A3G350-AL67-13

EC axial fan - HyBlade

sickled blades (S series)

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

Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

Nominal data

Type	**A3G350-AL67-13**
Motor	**M3G074-CF**

Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 52
Type of data definition		fa
Speed (rpm)	min^{-1}	1850
Power input	W	220
Current draw	A	4.6
Max. back pressure	Pa	140
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

Data in accordance with ecodesign regulation EU 327/2011 (prEN 17166)

		Actual	Request 2015
01 Overall efficiency η_{es}	%	39.9	30
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		49.9	40
05 Variable speed drive		Yes	

09 Power input P_e	kW	0.26
09 Air flow q_v	m^3/h	2705
09 Pressure increase p_{fs}	Pa	124
10 Speed (rpm) n	min^{-1}	1735
11 Specific ratio*		1.00

Data definition with optimum efficiency.

* Specific ratio = 1 + p_{fs} / 100 000 Pa

LU-162405

The indicated efficiency values for obtaining conformity with the Ecodesign Directive EU 327/2011 were achieved with defined air conduction components (e.g. inlet nozzles).
The dimensions are to be requested from ebm-papst. If other air guide geometries are used on the installation side, the ebm-papst evaluation loses its validity/conformity must be confirmed again.

The product does not fall within the scope of Regulation (EU) 2019/1781 due to the exception specified in Article 2(2a) (motors completely integrated into a product).

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Technical features

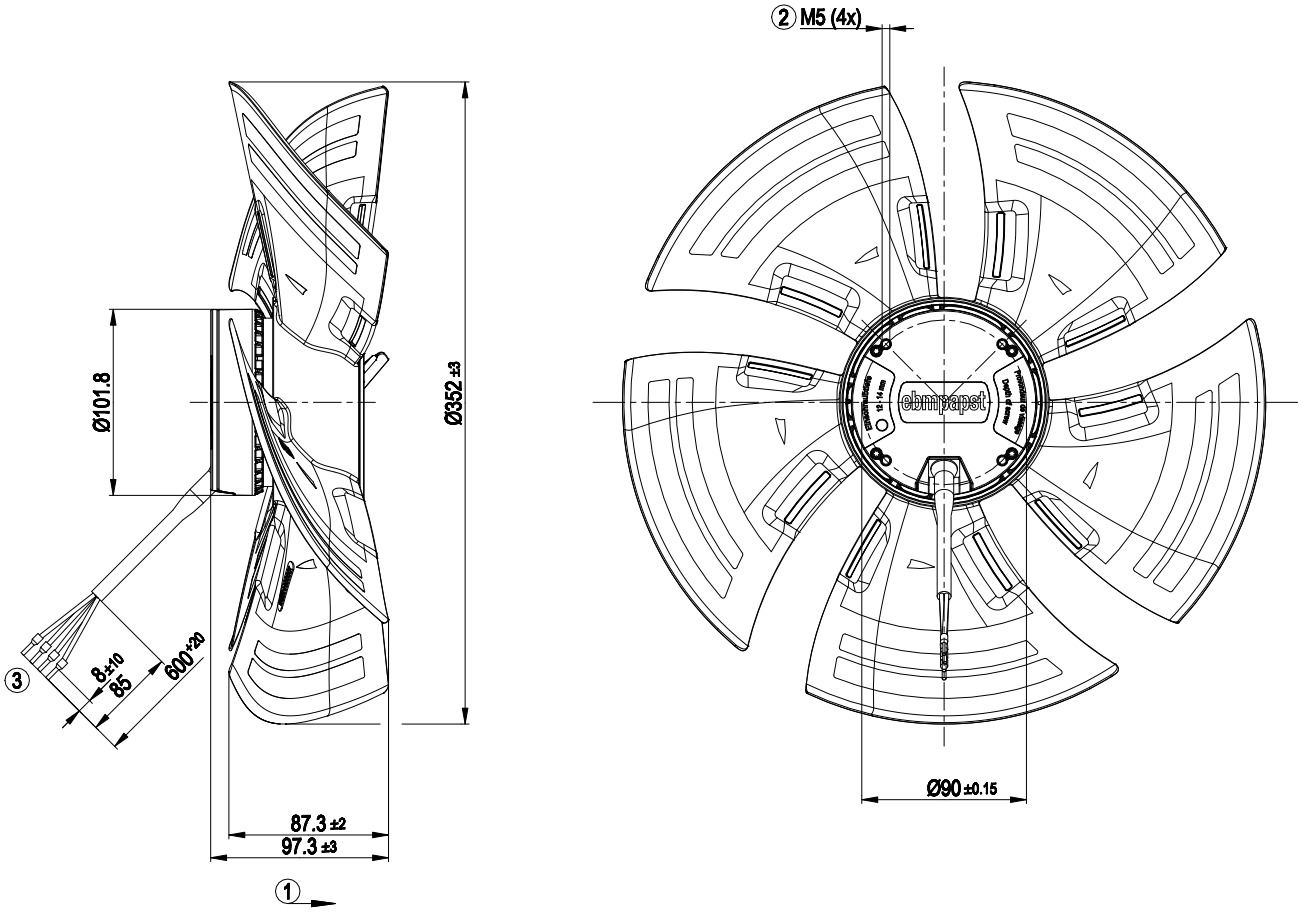
Mass	2 kg
Size	350 mm
Motor size	74
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium
Material of impeller	PP plastic
Number of blades	5
Direction of air flow	A
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP20; Depending on installation and position
Insulation class	"B"
Humidity (F) / environmental protection class (H)	H1+
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
Condensation drainage holes	None
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Overvoltage detection - Reverse polarity protection
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 55022 (Class B, household environment)
Cable exit	Variable
Safety classification	III; Requires supply with safety extra-low voltage SELV. This component to be built-in can have several local protection class ratings. The specification refers to the basic design of this component. The final protection class is based on the intended installation and connection of the component.
Product conforming to standard	EN 62368-1; CE
Approval	EAC

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Product drawing



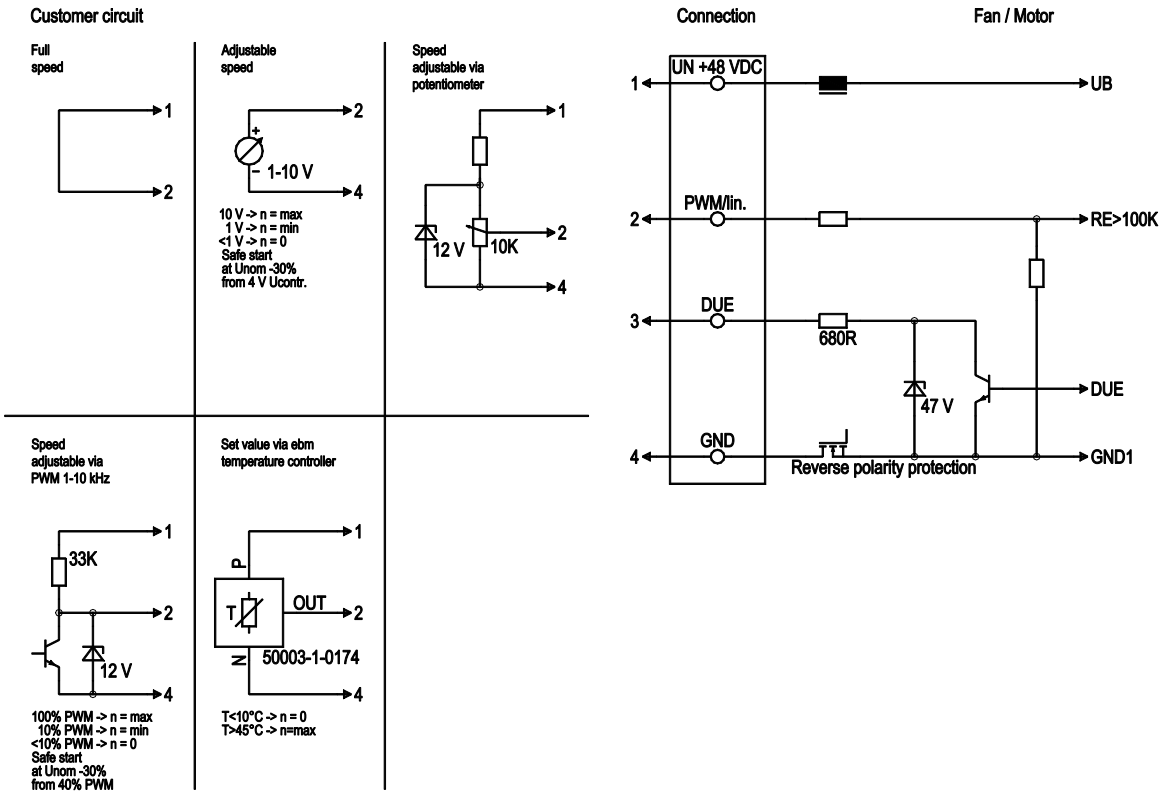
1	Direction of air flow "A"
2	Thread reach 12-14 mm
3	Connection line PVC AWG16, 4x crimped core-end sleeves

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Connection screen



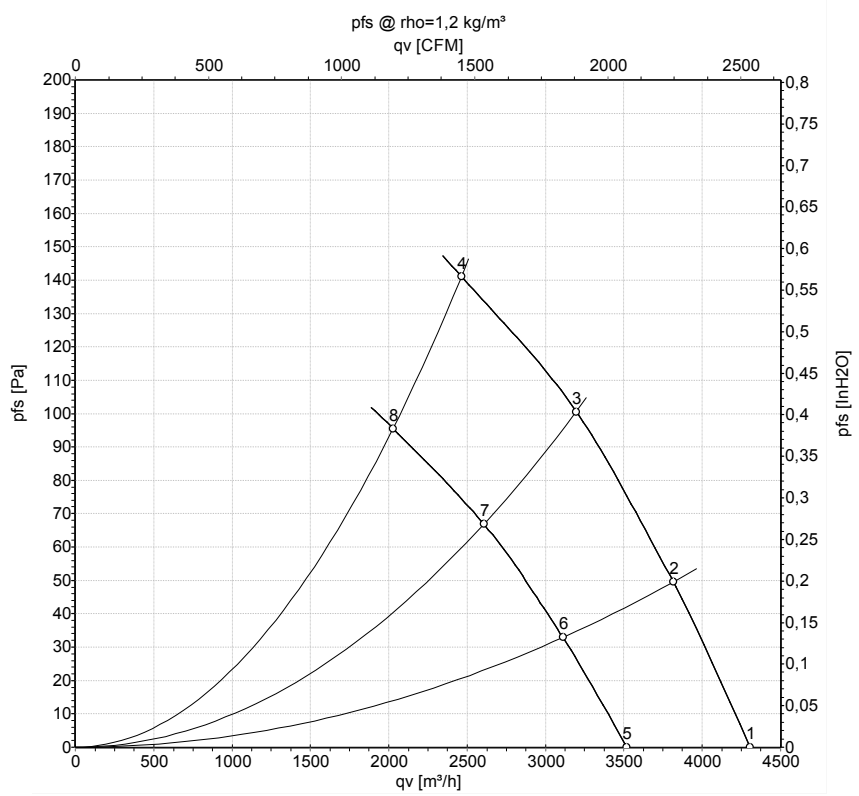
No.	Conn.	Designation	Colour	Function / assignment
	1	Un +48 VDC	red	Power supply 48 VDC, residual ripple 3.5 %
	2	0-10 VDC	yellow	Control input Re>100 K
	3	Tach	white	Speed monitoring output, 3 pulses per revolution, Isink max = 10 mA
	4	GND	blue	Reference mass

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Charts: Air flow



Measurement: LU-162405-1
Measurement: LU-162732-1

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	n	P_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	48	1850	220	4.60	4305	0	2535	0.00
2	48	1800	239	4.97	3815	50	2245	0.20
3	48	1760	254	5.28	3195	100	1880	0.40
4	48	1725	266	5.55	2465	140	1450	0.56
5	36	1505	118	3.27	3515	0	2070	0.00
6	36	1470	127	3.53	3110	33	1830	0.13
7	36	1435	136	3.77	2605	67	1535	0.27
8	36	1415	143	3.96	2025	95	1195	0.38

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

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