S3G315-BA58-11

EC axial fan

sickled blades (S series)

with guard grille for full nozzle

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Nominal data

Type	**S3G315-BA58-11**
Motor	**M3G074-CF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
State		prelim.
Speed (rpm)	min^{-1}	1660
Power input	W	110
Current draw	A	0.8
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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	3.7 kg
Size	315 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of rotation	"V"
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"B"
Humidity (F)/environmental protection class (H)	F3-1
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
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - 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	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	UL 2111; CSA C22.2 No.77

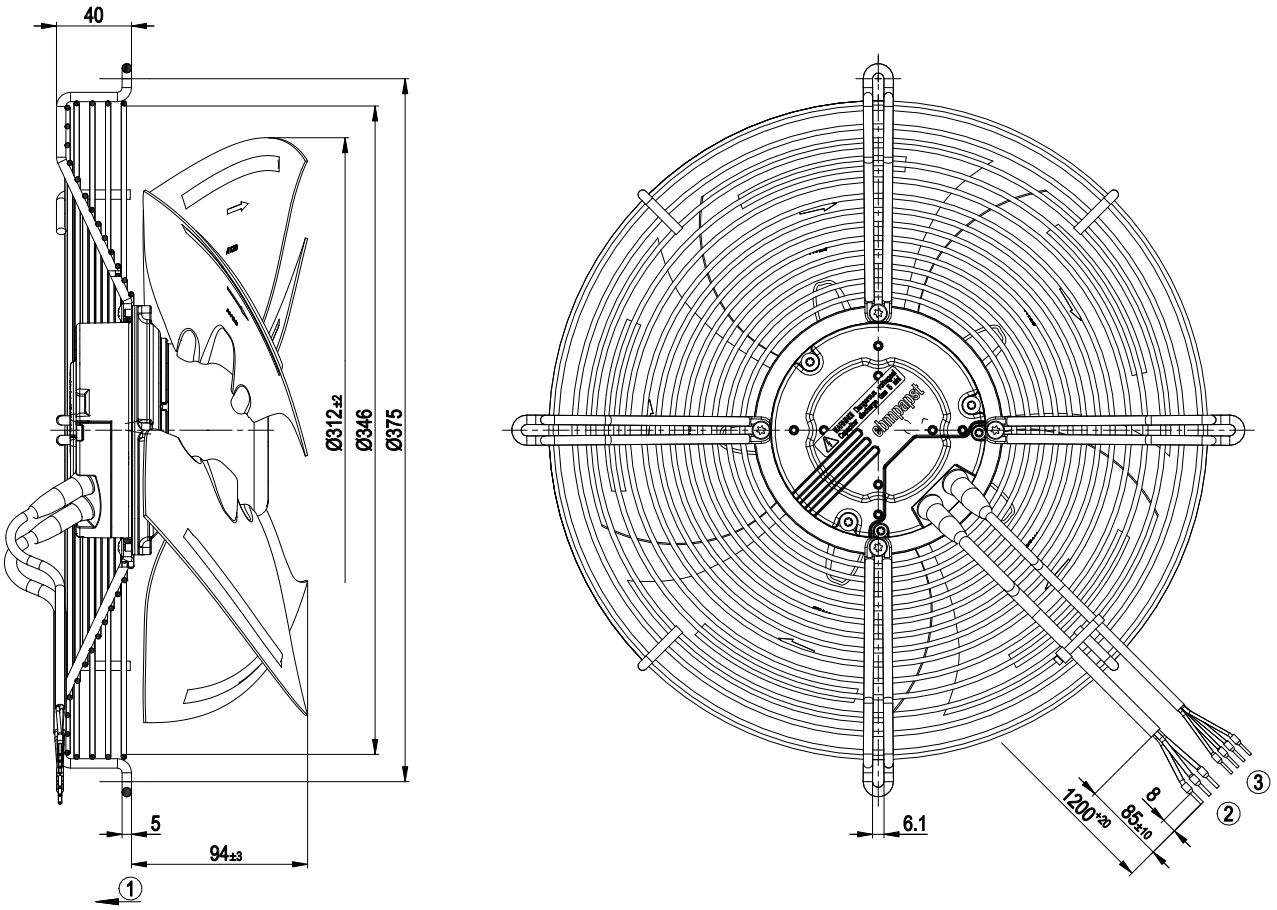
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Product drawing



1	Direction of air flow "V"
2	Connection line PVC 3X AWG18, 3x crimped core-end sleeves
3	Connection line PVC 4X AWG22, 4x crimped core-end sleeves

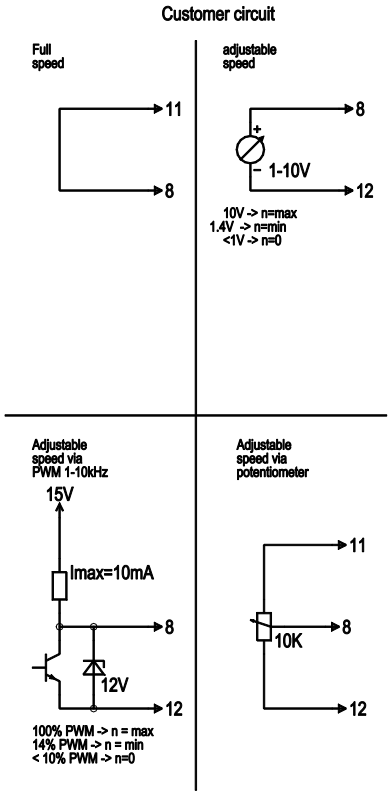
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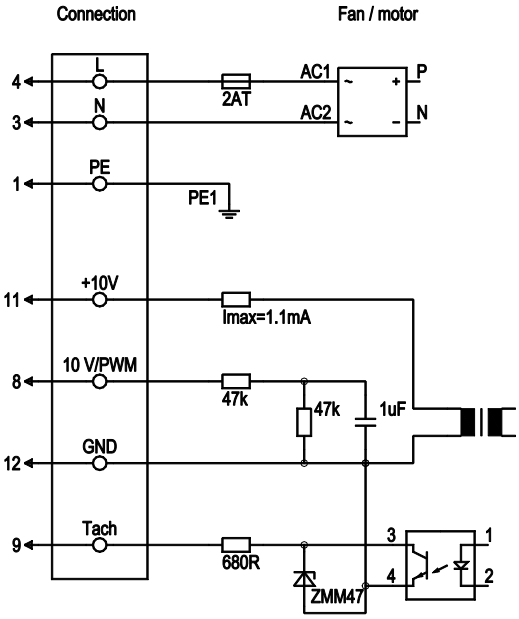
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Connection screen





No.	Conn.	Designation	Colour	Function / assignment
	4	L	black	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	8	0-10 V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	9	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated
	11	10V / max 1.1 mA	red	Voltage output 10 V / max. 1.1 mA, electrically isolated
	12	GND	blue	GND - Connection for control interface

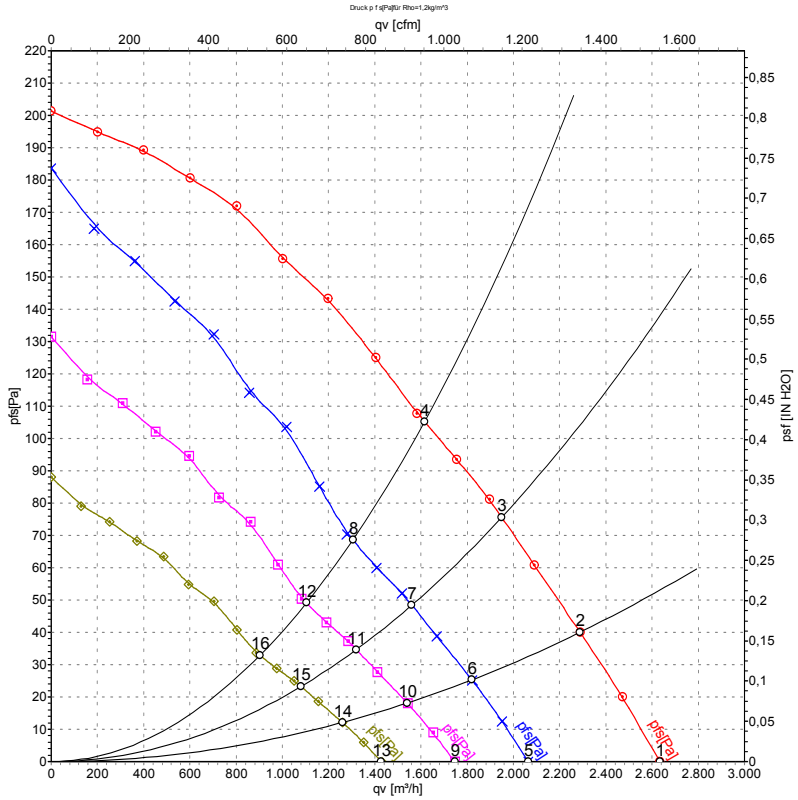
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Charts: Air flow 50 Hz



Measurement: LU-72779-1

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	1660	110	0.80	2635	0	1550	0.00
2	230	50	1635	120	0.88	2290	40	1345	0.16
3	230	50	1625	127	0.92	1950	75	1145	0.30
4	230	50	1610	134	0.99	1615	105	950	0.42
5	230	50	1300	52	0.38	2065	0	1215	0.00
6	230	50	1300	61	0.44	1820	26	1070	0.10
7	230	50	1300	65	0.47	1560	48	920	0.19
8	230	50	1300	71	0.52	1305	68	770	0.27
9	230	50	1100	31	0.23	1745	0	1030	0.00
10	230	50	1100	37	0.27	1540	18	905	0.07
11	230	50	1100	39	0.29	1320	35	775	0.14
12	230	50	1100	43	0.32	1105	49	650	0.20
13	230	50	900	17	0.13	1430	0	840	0.00
14	230	50	900	20	0.15	1260	12	740	0.05
15	230	50	900	22	0.16	1080	23	635	0.09
16	230	50	900	23	0.17	905	33	530	0.13

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

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