

KARTA KATALOGOWA

D1G133-AB39-52

Wentylator promieniowy EC, łopatki zakrzywione do przodu, dwustronnie ssący, z obudową (bez kołnierza)

Producent: ebm-papst



Dane znamionowe

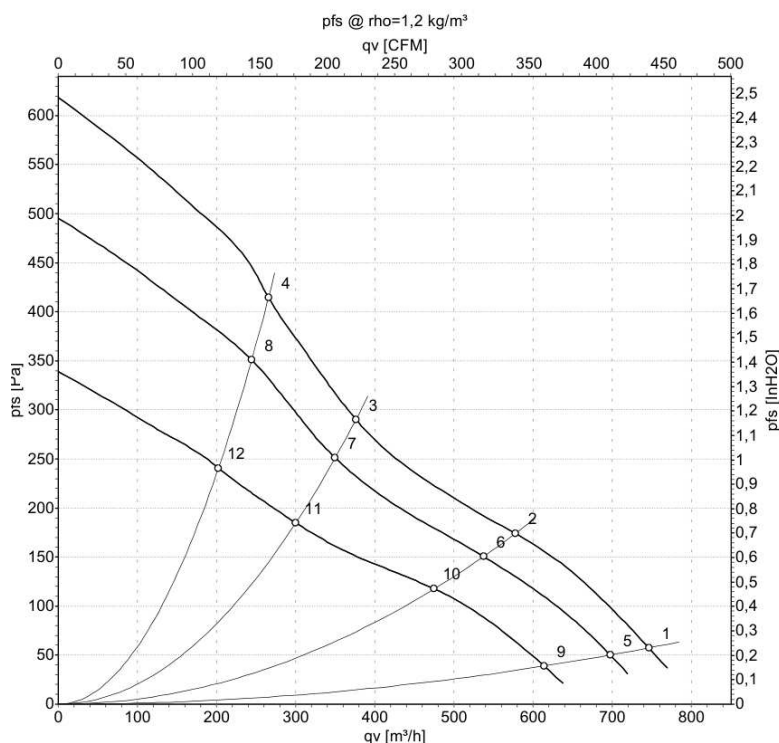
Napięcie znamionowe	48 V DC (36...57 V DC)
Prędkość obrotowa	1780 obr/min
Pobór mocy	105 W
Pobór prądu	2,8 A
Temperatura otoczenia	-25...+60 °C
Regulacja obrotów	0-10 V / PWM

Budowa

Wielkość	133 mm
Silnik	M1G074-BF
Materiał wirnika	blacha stalowa ocynkowana
Obudowa	blacha stalowa ocynkowana
Kierunek obrotów	w prawo, patrząc na wirnik
Stopień ochrony	IP42
Klasa izolacji	B
Łożyskowanie	kulkowe
Masa	2,8 kg

Charakterystyka przepływowa

Curves: Air performance



Measurement: LU-51633-1
Measurement: LU-51632-1
Measurement: LU-51634-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Dane na okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).

Wartości przy swobodnym wydmuchu; producent zastrzega możliwość zmian.

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D1G133-AB39-52

EC centrifugal fan

forward-curved, dual-intake
with housing (without flange)



Nominal data

Type	D1G133-AB39-52	
Motor	M1G074-BF	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Frequency	Hz	-
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	1780
Power consumption	W	105
Current draw	A	2.8
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



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Technical description

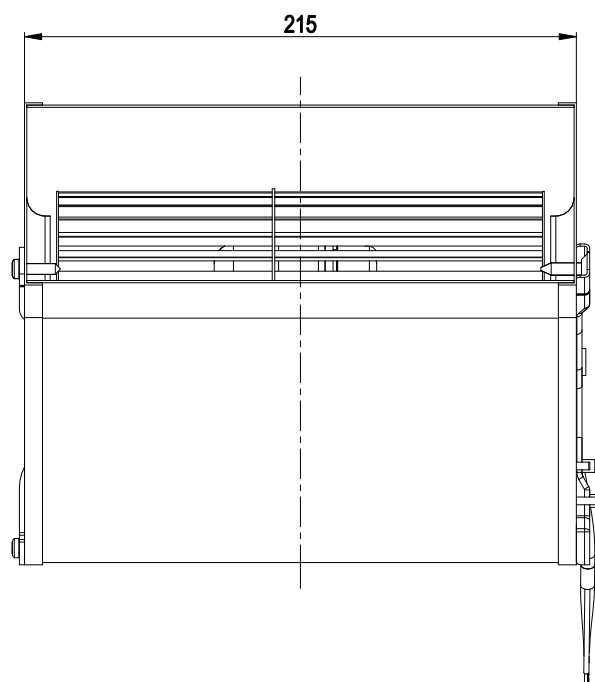
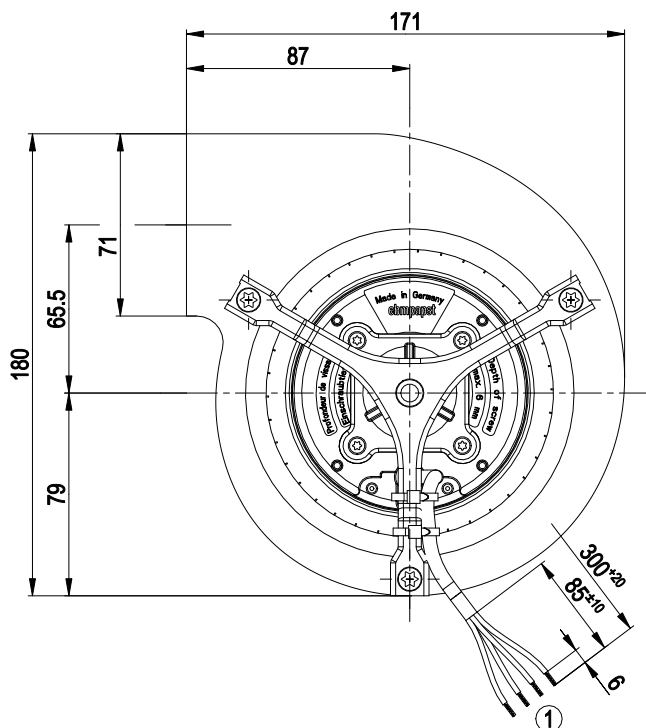
Weight	2.8 kg
Size	133 mm
Motor size	74
Rotor surface	Painted black
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Motor suspension	Motor vibration-damped on both sides
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP42
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Reverse polarity protection
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 55022 (Class B, household environment)
With cable	Variable
Protection class assignment	III; Requires supply with safety extra-low voltage SELV. This component to be built-in can have several local protection classes. This specification relates to the basic design of this component. The final protection class is based on the intended installation and connection of the components.
Conformity with standards	EN 62368-1
Approval	CSA C22.2 No. 77; CCC; EAC; UL 1004-1

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Product drawing



1 Cable PVC AWG20, 4x crimped splices

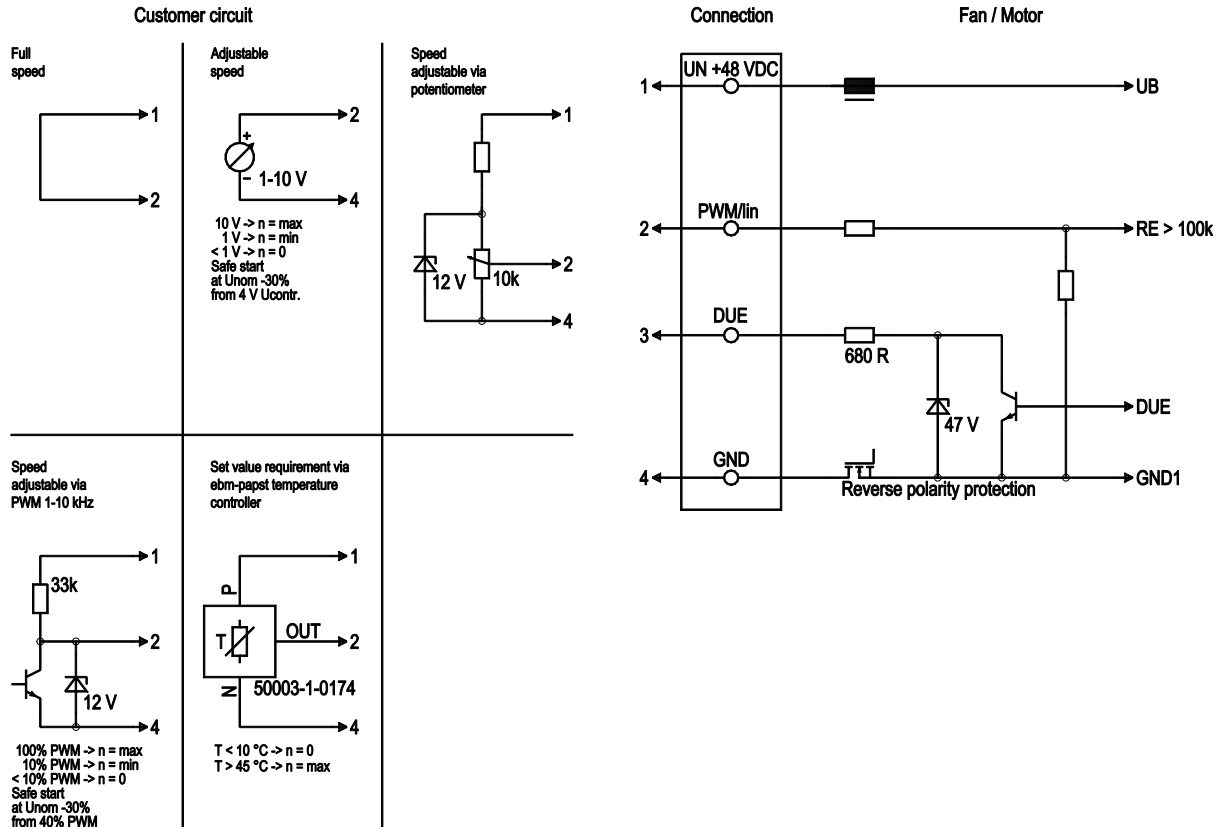
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Connection diagram



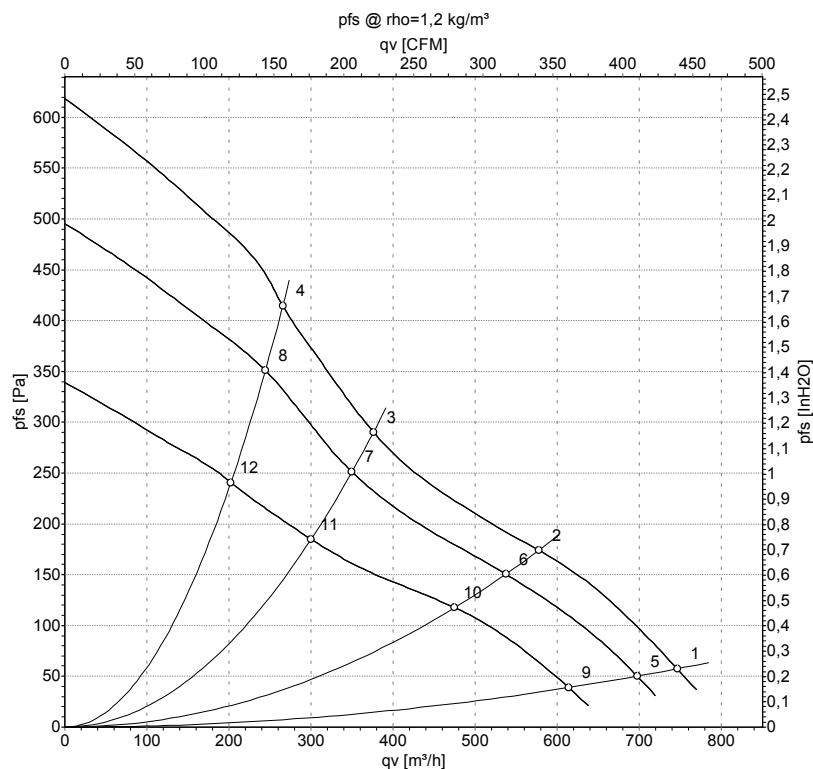
No.	Conn.	Designation	Color	Function/assignment
1	1	Un +48 VDC	red	Power supply 48 VDC, maximum ripple 3.5%
1	2	0-10 VDC	yellow	Control input Re > 100k
1	3	Tach	white	Tach output, 3 pulses per revolution, I _{sink} max = 10 mA
1	4	GND	blue	Reference ground

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Measured values

	U	n	P _{ed}	I	q _V	p _{fs}	q _V	p _{fs}
	V	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	57	1890	130	3.24	745	58	440	0.23
2	57	2230	114	2.64	575	174	340	0.70
3	57	2640	104	2.21	375	290	220	1.16
4	57	3005	98	1.98	265	412	155	1.65
5	48	1780	105	2.80	695	50	410	0.20
6	48	2065	92	2.37	535	150	315	0.60
7	48	2455	85	2.03	350	250	205	1.00
8	48	2775	76	1.77	245	350	145	1.41
9	36	1590	70	2.31	615	40	360	0.16
10	36	1855	64	2.02	475	118	280	0.47
11	36	2120	54	1.67	300	185	175	0.74
12	36	2325	45	1.40	200	241	120	0.97

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

