

W1G230-EB89-17

EC axial fan - ESM

sickled blades (S series), single inlet
ESM wall ring



W1G230-EB89-17 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	W1G230-EB89-17		
Motor	M1G055-BD		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Type of data definition			ml
Speed (rpm)	min ⁻¹	1000	1500
Power input	W		26
Current draw	A		0.2
Max. back pressure	Pa		36
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	50	50

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



EC axial fan - ESM

sickled blades (S series), single inlet

ESM wall ring

Technical features

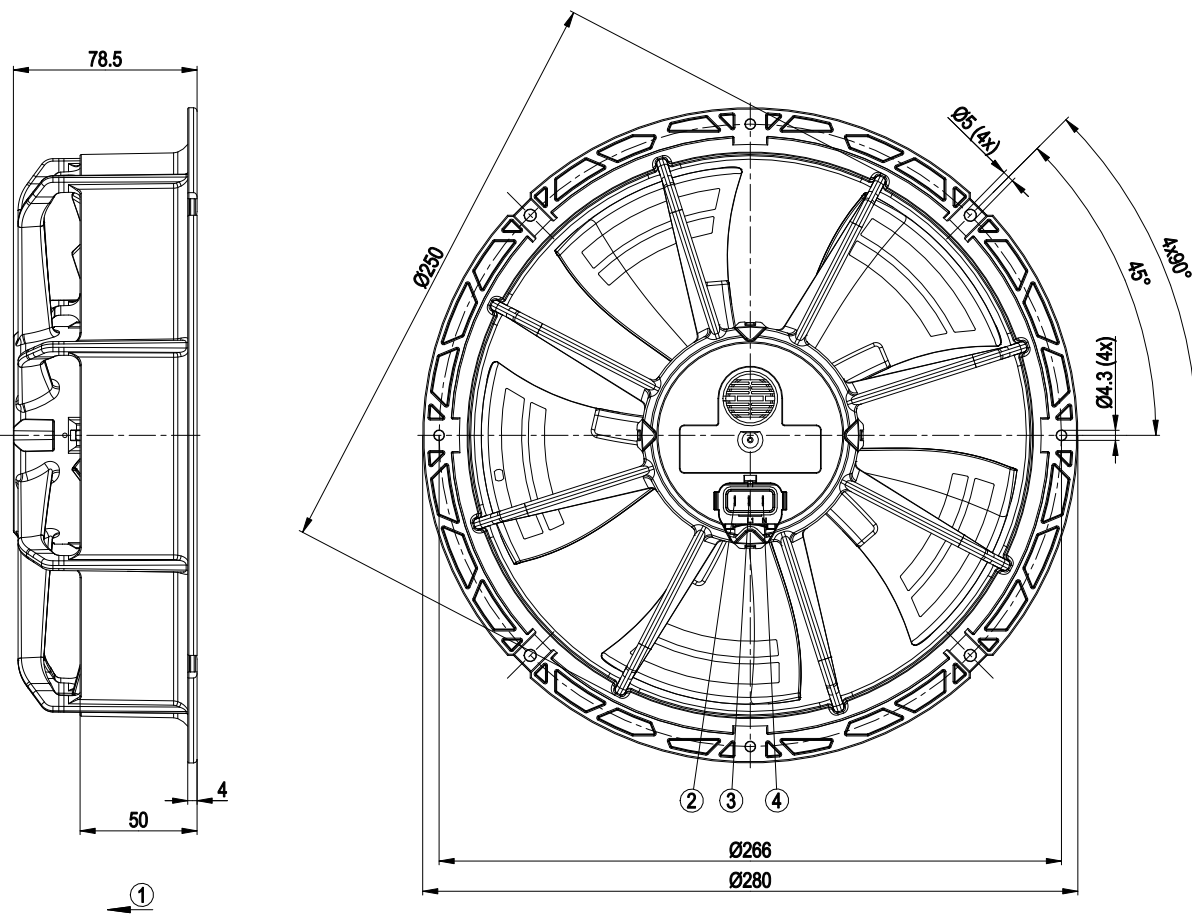
Mass	0.9 kg
Size	230 mm
Material of impeller	PA plastic
Material of wall ring	PP plastic
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54; Only with suitable connector, which has to be fitted by the customer
Insulation class	"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
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Speed adjustment input (230 V) - ESM+ extensible with plug-in module - Soft start - Over-temperature protected motor
Speed steps	2
Motor protection	Thermal overload protector (TOP) wired internally
Protection class	II
Product conforming to standard	EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
Approval	UL 1004-3; CSA C22.2 No.77; VDE



EC axial fan - ESM

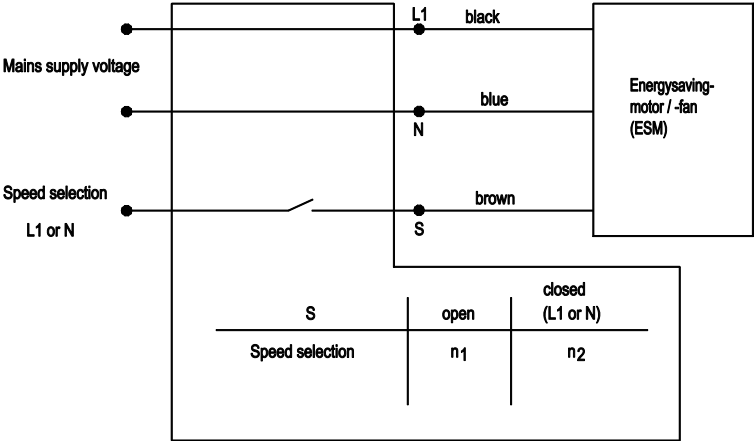
sickled blades (S series), single inlet
ESM wall ring

Product drawing



1	Direction of air flow "V"
2	PIN S, speed selection (flat connector 2.8 x 0.5)
3	PIN L1, phase (flat connector 2.8 x 0.5)
4	PIN N, neutral conductor (flat connector 2.8 x 0.5)

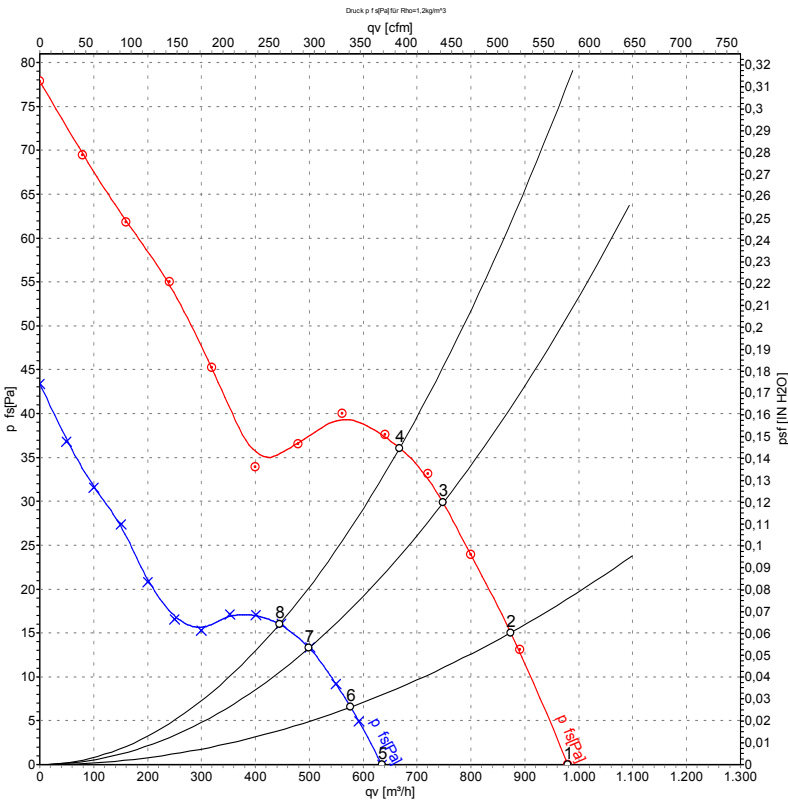
Connection screen



EC axial fan - ESM

sickled blades (S series), single inlet
ESM wall ring

Charts: Air flow 50 Hz



Measurement: LU-112479-1
Measurement: LU-112480-1

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: L_{wA} measured as per ISO 13347 /
L_{pA} 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)	m³/h	Pa	cfm	inH ₂ O
1	230	50	1500	24	0.19	51	58	980	0	575	0.00
2	230	50	1500	25	0.19	51	58	875	15	515	0.06
3	230	50	1500	25	0.19	50	58	750	30	440	0.12
4	230	50	1500	26	0.20	49	57	670	36	395	0.14
5	230	50	1000	10	0.09	39	48	635	0	375	0.00
6	230	50	1000	10	0.09	39	48	575	7	340	0.03
7	230	50	1000	11	0.10	40	48	500	14	295	0.06
8	230	50	1000	11	0.10	40	48	445	16	260	0.06

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

