S3G300-BH13-10

EC axial fan - HyBlade®

sickled blades (S series)

with guard grille for full nozzle

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Nominal data

Type	**S3G300-BH13-10**
Motor	**M3G055-CF**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		me
Speed	min^{-1}	1640
Power input	W	77
Current draw	A	0.63
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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	2.1 kg
Size	300 mm
Surface of rotor	Cast in PA plastic
Material of blades	PA plastic, black
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54; Depending on installation and position
Insulation class	"B"
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Motor current limit - Soft start - Over-temperature protected motor
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1

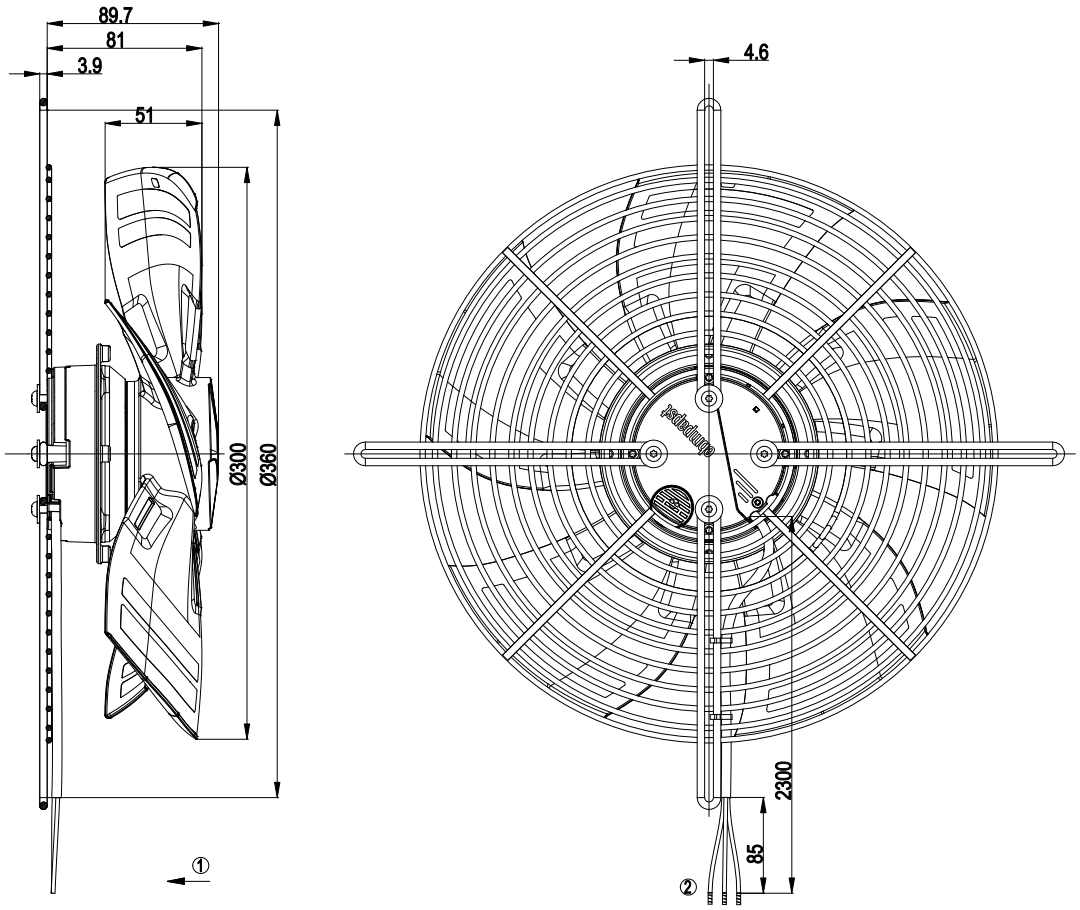
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Product drawing



1	Direction of air flow "V"
2	Connection line AWG 22, 3x brass lead tips crimped

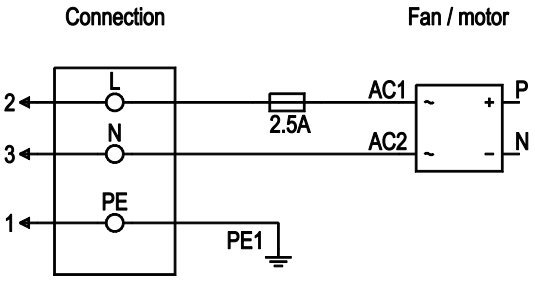
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Connection screen



Line	No.	Signal	Colour	Function / assignment
	1	PE	green/yellow	Protective earth
	2	N	blue	Neutral conductor
	3	L	brown	Power supply 230 VAC, 50 - 60 Hz, see type plate for voltage range

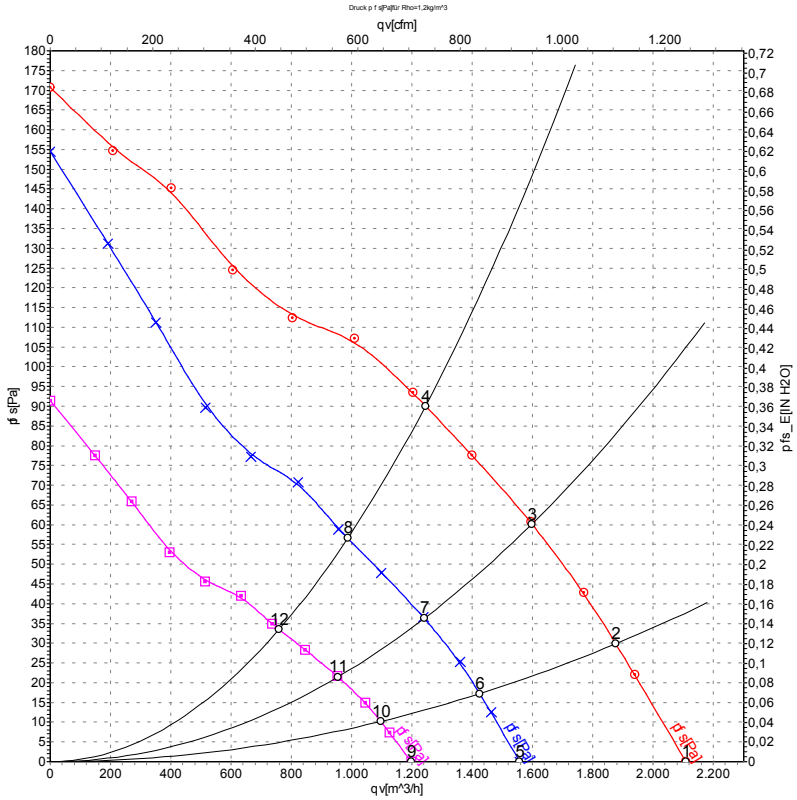
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Charts: Air flow 50 Hz



Measurement: LU-126946

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_{ed}	I	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	230	50	1760	59	0.49	2110	0
2	230	50	1710	66	0.54	1875	30
3	230	50	1675	73	0.60	1595	60
4	230	50	1640	77	0.63	1245	90
5	230	50	1300	24	0.20	1555	0
6	230	50	1300	29	0.24	1425	17
7	230	50	1300	34	0.28	1240	36
8	230	50	1300	38	0.31	985	57
9	230	50	1000	11	0.09	1195	0
10	230	50	1000	13	0.11	1095	10
11	230	50	1000	16	0.13	955	22
12	230	50	1000	17	0.14	760	34

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

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