W1G130-AA49-01

EC axial compact fan - ESM



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	**W1G130-AA49-01**		
Motor	**M1G055-AI**		
Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50/60	50/60
Type of data definition		ml	ml
Speed (rpm)	min^{-1}	2800	3200
Power input	W	15	24
Current draw	A	0.24	0.38
Max. back pressure	Pa		90
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	60	60

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

EC axial compact fan - ESM

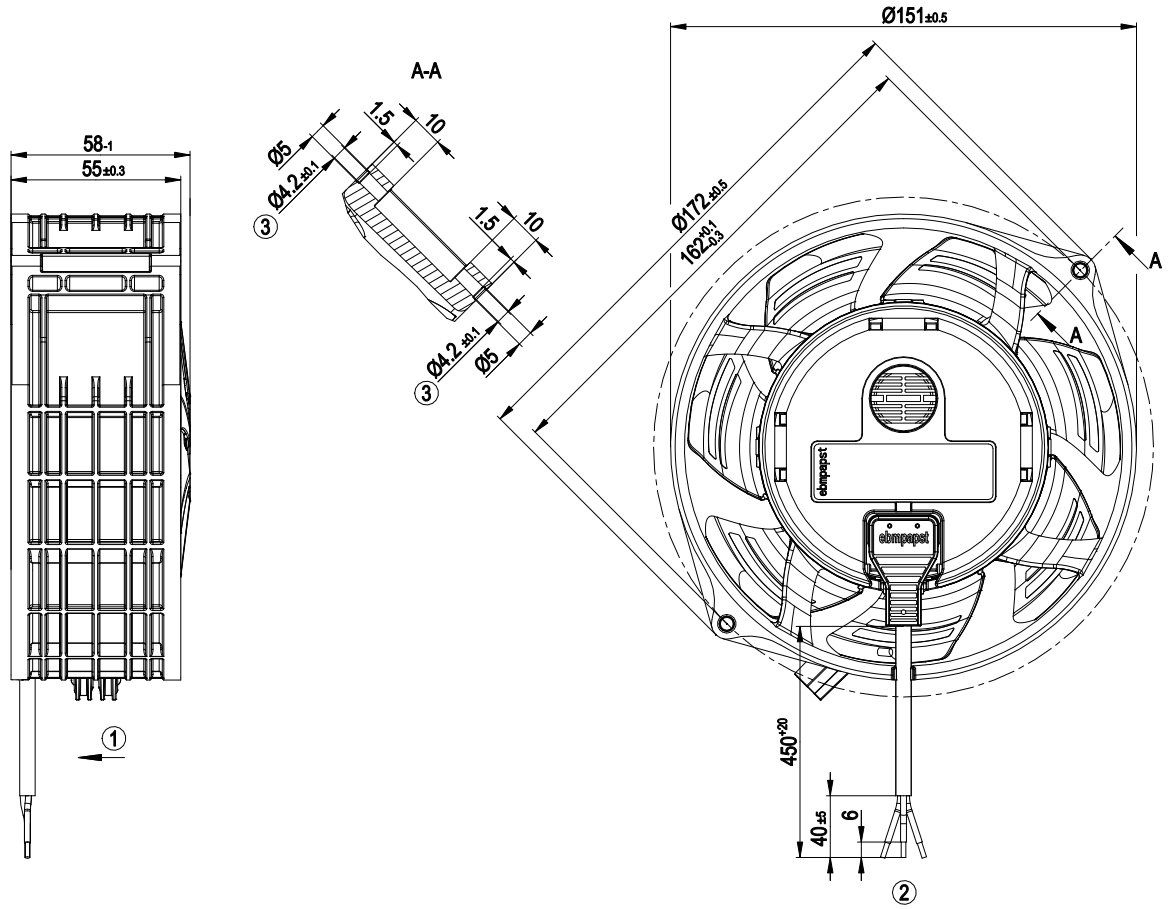
Technical features

Mass	0.76 kg
Size	130 mm
Motor size	55
Material of blades	PA plastic
Material of wall ring	PP plastic
Number of blades	7
Direction of air flow	V
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP55
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	Any
Condensation drainage holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Speed selection max/min - Soft start - Over-temperature protected motor
Speed steps	2
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 0.25 mA
Motor protection	Thermal switch auto reset, internally connected
Cable exit	Lateral
Safety classification	II; This component to be built-in may 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. If there is a PE connection point on the housing, it must not be visible after installation.
Safety class of the permissible refrigerants as per EN378 / ISO5149-1	A3/B3
Max. surface temperature	225 °C
Product conforming to standard	EN 60034-1; EN 60204-1; EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
Standard conformity	UKCA
Note on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 not applicable, as power consumption <125W.
Approval	UL 1004-3 + 60730-1; VDE; EAC; CSA C22.2 no. 77 + CAN/CSA-E60730-1

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

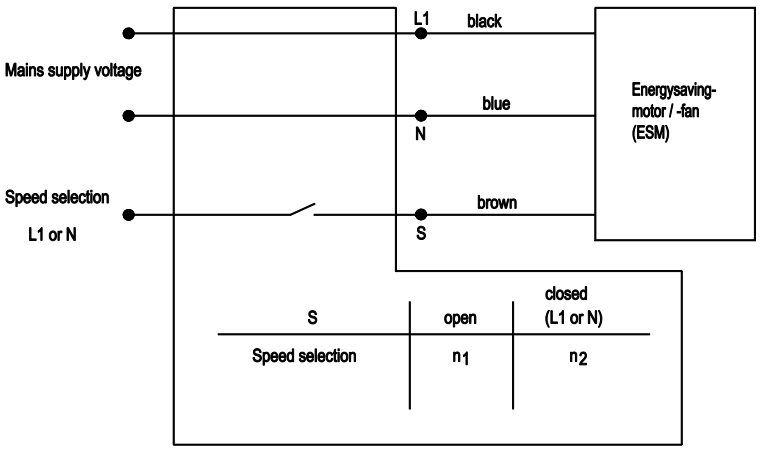
EC axial compact fan - ESM

Product drawing



1	Direction of air flow "V"
2	Connection line AWG20, 3 x brass lead tips crimped
3	Preferably use 2x Remform screws WN-156-2 5.0x16 Torx galvanised (Arnold). Alternatively use 2x metric M4 screw, mounting provided with nut

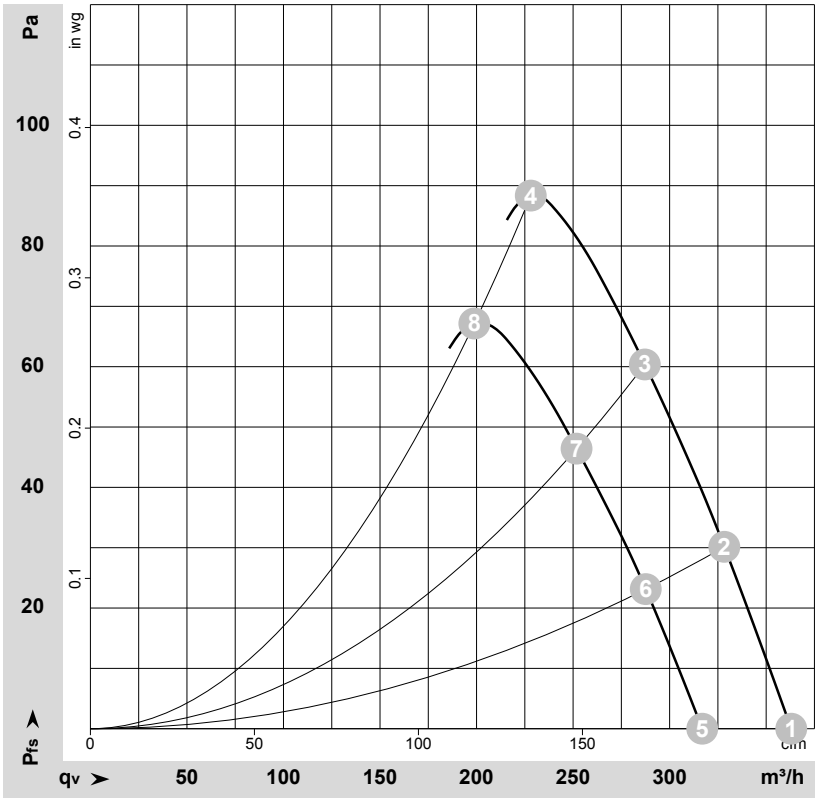
Connection screen



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

EC axial compact fan - ESM

Charts: Air flow 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-152097-1
Measurement: LU-152098-1

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	LpA_{in}	LwA_{in}	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	cfm	in. wg
1	115	60	3200	23	0.35	55	63	365	0	215	0.00
2	115	60	3200	23	0.35	55	63	330	30	195	0.12
3	115	60	3200	24	0.37	54	61	285	60	170	0.24
4	115	60	3200	24	0.38	55	62	230	90	135	0.36
5	115	60	2800	15	0.24	54	61	315	0	185	0.00
6	115	60	2800	16	0.24	54	61	290	24	170	0.10
7	115	60	2800	16	0.25	54	61	250	46	150	0.18
8	115	60	2800	16	0.24	54	61	200	70	115	0.28

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · q_V = Air flow
p_{fs} = Pressure increase

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