S3G350-AC56-13

EC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2
D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Nominal data

Type	**S3G350-AC56-13**
Motor	**M3G074-CF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Type of data definition		ml
Speed	min^{-1}	1450
Power input	W	134
Current draw	A	1
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

EC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

Technical features

Leackage current	<= 3.5 mA
Size	350 mm
Operation mode	S1
Direction of rotation	Counter-clockwise, seen on rotor
Mounting position	Any
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
Humidity class	F3-1
Direction of air flow	"V"
Insulation class	"B"
Condensate discharge holes	None
Motor bearing	Ball bearing
Mass	3.9 kg
Material of impeller	Plastic PA6, fibreglass-reinforced
Material of guard grille	Steel, phosphated and coated in black plastic
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	EN 60335-1
Surface of rotor	Cast in PA plastic
Number of blades	5
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start - 0-10 VDC control input Over-temperature protected electronics / motor
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C

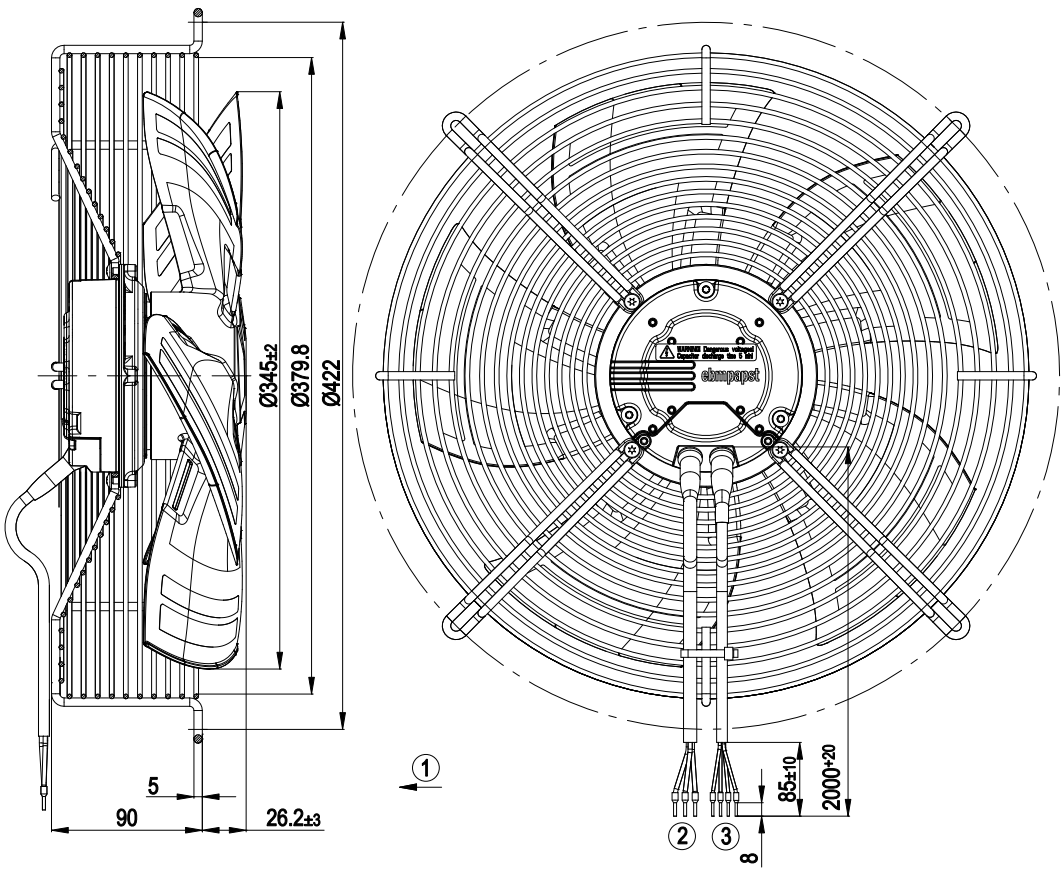
ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 7938 81-0 · Fax +49 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

EC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

Product drawing



1	Direction of air flow "V"
2	Connection line 3X AWG18; 3x crimped core-end sleeves
3	Control cable 4G AWG22; 4x crimped core-end sleeves

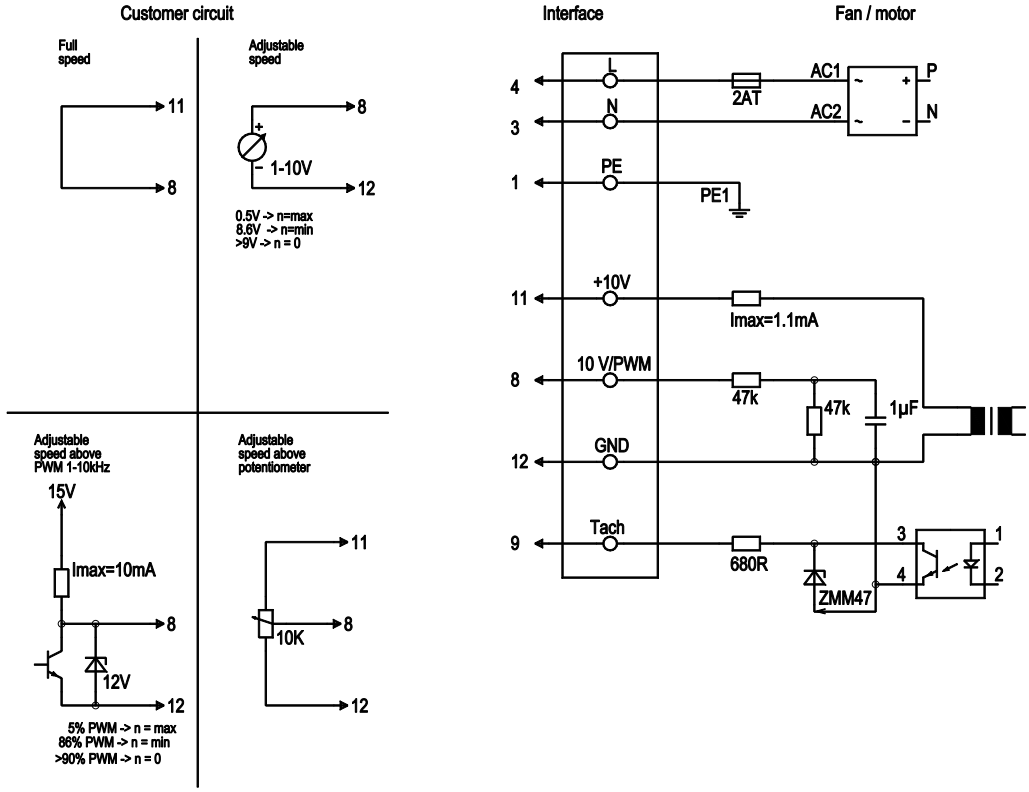
ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 7938 81-0 · Fax +49 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

EC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

Connection screen



Line	No.	Signal	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- 10V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	9	Tacho	white	Tach output: open collector, 1 pulse per revolution, electrically isolated
	11	10V/ max 1.1mA	red	Voltage output 10 V/ 1.1 mA, electrically isolated,
	12	GND	blue	GND - Connection for control interface

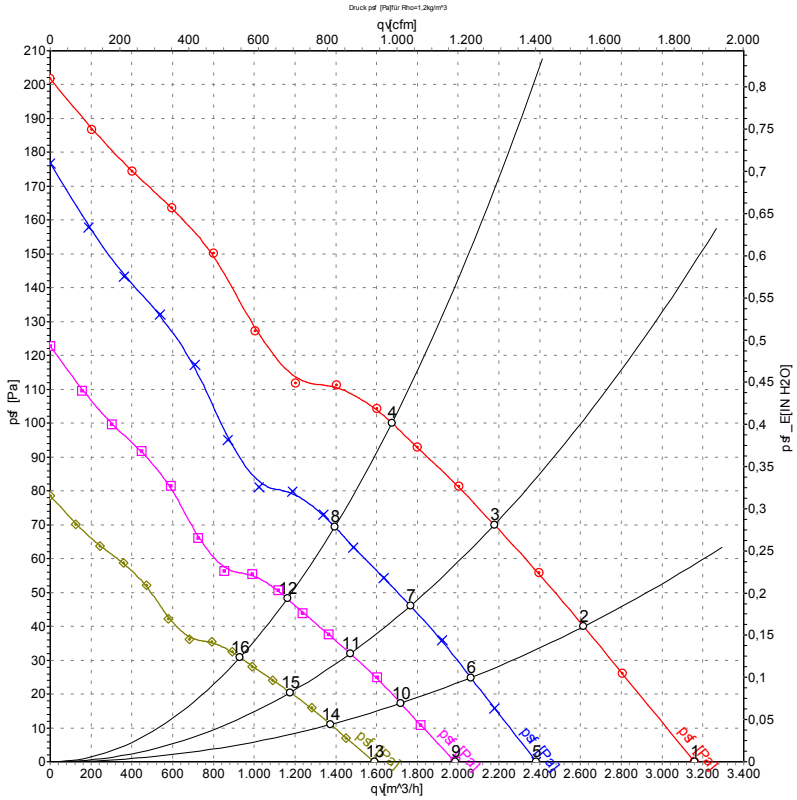
ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 7938 81-0 · Fax +49 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

EC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

Charts: Air flow 50 Hz



Measurement: LU-123051

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_{sf}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	230	50	1590	103	0.77	3160	0
2	230	50	1525	115	0.86	2615	40
3	230	50	1480	124	0.91	2175	70
4	230	50	1450	134	1.00	1675	100
5	230	50	1200	44	0.33	2385	0
6	230	50	1200	57	0.42	2060	25
7	230	50	1200	66	0.48	1765	46
8	230	50	1200	75	0.55	1395	69
9	230	50	1000	26	0.19	1985	0
10	230	50	1000	33	0.24	1720	17
11	230	50	1000	38	0.28	1470	32
12	230	50	1000	43	0.32	1160	48
13	230	50	800	13	0.10	1590	0
14	230	50	800	17	0.13	1375	11
15	230	50	800	20	0.14	1175	20
16	230	50	800	22	0.16	930	31

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 7938 81-0 · Fax +49 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com