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[G1G120-AB67-02](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

G1G120-AB67-02

EC centrifugal fan

forward curved, single inlet
with housing (flange)



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

Nominal data

Type	G1G120-AB67-02	
Motor	M1G055-BD	
Nominal voltage	[VDC]	24
Nominal voltage range	[VDC]	16 .. 28
Type of data definition		rfa
Speed	[min ⁻¹]	2200
Power input	[W]	40
Current draw	[A]	1.9
Min. ambient temperature	[°C]	- 25
Max. ambient temperature	[°C]	+60

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

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Technical features

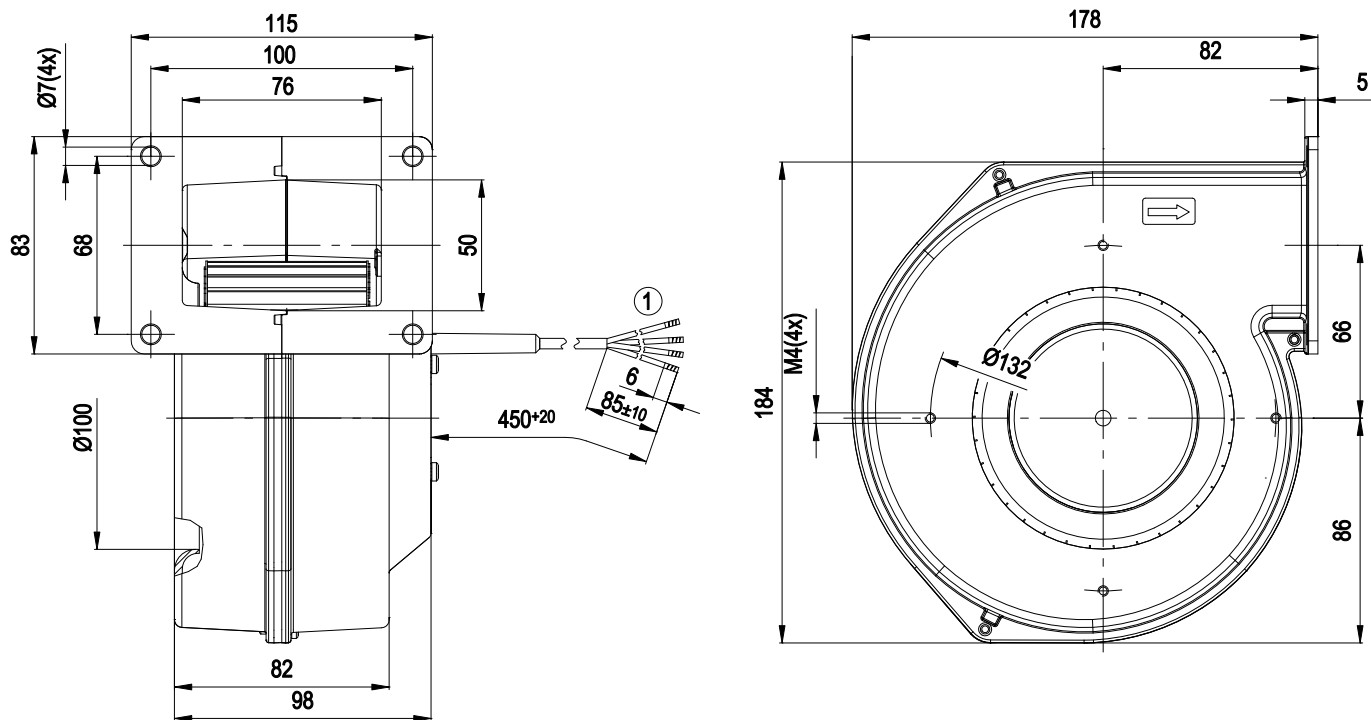
Size	120 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Any
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
Insulation class	"B"
Cable exit	Axial
Condensate discharge holes	None
Bearing motor	Ball bearing
Mass	1.57 kg
Housing material	Die-cast aluminium
Material of impeller	Sheet steel, hot-galvanised
Motor protection	Reverse polarity and locked-rotor protection
Product conforming to standard	EN 60950-1
Surface of rotor	Thick layer passivated
Type of protection	IP 22
Technical features	- Control input 0-10 VDC / PWM - Tach output - Motor current limit - Soft start
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CSA C22.2 Nr.77; UL 1004-1

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Product drawing



1 Connection line AWG20, 4x brass lead tips crimped

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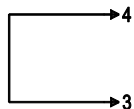
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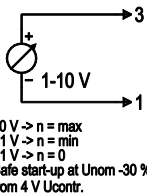
Connection screen

Customer circuit

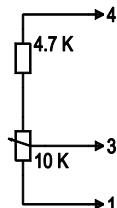
Full speed



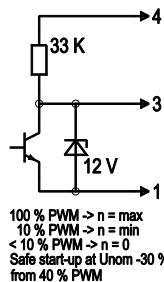
Speed setting



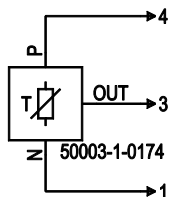
Speed setting with fixed resistance



Speed setting via PWM 1-10 kHz

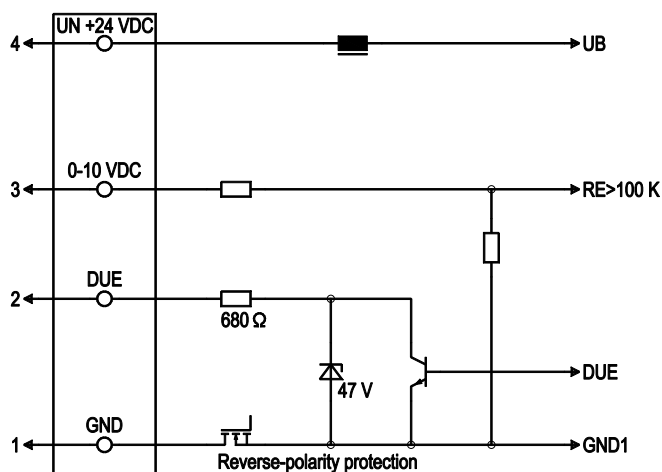


Setting of values via temperature controller



Connection

Fan / motor



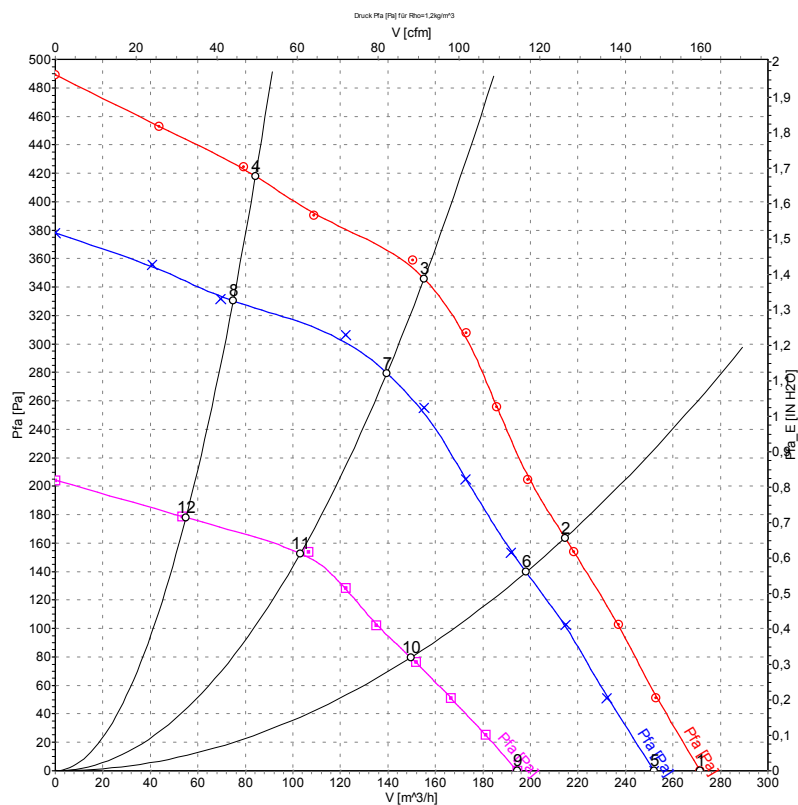
Line	No.	Signal	Colour	Function / assignment
1	1	GND	blue	Reference mass
1	2	DUE	white	Speed monitoring output, 2 pulses per rotation, Isink max = 10 mA
1	3	0-10 VDC	yellow	Control input Re > 100 K
1	4	Un +24 VDC	red	Power supply 24 VDC, residual ripple 3.5 %

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Charts: Air flow



Measurement: LU-48521
Measurement: LU-48520
Measurement: LU-48522

Measured values

	U	n	P ₁	I	$\hat{V}$	p _{fa}
	[V]	[min ⁻¹]	[W]	[A]	[m ³ /h]	[Pa]
1	28	2380	49	2.09	270	0
2	28	2675	45	1.82	215	164
3	28	3025	39	1.54	155	348
4	28	3315	31	1.23	85	418
5	24	2200	40	1.90	250	0
6	24	2480	36	1.64	200	140
7	24	2730	29	1.34	140	280
8	24	2940	24	1.10	75	330
9	16	1750	19	1.32	195	0
10	16	1895	16	1.11	150	80
11	16	2050	13	0.92	105	155
12	16	2215	9.94	0.78	55	178