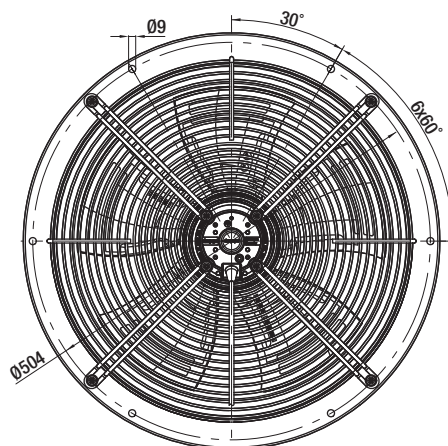
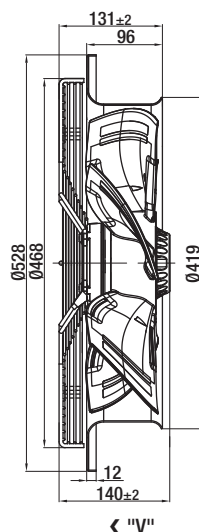
With full round nozzle

Typ

Mass
kg

W6E 400-CN24 -30

7,6



With guard grille for short nozzle

Typ

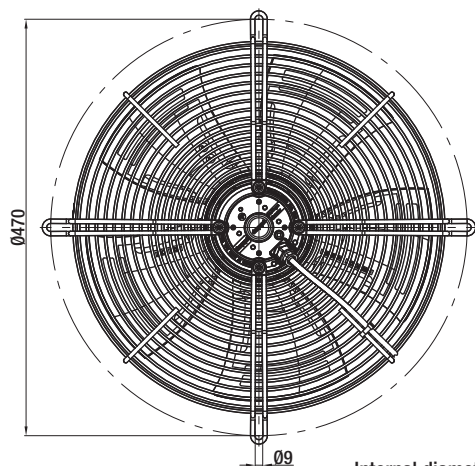
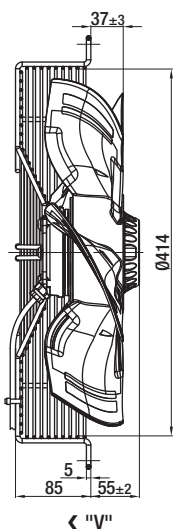
Mass
kg

S6E 400-AN24 -30

5,40

S6E 400-AN24 -50*

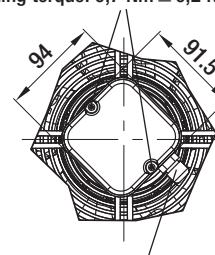
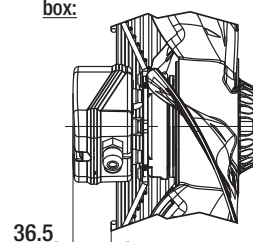
5,55



Internal diameter of the wall ring at least 400 mm

*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