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
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min^{-1}	900	1050
Power consumption	W	60	80
Current draw	A	0.27	0.36
Capacitor	µF	2	2
Capacitor voltage	VDB	400	400
Max. back pressure	Pa	50	55
Max. back pressure	inH2O	0.2	0.22
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 = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

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Technical description

Weight	3.8 kg
Fan size	350 mm
Rotor surface	Painted black
Impeller material	Sheet steel, painted black
Guard grille material	Steel, phosphated and coated with black plastic
Number of blades	5
Airflow direction	"A"
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F2-2
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Speed levels	2
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60335-1; CE
Approval	UL 1004-1; EAC; CSA C22.2 No. 100; CCC

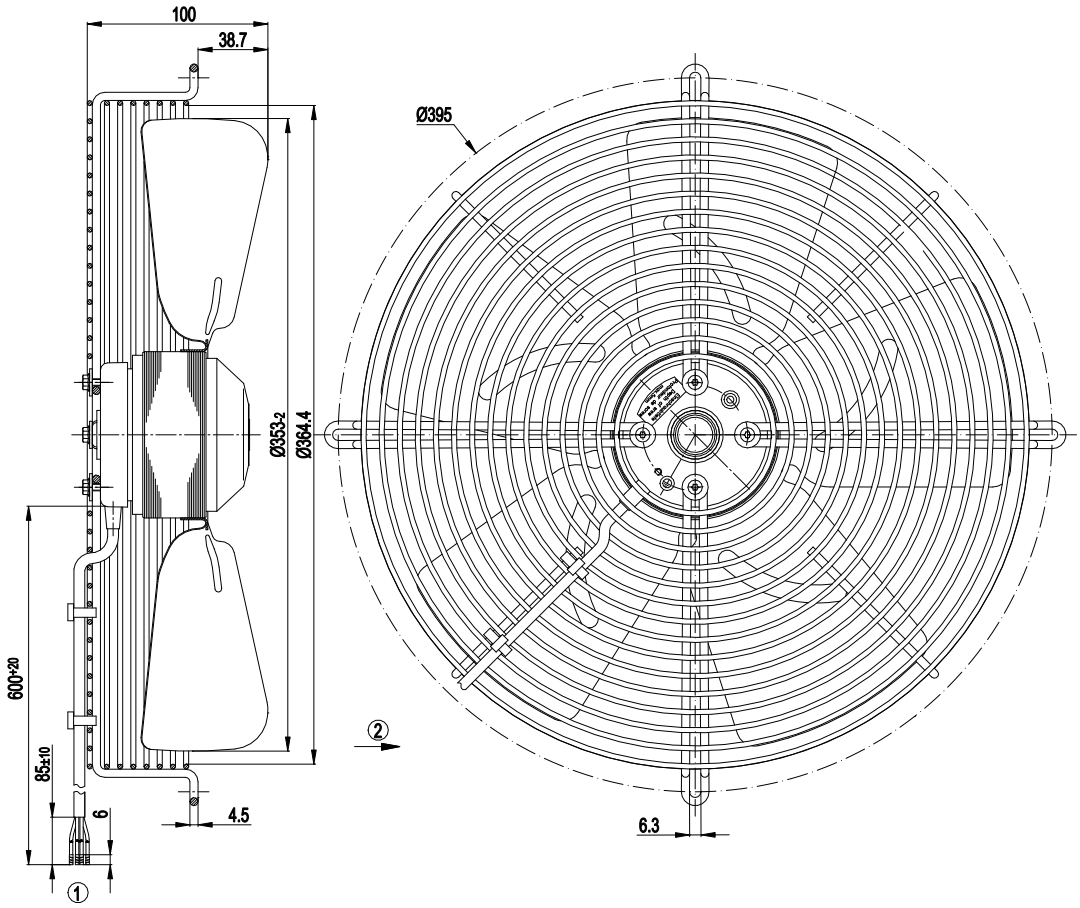
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Product drawing



1	Cable PFA AWG20, 6x crimped splice
2	Direction of air flow "A"
	Motor capacitor AEG / MLB MKP 2/400 (2 µF 400VDB) included separately

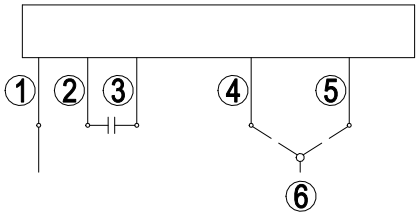
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Connection diagram



Note: High speed (step II); low speed (step I)

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

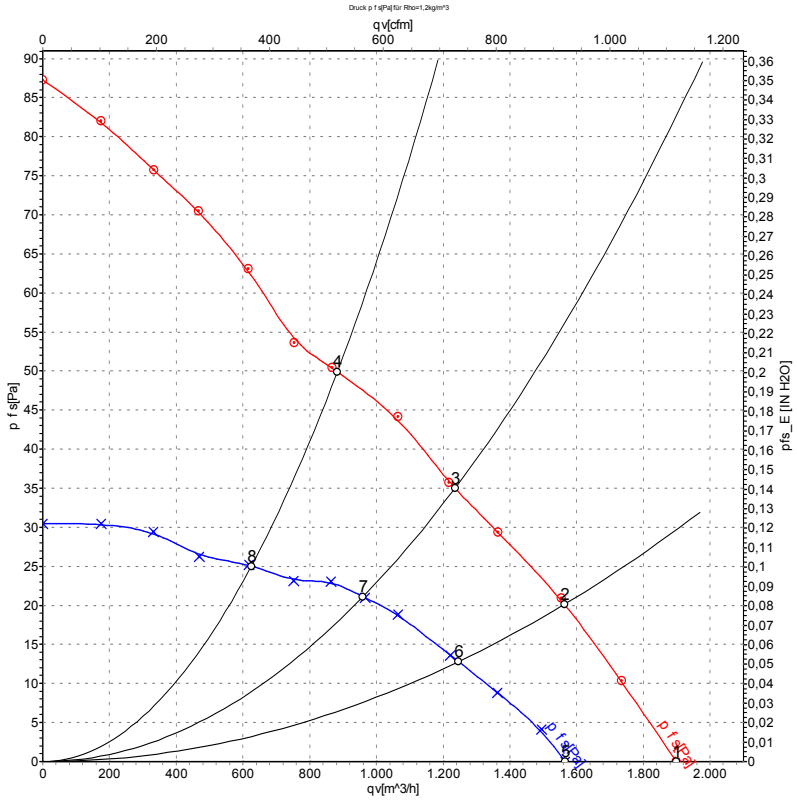
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Curves: Air performance 50 Hz



Measurement: LU-55086-1
Measurement: LU-55088-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P_e	I	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	900	60	0.27	1900	0	1115	0.00
2	230	50	895	61	0.27	1565	20	920	0.08
3	230	50	885	62	0.28	1235	35	725	0.14
4	230	50	850	67	0.30	885	50	520	0.20
5	230	50	755	45	0.20	1565	0	920	0.00
6	230	50	715	47	0.21	1245	13	735	0.05
7	230	50	690	48	0.21	960	21	565	0.08
8	230	50	595	51	0.22	625	25	370	0.10

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

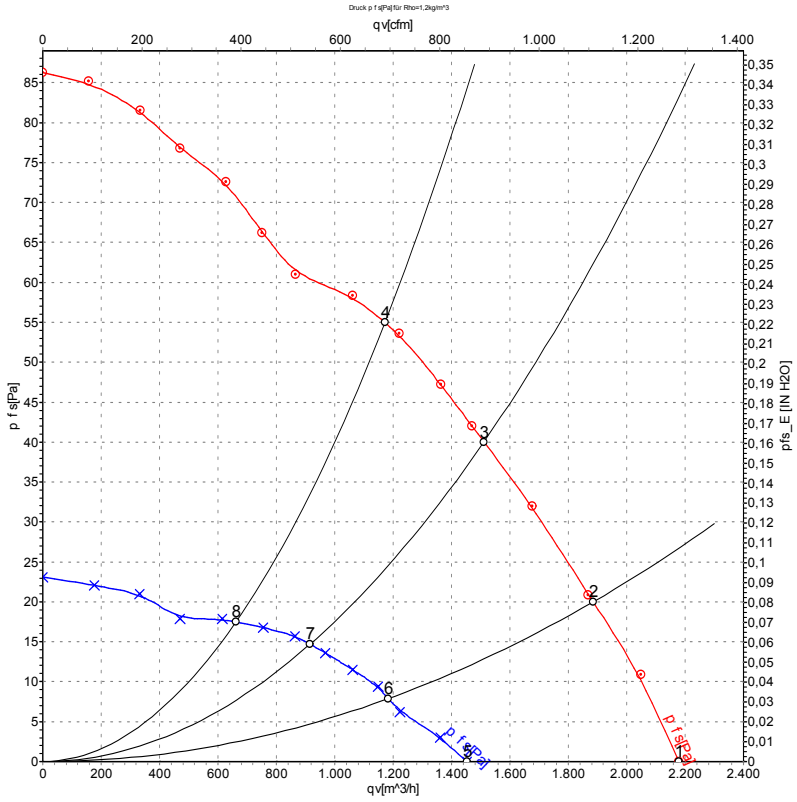
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Curves: Air performance 60 Hz



Measurement: LU-55087-1
Measurement: LU-55089-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P_e	I	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	60	1050	80	0.36	2180	0	1285	0.00
2	230	60	1025	81	0.36	1885	20	1110	0.08
3	230	60	1010	83	0.36	1510	40	890	0.16
4	230	60	960	85	0.37	1170	55	690	0.22
5	230	60	700	49	0.23	1450	0	855	0.00
6	230	60	645	49	0.23	1185	8	695	0.03
7	230	60	610	50	0.23	915	15	540	0.06
8	230	60	540	50	0.23	660	18	390	0.07

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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