

KARTA KATALOGOWA

G3G146-ED23-06

Dmuchawa promieniowa EC, łopatki zakrzywione do przodu, jednostronnie ssąca, w obudowie

Producent: ebm-papst

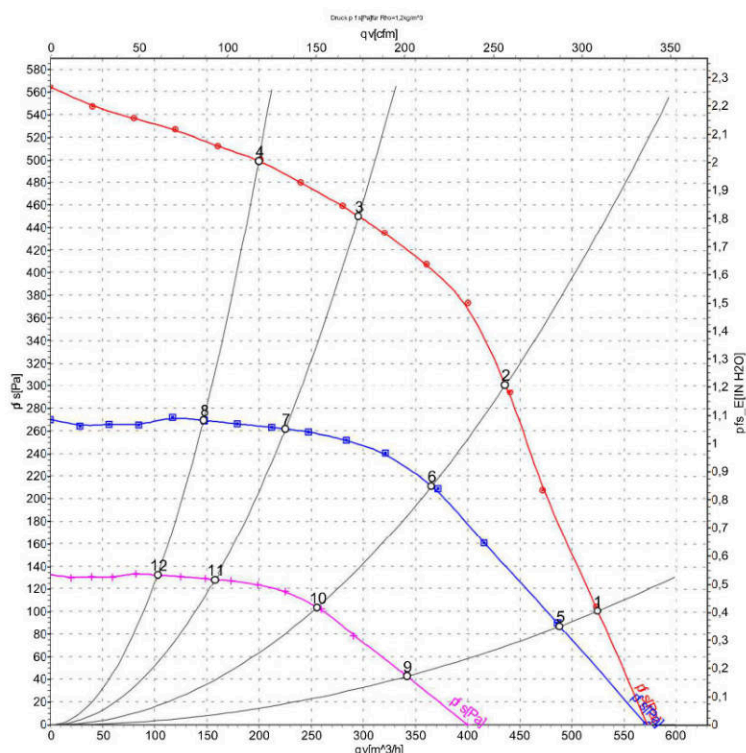


Zdjęcie poglądowe

Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V	Wielkość	146 mm
Częstotliwość	50/60 Hz	Materiał wirnika	stal ocynkowana
Prędkość obrotowa	2150 obr/min	Stopień ochrony	IP44
Pobór mocy	119 W	Klasa izolacji	B
Pobór prądu	0,9 A	Zabezpieczenie silnika	termik (TOP)
Maks. wydajność	525 m³/h	Masa	2,4 kg
Maks. ciśnienie statyczne	560 Pa		
Temperatura otoczenia	-25...+30 °C		

Charakterystyka przepływowa (50 Hz)

Charts: Air flow 50 Hz



Measurement: LU-70983

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.

Dobór, wycena i dostawa – zapytaj LUFTBERG

tel. +48 600 100 371 · tel. +48 604 959 199
biuro@luftberg.pl · www.luftberg.pl

G3G146-ED23-06

EC centrifugal fan

forward curved, single inlet

with housing (flange)

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	G3G146-ED23-06	
Motor	M3G055-CF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	2150
Power input	W	119
Current draw	A	0.9
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	30

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



G3G146-ED23-06

EC centrifugal fan

forward curved, single inlet
with housing (flange)

Technical features

Mass	2.4 kg
Size	146 mm
Surface of rotor	Thick layer passivated
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, hot-dip galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
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	Any
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Control input 0-10 VDC / PWM - Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start
EMC interference immunity	Acc. to EN 61000-6-2
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)

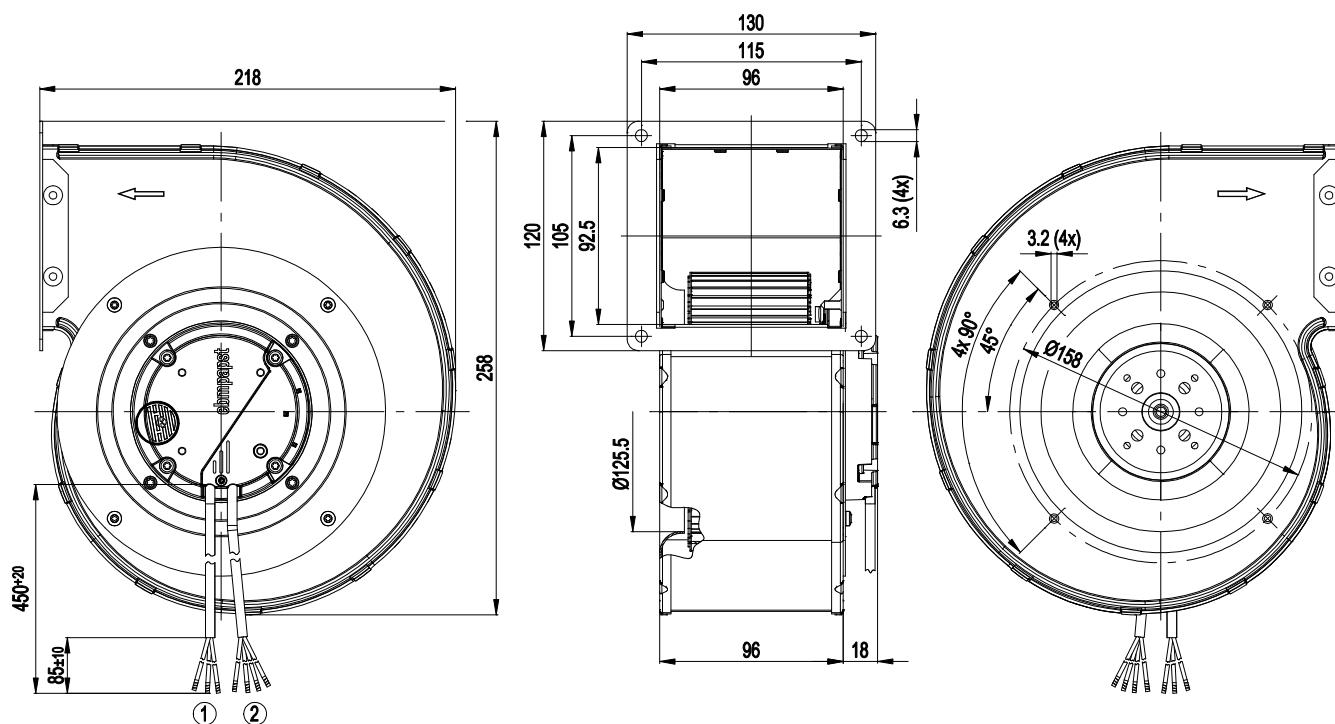


G3G146-ED23-06

EC centrifugal fan

forward curved, single inlet
with housing (flange)

Product drawing



- | | |
|---|--|
| 1 | Connection line H03VV-F3G 0.5; 3 x brass lead tips crimped |
| 2 | Connection line A03VV-F4x0.25; 4 x brass lead tips crimped |

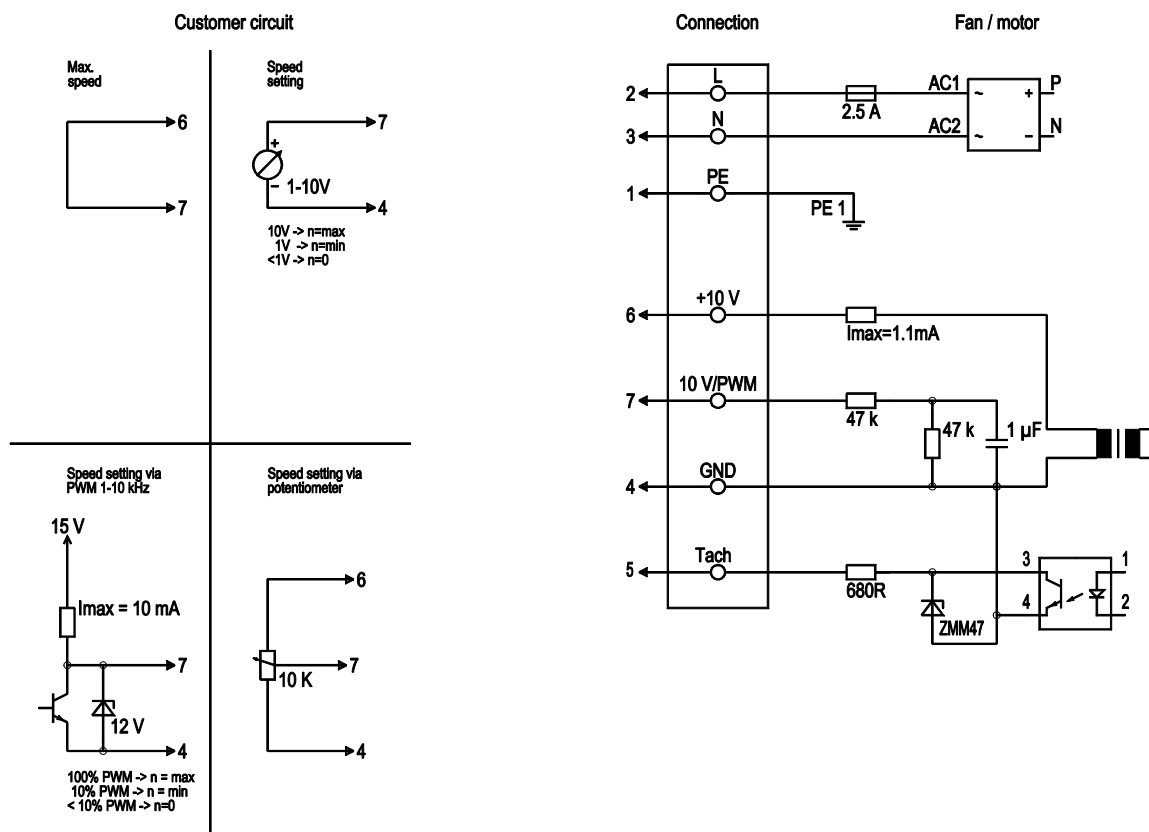
G3G146-ED23-06

EC centrifugal fan

forward curved, single inlet

with housing (flange)

Connection screen

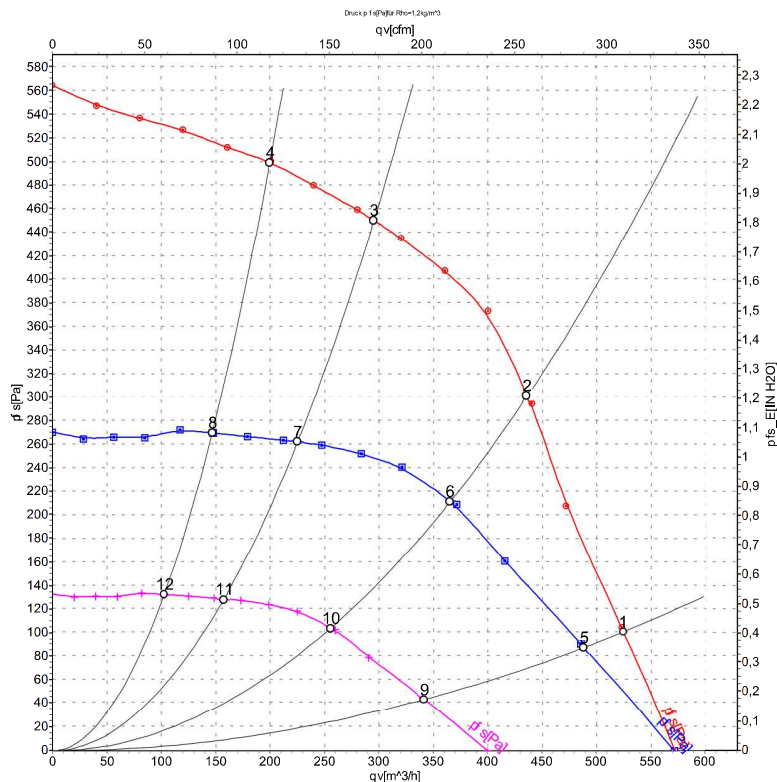


Line	No.	Signal	Colour	Function / assignment
	2	L	brown	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	7	0-10 V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	5	Tach	white	Tach output: Open Collector, 1 pulse per revolution, electrically isolated
	6	10V / max. 1.1 mA	red	Voltage output 10V / 1.1mA, electrically isolated, not short-circuit-proof
	4	GND	blue	GND - Connection for control interface

G3G146-ED23-06

EC centrifugal fan

forward curved, single inlet
with housing (flange)

Charts: Air flow 50 Hz


Measurement: LU-70983

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	m³/h	Pa
1	230	50	2150	119	0.90	525	100
2	230	50	2385	118	0.87	435	300
3	230	50	2625	95	0.71	295	450
4	230	50	2725	78	0.58	200	500
5	230	50	2000	96	0.71	490	87
6	230	50	2000	69	0.51	365	212
7	230	50	2000	42	0.31	225	262
8	230	50	2000	31	0.23	145	269
9	230	50	1400	33	0.24	340	43
10	230	50	1400	24	0.18	255	104
11	230	50	1400	14	0.11	160	128
12	230	50	1400	11	0.08	105	132

U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase