EC centrifugal fan

G1G097-CC01-05 ebmpapst Datasheet
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Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

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Nominal data

Type	**G1G097-CC01-05**	
Motor	**M1G045-BE**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Type of data definition		fa
Speed	min-1	2700
Power input	W	20
Min. ambient temperature	°C	- 25
Max. ambient temperature	°C	+ 60

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

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Technical features

Mass	0.7 kg
Size	97 mm
Surface of rotor	Thick layer passivated
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 22
Insulation class	"B"
Humidity class	F0
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	- Tach output - Run monitoring - Motor current limit - Soft start - Control input 0-10 VDC / PWM
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Axial
Product conforming to standard	EN 60950-1

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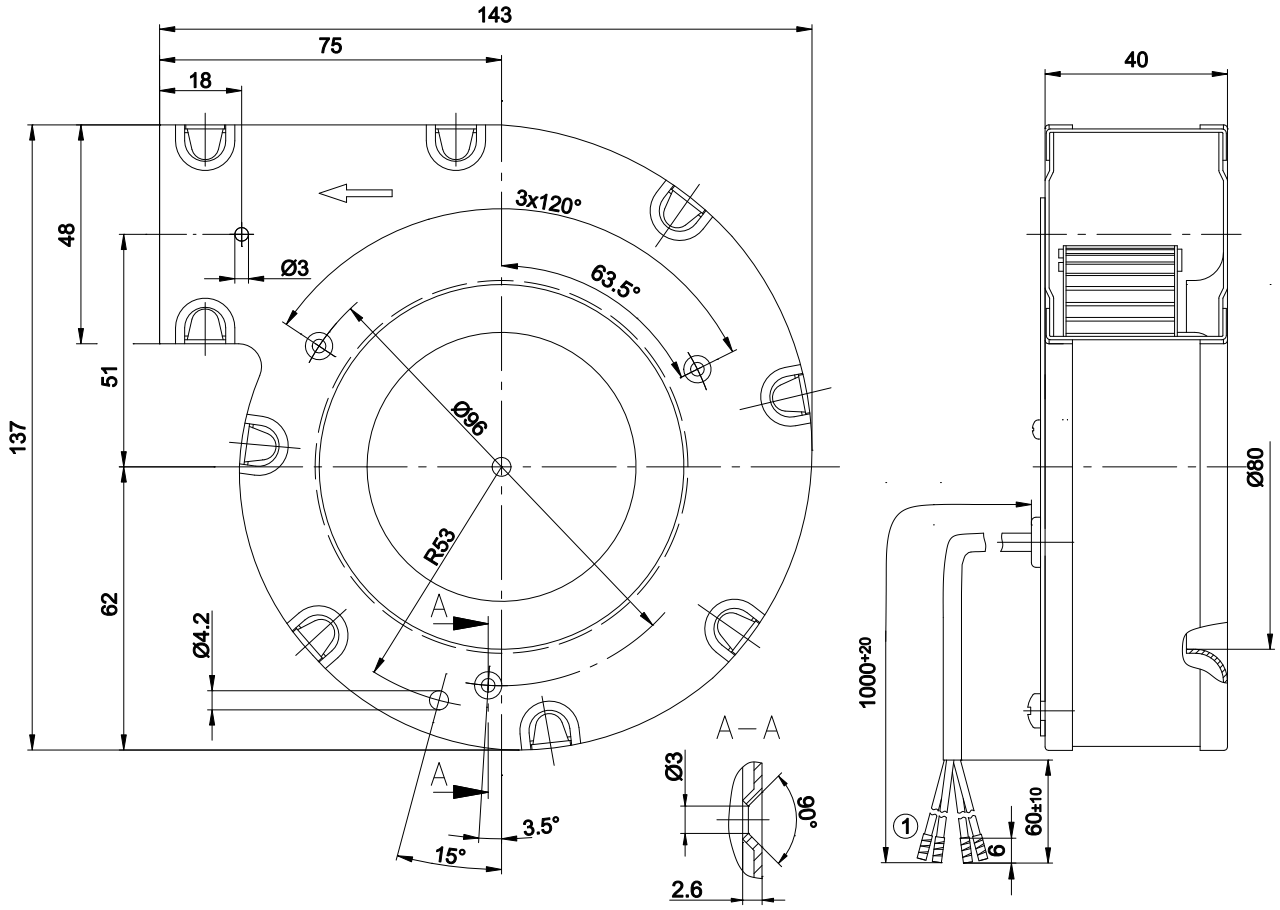
Product drawing



1	Connection line PVC AWG22, 4 x brass lead tips crimped

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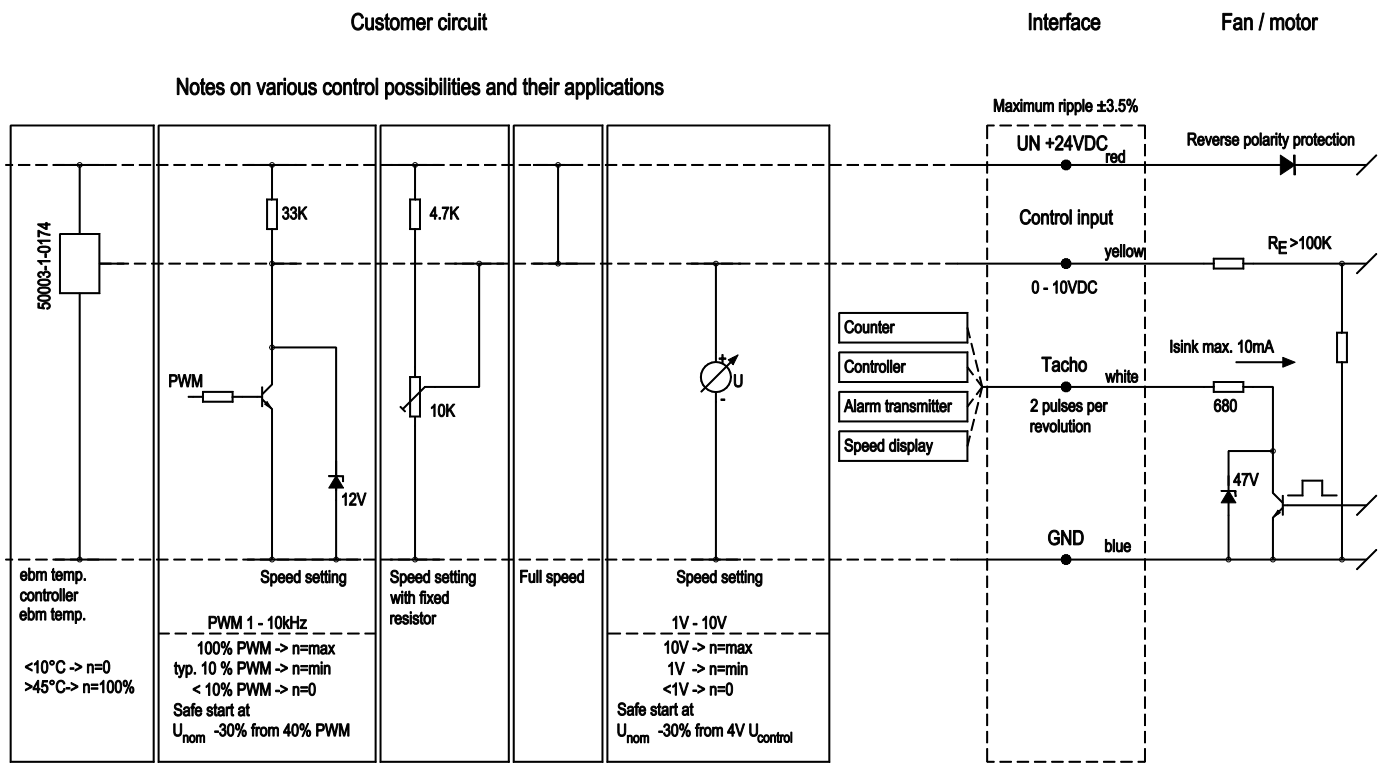
Connection screen



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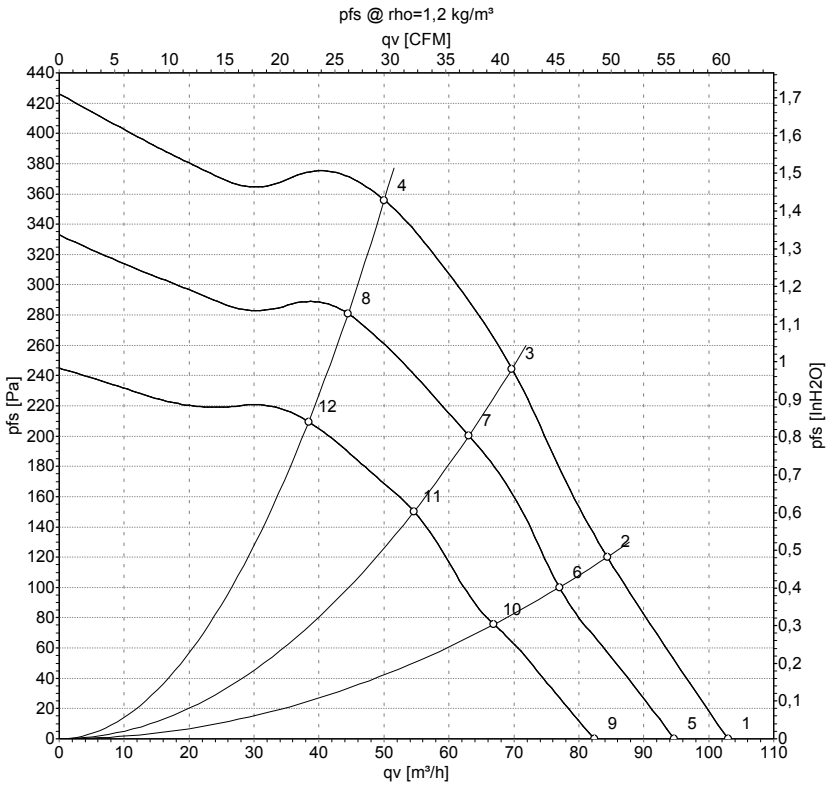
Charts: Air flow



Measurement: LU-125593
Measurement: LU-125591
Measurement: LU-125594

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	n	P_{ed}	I	qv	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa
1	28	2945	27	1.08	105	0
2	28	3190	24	0.98	85	120
3	28	3460	22	0.87	70	249
4	28	3800	19	0.74	50	359
5	24	2700	20	0.94	95	0
6	24	2865	18	0.85	75	100
7	24	3100	16	0.75	65	200
8	24	3380	14	0.63	45	280
9	20	2395	14	0.76	80	0
10	20	2560	13	0.69	65	76
11	20	2735	11	0.61	55	152
12	20	2965	9.0	0.51	40	210

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