S6E350-AC24-13

AC axial fan

straight blades (A series)

with guard grille for short nozzle

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Nominal data

Type	**S6E350-AC24-13**
Motor	**M6E068-DC**

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^{-1}	900	1050
Power input	W	60	80
Current draw	A	0.27	0.36
Motor capacitor	µF	2	2
Capacitor voltage	VDB	400	400
Max. back pressure	Pa	50	55
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	65	60
Starting current	A	0.4	0.38

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

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Technical features

Mass	3.8 kg
Size	350 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, coated in black
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	5
Direction of air flow	"A"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"B"
Humidity (F)/environmental protection class (H)	F2-2
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Speed steps	2
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Motor capacitor according to EN 60252-1 in safety protection class	P0/S0
Product conforming to standard	EN 60335-1; CE
Approval	UL 1004-1; CCC; CSA C22.2 No.100

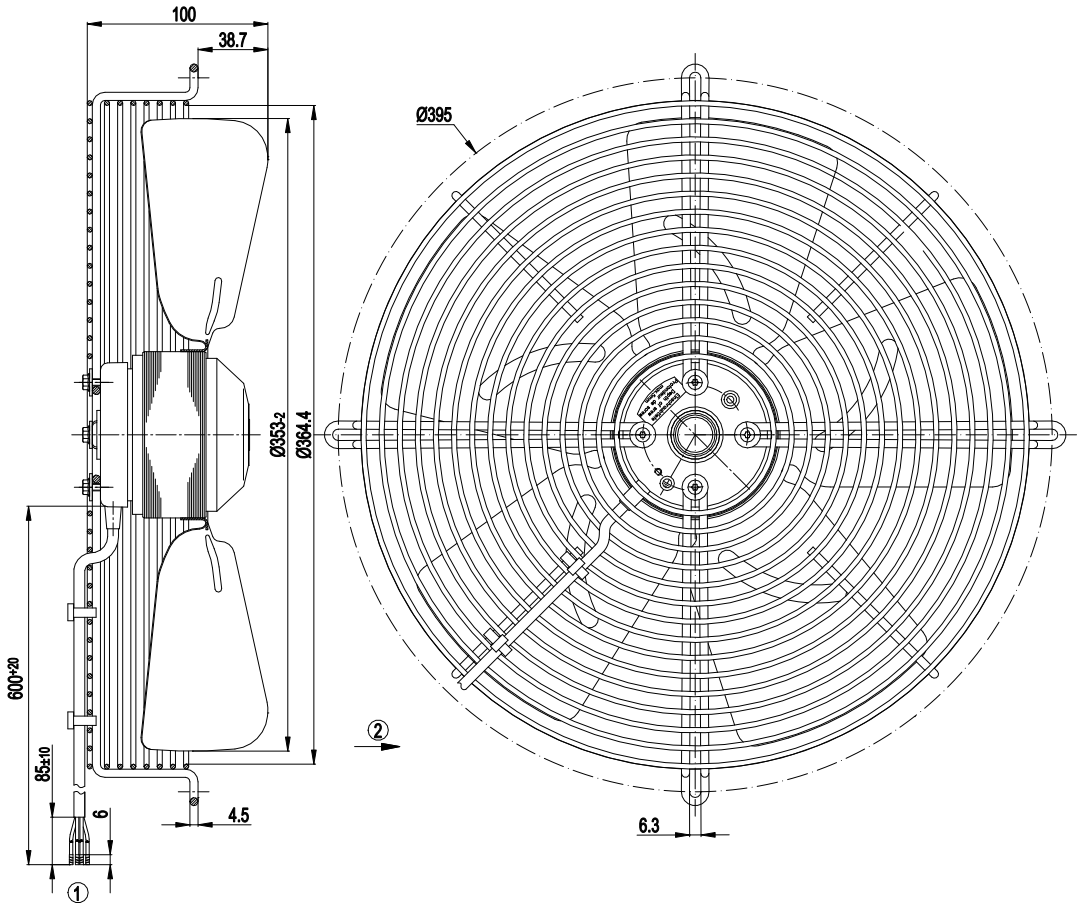
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Product drawing



1	Connection line PFA AWG20, 6x brass lead tips crimped
2	Direction of air flow "A"
	Motor capacitor AEG / MLB MKP 2/400 (2µF 400VDB) is included separately

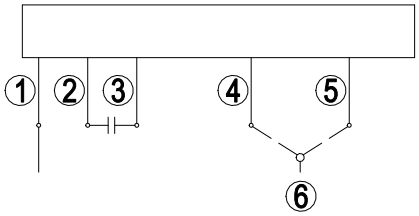
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Connection screen



Note: Fast speed (step II); slow speed (step I)

1	= N = blue	2	brown	3	yellow
4	Step I white	5	Step II black	6	L1

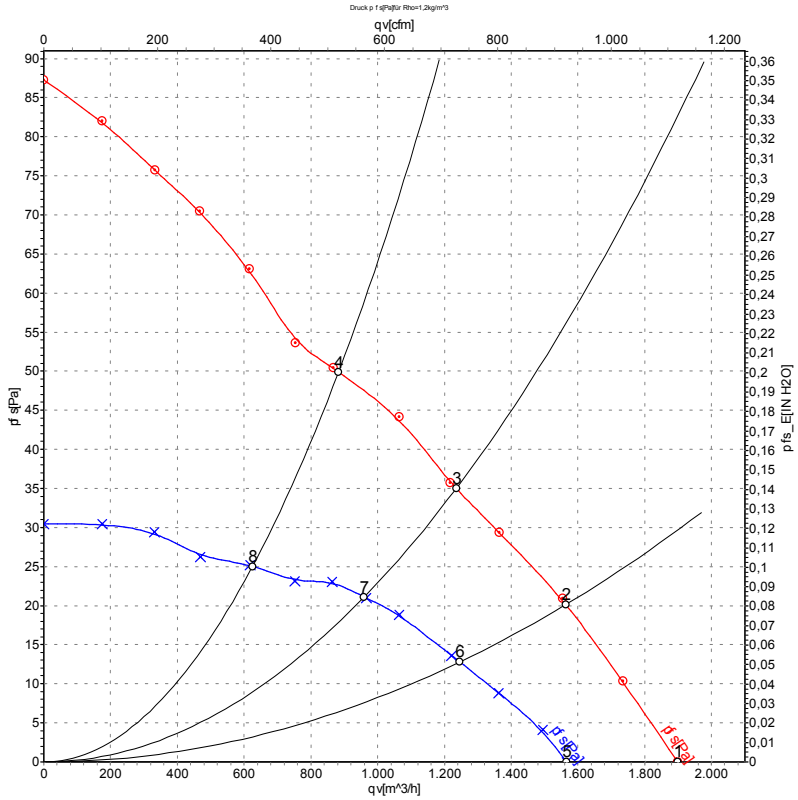
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Charts: Air flow 50 Hz



Measurement: LU-55086
Measurement: LU-55088

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_e	I	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	230	50	900	60	0.27	1900	0
2	230	50	895	61	0.27	1565	20
3	230	50	885	62	0.28	1235	35
4	230	50	850	67	0.30	885	50
5	230	50	755	45	0.20	1565	0
6	230	50	715	47	0.21	1245	13
7	230	50	690	48	0.21	960	21
8	230	50	595	51	0.22	625	25

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

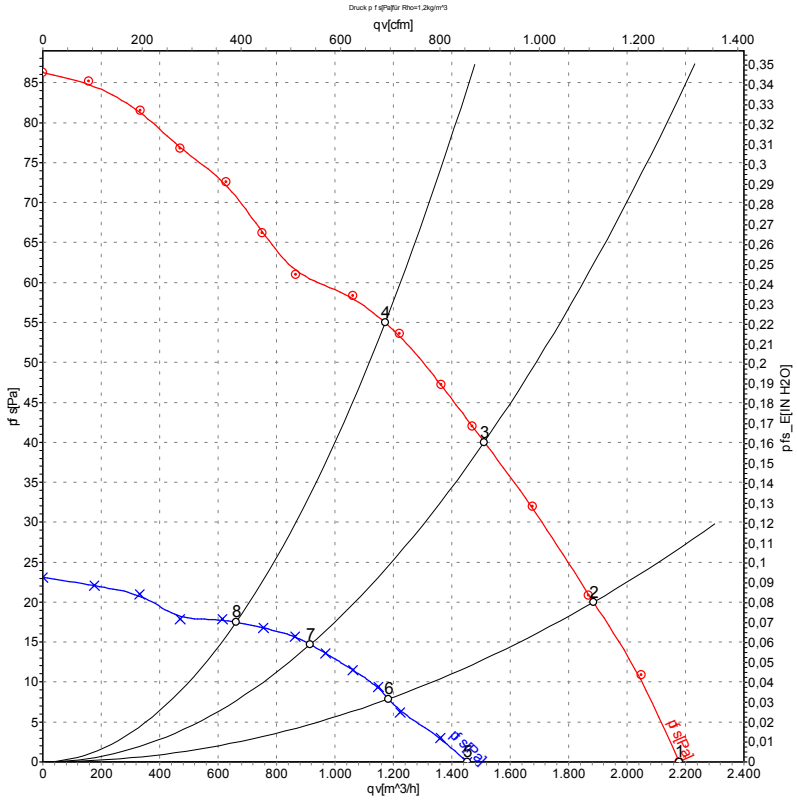
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Charts: Air flow 60 Hz



Measurement: LU-55087
Measurement: LU-55089

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_e	I	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	230	60	1050	80	0.36	2180	0
2	230	60	1025	81	0.36	1885	20
3	230	60	1010	83	0.36	1510	40
4	230	60	960	85	0.37	1170	55
5	230	60	700	49	0.23	1450	0
6	230	60	645	49	0.23	1185	8
7	230	60	610	50	0.23	915	15
8	230	60	540	50	0.23	660	18

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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