A3G350-AN01-12

EC axial fan

sickled blades (S series)

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**A3G350-AN01-12**
Motor	**M3G074-CF**

Phase		1~	1~
Nominal voltage	VAC	230	230
Nominal voltage range	VAC	200 .. 240	200 .. 240
Frequency	Hz	50/60	50/60
Type of data definition		ml	ml
Speed	min^{-1}	1450	950
Power input	W	160	-
Current draw	A	1.3	
Max. back pressure	Pa	110	
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	40	40

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes
Specific ratio*	1.00

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

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	42.1	24.5	28.5
Efficiency grade N		53.6	36	40
Power input P_{ed}	kW	0.15		
Air flow q_v	m^3/h	2255		
Pressure increase p_{fs}	Pa	90		
Speed n	min^{-1}	1460		

Data definition with optimum efficiency. LU-152027
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

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Technical features

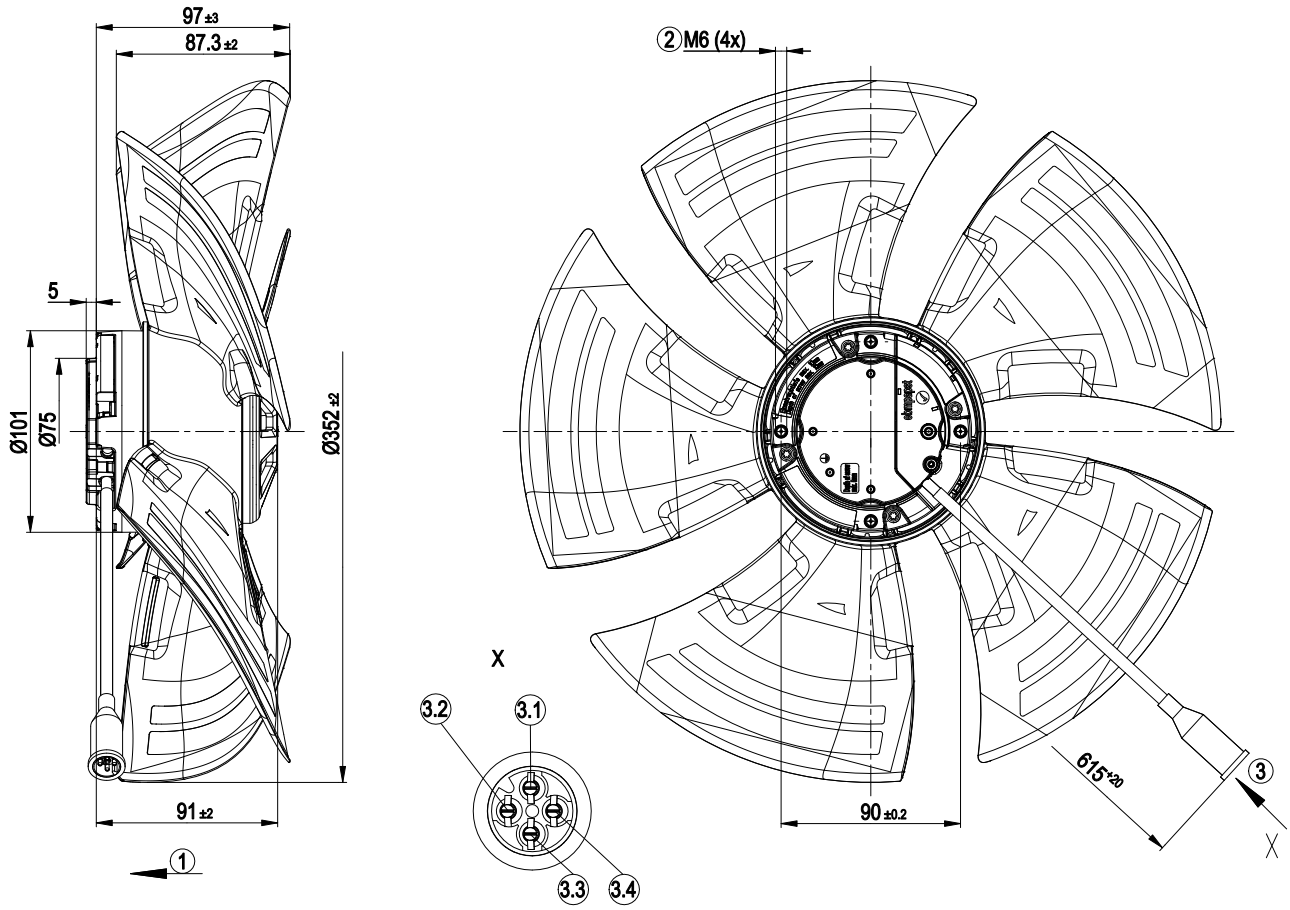
Mass	2 kg
Size	350 mm
Material of electronics housing	Die-cast aluminium
Material of blades	PP plastic
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity class	F3-1
Max. permissible ambient motor temp. (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	None, open rotor
Cooling bore / aperture	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing with anti-freezing grease
Technical features	- Speed adjustment input (230 V) - Output limit - Motor current limit - Soft start - Over-temperature protected motor
Speed steps	2
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Electrical leads	With plug
Motor protection	PTC resistor
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1
Approval	CCC

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Product drawing



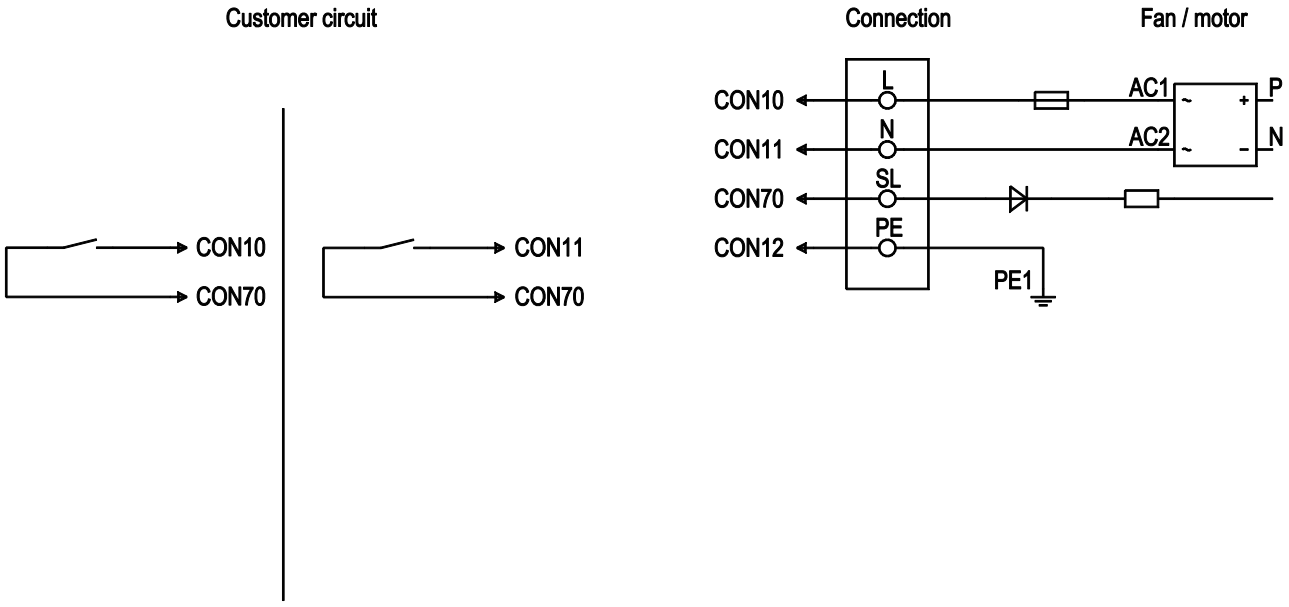
1	Direction of air flow "V"
2	Depth of screw max. 10 mm
3	Connection line PVC 4G 0.5mm², 4x plug pin AMP 163555-8 crimped, with connector housing AMP No. 0-925075-0 and insulating sleeve
3.1	black
3.2	brown
3.3	green/yellow
3.4	blue

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Connection screen



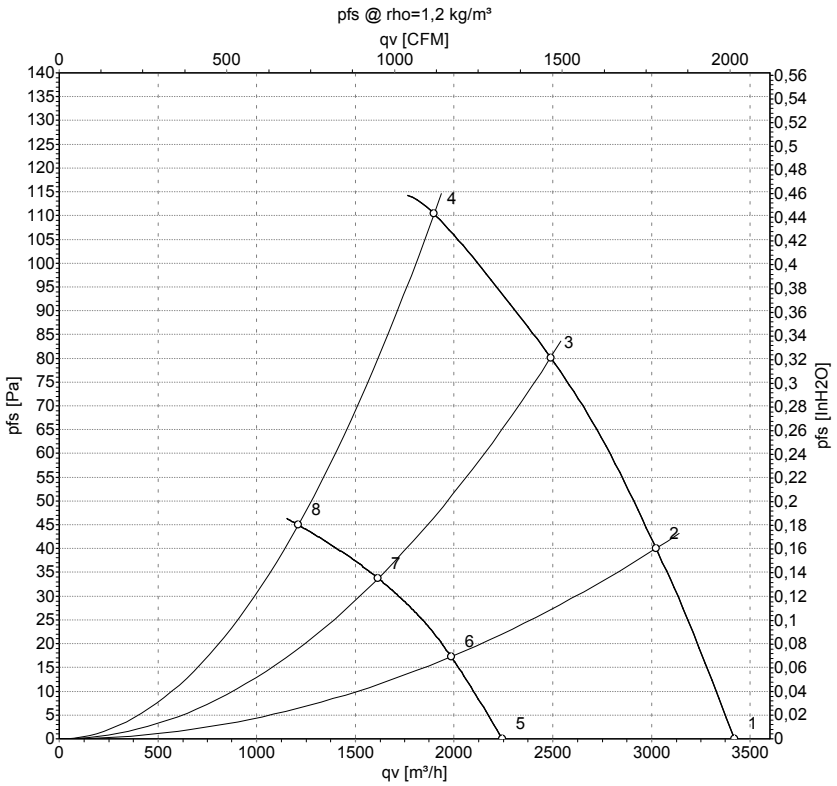
No.	Conn.	Designation	Colour	Function / assignment
	CON 10	L	black	Power supply 230 VAC, 50 - 60 Hz, see type plate for voltage range
	CON 11	N	blue	Neutral conductor
	CON 12	PE	green/yellow	Protective earth
	CON 70	SL	brown	Speed selection: switch open = speed 1; switch closed = speed 2

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Charts: Air flow 50 Hz



Measurement: LU-152027
Measurement: LU-151493

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	1460	110	0.94	3420	0
2	230	50	1455	129	1.09	3025	40
3	230	50	1455	148	1.24	2490	80
4	230	50	1450	160	1.30	1900	110
5	230	50	950	33	0.31	2245	0
6	230	50	950	37	0.35	1985	19
7	230	50	950	42	0.38	1615	34
8	230	50	950	45	0.40	1210	45

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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