

AC centrifugal blowers

dual inlet, Ø 146



- **Material:** scroll housing with integrated terminal box made of polypropylene, reinforced with French chalk - coloured in black (according to IEC 695 T2-2 and EN 60335-2-31), impeller made of galvanised sheet steel
- **Mounting:** EW-motor anti-vibration mounted on both sides
- **Design:** 4-step blower with external-rotor motor
- **Bearings:** calotte sleeve bearing (medium life-cycle of 15,000 h) - applicable only in horizontal axis
- **Capacitor:** Integrated in terminal box completely wired up and ready for plug-in. FPU (P2) capacitor design.
- **Direction of rotation:** counter-clockwise seen on plug
- **Type of protection:** IP20

ebm-papst • Mulfingen

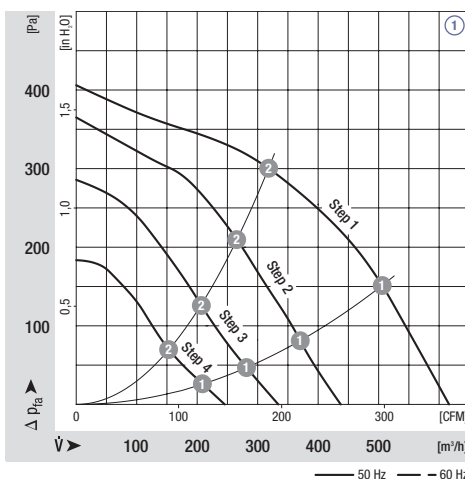
Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Min. back pressure	Perm. amb. temp.	Mass
Type	Motor		VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg
D2E 146-HR93 -01	M2E 068-CF	①	230	50	615	1050	150	0,66	4,0/400	52	0	50	3,0
			230	60	370	1750	165	0,73	4,0/400	63	220	50	
D2E 146-HS97 -01	M2E 068-DF	②	230	50	725	1450	200	0,88	5,0/400	58	50	50	3,5
			230	60	500	2000	215	0,95	5,0/400	63	250	50	

subject to alterations

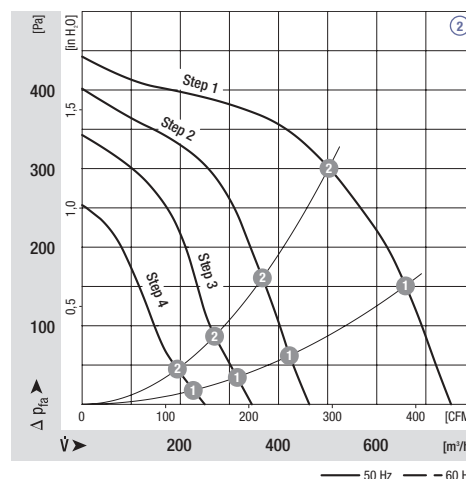
			n [min⁻¹]	P ₁ [W]
①	①	Step 1	670	71
①	②	Step 1	1020	55
①	①	Step 2	890	83
①	②	Step 2	1380	79
①	①	Step 3	1150	100
①	②	Step 3	1780	90
①	①	Step 4	1540	143
①	②	Step 4	2130	130

			n [min⁻¹]	P ₁ [W]
②	①	Step 1	560	94
②	②	Step 1	800	92
②	①	Step 2	820	108
②	②	Step 2	1200	105
②	①	Step 3	1150	127
②	②	Step 3	1610	118
②	①	Step 4	1715	190
②	②	Step 4	2120	173

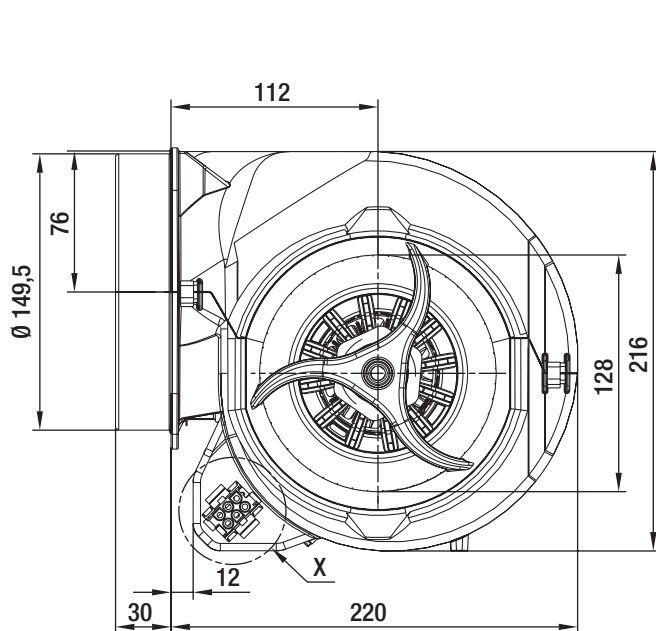
Characteristics



Characteristics



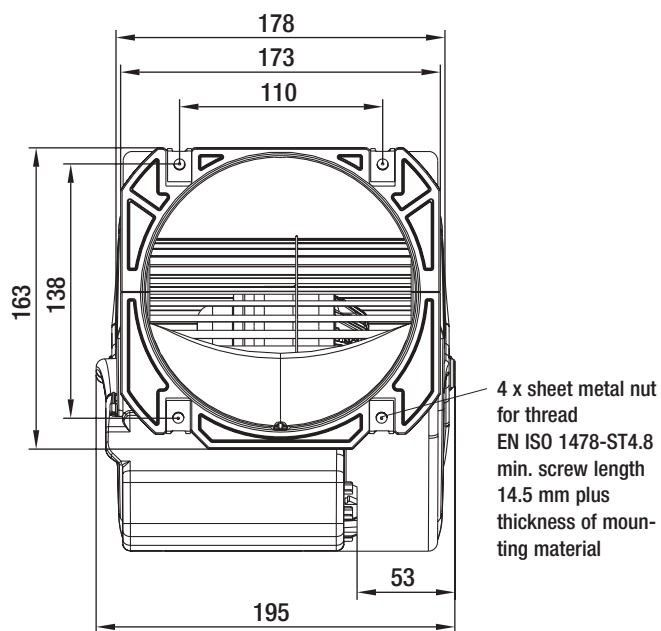
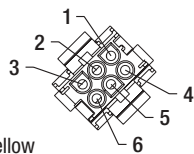
- **Insulation class:** "F"
- **Approvals:** VDE, CE; UL on request
- **Safety regulations:** with integrated temperature monitor and integrated FPU (P2) capacitor in keeping with EN 60335-2-31
- **Note:** Due to the capacitor connected, voltages exceeding 300 V can occur.



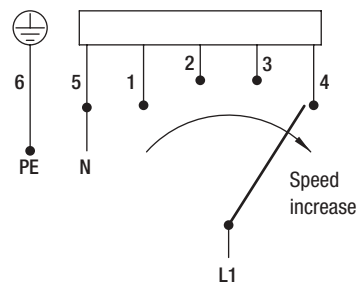
View X

coded plug system AMP Universal-Mate-N-Lok
connector shell AMP 926 682-3
6 x plug pin AMP 926 886-1

- 1 = Step 1 (min.) white
2 = Step 2 red
3 = Step 3 grey
4 = Step 4 (max.) black
5 = N blue
6 = Ground wire green / yellow



Connection diagram
When changing speeds,
the switch must break
the circuit.



AC centrifugal blowers

dual inlet, Ø 146



- **Material:** scroll housing with integrated terminal box made of polypropylene, reinforced with French chalk - coloured in black (according to IEC 695 T2-2 and EN 60335-2-31), impeller made of galvanised sheet steel
- **Mounting:** EW-motor anti-vibration mounted on both sides
- **Design:** 4-step blower with external-rotor motor
- **Bearings:** calotte sleeve bearing (medium life-cycle of 15,000 h) - applicable only in horizontal axis
- **Capacitor:** Integrated in terminal box completely wired up and ready for plug-in. FPU (P2) capacitor design.
- **Direction of rotation:** counter-clockwise seen on plug
- **Type of protection:** IP20

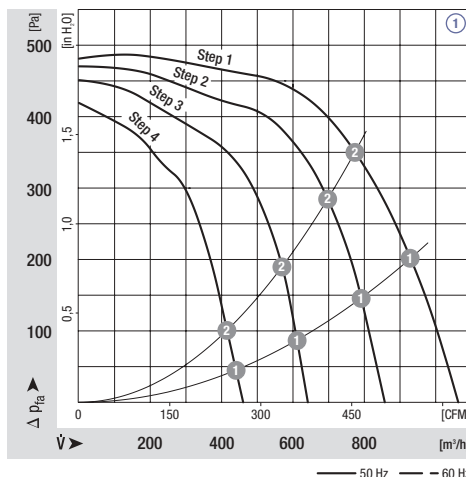
ebm-papst • Mulfingen

Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Min. back pressure	Perm. amb. temp.	Mass
Type	Motor		VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg
D2E 146-HT67 -01	M2E 068-EC	①	230 230	50 60	1060 875	1850 2100	355 400	1,55 1,75	8,0/450 8,0/450	66 63	0 200	50 55	3,6

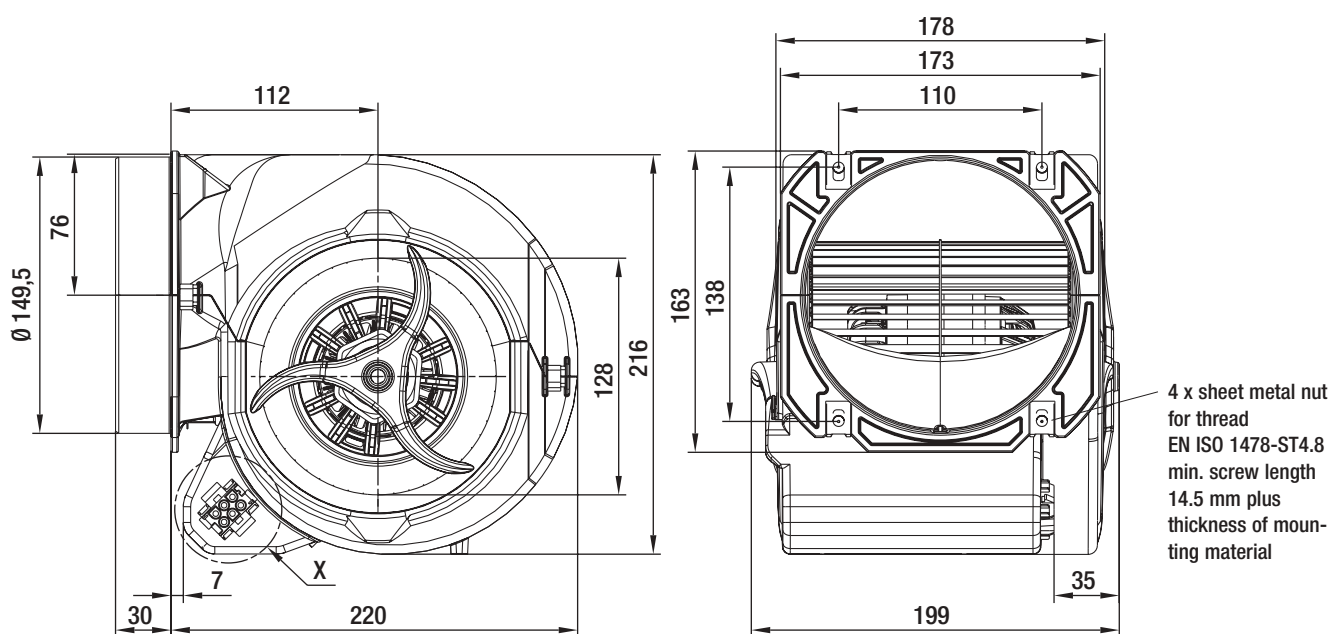
subject to alterations

			n [min⁻¹]	P ₁ [W]
①	①	Step 1	1065	190
①	②	Step 1	1315	182
①	①	Step 2	1460	222
①	②	Step 2	1765	203
①	①	Step 3	1840	262
①	②	Step 3	2140	232
①	①	Step 4	2145	318
①	②	Step 4	2355	280

Characteristics

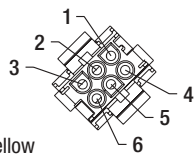


- **Insulation class:** "F"
- **Approvals:** VDE, CE; UL on request
- **Safety regulations:** with integrated temperature monitor and integrated FPU (P2) capacitor in keeping with EN 60335-2-31
- **Note:** Due to the capacitor connected, voltages exceeding 300 V can occur.

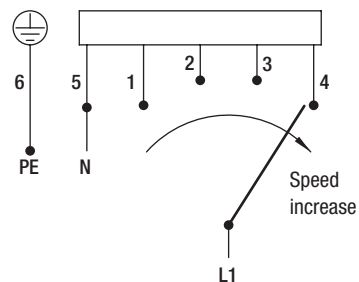


View X
 coded plug system AMP Universal-Mate-N-Lok
 connector shell AMP 926 682-3
 6 x plug pin AMP 926 886-1

- 1 = Step 1 (min.) white
- 2 = Step 2 red
- 3 = Step 3 grey
- 4 = Step 4 (max.) black
- 5 = N blue
- 6 = Ground wire green / yellow



Connection diagram
 When changing speeds,
 the switch must break
 the circuit.



AC centrifugal blowers

dual inlet, Ø 146



- **Material:** scroll housing made of plastic PP - coloured in black, impeller made of plastic PA - coloured in black (in keeping with UL 94 HB)
- **Design:** 5-step blower with integrated EW external-rotor motor and anti-vibration motor suspension on both sides
- **Bearings:** maintenance-free ball bearings both sides
- **Capacitor:** Integrated in terminal box completely wired up and ready for plug-in. FPU (P2) capacitor design.
- **Insulation class:** "F"
- **Approvals:** VDE, CE
- **Note:** Due to the capacitor connected, voltages exceeding 300 V can occur.

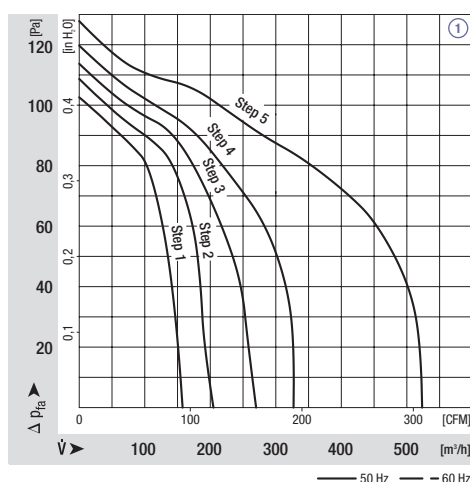
ebm-papst • Mulfingen

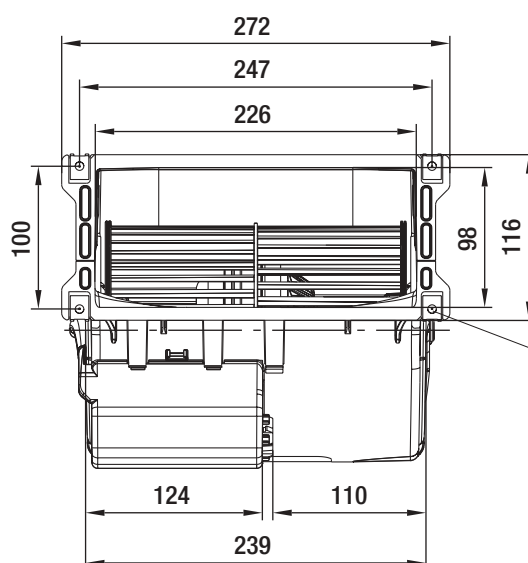
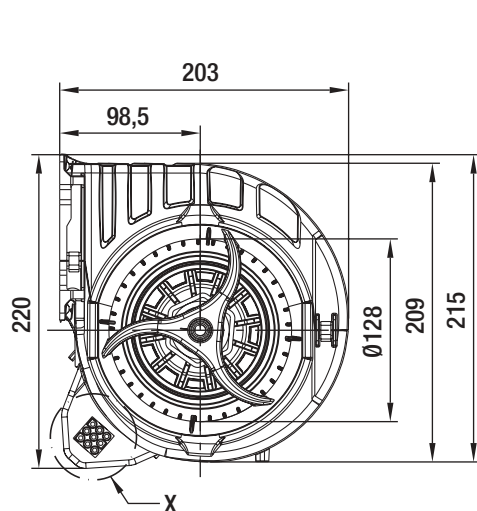
Nominal data

		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Min. back pressure	Perm. amb. temp.	Mass
Type	Motor		VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg
D4E 146-LV55 -01	M4E 068-CF	①	230 230	50 60	565 510	780 710	65 68	0,29 0,30	2,0/400 2,0/400	46 42	0 0	50 40	2,5

subject to alterations

Characteristics



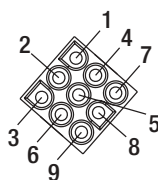


4 x sheet metal nut
for thread
EN ISO 1478-ST4.8
min. screw length
14.5 mm plus
thickness of moun-
ting material

View X

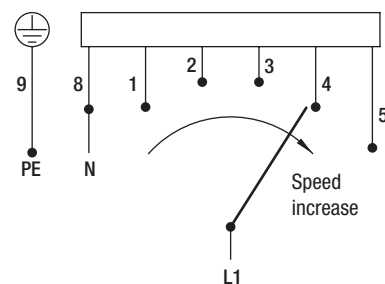
coded plug system AMP Universal-Mate-N-Lok
connector shell AMP 927 231-3
7 x plug pin AMP 926 886-1

- 1 = Step 1 (min.)
- 2 = Step 2
- 3 = Step 3
- 4 = Step 4
- 5 = Step 5 (max.)
- 8 = N
- 9 = Ground wire



Connection diagram

When changing speeds,
the switch must break
the circuit.



AC centrifugal blowers

dual inlet, Ø 146



- **Material:** scroll housing and impeller made of galvanised sheet steel
- **Mounting:** SAL (standard external-rotor) motor mounted via brackets on one side of the scroll housing

ebm-papst • Mulfingen

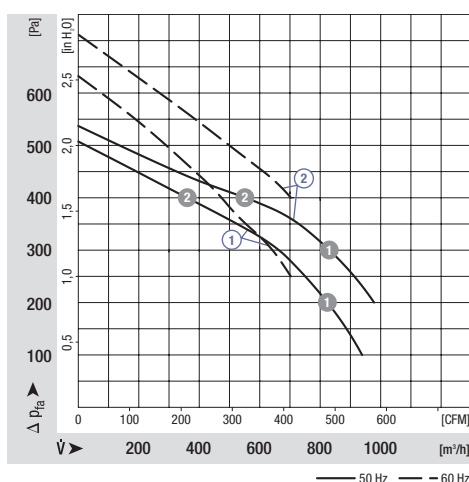
Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Min. back pressure	Perm. amb. temp.	Mass
Type	Motor		VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg
D2E 146-AP43 -22 ⁽¹⁾	M2E 068-EC	①	230	50	935	1650	245	1,08	6,0/400	60	100	40	4,2
D2E 146-AP43 -02 ⁽²⁾			230	60	690	2100	270	1,20	6,0/400	62	250	40	
D2E 146-AP47 -22 ⁽¹⁾	M2E 068-EC	②	230	50	970	2050	300	1,31	8,0/400	63	200	40	4,2
D2E 146-AP47 -02 ⁽²⁾			230	60	690	2550	330	1,45	8,0/400	68	400	35	
D4E 146-AA07 -22 ⁽¹⁾	M4E 068-CF	③	230	50	835	1000	100	0,44	2,0/450	55	0	50	3,5
D4E 146-AA07 -02 ⁽²⁾			230	60	765	950	116	0,51	2,0/450	53	0	50	

subject to alterations ⁽¹⁾ With flange ⁽²⁾ Without flange

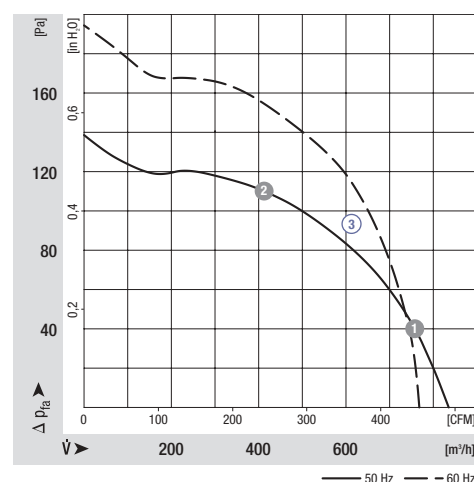
	n [min⁻¹]	P ₁ [W]
① ①	1935	230
① ②	2560	167
② ①	2300	262
② ②	2600	206

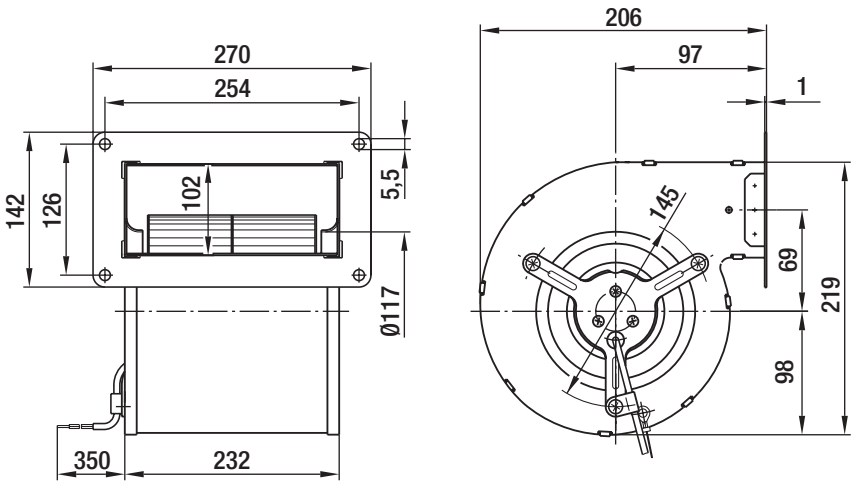
	n [min⁻¹]	P ₁ [W]
③ ①	1180	88
③ ②	1390	65

Characteristics



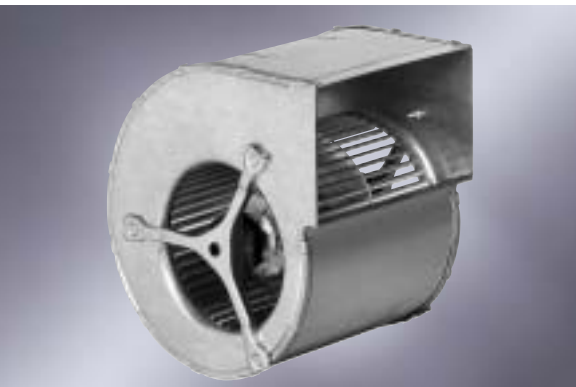
Characteristics





AC centrifugal blowers

dual inlet, Ø 146



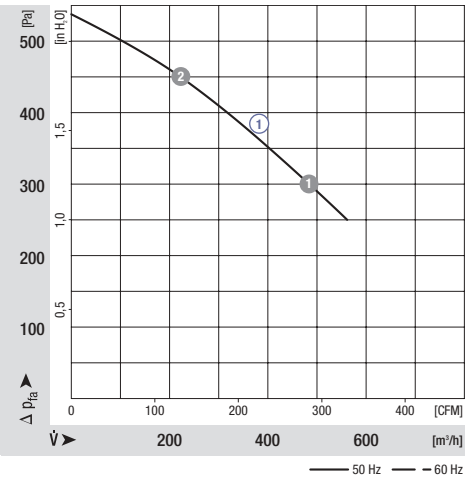
- **Material:** scroll housing and impeller made of galvanised sheet steel
- **Mounting:** EW-motor anti-vibration mounted on both sides

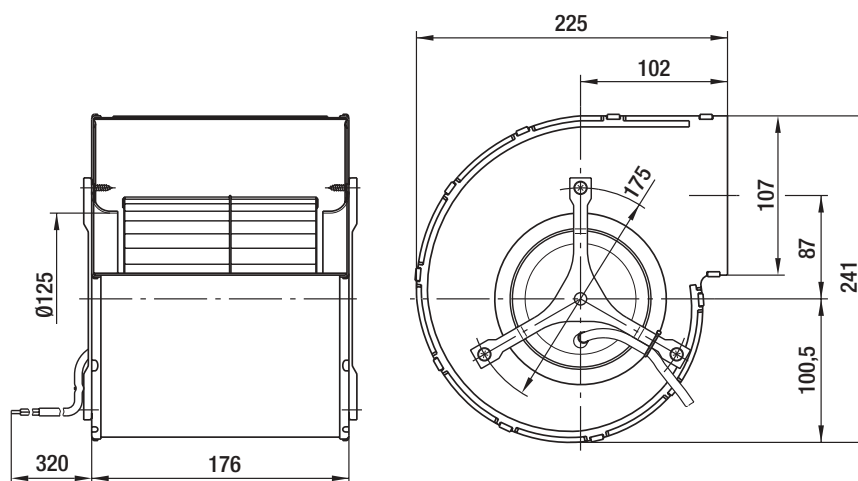
ebm-papst • Mulfingen

Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Min. back pressure	Perm. amb. temp.	Mass
Type	Motor		VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg
D2E 146-CS03 -01 ⁽¹⁾	M2E 068-DF	①	230	50	555	1950	180	0,79	4,0/400	57	250	40	4,3
subject to alterations		⁽¹⁾ Flange on request											

	n [min⁻¹]	P ₁ [W]
① ①	2160	182
① ②	2480	155

Characteristics





AC centrifugal blowers unit

dual inlet, Ø 146



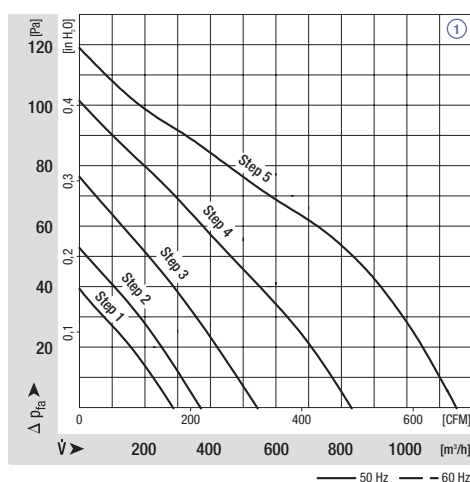
- **Material:** scroll housing made of plastic PP - coloured in black, impeller and suspension made of plastic PA - coloured in black (in keeping with UL 94 HB)
- **Design:** 5-step blower with integrated EW external-rotor motor and anti-vibration motor suspension on both sides
- **Bearings:** maintenance-free ball bearings on both sides
- **Capacitor:** Integrated in terminal box completely wired up and ready for plug-in. FPU (P2) capacitor design.
- **Insulation class:** "F"
- **Approvals:** VDE, CE
- **Note:** Due to the capacitor connected, voltages exceeding 300 V can occur.

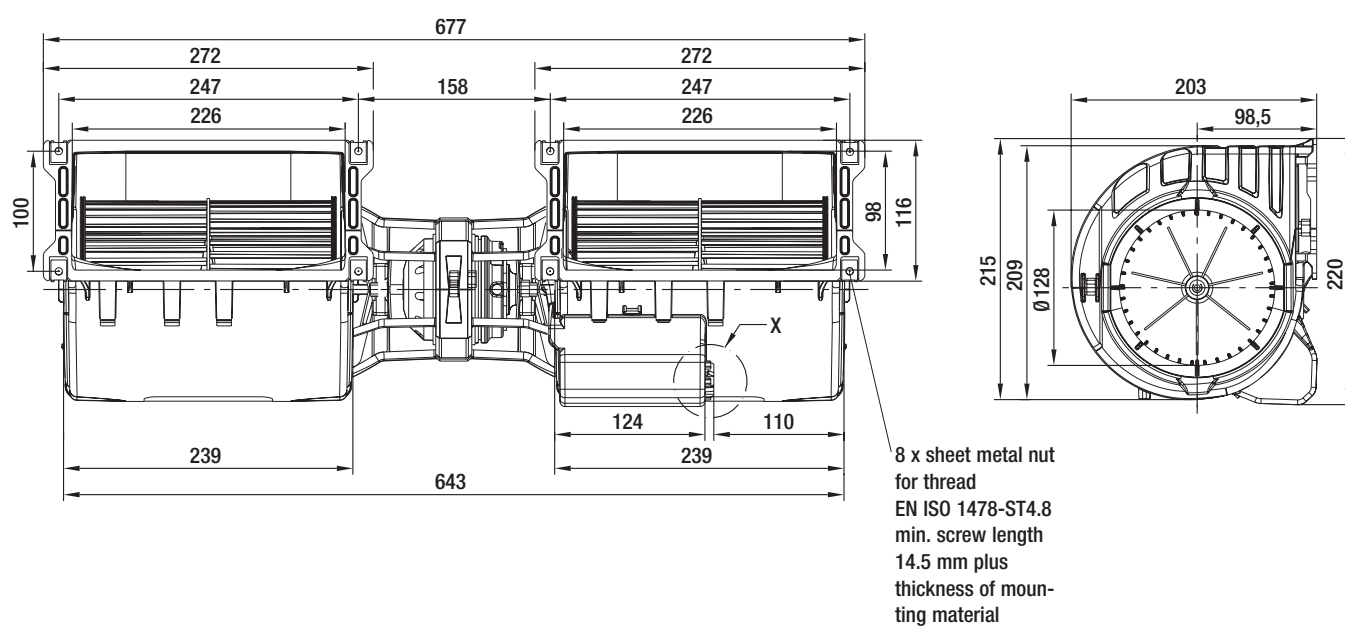
ebm-papst • Mulfingen

Nominal data		Characteristic	Voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Noise level	Min. back pressure	Perm. amb. temp.	Mass
Type	Motor		VAC	Hz	m³/h	min⁻¹	W	A	µF/VDB	dB(A)	Pa	°C	kg
K4E 146-AB57 -01	M4E 068-CF	①	230	50	1180	750	85	0,38	2,5/450	47	0	50	4,0

subject to alterations

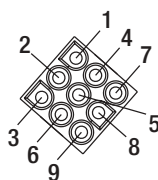
Characteristics





View X
 coded plug system AMP Universal-Mate-N-Lok
 connector shell AMP 927 231-3
 7 x plug pin AMP 926 886-1

- 1 = Step 1 (min.)
- 2 = Step 2
- 3 = Step 3
- 4 = Step 4
- 5 = Step 5 (max.)
- 8 = N
- 9 = Ground wire



Connection diagram
 When changing speeds,
 the switch must break
 the circuit.

