#### R1G175-AB63-02

## EC centrifugal fan

backward curved, single inlet

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### **Nominal data**

Туре	R1G175-AB63-02				
Motor	M1G055-BD				
Nominal voltag	[VDC]	24			
Nominal voltag	[VDC]	16 28			
Type of data d		rfa			
Speed		[min <sup>-1</sup> ]	3100		
Power input	[W]	34			
Current draw		[A]	1.6		
Min. ambient to	emperature	[°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**

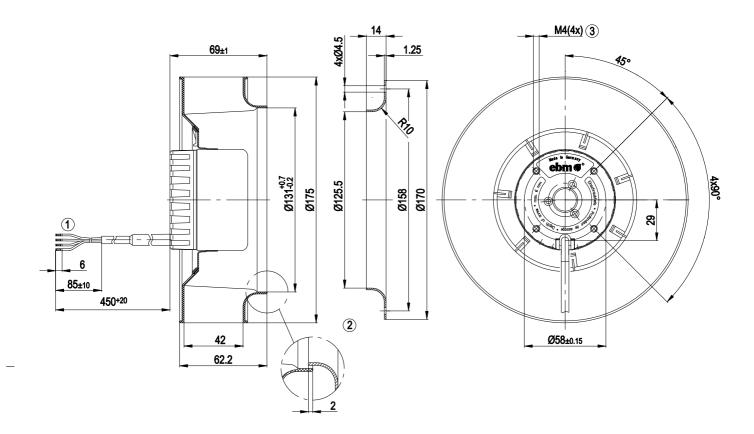
Size	175 mm		
Operation mode	S1		
Direction of rotation	Clockwise, seen on rotor		
Mounting position	Any		
EMC interference emission	Acc. to EN 61000-6-3		
EMC interference immunity	Acc. to EN 61000-6-2		
Insulation class	"B"		
Cable exit	Variable		
Condensate discharge holes	None		
Bearing motor	Ball bearing		
Mass	0.74 kg		
Material of impeller	PA plastic 6.6, fiberglass-reinforced		
Motor protection	Reverse polarity and locked-rotor protection		
Product conforming to standard	EN 60950-1		
Surface of rotor	Thick layer passivated		
Number of blades	7		
Type of protection	IP 22		
Technical features	- Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM		
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**

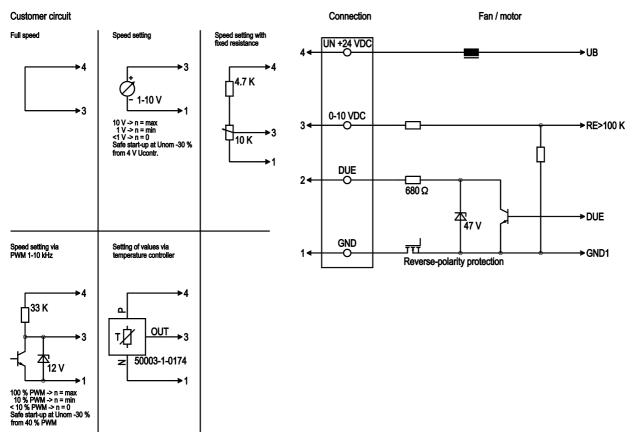


1	Connection line AWG20, 4 x brass lead tips crimped
2	Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery
3	Depth of screw max. 6 mm

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### **Connection screen**



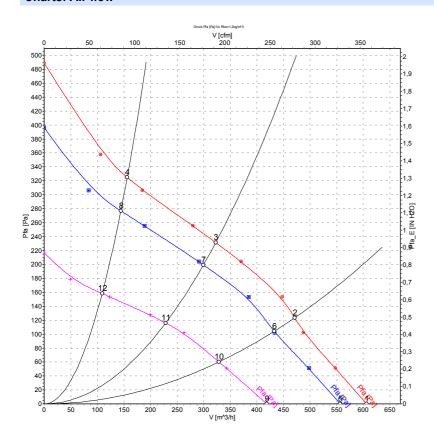
Line	No.	Signal	Colour	Function / assignment
1	1	GND	blue	Reference mass
1	2	DUE	white	Speed monitoring output, 2 pulses per rotation, Isink max = 10 mA
1	3	0-10 VDC	yellow	Control input Re > 100 K
1	4	Un +24 VDC	red	Power supply 24 VDC, residual ripple 3.5 %

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## **Charts: Air flow**



Measurement: LU-44776 Measurement: LU-44775 Measurement: LU-44777

## Measured values

	U	n	P <sub>1</sub>	I	Ů	p <sub>fa</sub>
	[V]	[min <sup>-1</sup> ]	[W]	[A]	[m <sup>3</sup> /h]	[Pa]
1	28	3375	46	1.83	605	0
2	28	3170	48	1.97	470	123
3	28	3105	49	2.01	325	231
4	28	3255	47	1.91	155	325
5	24	3100	34	1.60	555	0
6	24	2915	39	1.79	435	100
7	24	2885	39	1.82	300	200
8	24	3010	37	1.69	145	275
9	16	2320	16	1.10	420	0
10	16	2225	17	1.21	330	60
11	16	2205	18	1.24	230	116
12	16	2270	16	1.15	110	158