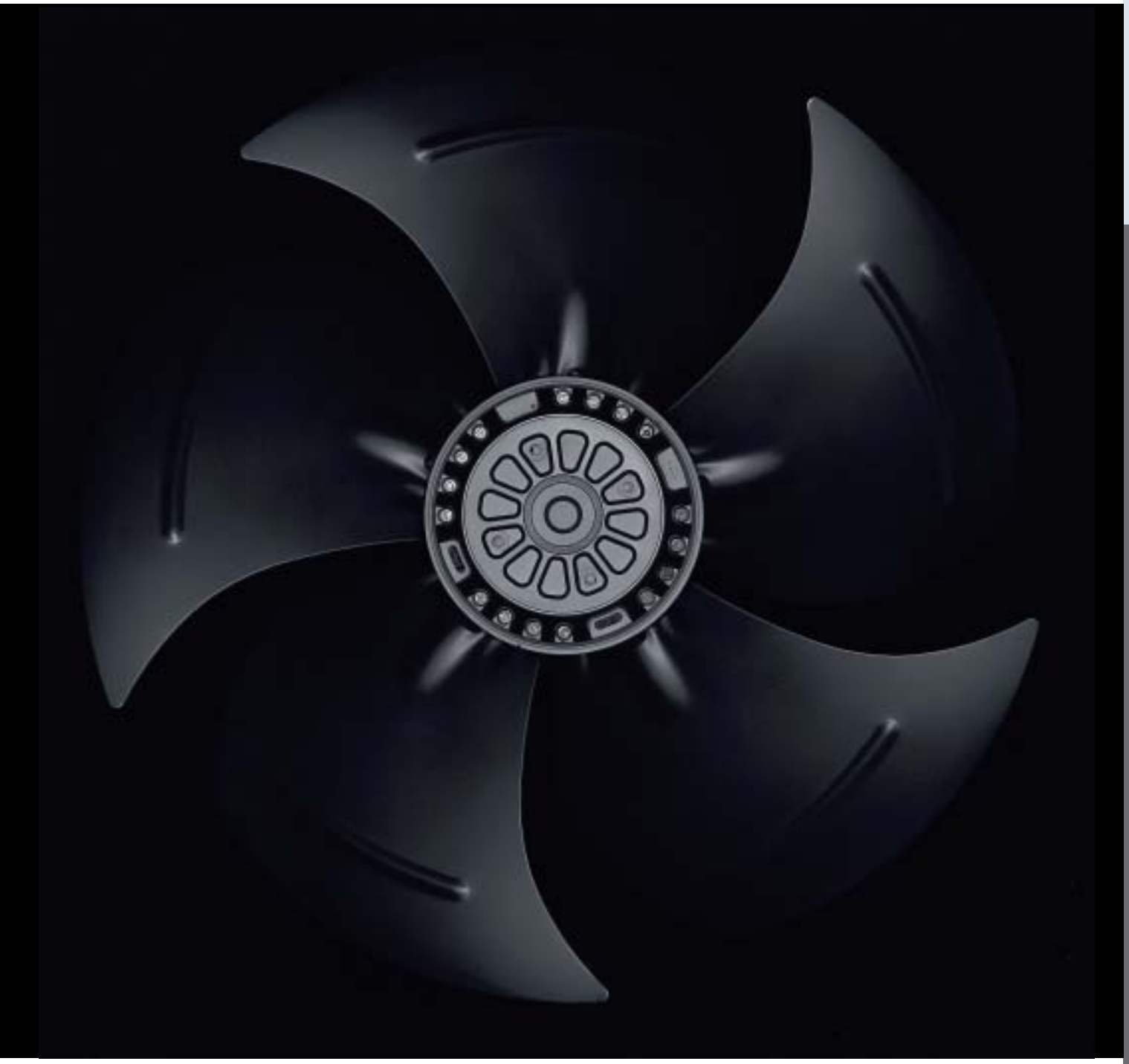
AC axial fans



AC axial fans

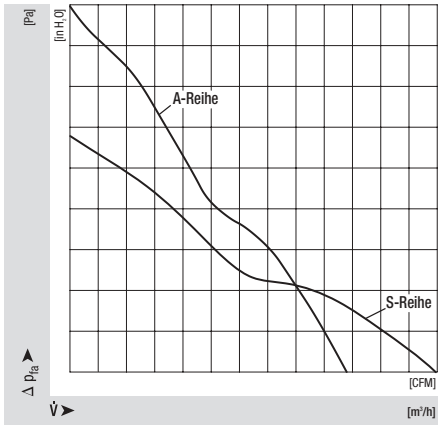
Technical information

Axial fans have least power consumption blowing at free air. As the back pressure increases, the power consumption increases.

Impellers

Designs:

a) S-Range:
Individual sickle blades made of sheet steel are welded onto the rotor of the external-rotor motor and are dynamically balanced in two planes according to DIN ISO 1940. As of size 450 and motor size 094, screwed aluminium blades are mounted.



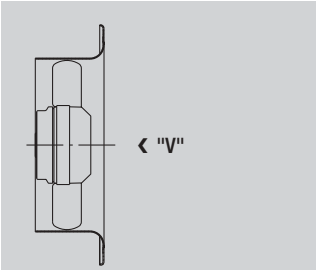
b) K-Range:
Impellers are injection-moulded of high quality plastic. A metal ring is moulded into the hub area so that the impeller can be press-fitted onto the rotor and dynamically balanced in two planes according to DIN ISO 1940.

c) A-Range:
Impellers of galvanised sheet steel, punched from one piece; blades are stamped with an eyelet in the middle of the hub. They are press-fitted onto the rotor of the external-rotor motor. The unit is dynamically balanced in two planes according to DIN ISO 1940.

The combination of impeller and external-rotor motor provides an optimal aerodynamic solution in each range.

Air performance characteristic

Air performance of all axial fans is determined in the wall ring.
Air performance of the K-Range was measured in flow direction "A", free sucking over inlet ring.
Air performance of the S-Range was measured in flow direction "V" without supporting / basket grille guard.
Without the inlet ring or when using the supporting / protective / basket grille guard, the performance is slightly lower at a higher noise level.



Wall rings

The wall rings are optimized inlet rings, made of galvanised sheet steel and varnished black. The motors are mounted via guard grilles, chromated in yellow for the K-Range, and coated in black plastic for the S-Range.
For some types, wall rings made of die-cast aluminium are available.

Moisture protection

The stator comes in moisture-proof insulation, and the rotor is coated in black varnish and has drilled condensate discharges.

Bearings

Maintenance-free ball bearings (can be installed in any mounting position)

Direction of rotation and air flow

Direction of air flow "V", counter-clockwise, direction of air flow "A", clockwise
(only for S-Range Ø 200/250: direction of air flow "A" and "V" counter-clockwise)

Electrical data

As indicated on the relevant pages, all electrical data is established at free air flow and with wall rings or short nozzles.

With rising back pressure, power consumption increases as well. That is why some axial fans may not be used in the upper pressure range.

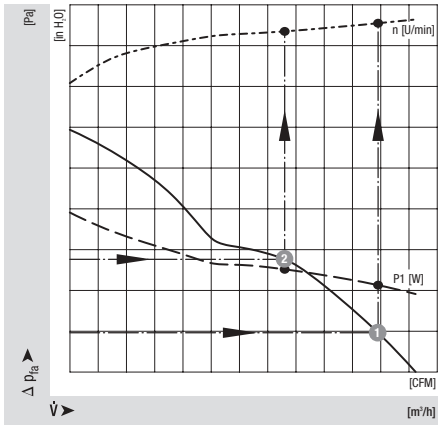
With 60 Hz, the operative range is further restricted in the upper pressure range. This is indicated on the relevant pages.

The air performance curves show two operating points each for which the adjacent tables give speed, power input and total efficiency.

In general, the three-phase motors are designed for 230 / 400 VAC. As of motor size 074, 400 VAC, Δ/Y for two speed steps are available on request.

Three-phase motors in size 094 are designed for two speed steps in 400 VAC Δ and Y.

Δ configuration results in the high, Y configuration results in the low speed step.



Air performance characteristics for axial fans

Cable exit

Lateral (S), front side (A), possible in both ways (B). Versions with guard grille and wall ring have the connection cable brought out through the guard grille.

Approvals

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Type of protection

IP44 when being installed.

Any evaluation has to be carried out in the customer's final application. (Any exceptions to this are indicated on the relevant pages).

Insulation class

Our standard is insulation class "B". In some cases, there are exceptions to this featuring insulation class "F". This then is indicated on the relevant pages. For higher ambient temperatures or operative ranges with higher pressures, it is always possible to manufacture in insulation class "F".

General notes

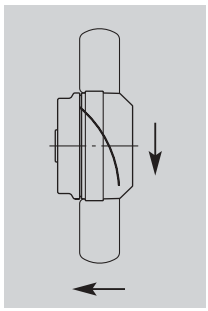
The technical quality, i.e. air performance at operating point, noise, etc. of any fan, particularly an axial fan, is greatly determined by the mounting position.

Ideal mounting positions are often not possible due to design or space limitations, and compromises have to be made.

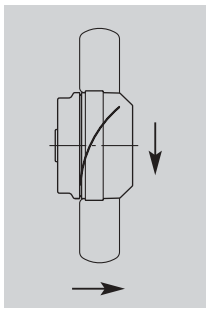
On the next pages, some possible mounting positions for the S-Range are illustrated.

Possible mounting configurations of the S-Range

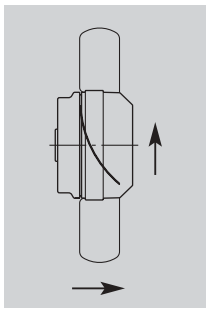
Direction of rotation and air flow



Direction of air flow "V"
Direction of rotation: counter-clockwise seen from rotor side



Direction of air flow "A"
Direction of rotation with Ø 200 / Ø 250: counter-clockwise

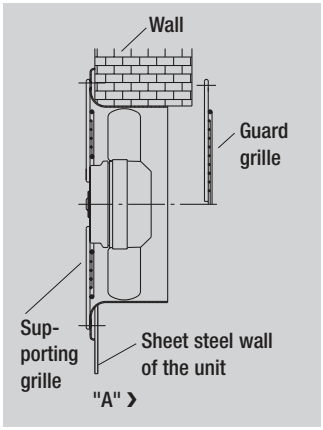


Direction of air flow "A"
Direction of rotation as of Ø 300: clockwise

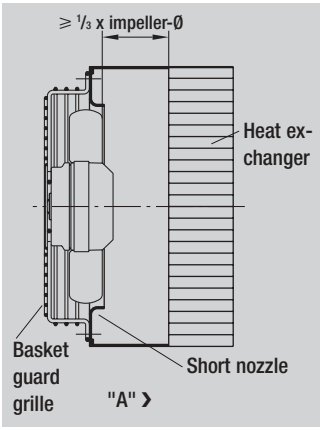
Possible mounting configurations

Air performance and noise of a fan are stronly influenced by the mounting conditions.

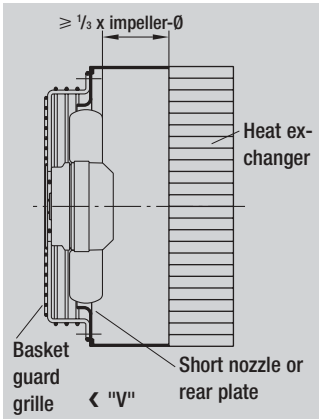
- **Wall ring unit**
  sucking via supporting grille, blowing at free air

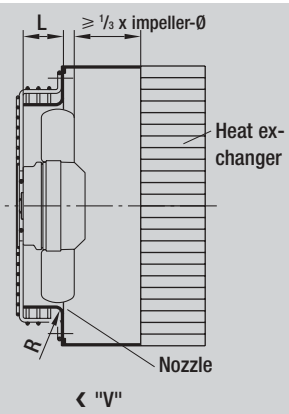


- **Basket grille unit**
  pressing via heat exchanger (connection pressure side)



- **Basket grille unit**
  sucking via heat exchanger. This mounting configuration results in favourable noise levels.

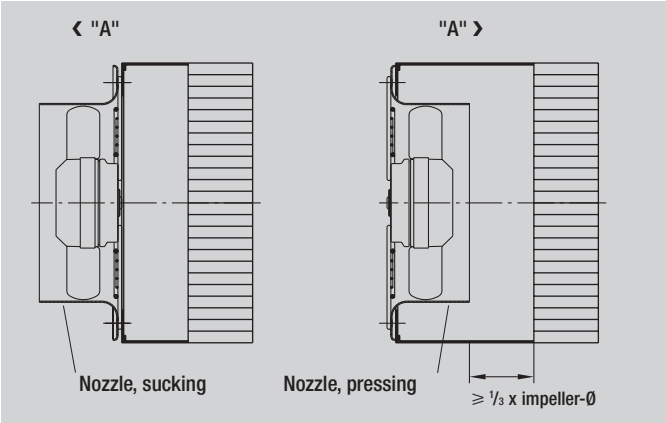




Impeller-Ø	R	L
200	15	35
250	20	35
300	20	35
315	20	70
330	20	70
350	22	70
400	22	70
420	40	70
450	40	70

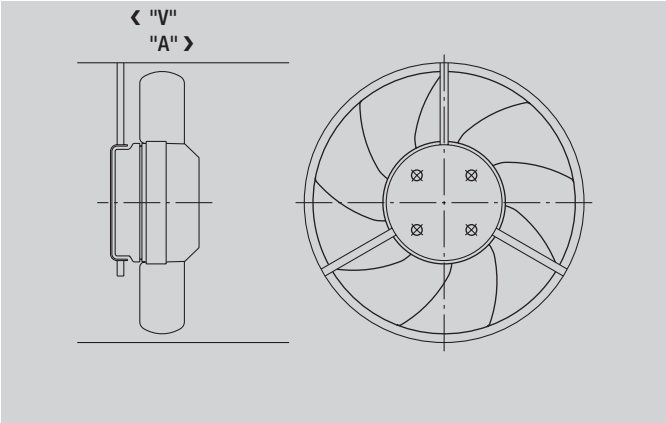
- **Wall ring unit**

  N.B.: With full nozzles, an increase of performance by up to 10% can be achieved when compared to installation in wall openings and short nozzles.



- **Duct mounting**

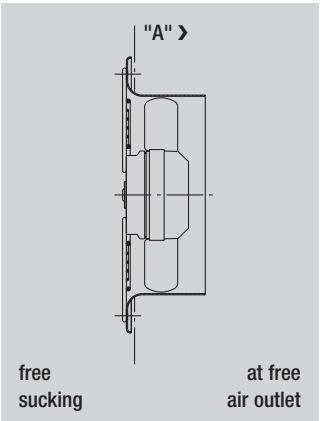
  e.g. mounting flange with struts or supporting grille



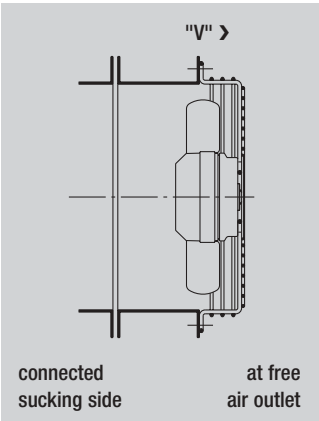
- **Mounting versions**

  As per DIN 24163 part 1, the following mounting versions are defined:

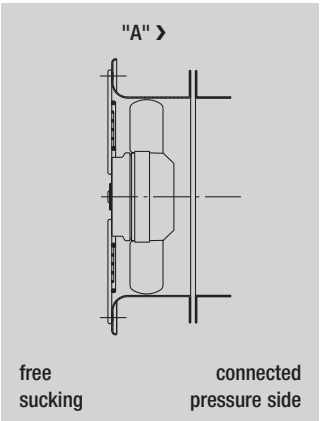
Version A



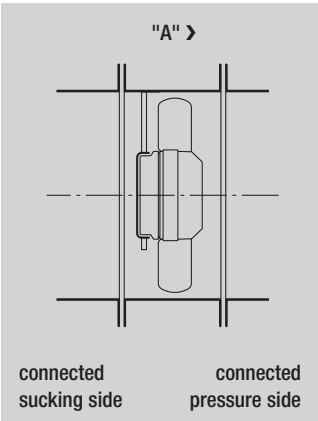
Version B



Version C



Version D



AC axial fans

Ø 130

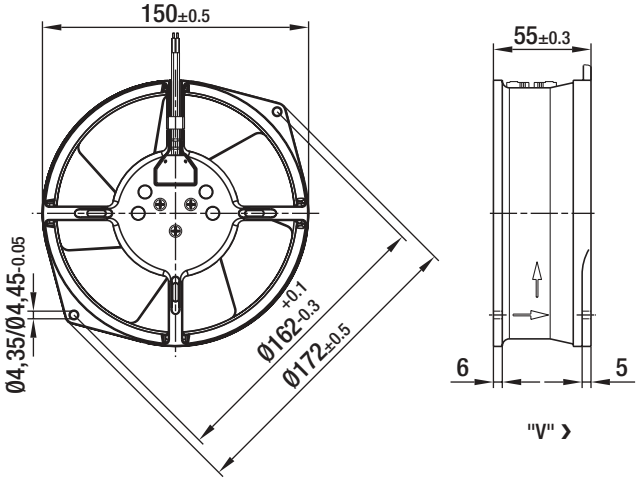
- **Material:** housing made of die-cast aluminium, impeller made of sheet steel (directly welded onto rotor and stove-enamelled in black)
- **Bearings:** maintenance-free ball bearings
- **Direction of rotation:** counter-clockwise, seen on rotor
- **Direction of air flow:** "V", blowing over struts
- **Connection leads:** cable length 330 mm as of wall ring
- **Approvals:** UL, VDE, CSA

ebm-papst · Mulfingen

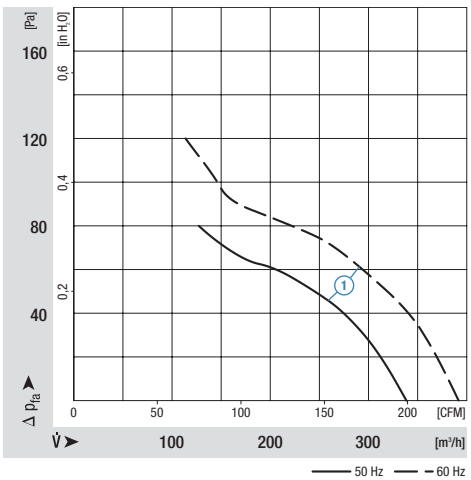
Nominal data

Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass	Direction of air flow
			VAC	Hz	m^3/h	min^{-1}	W	A	µF/VDB	dB(A)	Pa	°C	kg	
W2S130-AA25 -01	M2S052-CA	①	115 115	50 60	325 380	2800 3250	41 38	--- ---	--- ---	49 53	80 120	60 80	1,1	"V"
W2S130-AA03 -01	M2S052-CA	①	230 230	50 60	325 380	2800 3250	45 39	--- ---	--- ---	49 53	80 120	50 70	1,1	"V"

subject to alterations



Characteristics



Guard grille
S. 350

ebmpapst

AC axial fans

Ø 130

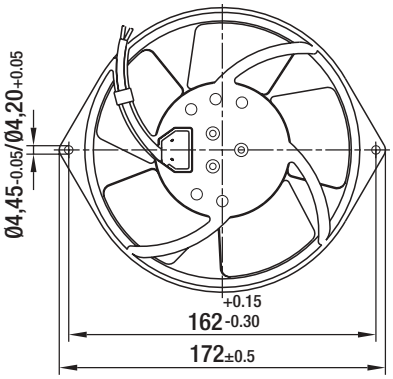
- **Material:** housing made of die-cast aluminium, impeller made of sheet steel (directly welded onto rotor and stove-enamelled in black)
- **Bearings:** maintenance-free ball bearings
- **Direction of rotation:** counter-clockwise, seen on rotor
- **Direction of air flow:** "A", sucking over struts
- **Connection leads:** cable length 330 mm as of wall ring
- **Approvals:** UL, VDE, CSA

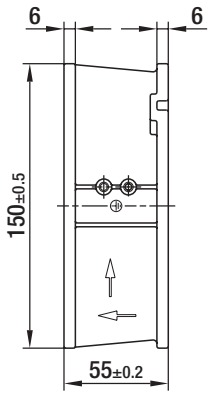
ebm-papst · Mulfingen

Nominal data

Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass	Direction of air flow
			VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg	
W2S130-BM15 -01	M2S052-CA	②	115	50	380	2700	47	---	---	60	---	50	1,1	"A"
			115	60	425	3050	46	---	---	62	---	70		
W2S130-BM03 -01	M2S052-CA	②	230	50	380	2700	47	---	---	60	---	50	1,1	"A"
			230	60	425	3050	46	---	---	62	---	70		

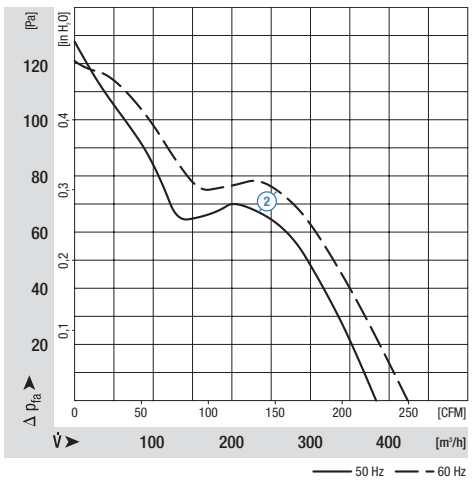
subject to alterations





‹ "A"

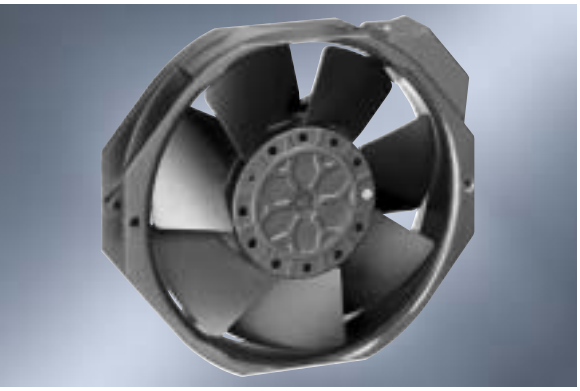
Characteristics



Guard grille
S. 350

AC axial fans

Ø 142



- **Material:** housing made of die-cast aluminium, impeller made of sheet steel (directly welded onto rotor and stove-enamelled in black)
- **Bearings:** maintenance-free ball bearings
- **Direction of rotation:** counter-clockwise, seen on rotor
- **Direction of air flow:** "V", blowing over struts
- **Connection leads:** flat pin terminal 2.8 x 0.5 mm, integrated capacitor
- **Approvals:** UL, VDE, CSA

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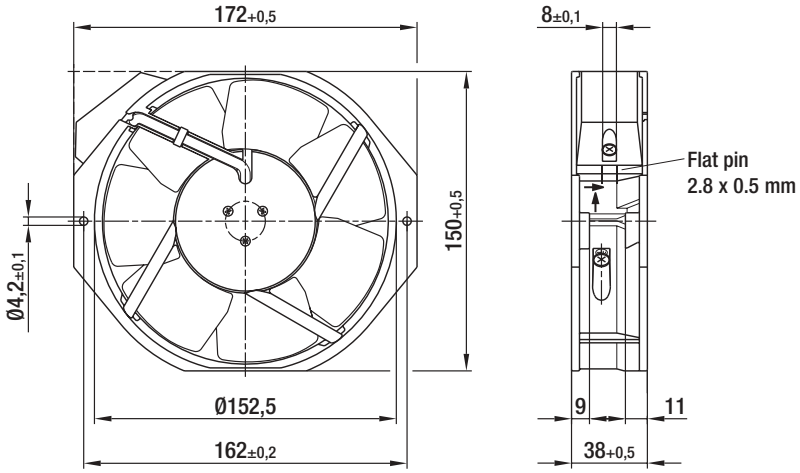
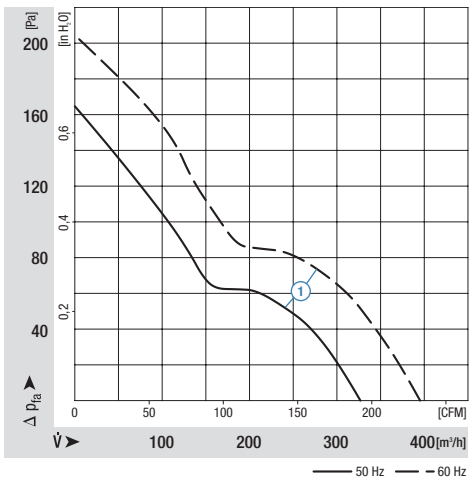
Nominal data

Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass	Direction of air flow
			VAC	Hz	m^3/h	min^{-1}	W	A	µF/VDB	dB(A)	Pa	°C	kg	
W2E 142-BB05 -01	M2E 052-BA	①	115 115	50 60	330 390	2800 3300	25 24	--- ---	--- ---	52 57	--- ---	55 70	0,9	"V"
W2E 142-BB01 -01	M2E 052-BA	①	230 230	50 60	330 390	2800 3300	29 28	--- ---	--- ---	52 57	--- ---	55 70	0,9	"V"

subject to alterations



Characteristics



Guard grille S. 350 f.
Connection lead S. 355

ebmpapst

AC axial fans

Ø 143

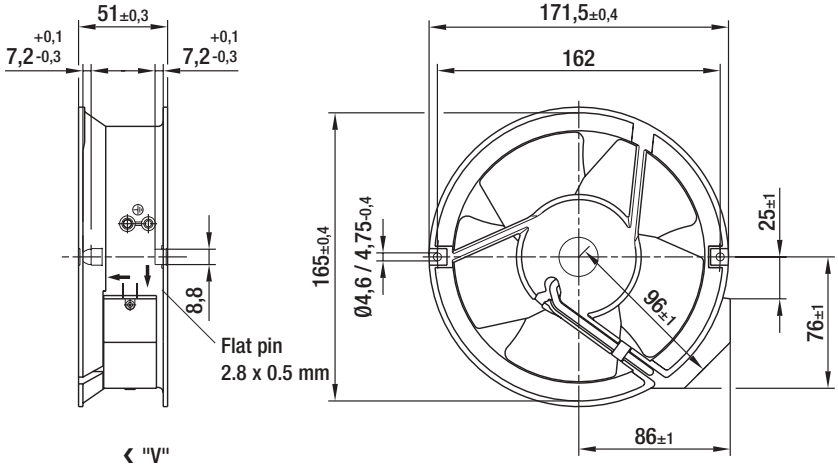
- **Material:** housing made of die-cast aluminium, impeller made of sheet steel (directly welded onto rotor and stove-enamelled in black)
- **Bearings:** maintenance-free ball bearings
- **Direction of rotation:** counter-clockwise, seen on rotor
- **Direction of air flow:** "V", blowing over struts
- **Connection leads:** flat pin terminal 2.8 x 0.5 mm, integrated capacitor
- **Approvals:** UL, VDE, CSA

ebm-papst · Mulfingen

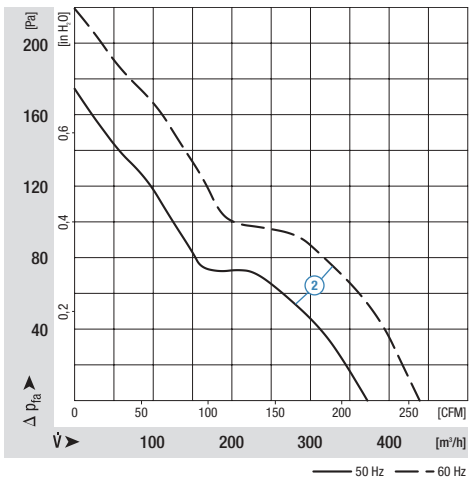
Nominal data

Type	Motor	Characteristic	Voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm min⁻¹	Power input W	Current draw A	Capacitor µF/VDB	Noise level dB(A)	Max. back pressure Pa	Perm. amb. temp. °C	Mass kg	Direction of air flow
W2E 143-AA15 -01	M2E 052-BF	②	115 115	50 60	375 440	2800 3300	24 26	--- ---	--- ---	55 60	--- ---	70 70	1,0	"V"
W2E 143-AA09 -01	M2E 052-BF	②	230 230	50 60	375 440	2800 3300	24 26	--- ---	--- ---	55 60	--- ---	70 70	1,0	"V"

subject to alterations



Characteristics



Guard grille S. 350 f.

Connection lead S. 355

AC axial fans

Ø 143

- **Material:** housing made of die-cast aluminium, impeller made of sheet steel (directly welded onto rotor and stove-enamelled in black)
- **Bearings:** maintenance-free ball bearings
- **Direction of rotation:** counter-clockwise, seen on rotor
- **Direction of air flow:** "V", blowing over struts
- **Connection leads:** flat pin terminal 2.8 x 0.5 mm, integrated capacitor
- **Approvals:** Œ, UL, CSA, VDE

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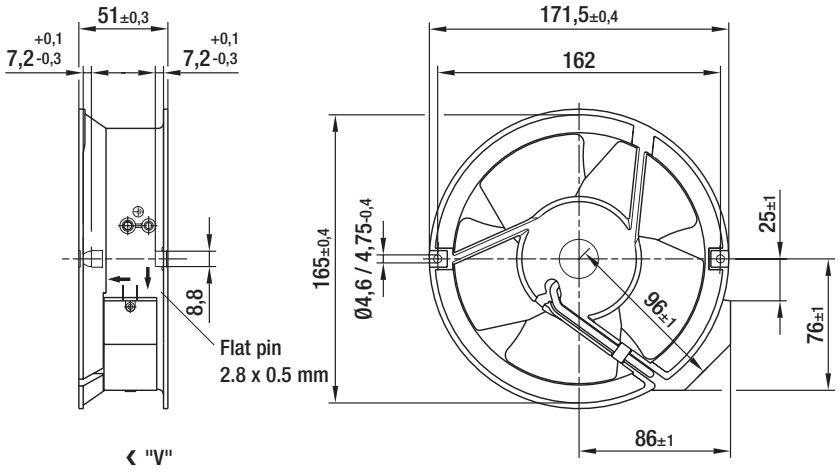
Nominal data

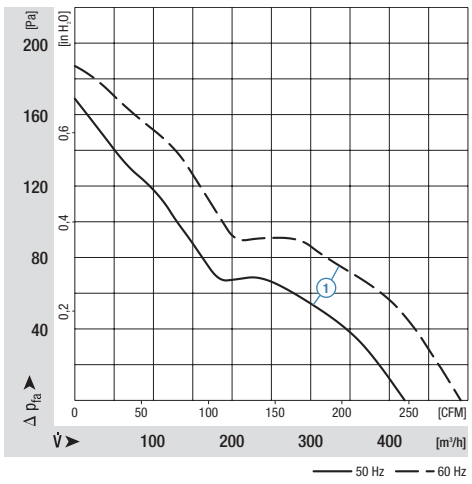
Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass	Direction of air flow
			VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg	
W2E 143-AB15 -01	M2E 052-BF	①	115 115	50 60	420 500	2800 3300	26 29	--- ---	--- ---	54 58	--- ---	60 75	1,0	"V"
W2E 143-AB09 -01	M2E 052-BF	①	230 230	50 60	420 500	2800 3300	26 29	--- ---	--- ---	54 58	--- ---	60 75	1,0	"V"

subject to alterations



‹ "V"

Characteristics



Guard grille S. 350 f.
Connection lead S. 355

ebmpapst

AC axial fans

Ø 200

- **Material:** housing made of die-cast aluminium, impeller made of sheet steel (directly welded onto rotor and stove-enamelled in black)
- **Bearings:** maintenance-free ball bearings
- **Direction of rotation:** counter-clockwise, seen on rotor
- **Direction of air flow:** "V", blowing over struts
- **Connection leads:** wired with capacitor on terminal strip
- **Motor protection:** integrated thermal overload protector
- **Approvals:** UL, VDE, CSA, Œ

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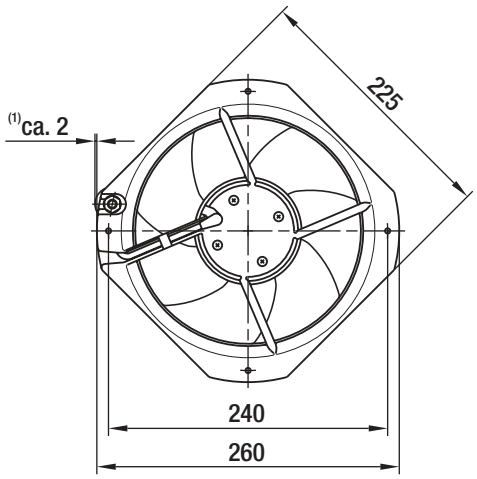
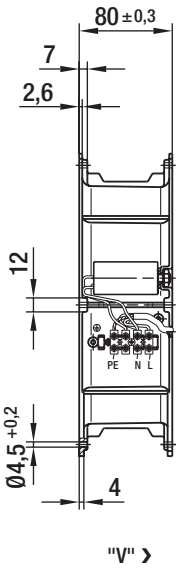
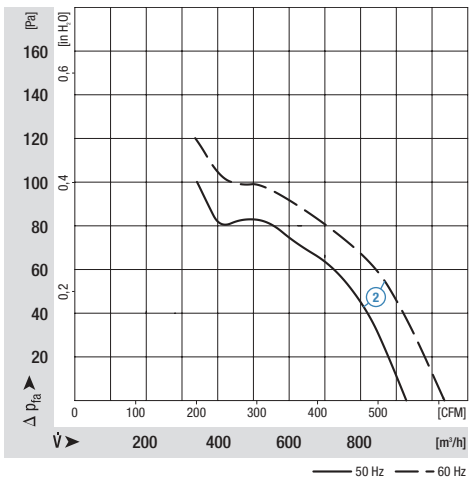
Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass	Direction of air flow
Type	**Motor**		**VAC**	**Hz**	**m³/h**	**min⁻¹**	**W**	**A**	**µF/VDB**	**dB(A)**	**Pa**	**°C**	**kg**	
W2E 200-HK86 -01	M2E 068-BF	②	115 115	50 60	925 1030	2550 2800	64 80	0,58 0,70	5,0/220 5,0/220	59 61	100 120	60 65	2,0	"V"
W2E 200-HK38 -01	M2E 068-BF	②	230 230	50 60	925 1030	2550 2800	64 80	0,29 0,35	1,5/400 1,5/400	59 61	100 120	60 65	2,0	"V"

subject to alterations





Characteristics



Guard grille
S. 351

AC axial fans

Ø 200

- **Material:** housing made of die-cast aluminium, impeller made of sheet steel (directly welded onto rotor and stove-enamelled in black)
- **Bearings:** maintenance-free ball bearings
- **Direction of rotation:** counter-clockwise, seen on rotor
- **Direction of air flow:** "V", blowing over struts
- **Connection leads:** terminal strip
- **Motor protection:** integrated thermal overload protector
- **Approvals:** UL, VDE, CSA, Œ

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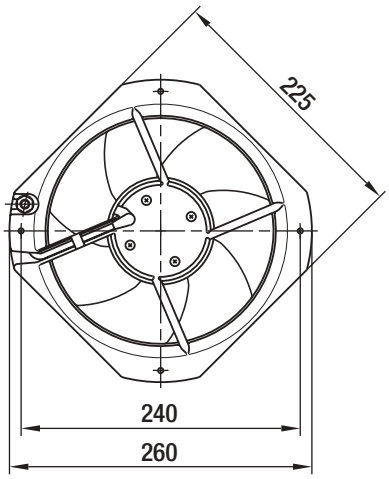
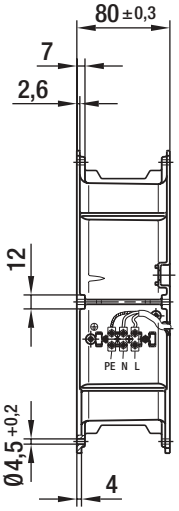
Nominal data

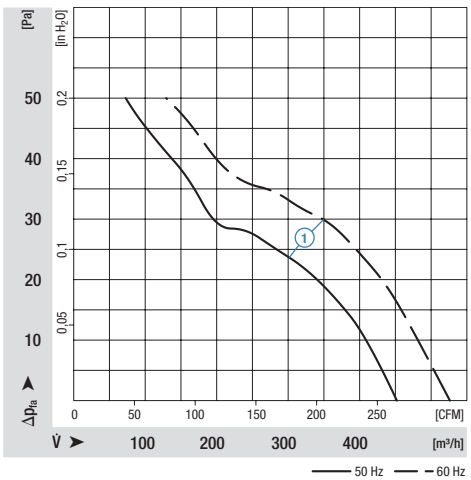
Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass	Direction of air flow
			VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg	
W4S200-HK04 -01	M4S068-BF	①	230	50	450	1370	30	0,21	---	40	50	70	2,0	"V"
			230	60	525	1590	26	0,18	---	44	50	80		

subject to alterations





Characteristics



Guard grille
S. 351

ebmpapst

AC axial fans

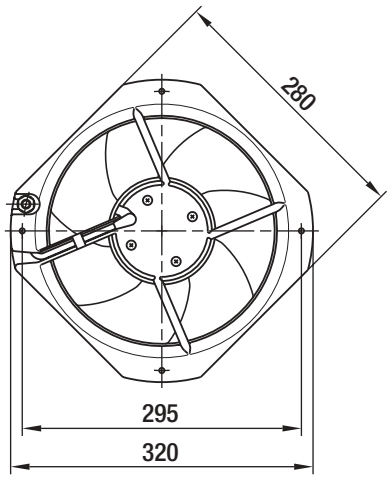
Ø 250

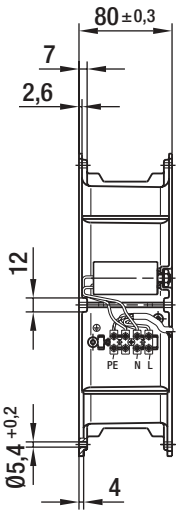
- **Material:** housing made of die-cast aluminium, impeller made of sheet steel (directly welded onto rotor and stove-enamelled in black)
- **Bearings:** maintenance-free ball bearings
- **Direction of rotation:** counter-clockwise, seen on rotor
- **Direction of air flow:** "V", blowing over struts
- **Connection leads:** wired with capacitor on terminal strip
- **Motor protection:** integrated thermal overload protector
- **Approvals:** UL, VDE, CSA, Œ

ebm-papst · Mulfingen

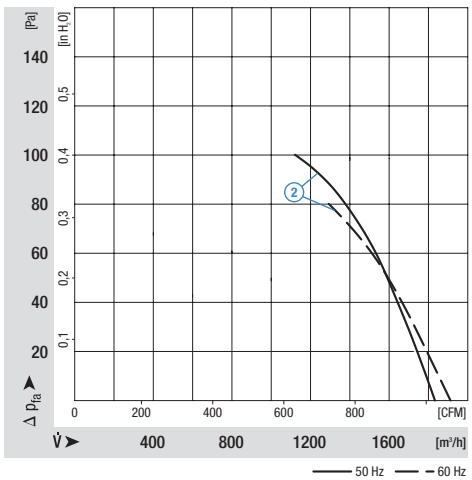
Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass	Direction of air flow
Type	**Motor**		**VAC**	**Hz**	**m³/h**	**min⁻¹**	**W**	**A**	**µF/VDB**	**dB(A)**	**Pa**	**°C**	**kg**	
W2E 250-HL06 -01	M2E 068-CF	②	230 230	50 60	1830 1910	2500 2630	110 150	0,48 0,66	3,0/400 3,0/400	69 70	100 80	50 40	2,0	"V"

subject to alterations





Characteristics



Guard grille
S. 351

AC axial fans

S-Range, Ø 200

ebm-papst · Mulfingen

Nominal data

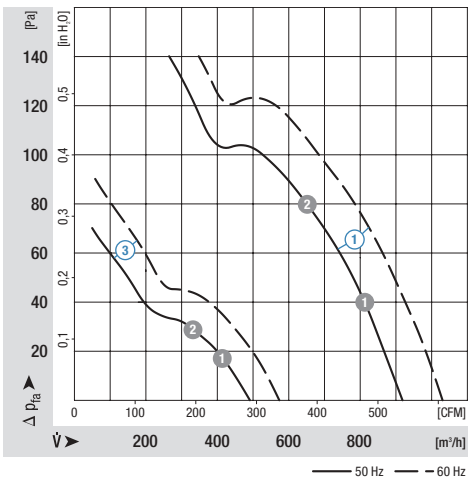
Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
			VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg
*2D 200[1]	M2D068-BF	①	230/400 230/400	50 60	910 1030	2650 3000	65 60	0,19 0,12	--- ---	56 58	140 140	45 70	1,5
*2E 200	M2E068-BF	②	230 230	50 60	910 1030	2650 3000	60 75	0,28 0,31	1,5/400 1,5/400	56 58	150 150	70 70	1,3
*4D 200[1]	M4D068-BF	③	230/400 230/400	50 60	490 570	1450 1700	22 20	0,08 0,06	--- ---	40 44	70 90	80 90	1,3
*4S 200	M4S068-BF	④	230 230	50 60	455 530	1370 1600	30 26	0,21 0,18	--- ---	38 43	50 50	75 80	1,1

subject to alterations

[1] Current draw established at 400 VAC (Y)

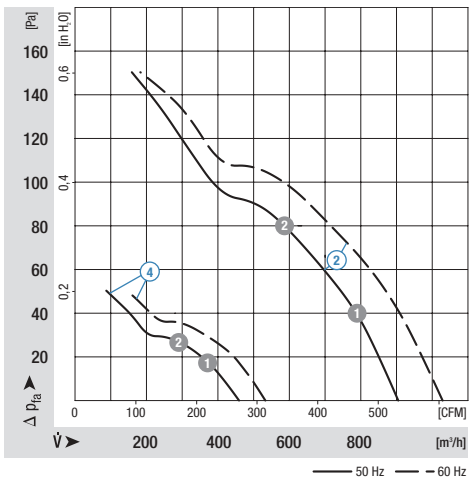
		n [min⁻¹]	P1 [W]
①	1	2595	68
①	2	2525	73
③	1	1430	23
③	2	1420	25

Characteristics



		n [min⁻¹]	P1 [W]
②	1	2555	63
②	2	2455	69
④	1	1350	30
④	2	1335	31

Characteristics



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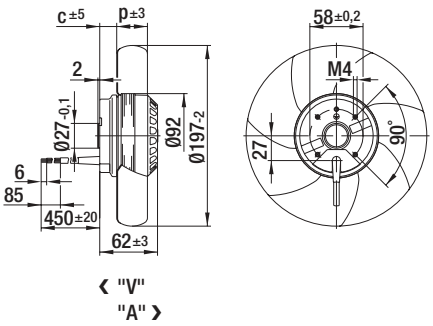
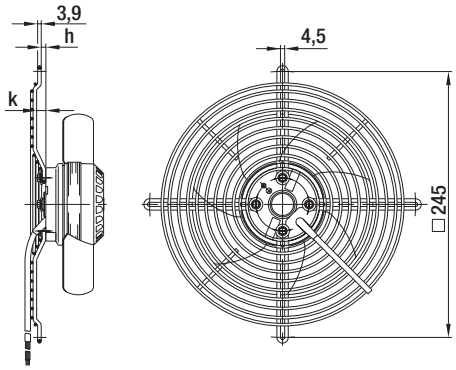
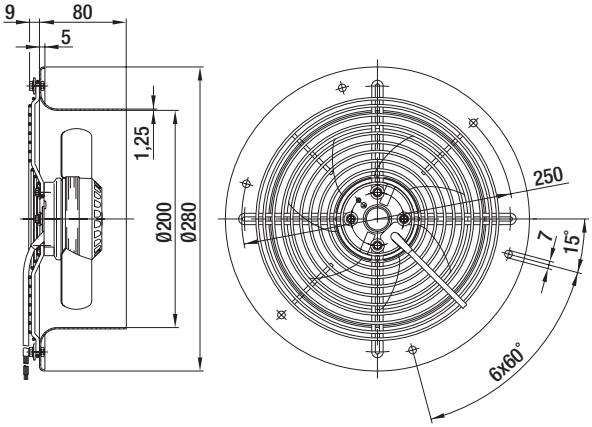
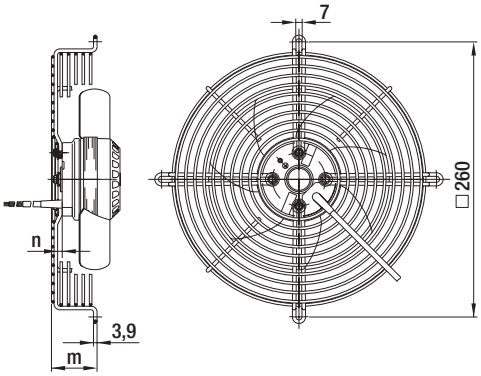
Selection	Cable exit	Direction of air flow					Dimensions					
Type	S/A/B						c	h	k	m	n	p
*2D 200	S	"V"	A2D200-AK18 -01	S2D200-BK18 -01	W2D200-CK18 -01	S2D200-AK18 -01	13	5	10	51	5	48
		"A"	A2D200-AI18 -01	S2D200-BI18 -01	W2D200-CI18 -01	S2D200-AI18 -01	17	0	0	46	0	35
*2E 200	B	"V"	A2E200-AK38 -01	S2E200-BK38 -01	W2E200-CK38 -01	S2E200-AK38 -01	13	5	10	51	5	48
		"A"	A2E200-AI38 -01	S2E200-BI38 -01	W2E200-CI38 -01	S2E200-AI38 -01	17	0	0	46	0	35
*4D 200	S	"V"	A4D200-AK14 -01	S4D200-BK14 -01	W4D200-CK14 -01	S4D200-AK14 -01	13	5	10	51	5	48
		"A"	A4D200-AI14 -01	S4D200-BI14 -01	W4D200-CI14 -01	S4D200-AI14 -01	17	0	0	46	0	35
*4S 200	S	"V"	A4S200-AK04 -01	S4S200-BK04 -01	W4S200-CK04 -01	S4S200-AK04 -01	13	5	10	51	5	48
		"A"	A4S200-AI04 -01	S4S200-BI04 -01	W4S200-CI04 -01	S4S200-AI04 -01	17	0	0	46	0	35









Guard grille S. 346 f.
Wall ring S. 352 f.
Capacitor S. 356 f.
Terminal box S. 358

AC axial fans

S-Range, Ø 250

ebm-papst · Mulfingen

Nominal data

Type	Motor	Characteristic	Voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm min⁻¹	Power input W	Current draw A	Capacitor µF/VDB	Noise level dB(A)	Max. back pressure Pa	Perm. amb. temp. °C	Mass kg
*2D 250[1]	M2D068-CF	①	230/400 230/400	50 60	1830 1950	2500 2650	100 140	0,20 0,23	--- ---	69 70	150 150	65 45	2,1
*2E 250	M2E068-CF	②	230 230	50 60	1820 1970	2450 2600	115 150	0,51 0,66	3,0/400 3,0/400	69 71	120 85	65 50	1,9
*4D 250[1]	M4D068-CF	③	230/400 230/400	50 60	1010 1140	1400 1580	25 32	0,07 0,07	--- ---	54 57	70 70	85 80	1,9
*4E 250	M4E068-BF	④	230 230	50 60	1010 1200	1400 1630	42 45	0,19 0,20	1,5/400 1,5/400	54 58	80 100	55 70	1,9
*4S 250	M4S068-CF	⑤	230 230	50 60	1000 1160	1390 1600	69 63	0,53 0,45	--- ---	54 58	80 80	50 65	1,7

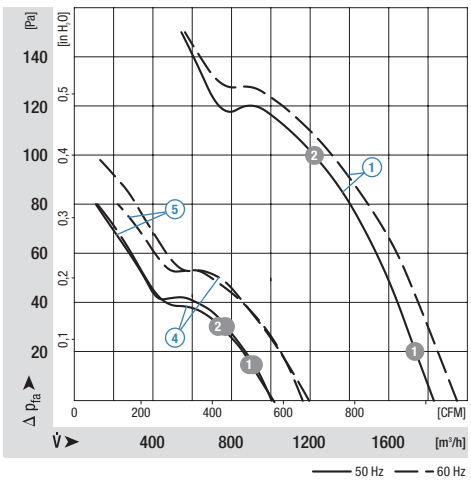
subject to alterations

[1] Current draw established at 400 VAC (Y)

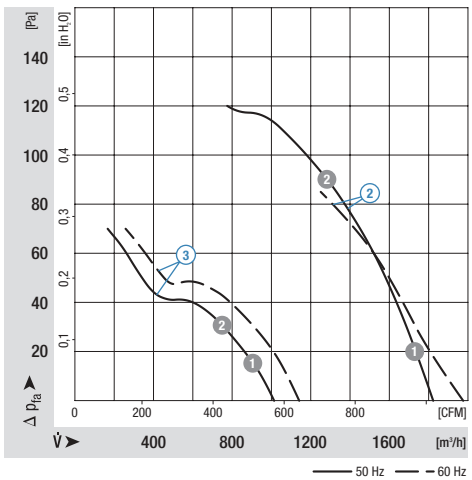
		n [min⁻¹]	P1 [W]
①	❶	2455	106
①	❷	2310	125
④	❶	1370	43
④	❷	1360	45
⑤	❶	1370	71
⑤	❷	1360	73

		n [min⁻¹]	P1 [W]
②	❶	2455	116
②	❷	2290	132
③	❶	1375	27
③	❷	1350	30

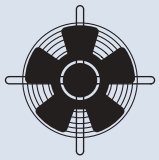
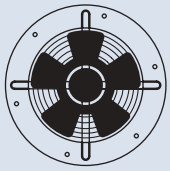
Characteristics



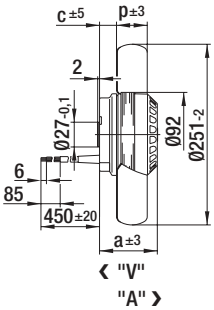
Characteristics

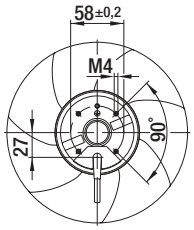


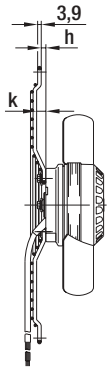
ebmpapst

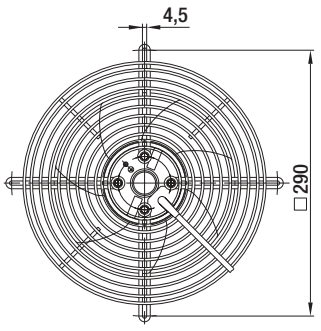




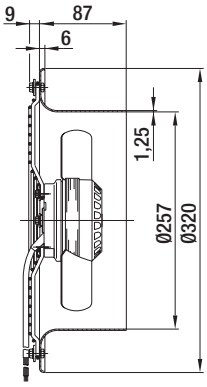

Selection	Cable exit	Direction of air flow					Dimensions						
Type	S/A/B						a	c	h	k	m	n	p
*2D 250	S	"V"	A2D250-AH02 -01	S2D250-BH02 -01	W2D250-CH02 -01	S2D250-AH02 -01	72	18	5	10	50	5	34
		"A"	A2D250-AI02 -01	S2D250-BI02 -01	W2D250-CI02 -01	S2D250-AI02 -01	72	21	0	0	45	0	34
*2E 250	B	"V"	A2E250-AL06 -01	S2E250-BL06 -01	W2E250-CL06 -01	S2E250-AL06 -01	72	18	5	10	50	5	34
		"A"	A2E250-AM06 -01	S2E250-BM06 -01	W2E250-CM06 -01	S2E250-AM06 -01	72	25	0	0	45	0	32
*4D 250	S	"V"	A4D250-AH22 -01	S4D250-BH22 -01	W4D250-CH22 -01	S4D250-AH22 -01	72	18	5	10	50	5	34
		"A"	A4D250-AI22 -01	S4D250-BI22 -01	W4D250-CI22 -01	S4D250-AI22 -01	72	23	0	0	45	0	34
*4E 250	S	"V"	A4E250-AH02 -01	S4E250-BH02 -01	W4E250-CH02 -01	S4E250-AH02 -01	62	14	5	10	50	5	34
		"A"	A4E250-AI02 -01	S4E250-BI02 -01	W4E250-CI02 -01	S4E250-AI02 -01	62	22	0	0	45	0	34
*4S 250	S	"V"	A4S250-AH02 -01	S4S250-BH02 -01	W4S250-CH02 -01	S4S250-AH02 -01	72	18	5	10	50	5	34
		"A"	A4S250-AI02 -01	S4S250-BI02 -01	W4S250-CI02 -01	S4S250-AI02 -01	72	23	0	0	45	0	34

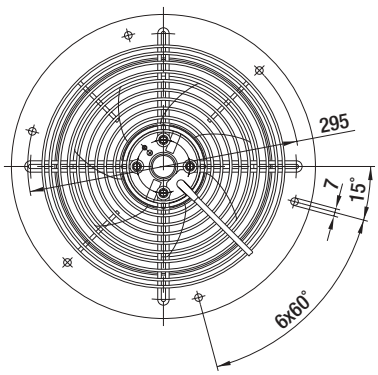


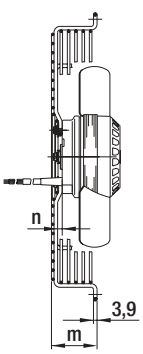


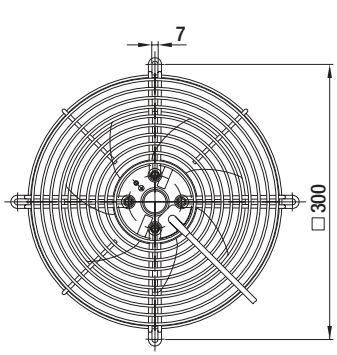








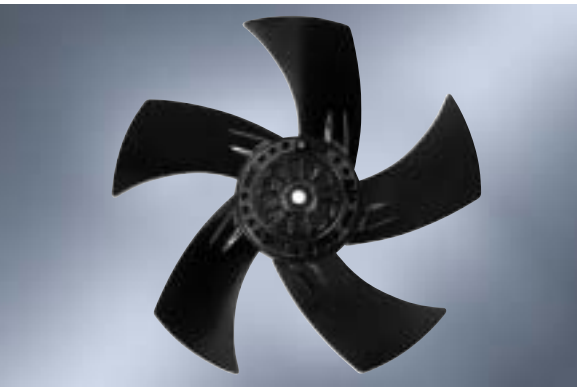




Guard grille S. 346 f.
Wall ring S. 352 f.
Capacitor S. 356 f.
Terminal box S. 358

AC axial fans 2 poles

S-Range, Ø 300



ebm-papst · Mulfingen

Nominal data

Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
			VAC	Hz	m^3/h	min^{-1}	W	A	µF/VDB	dB(A)	Pa	°C	kg
*2D 300[1]	M2D074-DF	①	230/400 230/400	50 60	3290 3570	2600 2850	195 275	0,33 0,43	--- ---	74 75	200 150	70 45	3,0
*2E 300	M2E074-DF	②	230 230	50 60	3410 3740	2700 3000	230 350	1,10 1,55	8,0/400 8,0/400	73 76	200 50	50 40	3,0

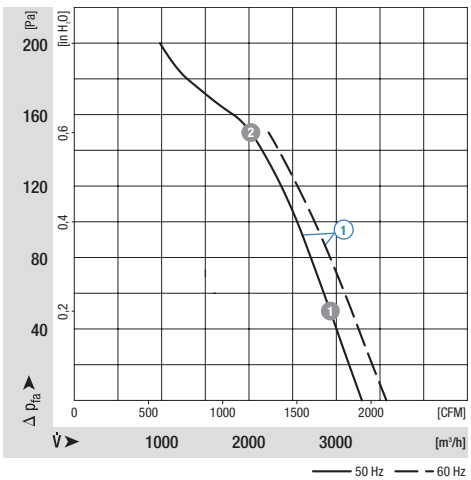
subject to alterations

[1] Current draw established at 400 VAC (Y)

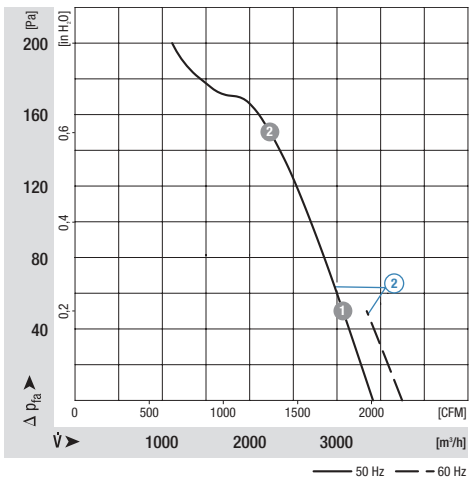
		n [min^{-1}]	P_1 [W]
①	1	2570	216
①	2	2450	256

		n [min^{-1}]	P_1 [W]
②	1	2680	252
②	2	2560	290

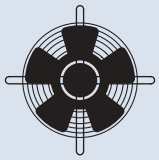
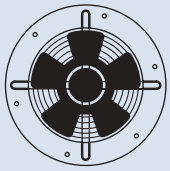
Characteristics

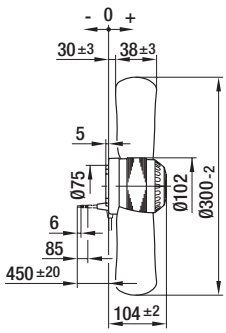


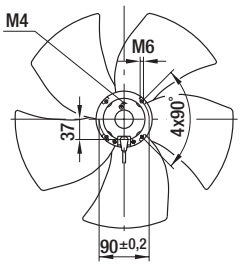
Characteristics



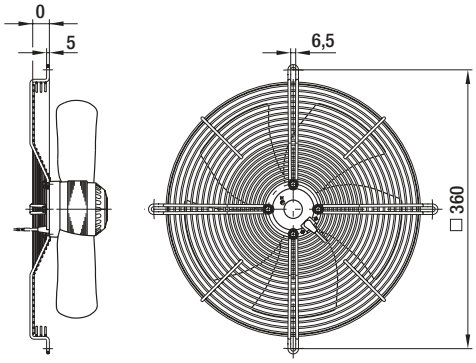
ebmpapst

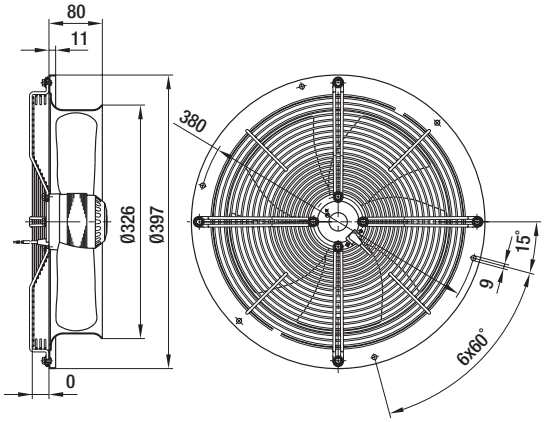
Selection	Cable exit	Direction of air flow				
Type	**S/A/B**					
***2D 300**	B	"V"	A2D300-AP02 -01	S2D300-BP02 -30	W2D300-CP02 -30	S2D300-AP02 -30
		"A"	A2D300-AP02 -02	S2D300-BP02 -31	W2D300-CP02 -31	S2D300-AP02 -31
***2E 300**	B	"V"	A2E300-AP02 -01	S2E300-BP02 -30	W2E300-CP02 -30	S2E300-AP02 -30
		"A"	A2E300-AP02 -02	S2E300-BP02 -31	W2E300-CP02 -31	S2E300-AP02 -31

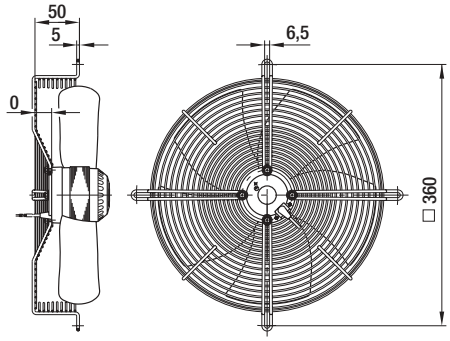




‹ "V"
"A" ›

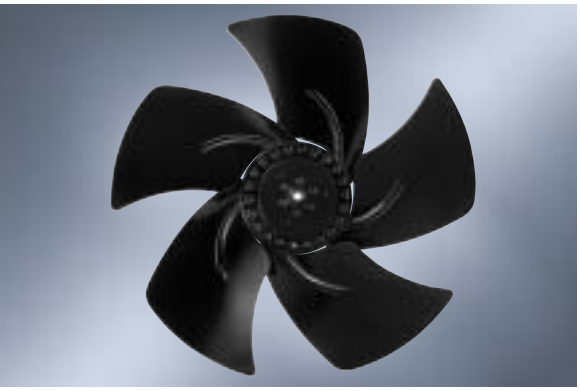






AC axial fans 4 poles

S-Range, Ø 300



ebm-papst · Mulfingen

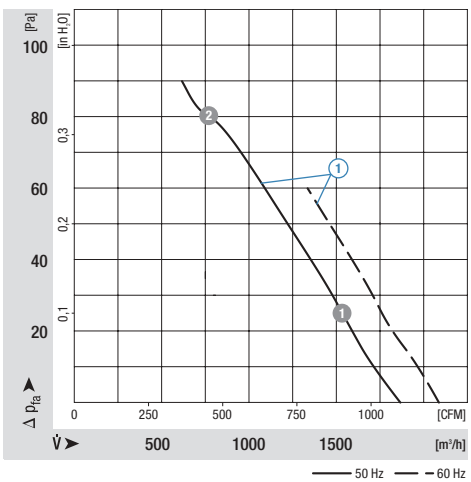
Nominal data

Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
			VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg
*4D 300	M4D068-CF	①	230/400 230/400	50 60	1860 2080	1370 1540	60 75	0,17 0,15	--- ---	57 60	90 60	45 40	1,9
*4E 300	M4E068-CF	②	230 230	50 60	1740 2040	1400 1630	68 92	0,30 0,41	2,0/400 2,0/400	59 63	80 70	60 45	1,9

subject to alterations

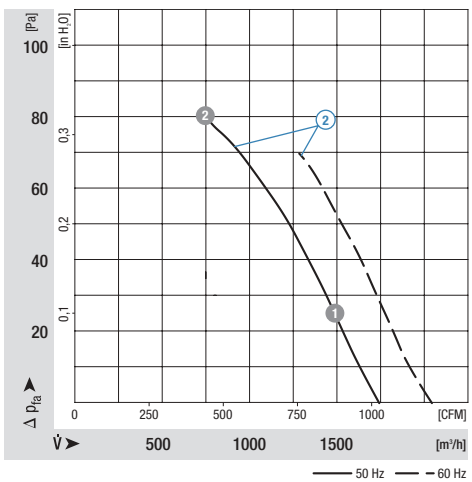
	n [min⁻¹]	P_1 [W]
① ①	1350	66
① ②	1260	88

Characteristics



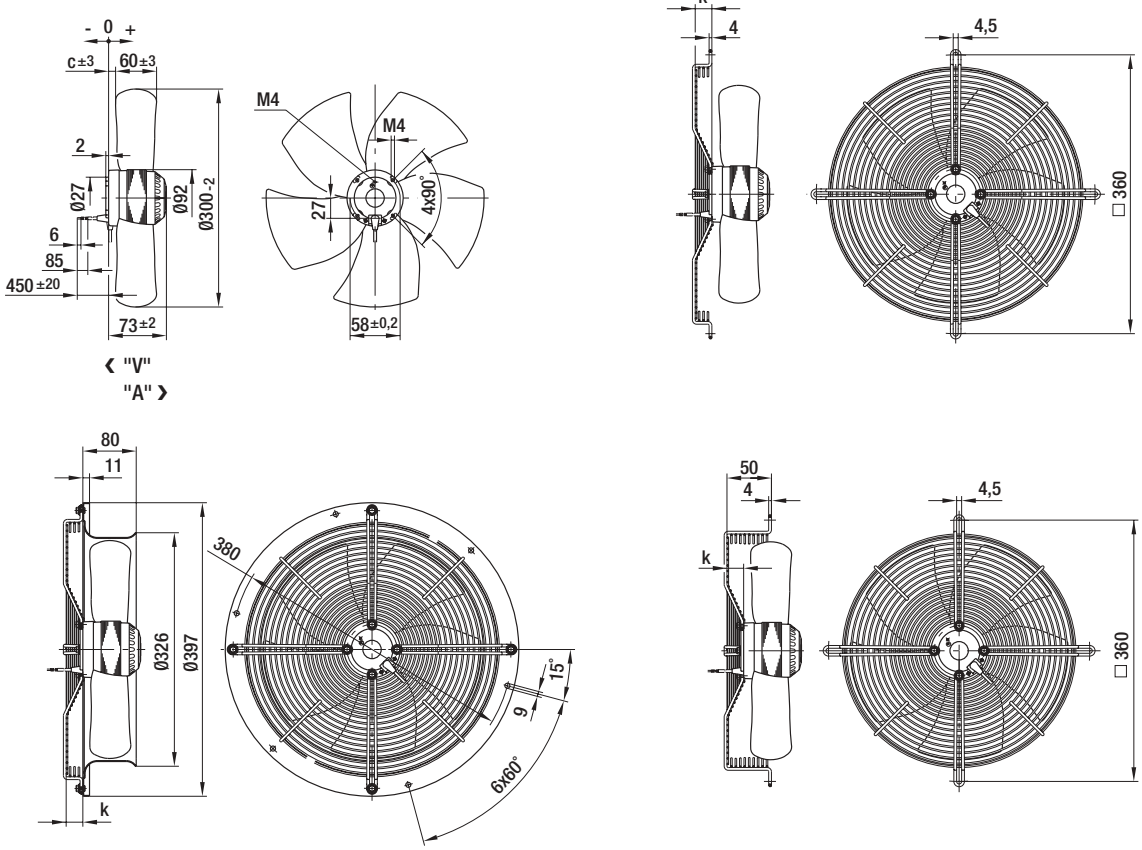
	n [min⁻¹]	P_1 [W]
② ①	1390	72
② ②	1290	88

Characteristics



ebmpapst

Selection							Dimensions	
Type	S/A/B	Cable exit	Direction of air flow				c	k
*4D 300	A		"V"	A4D300-AP28 -01	S4D300-BP28 -30	W4D300-CP28 -30	17	0
			"A"	A4D300-AP28 -02	S4D300-BP28 -31	W4D300-CP28 -31	-7	30
*4E 300	A		"V"	A4E300-AP26 -01	S4E300-BP26 -30	W4E300-CP26 -30	17	0
			"A"	A4E300-AP26 -02	S4E300-BP26 -31	W4E300-CP26 -31	-7	30



‹ "V"
"A" ›

AC axial fans

S-Range, Ø 315

ebm-papst · Mulfingen

Nominal data

Type	Motor	Characteristic	Voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm min⁻¹	Power input W	Current draw A	Capacitor µF/VDB	Noise level dB(A)	Max. back pressure Pa	Perm. amb. temp. °C	Mass kg
*4D 315[1]	M4D068-DF	①	230/400 230/400	50 60	2450 2810	1400 1620	85 110	0,26 0,24	--- ---	60 64	120 120	55 55	2,4
*4E 315	M4E068-DF	②	230 230	50 60	2440 2840	1410 1650	102 120	0,52 0,53	4,0/400 4,0/400	59 64	120 120	55 55	2,4
*6E 315	M6E068-DF	③	230 230	50 60	1650 1950	950 1120	65 68	0,33 0,30	2,0/400 2,0/450	51 55	70 80	50 60	2,4

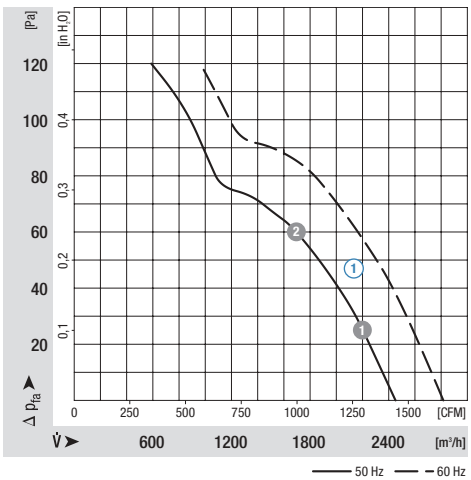
subject to alterations

[1] Current draw established at 400 VAC (Y)

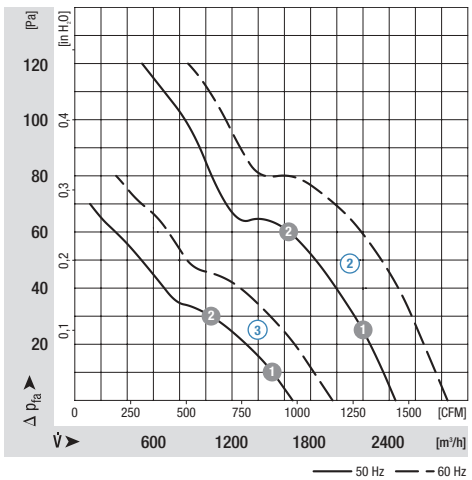
	n [min⁻¹]	P1 [W]
① 1	1400	90
① 2	1380	103

	n [min⁻¹]	P1 [W]
② 1	1400	108
② 2	1380	120
③ 1	945	63
③ 2	930	66

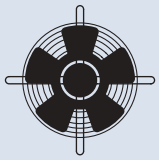
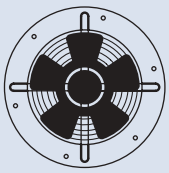
Characteristics

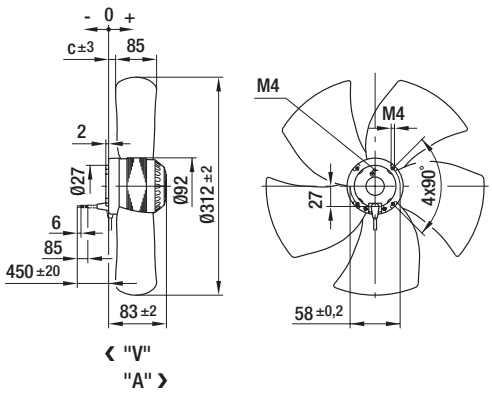


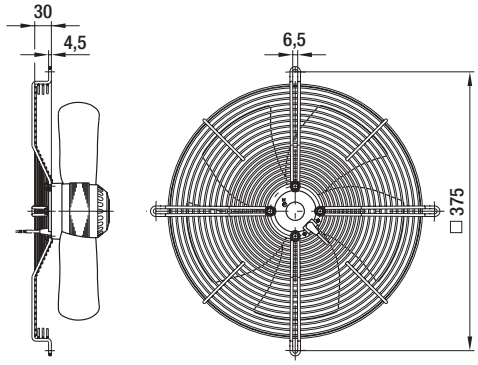
Characteristics

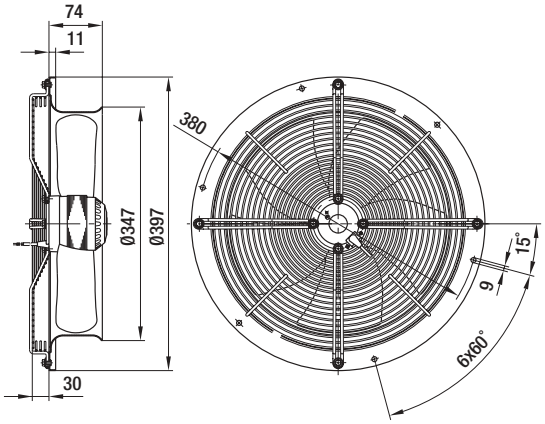


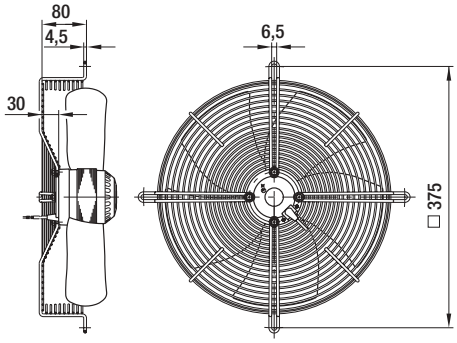
ebmpapst

Selection	Cable exit	Direction of air flow					Dimensions
Type	**S/A/B**						**c**
***4D 315**	A	"V"	A4D315-AP10 -01	S4D315-BP10 -30	W4D315-CP10 -30	S4D315-AP10 -30	5
		"A"	A4D315-AP10 -02	S4D315-BP10 -31	W4D315-CP10 -31	S4D315-AP10 -31	-7
***4E 315**	A	"V"	A4E315-AP18 -01	S4E315-BP18 -30	W4E315-CP18 -30	S4E315-AP18 -30	5
		"A"	A4E315-AP18 -02	S4E315-BP18 -31	W4E315-CP18 -31	S4E315-AP18 -31	-7
***6E 315**	A	"V"	A6E315-AP02 -01	S6E315-BP02 -30	W6E315-CP02 -30	S6E315-AP02 -30	5
		"A"	A6E315-AP02 -02	S6E315-BP02 -31	W6E315-CP02 -31	S6E315-AP02 -31	-7









AC axial fans

S-Range, Ø 330

ebm-papst · Mulfingen

Nominal data

Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
			VAC	Hz	m^3/h	min^{-1}	W	A	µF/VDB	dB(A)	Pa	°C	kg
*4D 330[1]	M4D068-DF	①	230/400 230/400	50 60	2800 3180	1390 1570	100 130	0,26 0,24	--- ---	59 63	120 120	55 45	2,6
*4E 330	M4E068-DF	②	230 230	50 60	2830 3230	1390 1600	120 140	0,57 0,60	4,0/400 4,0/400	63 67	90 75	50 40	2,5
*6E 330	M6E068-DF	③	230 230	50 60	1940 2280	940 1100	65 72	0,33 0,32	2,0/400 2,0/450	49 53	60 70	50 65	2,5

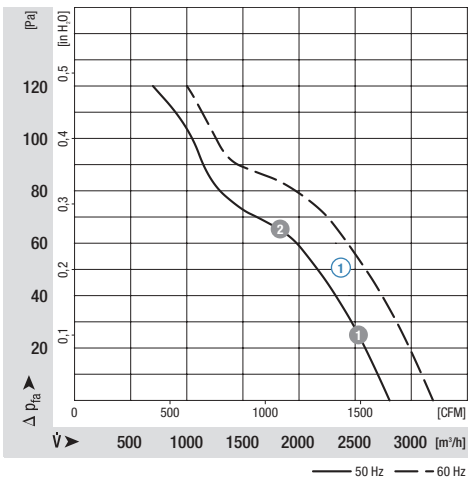
subject to alterations

[1] Current draw established at 400 VAC (Y)

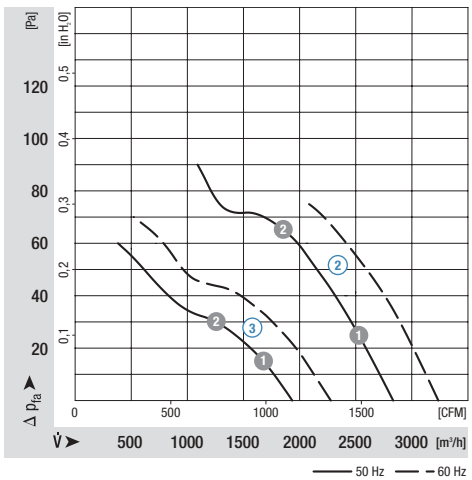
	n [min^{-1}]	P_1 [W]
① 1	1370	102
① 2	1325	126

	n [min^{-1}]	P_1 [W]
② 1	1375	122
② 2	1325	140
③ 1	925	68
③ 2	910	70

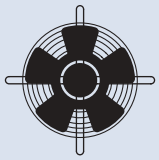
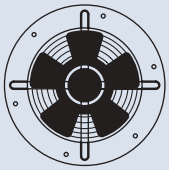
Characteristics

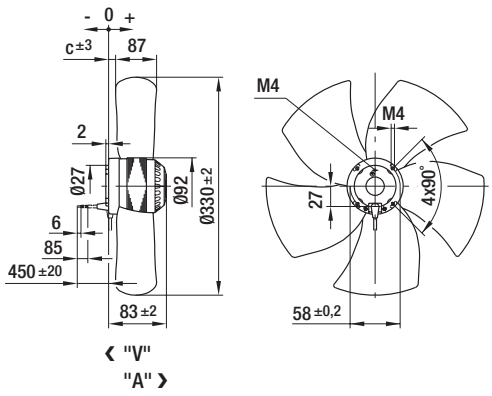


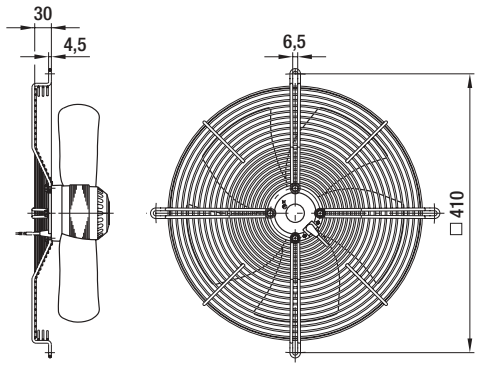
Characteristics

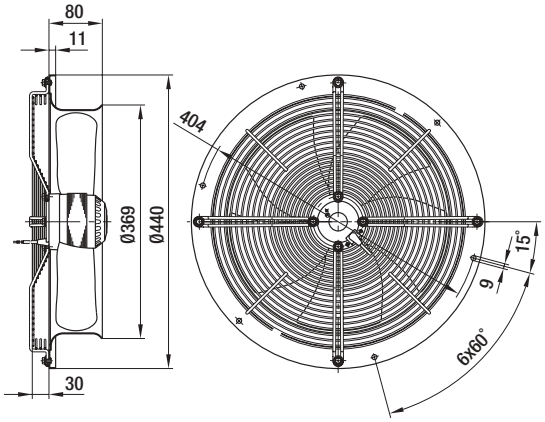


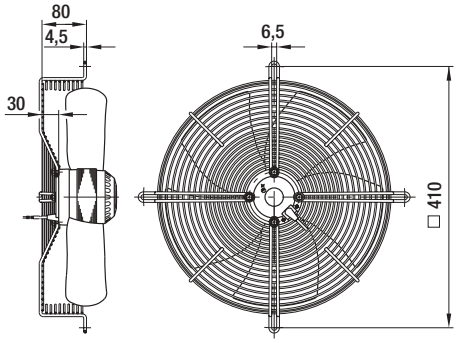
ebmpapst

Selection	Cable exit	Direction of air flow					Dimensions
Type	**S/A/B**						**c**
***4D 330**	A	"V"	A4D330-AP10 -01	S4D330-BP10 -30	W4D330-CP10 -30	S4D330-AP10 -30	6
		"A"	A4D330-AP10 -02	S4D330-BP10 -31	W4D330-CP10 -31	S4D330-AP10 -31	-8
***4E 330**	A	"V"	A4E330-AP18 -01	S4E330-BP18 -30	W4E330-CP18 -30	S4E330-AP18 -30	6
		"A"	A4E330-AP18 -02	S4E330-BP18 -31	W4E330-CP18 -31	S4E330-AP18 -31	-8
***6E 330**	A	"V"	A6E330-AP02 -01	S6E330-BP02 -30	W6E330-CP02 -30	S6E330-AP02 -30	6
		"A"	A6E330-AP02 -02	S6E330-BP02 -31	W6E330-CP02 -31	S6E330-AP02 -31	-8









AC axial fans

S-Range, Ø 350

ebm-papst · Mulfingen

Nominal data

Type	Motor	Characteristic	Voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm min⁻¹	Power input W	Current draw A	Capacitor µF/VDB	Noise level dB(A)	Max. back pressure Pa	Perm. amb. temp. °C	Mass kg
*4D 350[1]	M4D074-DF	①	230/400 230/400	50 60	3140 3630	1420 1640	115 160	0,33 0,34	--- ---	64 67	180 180	55 40	3,6
*4E 350[2]	M4E074-DF	②	230 230	50 60	3110 3540	1400 1590	130 190	0,58 0,83	4,0/400 4,0/400	64 67	90 60	45 45	3,6
*6E 350	M6E074-DF	③	230 230	50 60	2120 2460	945 1100	65 85	0,31 0,37	2,0/450 2,0/450	54 58	75 65	70 55	3,6

subject to alterations

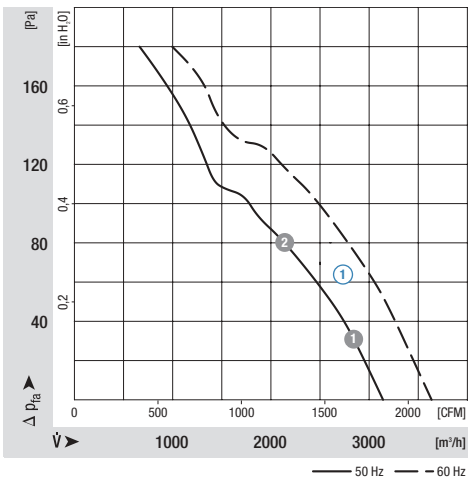
[1] 400 VAC Δ/Y for two speed steps available on request, current draw established at 400 VAC (Y)

[2] Insulation class "F"

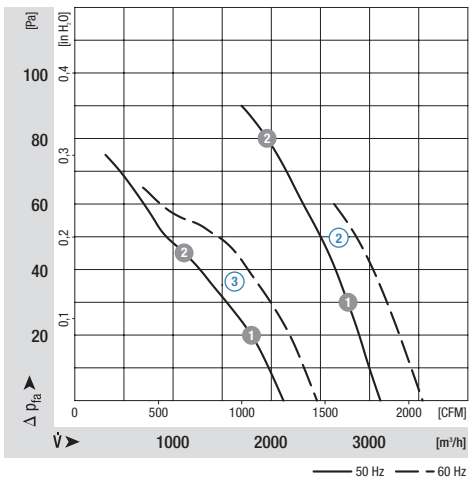
		n [min⁻¹]	P_1 [W]
①	1	1415	126
①	2	1385	152

		n [min⁻¹]	P_1 [W]
②	1	1385	140
②	2	1335	160
③	1	930	69
③	2	895	78

Characteristics

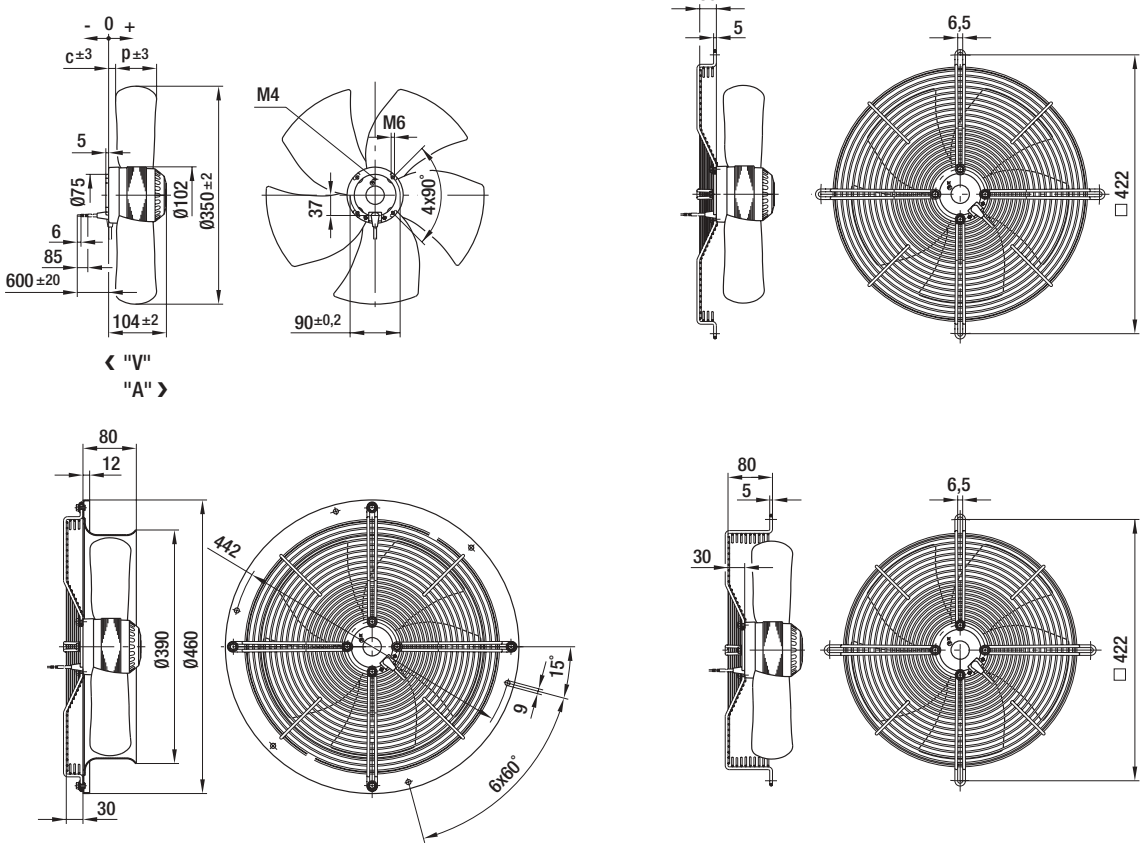


Characteristics



ebmpapst

Selection							Dimensions	
Type	Cable exit	Direction of air flow					c	p
*4D 350	B	"V"	A4D350-AP08 -01	S4D350-BP08 -30	W4D350-CP08 -30	S4D350-AP08 -30	10	92
		"A"	A4D350-AP08 -02	S4D350-BP08 -31	W4D350-CP08 -31	S4D350-AP08 -31	0	86
*4E 350	B	"V"	A4E350-AP06 -01	S4E350-BP06 -30	W4E350-CP06 -30	S4E350-AP06 -30	10	92
		"A"	A4E350-AP06 -02	S4E350-BP06 -31	W4E350-CP06 -31	S4E350-AP06 -31	0	86
*6E 350	B	"V"	A6E350-AP24 -01	S6E350-BP24 -30	W6E350-CP24 -30	S6E350-AP24 -30	10	92
		"A"	A6E350-AP24 -02	S6E350-BP24 -31	W6E350-CP24 -31	S6E350-AP24 -31	0	86



‹ "V"
"A" ›

AC axial fans

S-Range, Ø 400

ebm-papst · Mulfingen

Nominal data

Type	Motor	Characteristic	Voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm min⁻¹	Power input W	Current draw A	Capacitor µF/VDB	Noise level dB(A)	Max. back pressure Pa	Perm. amb. temp. °C	Mass kg
*4D 400[1]	M4D074-EI	①	230/400 230/400	50 60	4000 4610	1450 1690	135 185	0,44 0,39	--- ---	68 72	150 120	40 40	4,2
*4E 400	M4E074-EI	②	230 230	50 60	4235 4950	1430 1700	160 240	0,73 1,06	6,0/400 6,0/400	69 73	150 75	40 40	4,2
*6E 400[2]	M6E074-DF	③	230 230	50 60	3290 3780	940 1080	120 170	0,55 0,75	3,0/450 3,0/400	59 62	50 40	40 40	4,0

subject to alterations

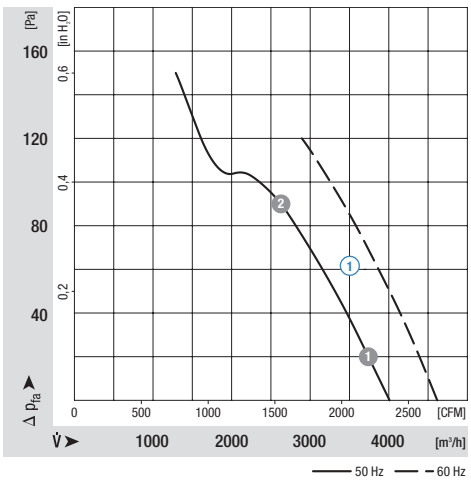
[1] 400 VAC Δ/Y for two speed steps available on request, current draw established at 400 VAC (Y)

[2] Insulation class "F"

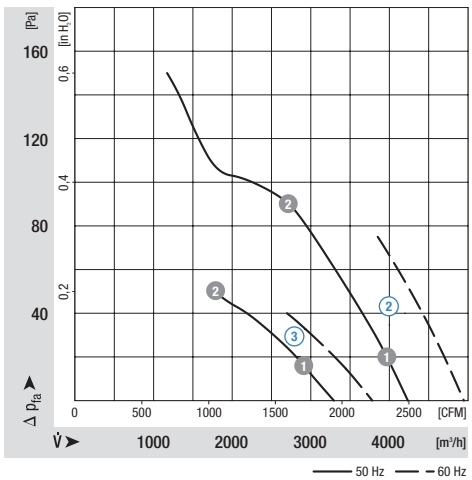
	n [min⁻¹]	P1 [W]
① 1	1440	152
① 2	1415	195

	n [min⁻¹]	P1 [W]
② 1	1430	172
② 2	1395	210
③ 1	935	126
③ 2	895	140

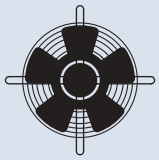
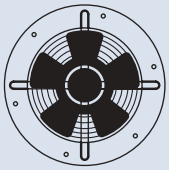
Characteristics



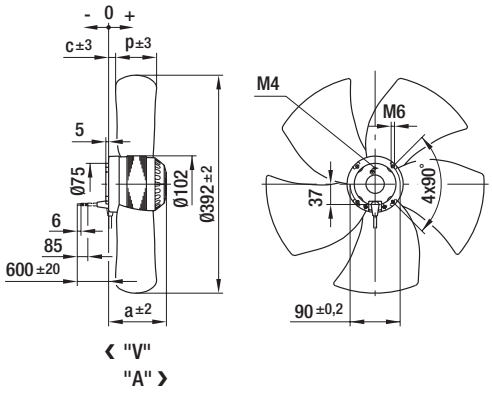
Characteristics

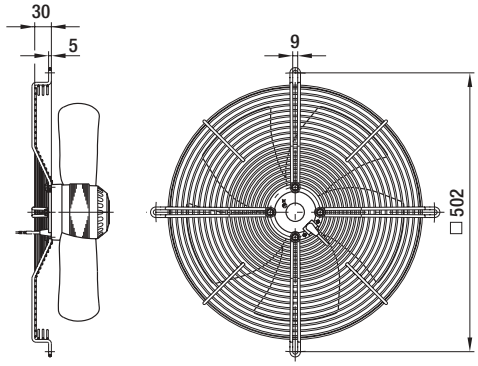


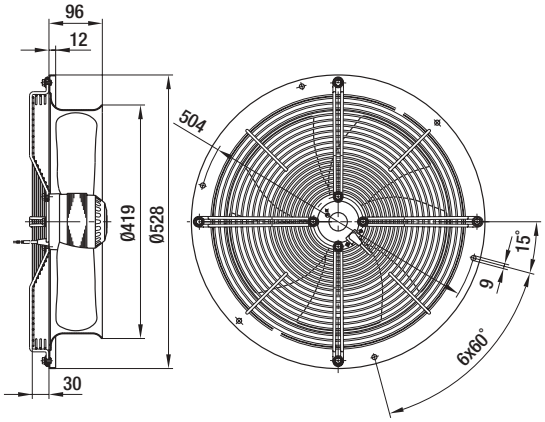
ebmpapst

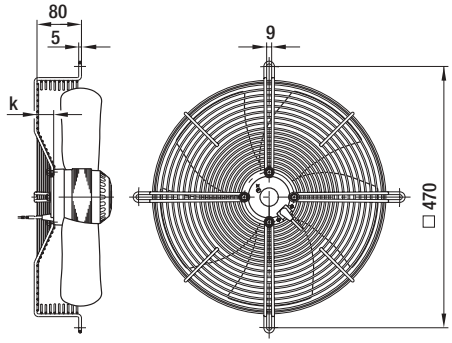





Selection	Cable exit	Direction of air flow					Dimensions			
Type	S/A/B						a	c	p	k
*4D 400	B	"V"	A4D400-AP12 -01	S4D400-BP12 -30	W4D400-CP12 -30	S4D400-AP12 -03	117	28	68	10
		"A"	A4D400-AP12 -02	S4D400-BP12 -31	W4D400-CP12 -31	S4D400-AP12 -04	117	19	62	10
*4E 400	B	"V"	A4E400-AP02 -01	S4E400-BP02 -30	W4E400-CP02 -30	S4E400-AP02 -03	117	28	68	10
		"A"	A4E400-AP02 -02	S4E400-BP02 -31	W4E400-CP02 -31	S4E400-AP02 -04	117	19	62	10
*6E 400	B	"V"	A6E400-AP10 -01	S6E400-BP10 -30	W6E400-CP10 -30	S6E400-AP10 -30	104	-5	90	30
		"A"	A6E400-AP10 -02	S6E400-BP10 -31	W6E400-CP10 -31	S6E400-AP10 -31	104	14	88	30









Guard grille S. 346 ff.
Wall ring S. 352 ff.
Capacitor S. 356 f.
Terminal box S. 358

AC axial fans

S-Range, Ø 420

ebm-papst · Mulfingen

Nominal data

Type	Motor	Characteristic	Voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm min⁻¹	Power input W	Current draw A	Capacitor µF/VDB	Noise level dB(A)	Max. back pressure Pa	Perm. amb. temp. °C	Mass kg
*4D 420[1]	M4D074-GA	①	230/400 230/400	50 60	4890 5635	1430 1660	160 235	0,44 0,45	--- ---	69 72	160 120	65 40	4,8
*4E 420	M4E074-GA	②	230 230	50 60	4830 5630	1430 1680	200 285	0,94 1,25	7,0/400 7,0/400	70 74	150 50	50 40	4,8
*6E 420[2]	M6E074-EI	③	230 230	50 60	3940 4570	940 1090	145 205	0,67 0,90	4,0/450 4,0/450	60 63	90 80	50 45	4,4

subject to alterations

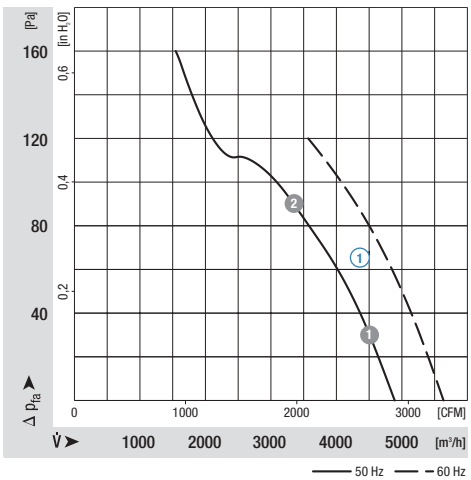
[1] 400 VAC Δ/Y for two speed steps available on request, current draw established at 400 VAC (Y)

[2] Insulation class "F"

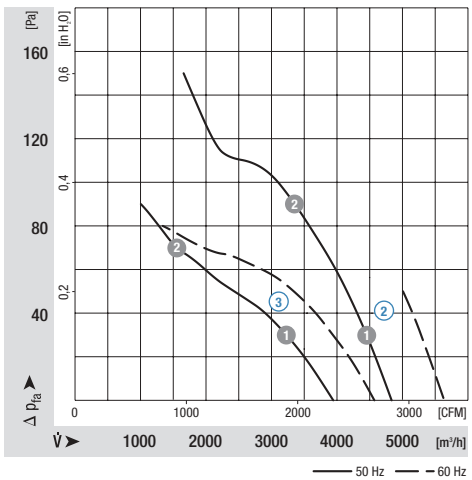
	n [min⁻¹]	P1 [W]
① 1	1420	185
① 2	1390	237

	n [min⁻¹]	P1 [W]
② 1	1430	220
② 2	1400	260
③ 1	930	155
③ 2	890	176

Characteristics

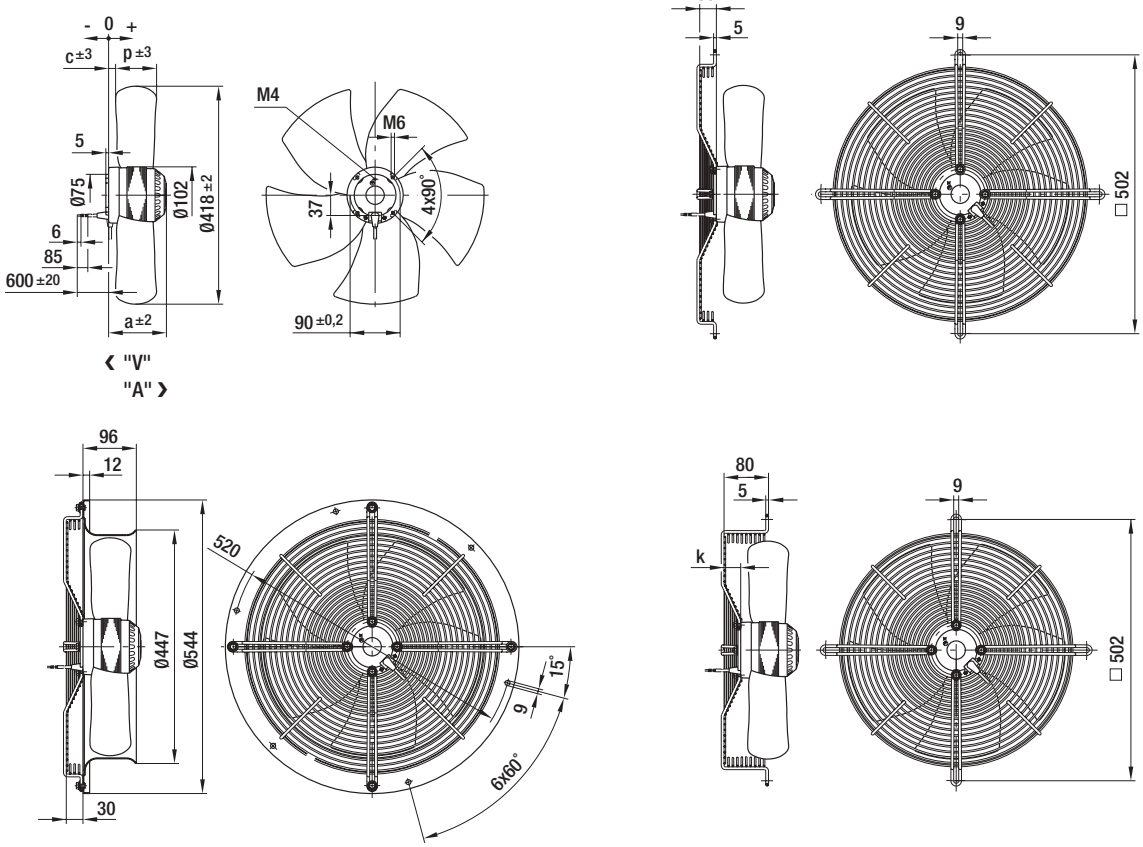


Characteristics



ebmpapst

Selection							Dimensions			
Type	Cable exit	Direction of air flow					a	c	p	k
*4D 420	B	"V"	A4D420-AP02 -01	S4D420-BP02 -30	W4D420-CP02 -30	S4D420-AP02 -03	129	28	67	0
		"A"	A4D420-AP02 -02	S4D420-BP02 -31	W4D420-CP02 -31	S4D420-AP02 -04	129	25	67	0
*4E 420	B	"V"	A4E420-AP02 -01	S4E420-BP02 -30	W4E420-CP02 -30	S4E420-AP02 -03	129	28	67	0
		"A"	A4E420-AP02 -02	S4E420-BP02 -31	W4E420-CP02 -31	S4E420-AP02 -04	129	25	67	0
*6E 420	B	"V"	A6E420-AP02 -01	S6E420-BP02 -30	W6E420-CP02 -30	S6E420-AP02 -30	117	2	89	30
		"A"	A6E420-AP02 -02	S6E420-BP02 -31	W6E420-CP02 -31	S6E420-AP02 -31	117	21	89	30



❮ "V"
"A" ❯

AC axial fans

S-Range, Ø 450

ebm-papst · Mulfingen

Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
Type	**Motor**		**VAC**	**Hz**	**m³/h**	**min⁻¹**	**W**	**A**	**µF/VDB**	**dB(A)**	**Pa**	**°C**	**kg**
***4D 450**[1][2]	M4D074-GA	①	230/400 230/400	50 60	5440 6040	1380 1540	200 285	0,48 0,53	--- ---	72 75	120 70	45 45	5,0
***4E 450**[2]	M4E074-GA	②	230 230	50 60	5700 6500	1400 1600	245 355	1,10 1,55	8,0/400 8,0/400	73 76	85 35	40 40	5,0
***6E 450**	M6E074-GA	③	230 230	50 60	4725 5450	980 1070	165 225	0,80 0,98	4,0/450 4,0/450	63 67	70 45	40 40	5,0

subject to alterations

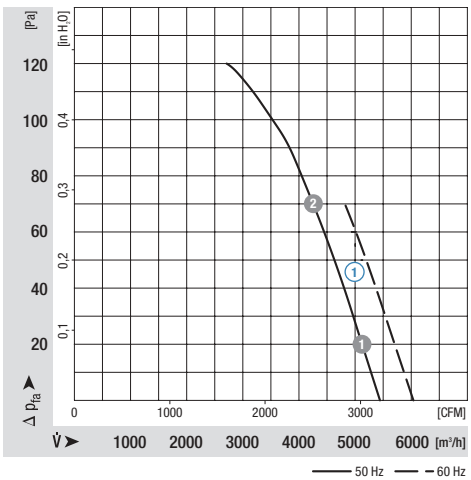
[1] 400 VAC Δ/Y for two speed steps available on request, current draw established at 400 VAC (Y)

[2] Insulation class "F"

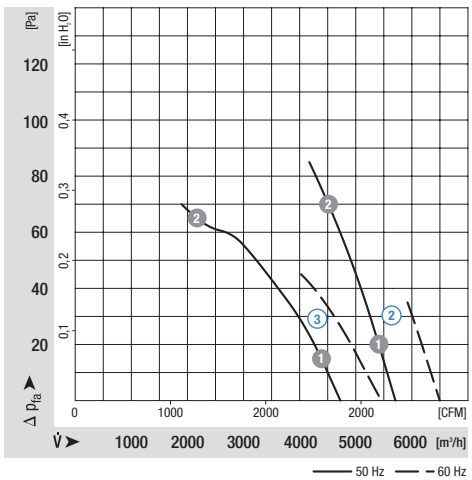
		n [min⁻¹]	P_1 [W]
①	①	1360	220
①	②	1330	258

		n [min⁻¹]	P_1 [W]
②	①	1390	258
②	②	1360	292
③	①	930	171
③	②	870	200

Characteristics

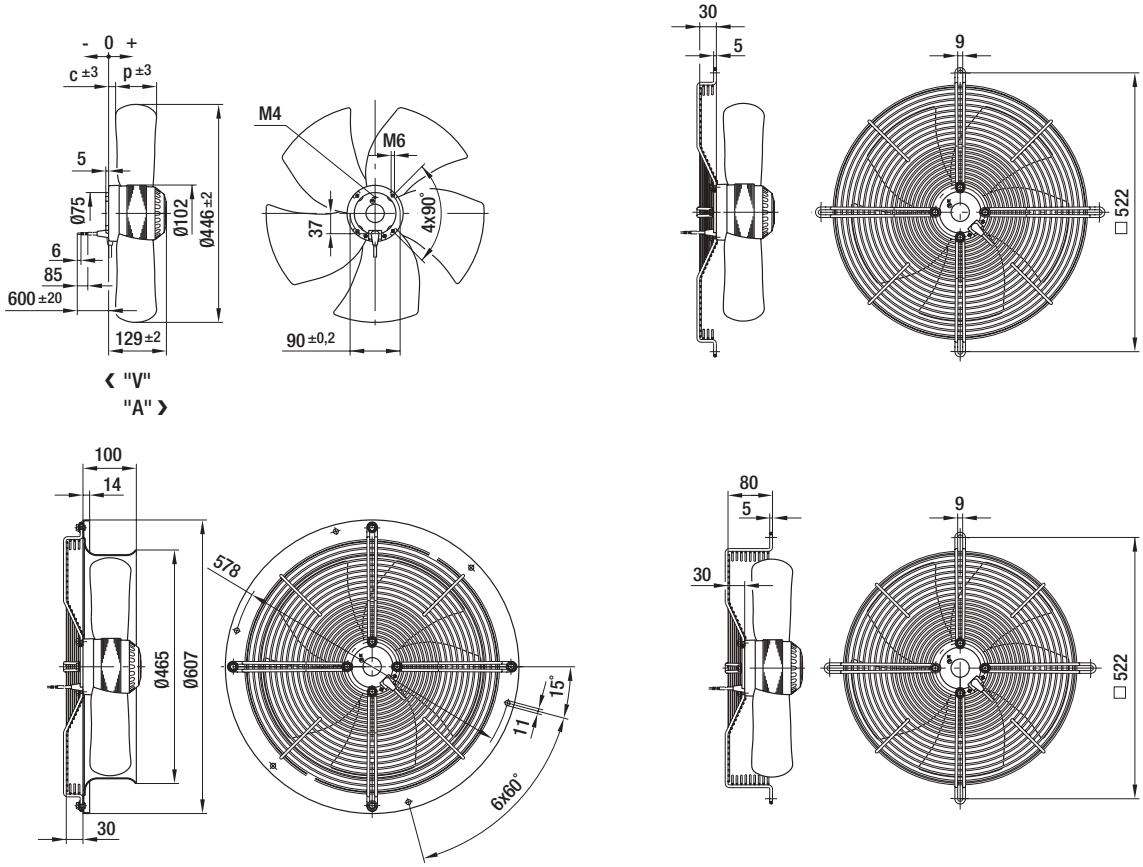


Characteristics



ebmpapst

Selection							Dimensions	
Type	S/A/B	Cable exit / Direction of air flow					c	p
*4D 450	B	"V"	A4D450-AP01 -01	S4D450-BP01 -01	W4D450-CP01 -01	S4D450-AP01 -01	35	75
		"A"	A4D450-AP01 -02	S4D450-BP01 -02	W4D450-CP01 -02	S4D450-AP01 -02	27	64
*4E 450	B	"V"	A4E450-AP01 -01	S4E450-BP01 -01	W4E450-CP01 -01	S4E450-AP01 -01	35	75
		"A"	A4E450-AP01 -02	S4E450-BP01 -02	W4E450-CP01 -02	S4E450-AP01 -02	27	64
*6E 450	B	"V"	A6E450-AP02 -01	S6E450-BP02 -01	W6E450-CP02 -01	S6E450-AP02 -01	10	92
		"A"	A6E450-AP02 -02	S6E450-BP02 -02	W6E450-CP02 -02	S6E450-AP02 -02	25	92



‹ "V"
"A" ›

AC axial fans

S-Range, Ø 450

- **Type of protection:** IP54 (please note drilled condensate discharges)
- **Approval:** complying with EN 60034-1
- **Locked-rotor protection:** thermal overload protector brought out

ebm-papst · Mulfingen

Nominal data

Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
			VAC	Hz	m^3/h	min^{-1}	W	A	µF/VDB	dB(A)	Pa	°C	kg
*4D 450[1]	M4D094-HA	①	400 Y	50	5920	1180	305	0,55	---	66	115	70	7,9
			400 Y	60	5690	1130	390	0,72	---	65	45	55	
		②	400 Δ	50	7050	1400	400	0,95	---	69	200	85	7,9
			400 Δ	60	8000	1600	610	1,12	---	72	115	60	
*4E 450[1]	M4E094-HA	③	230	50	6960	1380	435	2,25	10 /400	70	125	70	7,9
			230	60	7790	1540	630	2,80	10 /400	73	115	55	

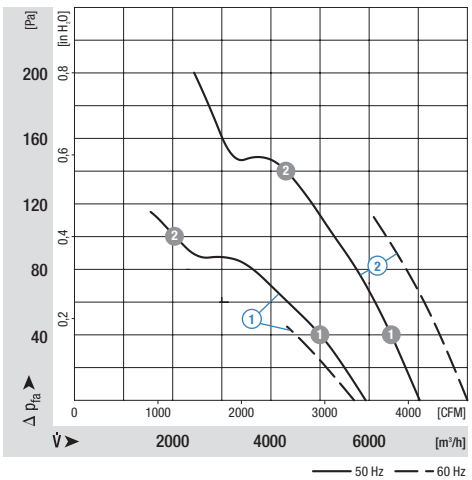
subject to alterations

[1] Insulation class "F"

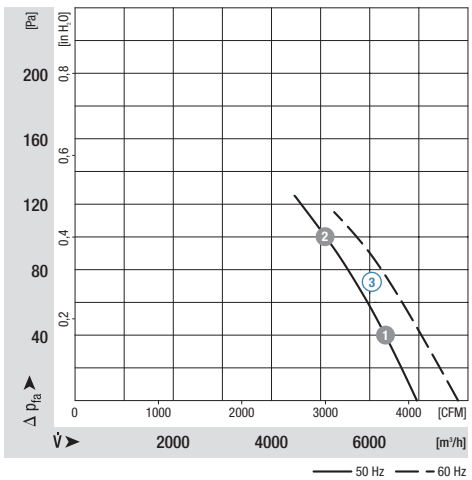
		n [min^{-1}]	P_1 [W]
①	①	1125	335
①	②	990	400
②	①	1385	430
②	②	1325	523

		n [min^{-1}]	P_1 [W]
③	①	1370	468
③	②	1345	515

Characteristics

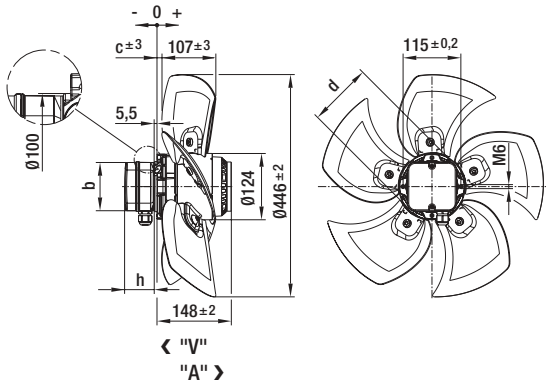


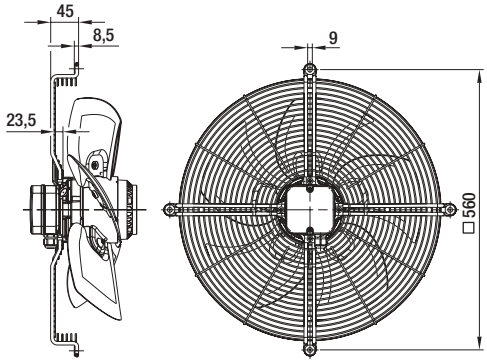
Characteristics

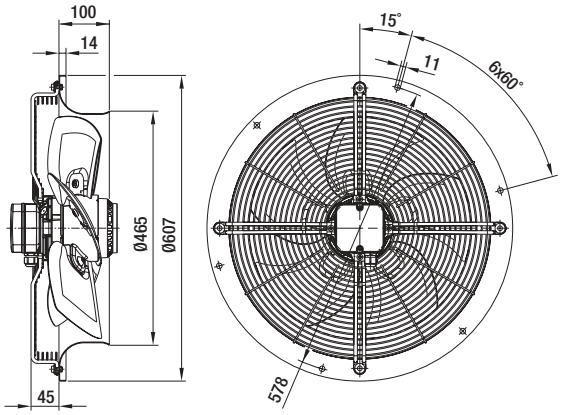


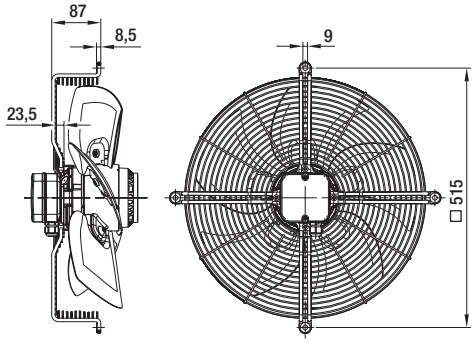
ebmpapst

Selection	Terminal box version	Direction of air flow					Dimensions			
Type							b	c	d	h
*4D 450	Ø 89	"V"	A4D450-BG14 -01	S4D450-LG14 -01	W4D450-MG14-01	S4D450-KG14 -01	Ø 89	9,4	---	33,3
		"A"	A4D450-BG14 -02	S4D450-LG14 -02	W4D450-MG14-02	S4D450-KG14 -02	Ø 89	17,8	---	33,3
*4E 450	□ 99	"V"	A4E450-BG09 -01	S4E450-LG09 -01	W4E450-MG09-01	S4E450-KG09 -01	□ 99	9,4	126	59,2
		"A"	A4E450-BG09 -02	S4E450-LG09 -02	W4E450-MG09-02	S4E450-KG09 -02	□ 99	17,8	126	59,2









Guard grille S. 346 ff.
Wall ring S. 352 ff.
Capacitor S. 356 f.

AC axial fans

K-Range, Ø 250

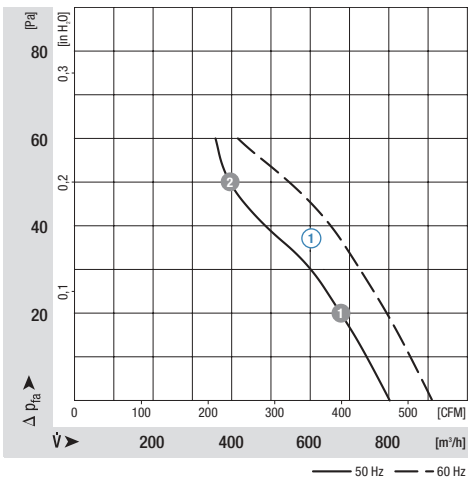
ebm-papst · Mulfingen

Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
Type	**Motor**		**VAC**	**Hz**	**m³/h**	**min⁻¹**	**W**	**A**	**µF/VDB**	**dB(A)**	**Pa**	**°C**	**kg**
***4E 250**	M4E 068-BF	①	230 230	50 60	800 910	1350 1550	41 50	0,18 0,23	1,5/400 1,5/400	47 50	60 60	60 70	1,2

subject to alterations

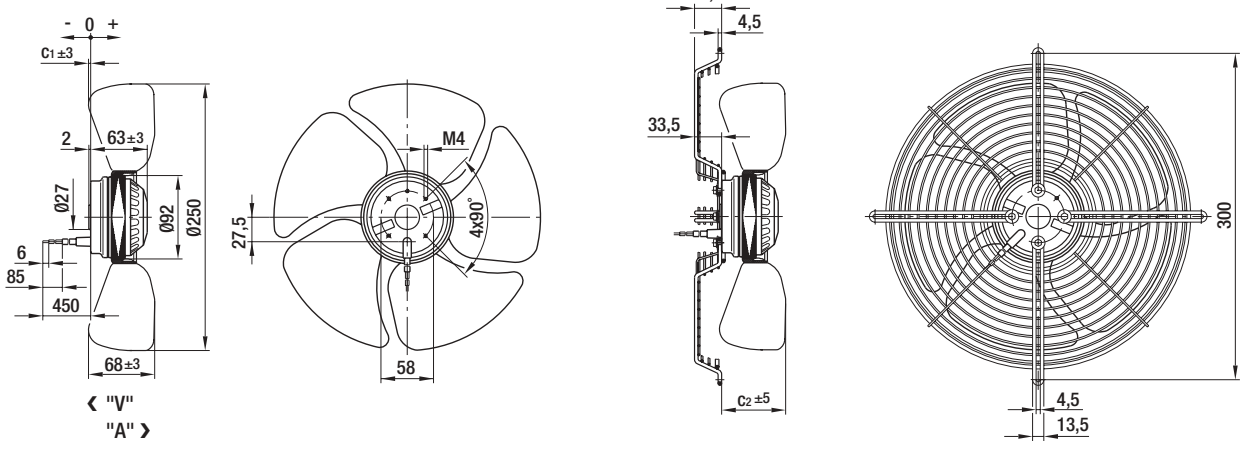
	n [min⁻¹]	P_1 [W]
① ❶	1315	42
① ❷	1280	44

Characteristics

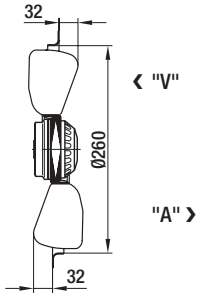


ebmpapst

Selection	Cable exit	Direction of air flow			Dimensions	
Type	**S/A/B**				c_1	c_2
***4E 250**	A	"V"	A4E 250-AE32 -05	S4E 250-AE32 -01	-9	25
		"A"	A4E 250-AE32 -06	S4E 250-AE32 -02	2	36



Mounting configuration



AC axial fans

K-Range, Ø 300

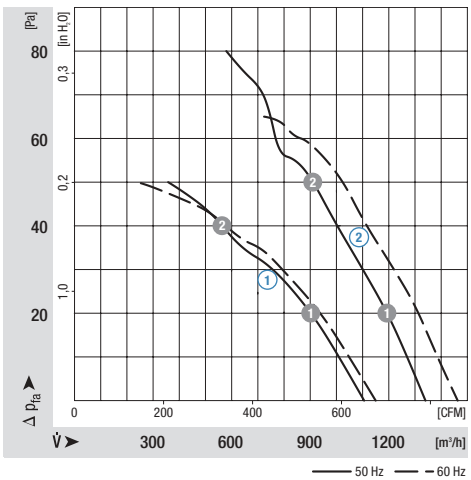
ebm-papst · Mulfingen

Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
Type	**Motor**		**VAC**	**Hz**	**m³/h**	**min⁻¹**	**W**	**A**	**µF/VDB**	**dB(A)**	**Pa**	**°C**	**kg**
***4E 300-*E**	M4E 068-BF	①	230 230	50 60	1100 1150	1100 1150	52 60	0,23 0,27	1,5/400 1,5/400	53 54	50 50	45 40	1,3
***4E 300-*H**	M4E 068-CF	②	230 230	50 60	1340 1460	1350 1480	70 90	0,31 0,40	1,5/400 1,5/400	58 61	80 65	60 55	1,7

subject to alterations

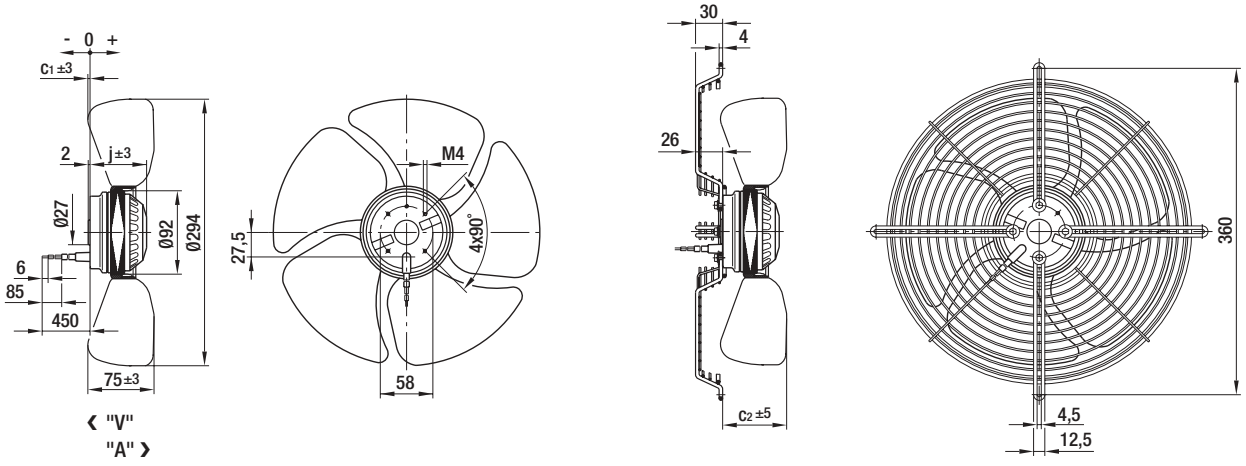
		n [min⁻¹]	P_1 [W]
①	1	1060	53
①	2	985	55
②	1	1325	71
②	2	1310	73

Characteristics

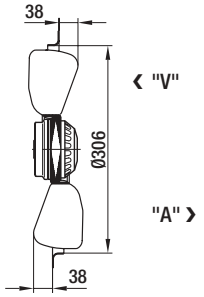


ebmpapst

Selection	Cable exit	Direction of air flow			Dimensions		
Type	**S/A/B**				c_1	c_2	j
***4E 300-*E**	B	"V"	A4E 300-AE20 -05	S4E 300-EE20 -05	-9	66	63
		"A"	A4E 300-AE20 -06	S4E 300-EE20 -06	-3	72	63
***4E 300-*H**	A	"V"	A4E 300-AH26 -05	S4E 300-EH26 -05	-4	71	73
		"A"	A4E 300-AH26 -06	S4E 300-EH26 -06	-4	71	73



Mounting configuration



Guard grille S. 348
Capacitor S. 356 f.
Terminal box S. 358

AC axial fans

K-Range, Ø 350

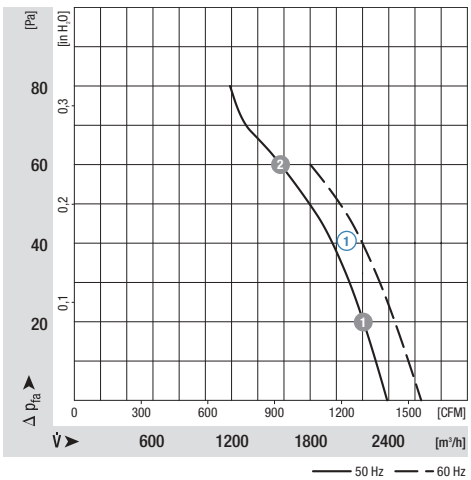
ebm-papst · Mulfingen

Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
Type	**Motor**		**VAC**	**Hz**	**m³/h**	**min⁻¹**	**W**	**A**	**µF/VDB**	**dB(A)**	**Pa**	**°C**	**kg**
***4E 350**	M4E068-DC	①	230 230	50 60	2390 2650	1350 1500	105 135	0,50 0,60	3,0/400 3,0/400	63 66	80 60	50 40	2,0

subject to alterations

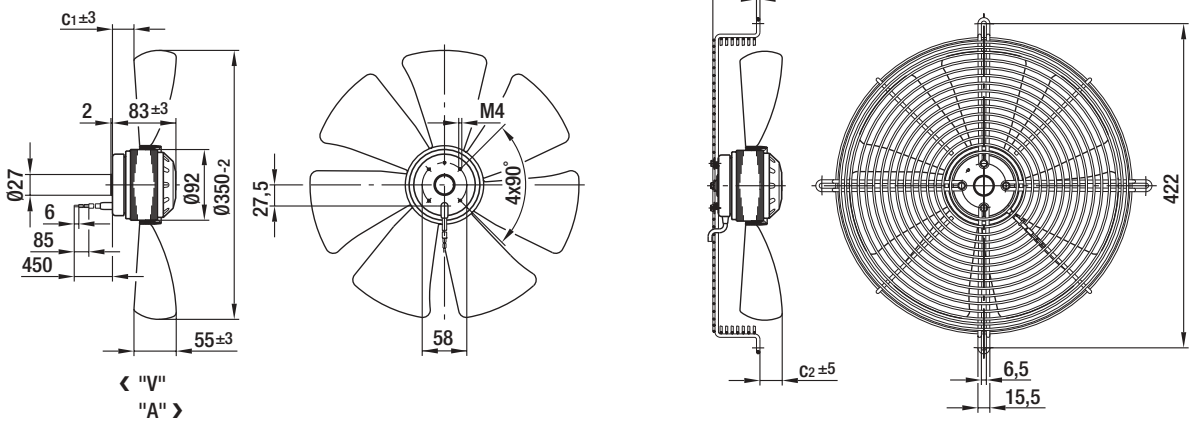
		n [min⁻¹]	P_1 [W]
①	❶	1335	110
①	❷	1300	120

Characteristics

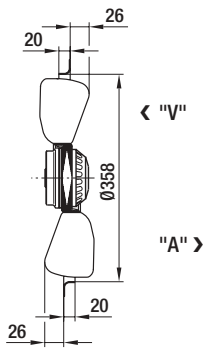


ebmpapst

Selection	Cable exit	Direction of air flow			Dimensions	
Type	**S/A/B**				c_1	c_2
***4E 350**	A	"V"	A4E 350-AF20 -05	S4E 350-AF20 -01	18	19
		"A"	A4E 350-AF20 -06	S4E 350-AF20 -02	28	29



Mounting configuration



AC axial fans

K-Range, Ø 360

ebm-papst · Mulfingen

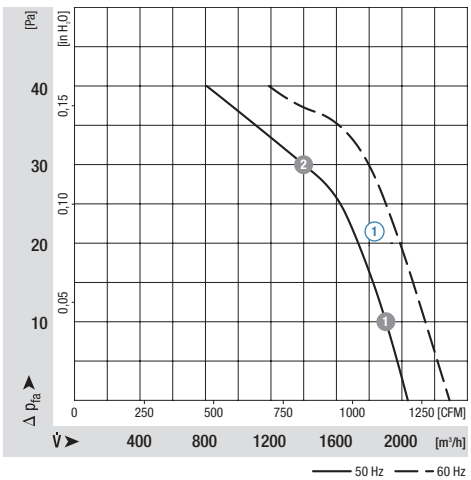
Nominal data

Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
			VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg
*6E 360	M6E068-DF	①	230	50	2030	850	65	0,29	2,5/400	46	40	50	2,0
			230	60	2290	960	85	0,38	2,5/400	51	40	40	

subject to alterations

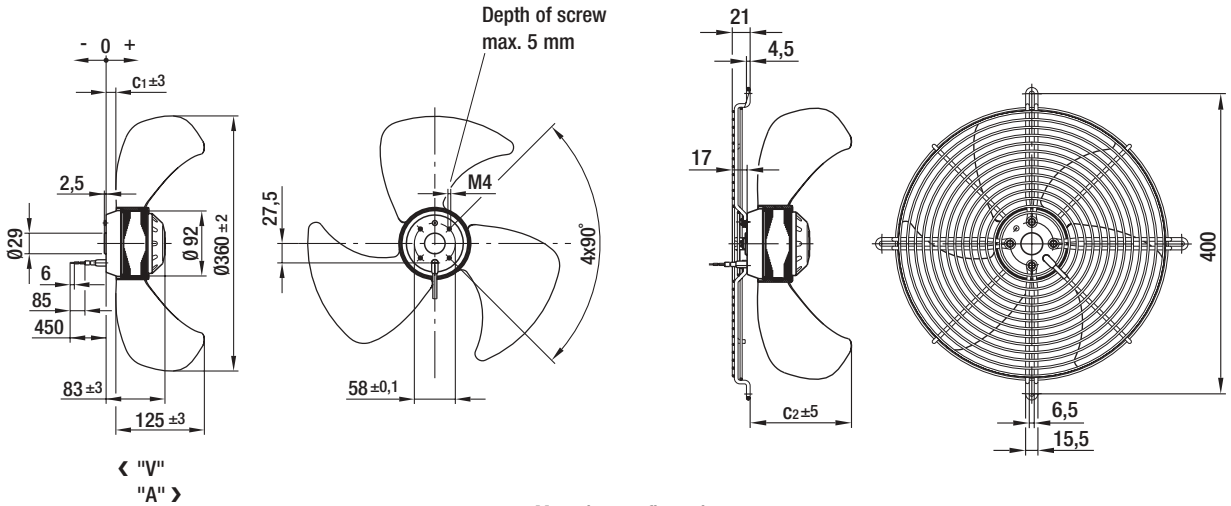
	n [min⁻¹]	P_1 [W]
① 1	850	64
① 2	820	67

Characteristics

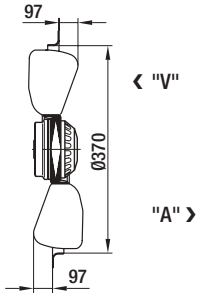


ebmpapst

Selection	Cable exit	Direction of air flow			Dimensions	
Type	**S/A/B**				c_1	c_2
***6E 360**	A	"V"	A6E 360-AE08 -01	S6E 360-AE08 -01	13	134
		"A"	A6E 360-AE08 -02	---	-42	---



Mounting configuration



AC axial fans

K-Range, Ø 360

ebm-papst · Mulfingen

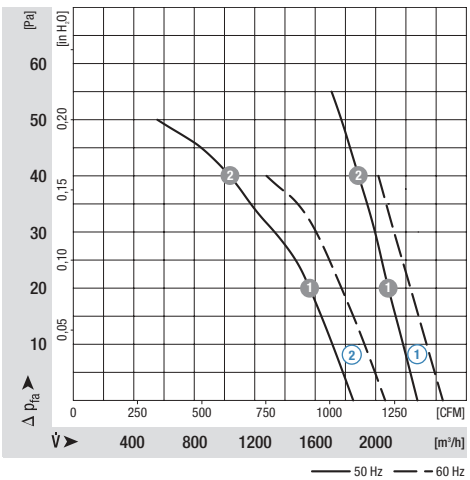
Nominal data

Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
			VAC	Hz	m^3/h	min^{-1}	W	A	µF/VDB	dB(A)	Pa	°C	kg
*4E 360	M4E068-DF	①	230	50	2275	1320	115	0,54	3,0/400	55	55	40	2,1
			230	60	2440	1430	145	0,64	3,0/400	57	40	40	
*6E 360	M6E068-DF	②	230	50	1850	850	65	0,29	2,5/400	49	50	55	2,2
			230	60	2060	960	85	0,38	2,5/400	52	40	45	

subject to alterations

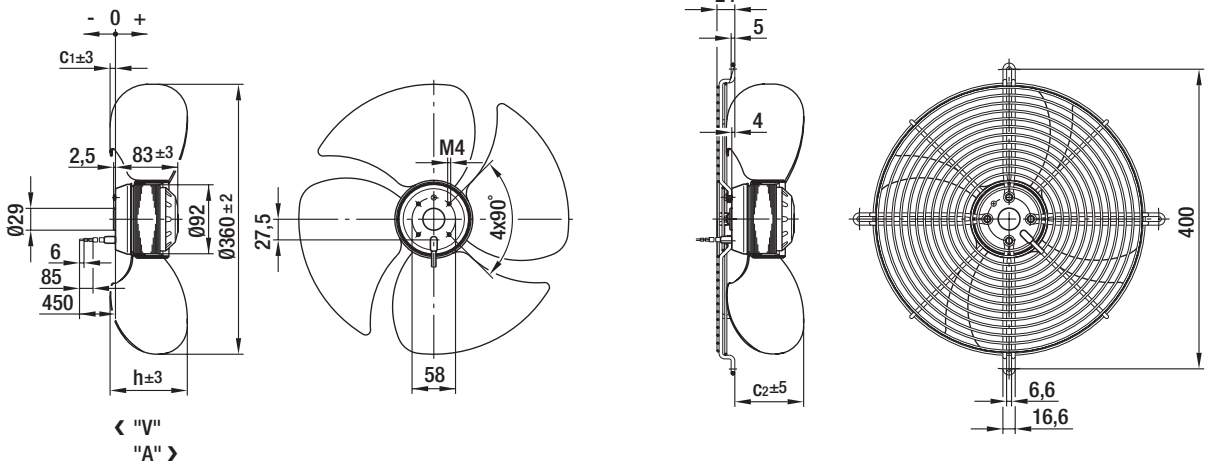
	n [min^{-1}]	P_1 [W]
① ❶	1310	113
① ❷	1300	119
② ❶	840	66
② ❷	790	71

Characteristics

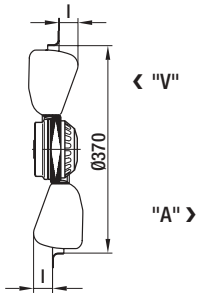


ebmpapst

Selection					Dimensions			
Type	S/A/B	Direction of air flow			c_1	c_2	h	l
*4E 360	B	"V"	A4E 360-AC20 -05	S4E 360-EC20 -05	8	88	84	43
		"A"	A4E 360-AC20 -06	---	-8	72	84	43
*6E 360	A	"V"	A6E 360-AA08 -05	S6E 360-EA08 -05	-11	65	103	65
		"A"	A6E 360-AA08 -06	---	-8	38	103	65



Mounting configuration



Guard grille S. 348
Capacitor S. 356 f.
Terminal box S. 358

AC axial fans

K-Range, Ø 450

ebm-papst · Mulfingen

Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
Type	**Motor**		**VAC**	**Hz**	**m³/h**	**min⁻¹**	**W**	**A**	**µF/VDB**	**dB(A)**	**Pa**	**°C**	**kg**
***6E 450-AF**[1]	M6E 074-EI	①	230	50	4565	890	140	0,62	4,0/400	57	45	45	3,7
***6E 450-AG**	M6E 074-GA	②	230 230	50 60[2]	4550 5050	890 990	142 190	0,65 0,84	4,0/400 4,0/400	57 61	45 50	50 40	4,2

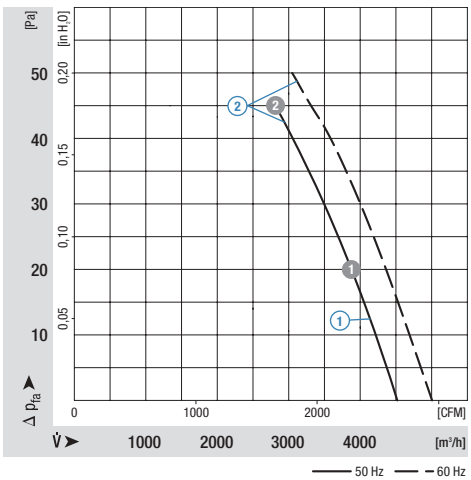
subject to alterations

[1] Insulation class "F"

[1] Insulation class "F" required at 60 Hz

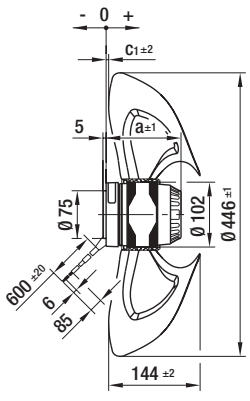
		n [min⁻¹]	P_1 [W]
①	❶	890	147
①	❷	870	155
②	❶	880	151
②	❷	860	160

Characteristics

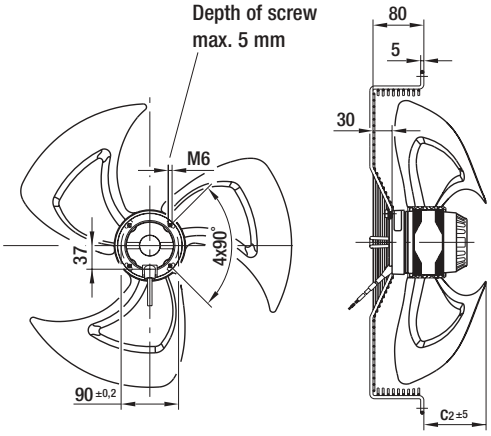


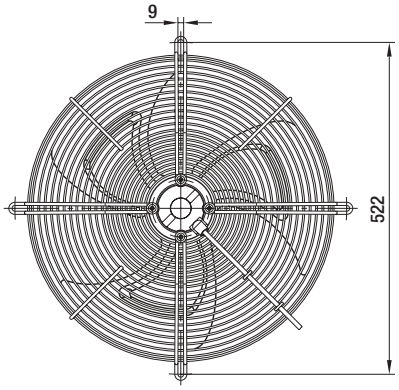
ebmpapst

Selection	Cable exit	Direction of air flow			Dimensions		
Type	**S/A/B**				**a**	**c_1**	**c_2**
***6E 450-AF**	B	"V"	A6E 450-AF08 -01	S6E 450-AF08 -01	117	4	98
		"A"	A6E 450-AF08 -02	---	117	-18	---
***6E 450-AG**	B	"V"	A6E 450-AG05 -01	S6E 450-AG05 -01	129	4	98
		"A"	A6E 450-AG05 -02	---	129	-18	---

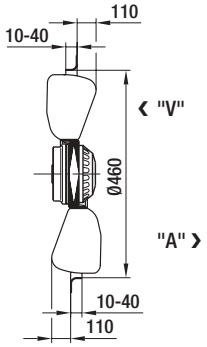


‹ "V"
"A" ›





Mounting configuration



Guard grille S. 348
Capacitor S. 356 f.
Terminal box S. 358

AC axial fans

K-Range, Ø 450

ebm-papst · Mulfingen

Nominal data

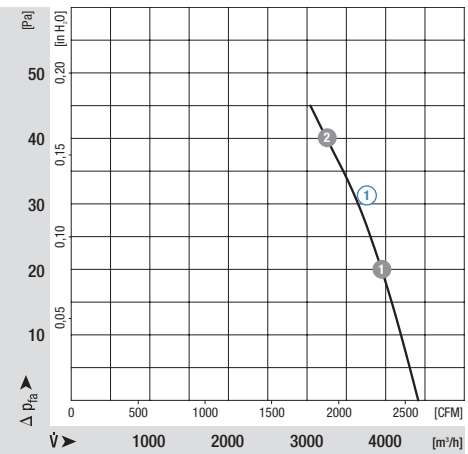
Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
			VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg
*6E 450[1]	M6E074-EI	①	230	50	4415	900	145	0,64	4,0/400	61	45	55	3,0

subject to alterations

[1] Insulation class "F"

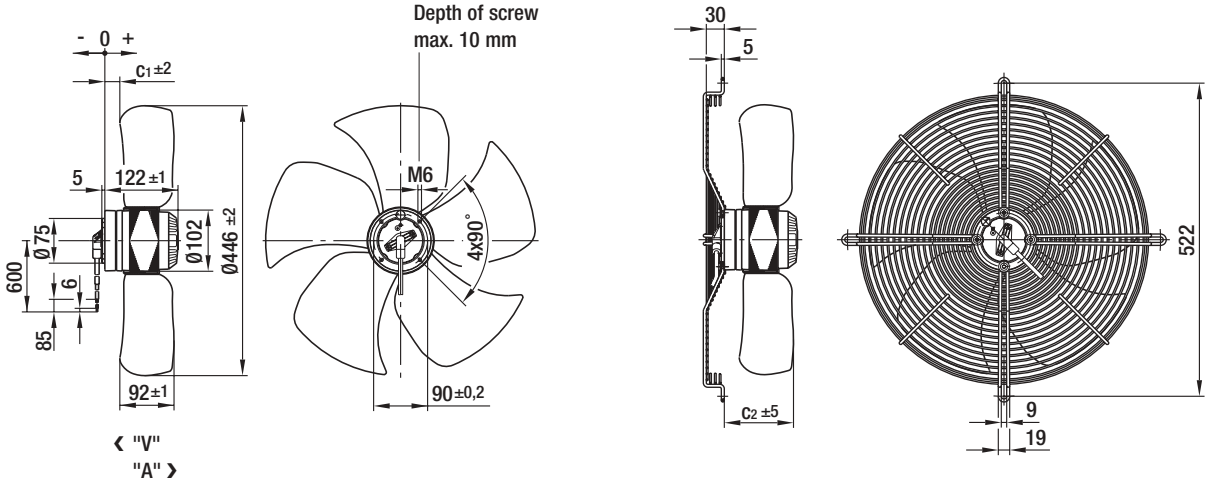
		n [min⁻¹]	P_1 [W]
①	1	880	151
①	2	850	160

Characteristics

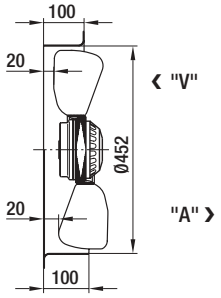


ebmpapst

Selection					Dimensions	
Type	S/A/B	Cable exit	Direction of air flow		c_1	c_2
*6E 450	S		"V"	A6E 450-AN08 -01 S6E 450-BN08 -01	8	100
			"A"	A6E 450-AN08 -02 S6E 450-BN08 -02	25	117



Mounting configuration



AC axial fans

A-Range, Ø 200

ebm-papst · Mulfingen

Nominal data

Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
			VAC	Hz	m^3/h	min^{-1}	W	A	µF/VDB	dB(A)	Pa	°C	kg
*2D 200[1]	M2D068-CF	①	230/400 230/400	50 60	830 940	2800 3150	53 70	0,15 0,14	--- ---	67 70	140 140	75 75	1,7
*2E 200	M2E068-CA	②	230 230	50 60	740 830	2740 3120	50 61	0,24 0,28	1,5/400 1,5/400	65 69	200 200	75 75	1,4
*4D 200[1]	M4D068-CF	③	230/400 230/400	50 60	390 460	1450 1730	22 21	0,09 0,07	--- ---	51 55	70 100	60 80	1,5
*4S 200	M4S068-BF	④	230 230	50 60	375 445	1380 1630	40 34	0,30 0,24	--- ---	52 53	60 80	50 65	1,2

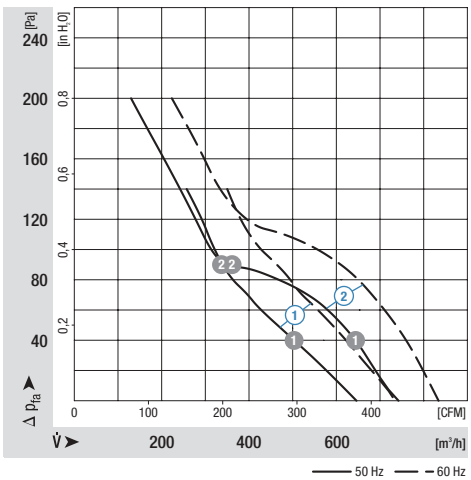
subject to alterations

[1] Current draw established at 400 VAC (Y)

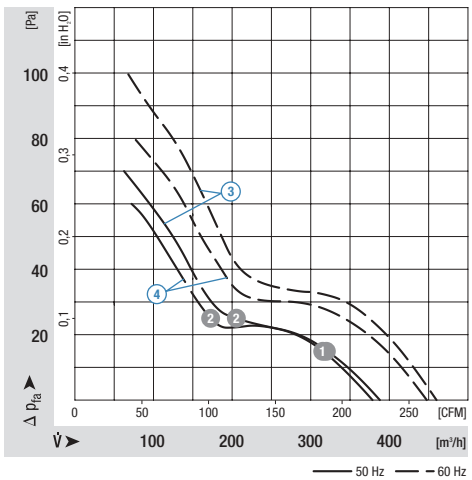
		n [min^{-1}]	P_1 [W]
①	1	2785	53
①	2	2770	55
②	1	2670	51
②	2	2670	50

		n [min^{-1}]	P_1 [W]
③	1	1460	24
③	2	1460	24
④	1	1375	40
④	2	1380	39

Characteristics

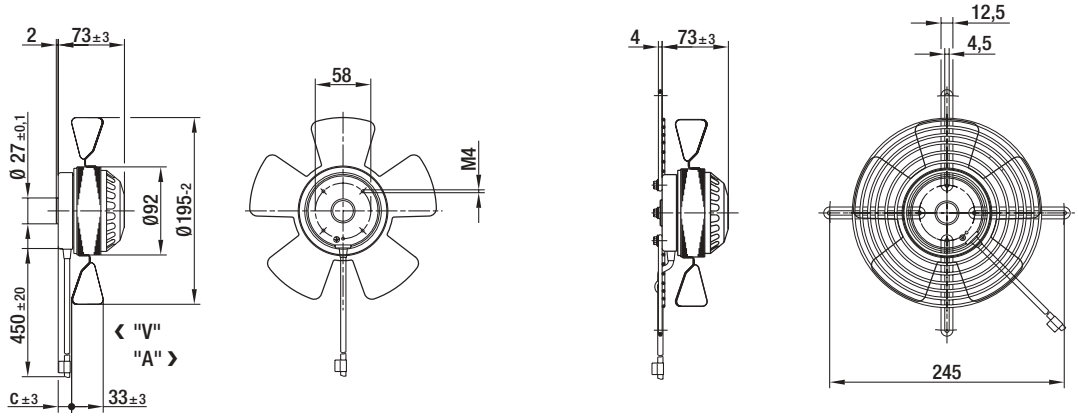


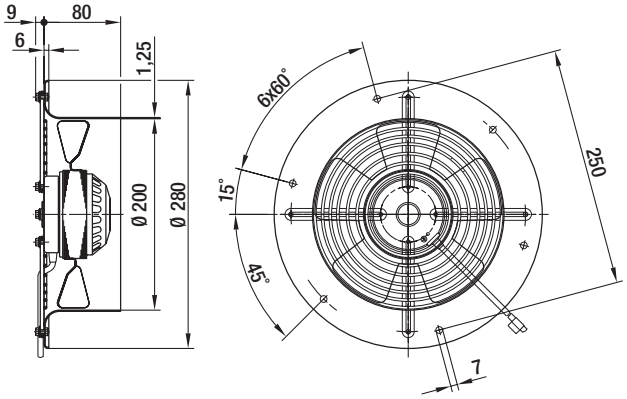
Characteristics



ebmpapst

Selection						Dimensions
Type	S/A/B	Cable exit	Direction of air flow			c
*2D 200	S		"V"	A2D200-AA02 -01	S2D200-BA02 -01	W2D200-CA02 -01	21
			"A"	A2D200-AA02 -02	S2D200-BA02 -02	W2D200-CA02 -02	21
*2E 200	B		"V"	A2E200-AF02 -01	S2E200-BF02 -01	W2E200-CF02 -01	21
			"A"	A2E200-AF02 -02	S2E200-BF02 -02	W2E200-CF02 -02	21
*4D 200	S		"V"	A4D200-AA04 -01	S4D200-BA04 -01	W4D200-CA04 -01	20
			"A"	A4D200-AA04 -02	S4D200-BA04 -02	W4D200-CA04 -02	20
*4S 200	S		"V"	A4S200-AA02 -01	S4S200-BA02 -01	W4S200-CA02 -01	20
			"A"	A4S200-AA02 -02	S4S200-BA02 -02	W4S200-CA02 -02	20





AC axial fans

A-Range, Ø 250

ebm-papst · Mulfingen

Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
Type	**Motor**		**VAC**	**Hz**	**m³/h**	**min⁻¹**	**W**	**A**	**µF/VDB**	**dB(A)**	**Pa**	**°C**	**kg**
***2D 250**[1]	M2D068-DF	①	230/400 230/400	50 60	1685 1845	2650 2950	110 160	0,22 0,26	--- ---	72 75	300 300	70 40	2,2
***2E 250**	M2E068-DF	②	230 230	50 60	1610 1740	2550 2750	115 165	0,51 0,74	4,0/400 4,0/400	72 73	150 130	55 50	2,2
***4D 250**[1]	M4D068-CF	③	230/400 230/400	50 60	890 1035	1420 1650	30 35	0,09 0,08	--- ---	58 62	90 100	75 75	1,6
***4S 250**	M4S068-CF	④	230 230	50 60	870 1000	1400 1620	72 67	0,53 0,46	--- ---	58 62	80 100	40 50	1,7

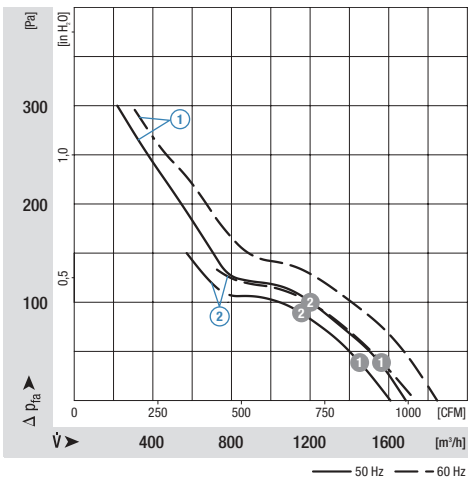
subject to alterations

[1] Current draw established at 400 VAC (Y)

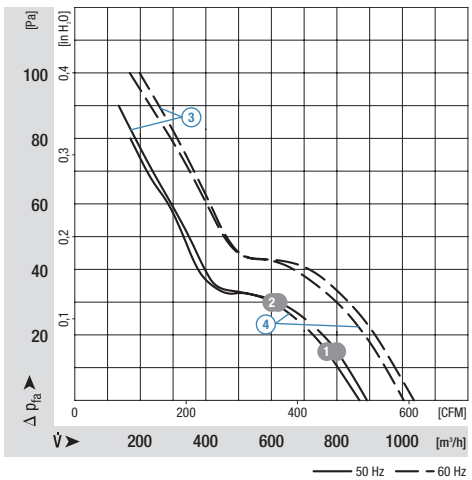
		n [min⁻¹]	P_1 [W]
①	1	2645	123
①	2	2615	131
②	1	2520	122
②	2	2480	126

		n [min⁻¹]	P_1 [W]
③	1	1420	32
③	2	1410	33
④	1	1400	70
④	2	1395	71

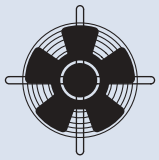
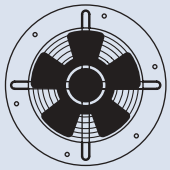
Characteristics



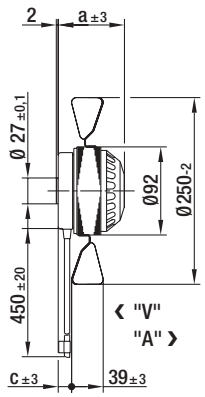
Characteristics

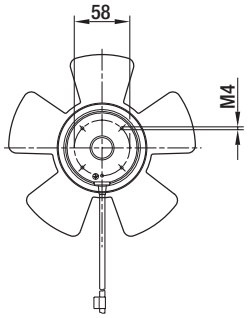


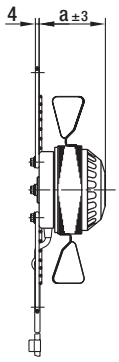
ebmpapst

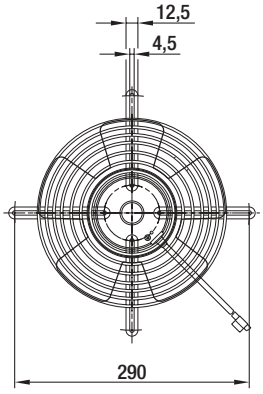




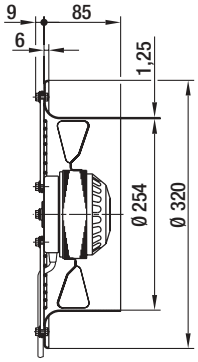
Selection	Cable exit	Direction of air flow				Dimensions	
Type	**S/A/B**					**a**	**c**
***2D 250**	S	"V"	A2D250-AA02 -01	S2D250-BA02 -01	W2D250-CA02 -01	83	25
		"A"	A2D250-AA02 -02	S2D250-BA02 -02	W2D250-CA02 -02	83	25
***2E 250**	B	"V"	A2E250-AE65 -01	S2E250-BE65 -01	W2E250-CE65 -01	83	25
		"A"	A2E250-AE65 -02	S2E250-BE65 -02	W2E250-CE65 -02	83	25
***4D 250**	S	"V"	A4D250-AA04 -01	S4D250-BA04 -01	W4D250-CA04 -01	73	19
		"A"	A4D250-AA04 -02	S4D250-BA04 -02	W4D250-CA04 -02	73	19
***4S 250**	S	"V"	A4S250-AA02 -01	S4S250-BA02 -01	W4S250-CA02 -01	73	19
		"A"	A4S250-AA02 -02	S4S250-BA02 -02	W4S250-CA02 -02	73	19

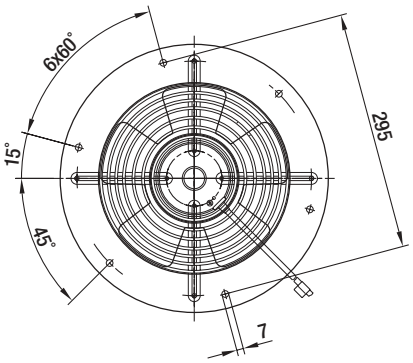












AC axial fans

A-Range, Ø 300

ebm-papst · Mulfingen

Nominal data

Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
			VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg
*2D 300[1]	M2D068-EC	①	230/400 230/400	50 60	2760 2940	2650 2800	180 270	0,31 0,41	--- ---	76 77	150 100	60 40	2,7
*2E 300	M2E068-EC	②	230 230	50 60	2440 2700	2650 2900	140 190	0,62 0,83	5,0/400 5,0/400	75 78	150 150	55 50	2,5
*4D 300[1]	M4D068-DF	③	230/400 230/400	50 60	1740 1910	1370 1520	85 110	0,21 0,22	--- ---	66 68	100 110	55 40	2,3
*4E 300	M4E068-DF	④	230 230	50 60	1690 1830	1350 1450	95 105	0,44 0,47	3,0/400 2,0/400	65 66	120 100	45 40	2,3
*4S 300	M4S068-DF	⑤	230 230	50 60	1440 1600	1380 1550	94 94	0,67 0,67	--- ---	62 64	75 60	30 40	2,1

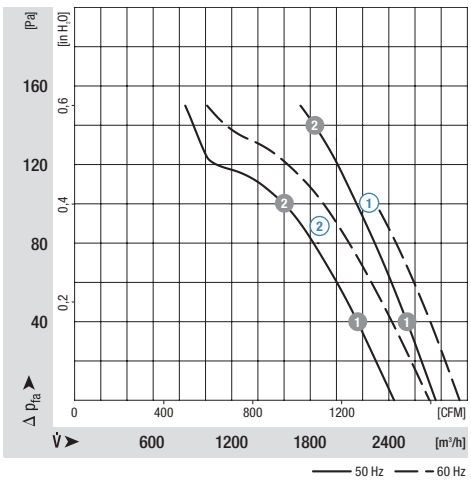
subject to alterations

[1] Current draw established at 400 VAC (Y)

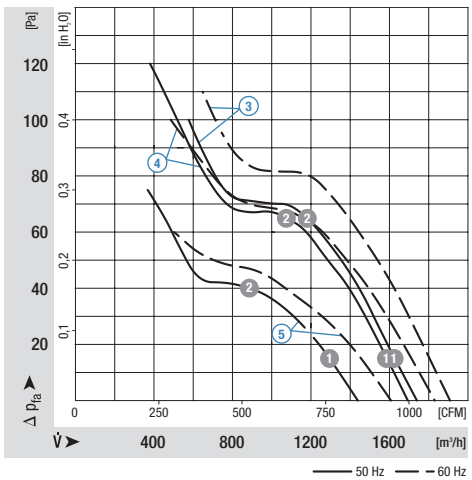
		n [min⁻¹]	P_1 [W]
①	❶	2610	190
①	❷	2535	220
②	❶	2600	149
②	❷	2530	162

		n [min⁻¹]	P_1 [W]
③	❶	1360	86
③	❷	1345	94
④	❶	1345	96
④	❷	1315	101
⑤	❶	1375	92
⑤	❷	1360	94

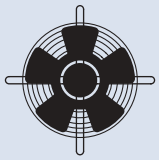
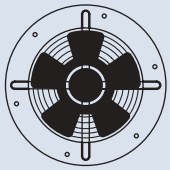
Characteristics



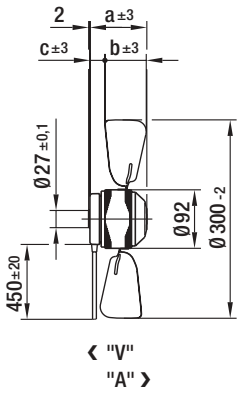
Characteristics

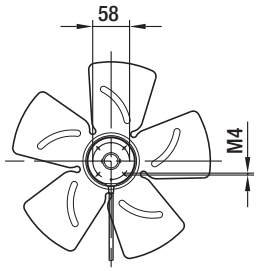


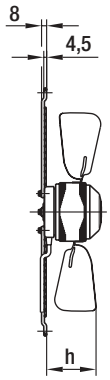
ebmpapst

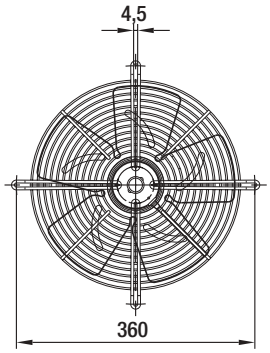




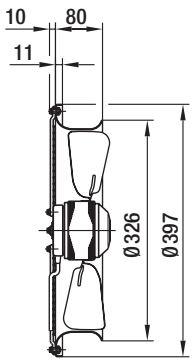
Selection						Dimensions			
Type	S/A/B	Direction of air flow				a	b	c	h
*2D 300	S	"V"	A2D300-AD02 -01	S2D300-BD02 -01	W2D300-CD02 -01	101	30	32	64
		"A"	A2D300-AD02 -02	S2D300-BD02 -02	W2D300-CD02 -02	101	30	32	64
*2E 300	S	"V"	A2E300-AC47 -01	S2E300-BC47 -01	W2E300-CC47 -01	98	20	30	50
		"A"	A2E300-AC47 -02	S2E300-BC47 -02	W2E300-CC47 -02	98	20	17	37
*4D 300	S	"V"	A4D300-AA02 -01	S4D300-BA02 -01	W4D300-CA02 -01	83	56	20	73
		"A"	A4D300-AA02 -02	S4D300-BA02 -02	W4D300-CA02 -02	83	56	20	73
*4E 300	S	"V"	A4E300-AA01 -01	S4E300-BA01 -01	W4E300-CA01 -01	83	56	20	73
		"A"	A4E300-AA01 -02	S4E300-BA01 -02	W4E300-CA01 -02	83	56	20	73
*4S 300	S	"V"	A4S300-AA02 -01	S4S300-BA02 -01	W4S300-CA02 -01	83	30	20	52
		"A"	A4S300-AA02 -02	S4S300-BA02 -02	W4S300-CA02 -02	83	30	20	52

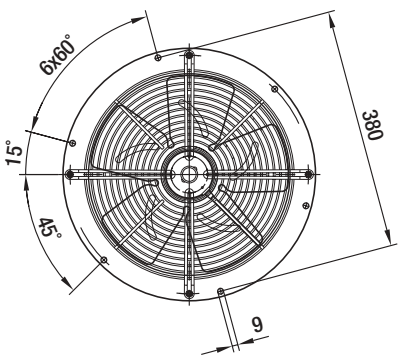












AC axial fans

A-Range, Ø 315

ebm-papst · Mulfingen

Nominal data

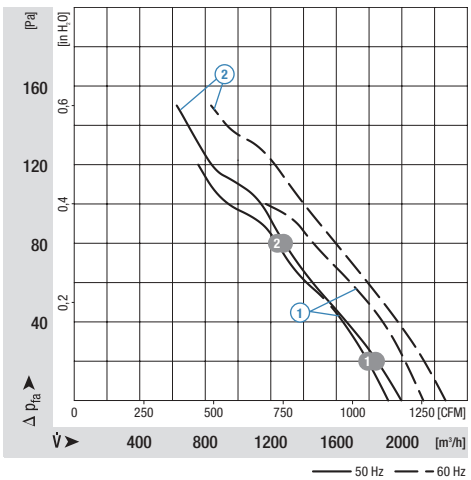
Type	Motor	Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
			VAC	Hz	m^3/h	min^{-1}	W	A	µF/VDB	dB(A)	Pa	°C	kg
*4D 315[1]	M4D068-EC	①	230/400 230/400	50 60	1990 2260	1400 1590	78 115	0,19 0,21	--- ---	65 68	150 150	80 60	2,8
*4E 315[2]	M4E068-EC	②	230 230	50 60	1950 2230	1400 1610	120 135	0,53 0,60	5,0/400 4,0/400	67 70	180 120	50 45	2,8

subject to alterations

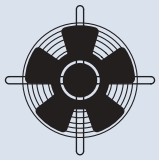
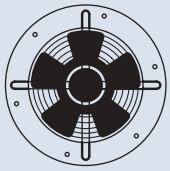
[1] Current draw established at 400 VAC (Y) [2] Insulation class "F"

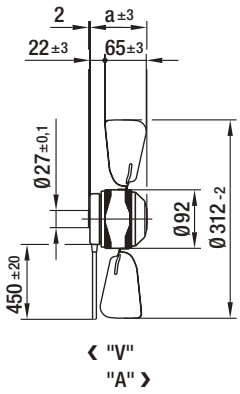
		n [min^{-1}]	P_1 [W]
①	1	1390	82
①	2	1370	95
②	1	1395	123
②	2	1360	136

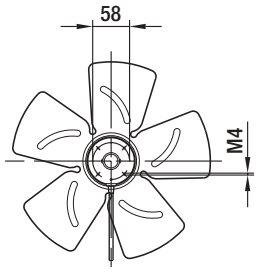
Characteristics

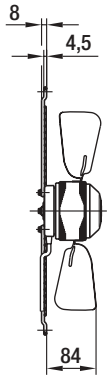


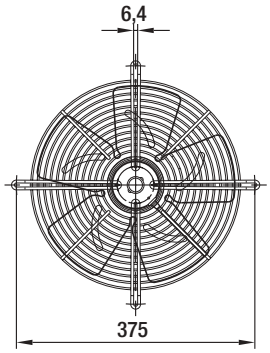
ebmpapst

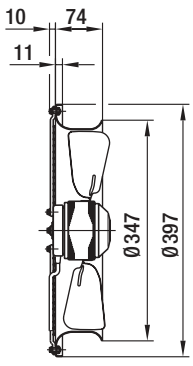
Selection	Cable exit	Direction of air flow				Dimensions
Type	**S/A/B**					**a**
***4D 315**	S	"V"	A4D315-AC20 -01	S4D315-BC20 -01	W4D315-CC20 -01	101
		"A"	A4D315-AC20 -02	S4D315-BC20 -02	W4D315-CC20 -02	101
***4E 315**	S	"V"	A4E315-AA05 -01	S4E315-BA05 -01	W4E315-CA05 -01	92
		"A"	A4E315-AA05 -02	S4E315-BA05 -02	W4E315-CA05 -02	92

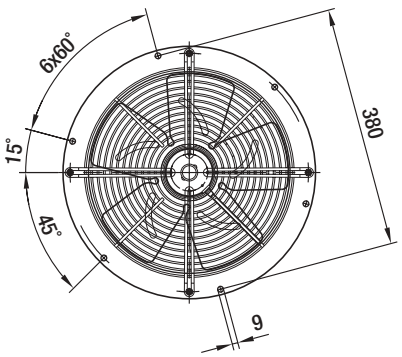












AC axial fans

A-Range, Ø 350

ebm-papst · Mulfingen

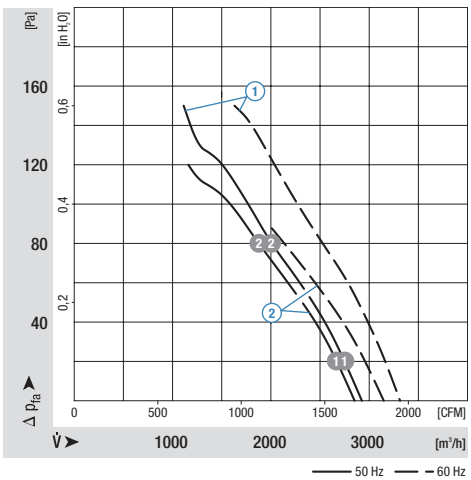
Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Max. back pressure	Perm. amb. temp.	Mass
Type	**Motor**		**VAC**	**Hz**	**m³/h**	**min⁻¹**	**W**	**A**	**µF/VDB**	**dB(A)**	**Pa**	**°C**	**kg**
***4D 350**[1]	M4D068-EC	①	230/400 230/400	50 60	2900 3300	1420 1620	145 190	0,39 0,36	--- ---	69 72	150 150	45 40	3,1
***4E 350**	M4E068-EC	②	230 230	50 60	2850 3190	1390 1550	140 195	0,62 0,86	5,0/400 5,0/400	68 70	120 90	60 40	3,1

subject to alterations

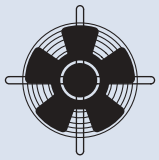
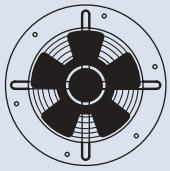
[1] Current draw established at 400 VAC (Y)

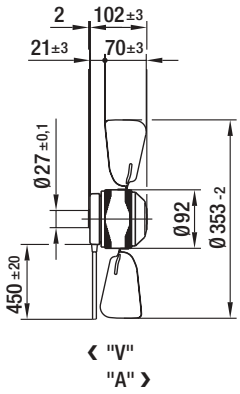
		n [min⁻¹]	P_1 [W]
①	1	1405	154
①	2	1390	169
②	1	1375	147
②	2	1345	161

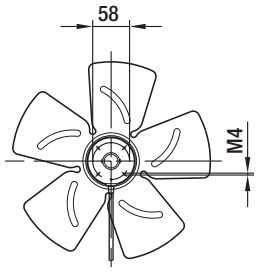
Characteristics

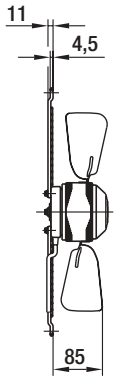


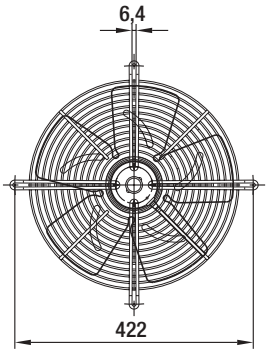
ebmpapst

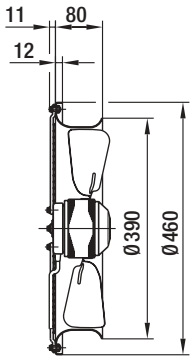
Selection	Cable exit	Direction of air flow			
Type	**S/A/B**				
***4D 350**	S	"V"	A4D350-AA06 -01	S4D350-BA06 -01	W4D350-CA06 -01
		"A"	A4D350-AA06 -02	S4D350-BA06 -02	W4D350-CA06 -02
***4E 350**	S	"V"	A4E350-AA06 -01	S4E350-BA06 -01	W4E350-CA06 -01
		"A"	A4E350-AA06 -02	S4E350-BA06 -02	W4E350-CA06 -02

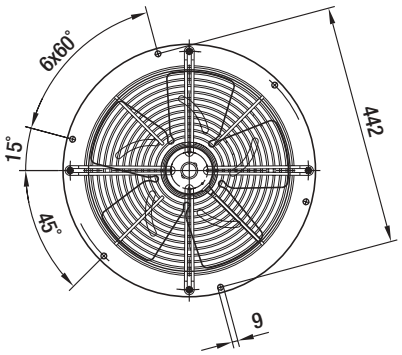












Guard grille S. 349
Wall ring S. 352 f.
Capacitor S. 356 f.
Terminal box S. 358