

S4E360-EC20-51

## AC axial fan

blades with special design (K series)

with guard grille for full nozzle



### Nominal data

Type	S4E360-EC20-51		
Motor	M4E068-DF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed	min <sup>-1</sup>	1320	1430
Power input	W	115	145
Current draw	A	0.54	0.64
Motor capacitor	µF	3	3
Capacitor voltage	VDB	400	400
Capacitor standard		P0 (CE)	P0 (CE)
Max. back pressure	Pa	55	40
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	40	40
Starting current	A	1.1	1.06

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit  
Subject to alterations



# AC axial fan

blades with special design (K series)

with guard grille for full nozzle

## Technical features

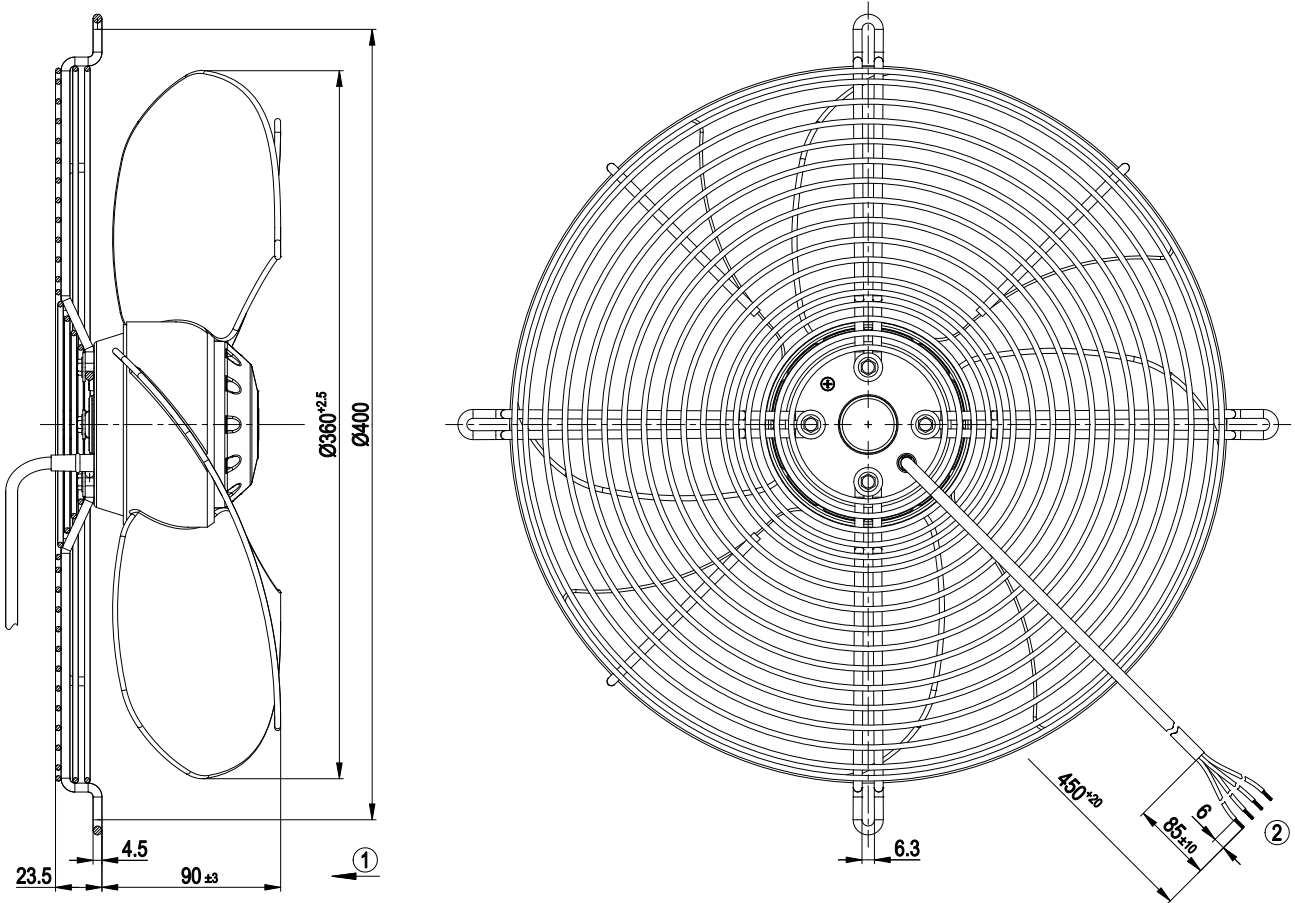
<b>Mass</b>	3 kg
<b>Size</b>	360 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of blades</b>	PP plastic
<b>Number of blades</b>	4
<b>Direction of air flow</b>	"V"
<b>Direction of rotation</b>	Counter-clockwise, seen on rotor
<b>Type of protection</b>	IP 44; Depending on installation and position as per EN 60034-1
<b>Insulation class</b>	"B"
<b>Humidity class</b>	F1-2
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+ 80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	- 40 °C
<b>Mounting position</b>	Shaft horizontal or rotor on bottom; rotor on top on request
<b>Condensate discharge holes</b>	Rotor-side
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)</b>	< 0.75 mA
<b>Motor protection</b>	Thermal overload protector (TOP) wired internally
<b>Cable exit</b>	Axial
<b>Protection class</b>	I (if protective earth is connected by customer at the connection point of the housing)
<b>Product conforming to standard</b>	EN 60335-1; CE
<b>Approval</b>	UL 2111



# AC axial fan

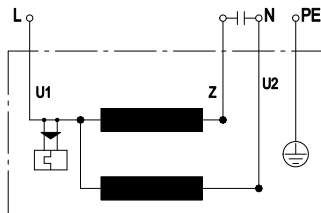
blades with special design (K series)  
with guard grille for full nozzle

## Product drawing



- 1 Direction of air flow "V"
- 2 Connection line PVC 4G AWG20, 4x lead tips crimped

## Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

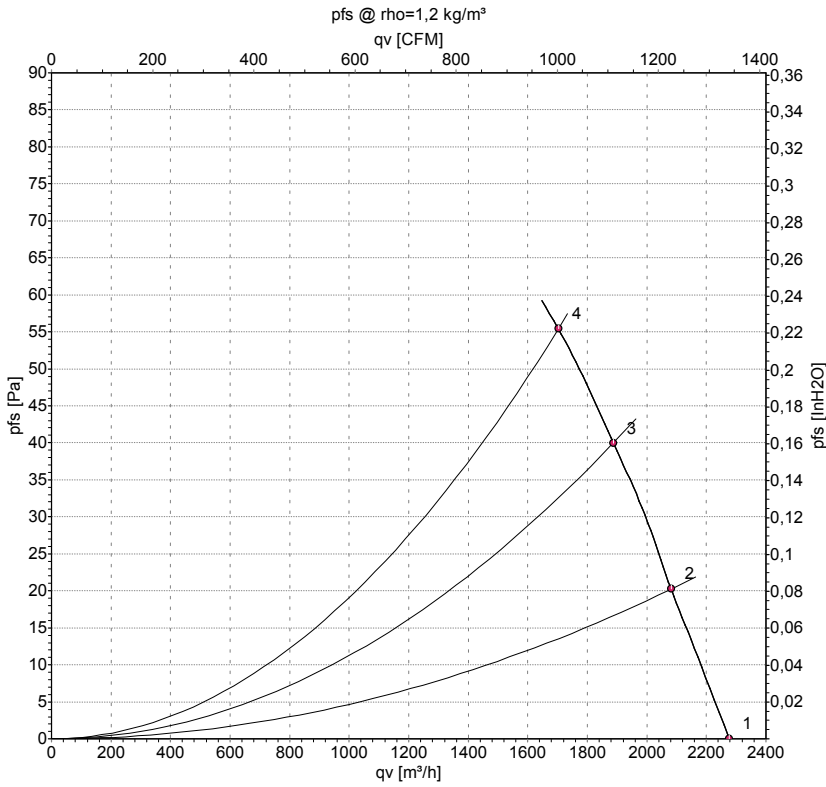


# AC axial fan

blades with special design (K series)

with guard grille for full nozzle

## Charts: Air flow 50 Hz



Measurement: LU-41798

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

	U	f	n	P <sub>e</sub>	I	qv	p <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	230	50	1320	115	0.54	2275	0
2	230	50	1310	116	0.56	2080	20
3	230	50	1300	119	0.57	1885	40
4	230	50	1295	121	0.58	1705	55

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · p<sub>fs</sub> = Pressure increase

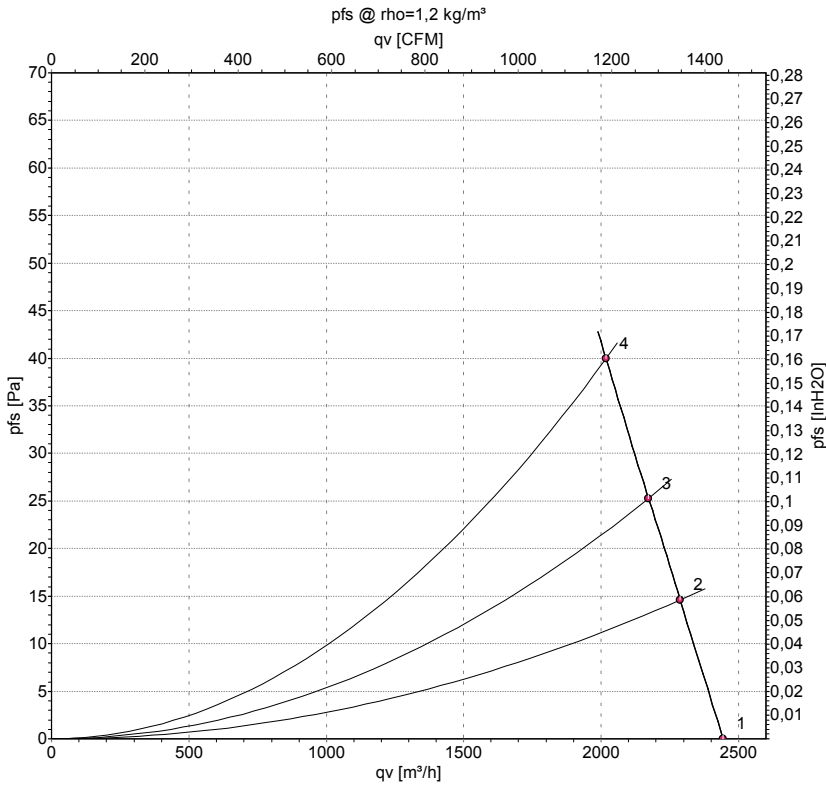


# AC axial fan

blades with special design (K series)

with guard grille for full nozzle

## Charts: Air flow 60 Hz



Measurement: LU-41799

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

	U	f	n	P <sub>e</sub>	I	qv	p <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m³/h	Pa
1	230	60	1430	145	0.64	2445	0
2	230	60	1415	146	0.64	2290	15
3	230	60	1400	149	0.66	2175	25
4	230	60	1380	152	0.67	2020	40

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · p<sub>fs</sub> = Pressure increase

