R1G175-RC02-11

Centrifugal Fan



ebm-papst Ventilator (Shanghai) Co.Ltd.

Phone: +86(0)21-50460183

www.ebmpapst.com

Nominal Data

Type	R1G175-RC02-11

Nominal voltage	[VDC]	48
Nominal voltage range	[VDC]	36~72
Frequency	[Hz]	-
Type of data definition		rfa
Speed	[min-1]	3100
Power input	[W]	39
Current Draw	[A]	0.8
Max. Back Pressure	[Pa]	345
Max. air Volume	[CFM]	310
Min. ambient temperature	[℃]	-25
Max. ambient temperature	[℃]	70

rfa: Running at free air

Centrifugal Fan

Technical Features

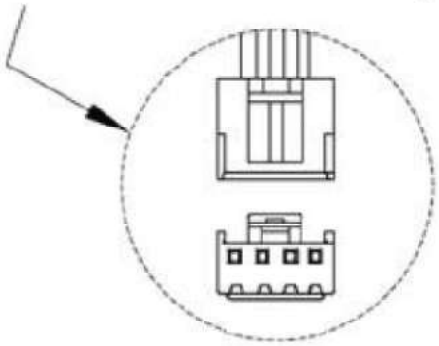
Size	175*175*69
Operation Mode	Continuous operation
Direction of Rotation	Clockwise (see the rotor side)
Mounting Position	Any
EMC Interference Emision	EM55022 Class B
EMC Interference Immunity	EM55022 Class B
Working Humidity	5~95%
Direction of air flow	Centrifugal
Insulation Class	'B'
Cable Exit	Pin same as TE 1123721-1, Housing AMP 1-1123722-4
Condensate Discharge Holes	None
Bearing Type	Ball Bearing
Rotor Weight	0.775Kg
Material of Impeller	Plastic PA66, fiberglass-reinforced
Cable Length and Height	L:600+15mm H:<3mm
Motor Protection	Reverse polarity and locked-rotor protection
Product Confirming to Standard	EN 60950-1
Surface of Rotor	Cataphoric
Number of Blades	7
IP class	IP44
Technical Features	-PWM -Tach output
Max. Motor temp.(transp./storage)	+80℃
Min. Motor temp.(transp./storage)	-40℃
Approval	
Start Voltage	36V
L10 at 40℃	70000h
Protection for Rotor Blocked	OK
Protection for Over Current	OK
Soft Starting	OK
Restart Automatically	OK
Leakage Current	600VAC 1sec<5mA
Amounting hole	Φ58, M4*7.5mm

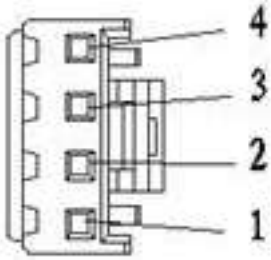
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Centrifugal Fan

Drawing provide lately

Pin same as TE 1123721-1, Housing AMP 1-1123722-4\



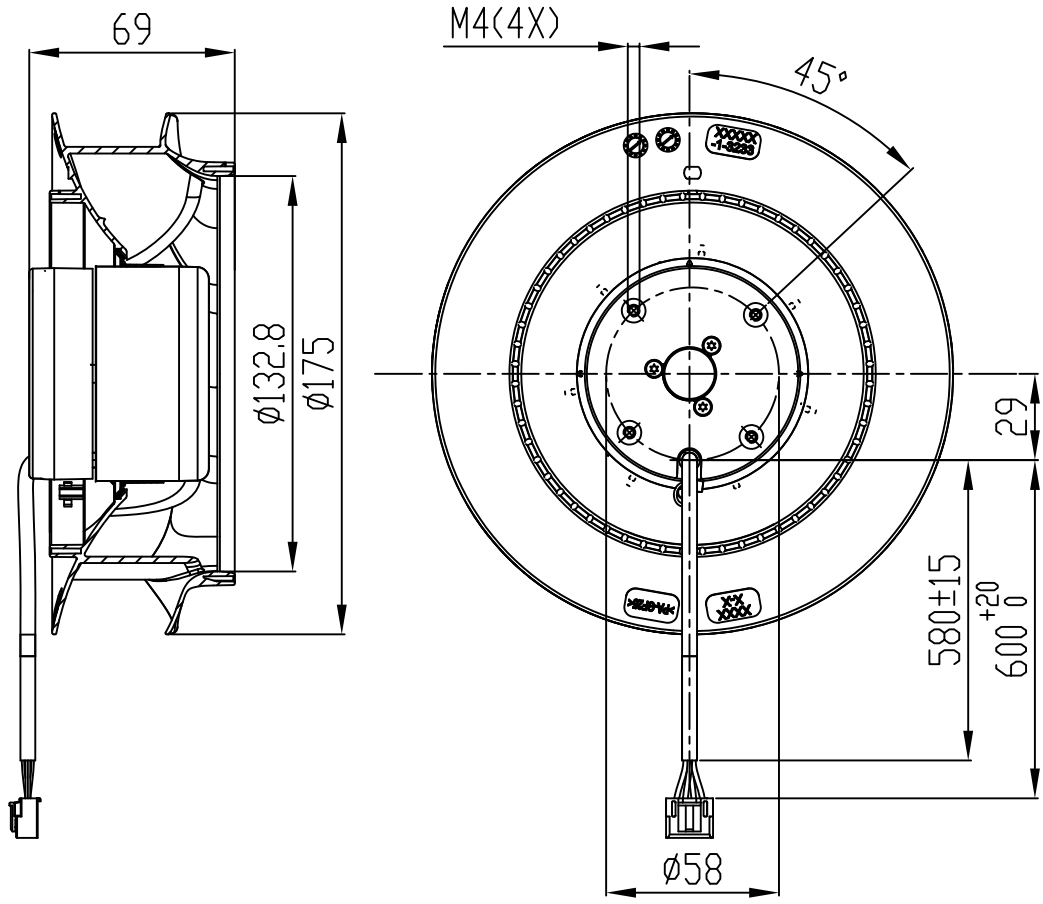


4 Red: +

3 Blue: PWM

2 White: tach output

1 Black: -



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PWM VS Speed

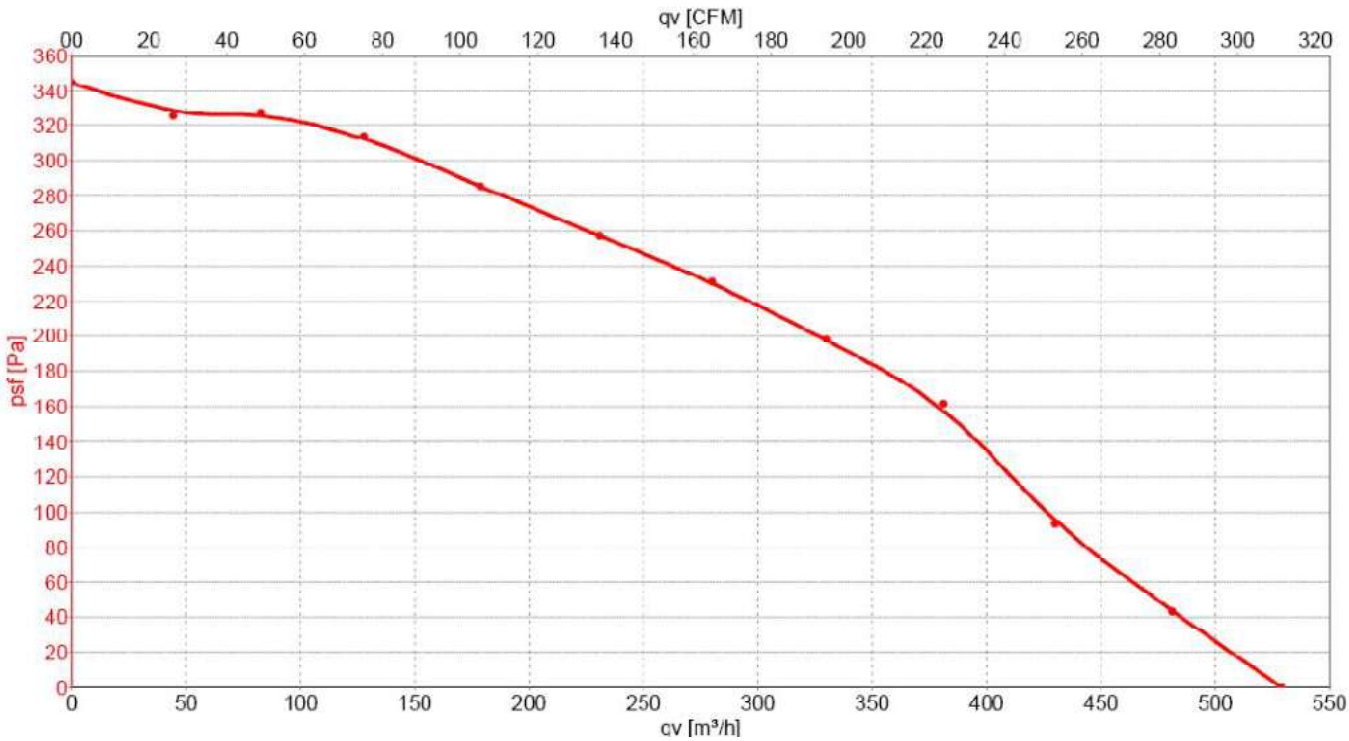
PWM 5V@100Hz	Speed Req	36V	48V	53.5V	72V
		Speed/Rpm	Speed/Rpm	Speed/Rpm	Speed/Rpm
0%	0	0	0	0	0
<10%	0	0	0	0	0
10%	500±250	567	553	573	634
20%	500±250	567	553	573	634
25%	660±250	669	658	656	634
35%	990±250	992	973	1002	996
50%	1475±250	1511	1521	1491	1494
65%	1960±250	2062	2013	2000	2025
75%	2290±10%	2364	2348	2368	2325
90%	2775±10%	2524	2784	2826	2776
100%	3100±10%	2524	3100	3115	3103

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Air performance

IDNO	Type	U [V]	f [Hz]	C [uF]	Uc [V]	PWM [%]	Layout	Inst. cat.	Line	Remark
1430	R1G175RAAXXX-33A	48			10			A		



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