R1G190-AC75-15

EC centrifugal fan

backward curved, single inlet



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Nominal data

Type	**R1G190-AC75-15**	
Motor	**M1G074-BF**	
Nominal voltage	VDC	12
Nominal voltage range	VDC	8 .. 16
Type of data definition		fa
Speed	min^{-1}	3050
Power input	W	60
Current draw	A	5.2
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

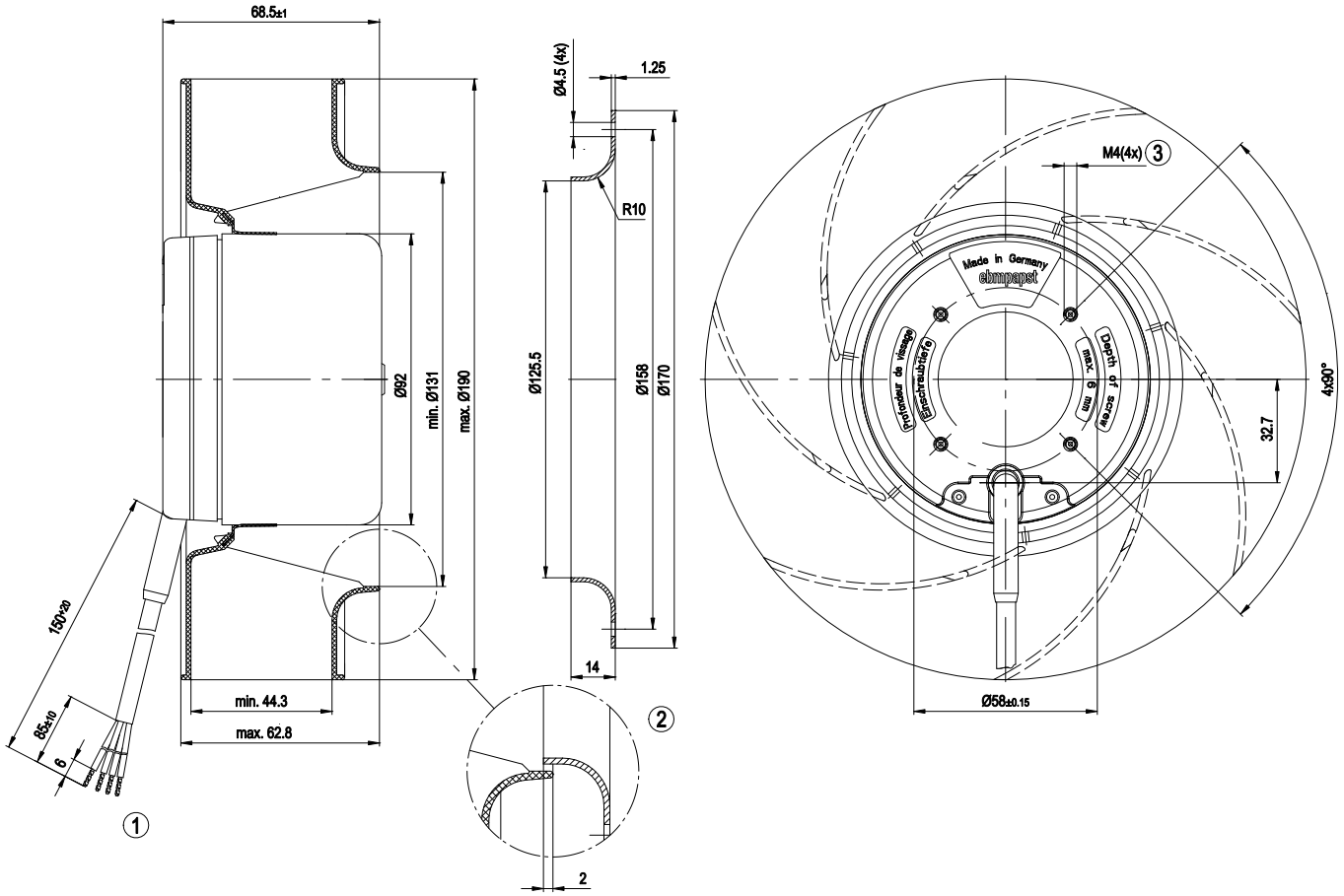
Mass	1.5 kg
Size	190 mm
Surface of rotor	Coated in black
Material of impeller	PA plastic 6.6, fibreglass-reinforced, round sheet-metal plate coated in black
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"B"
Humidity class	F4-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Variable
Product conforming to standard	EN 60950-1
Approval	UL 1004-1; CSA C22.2 Nr.77

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Product drawing



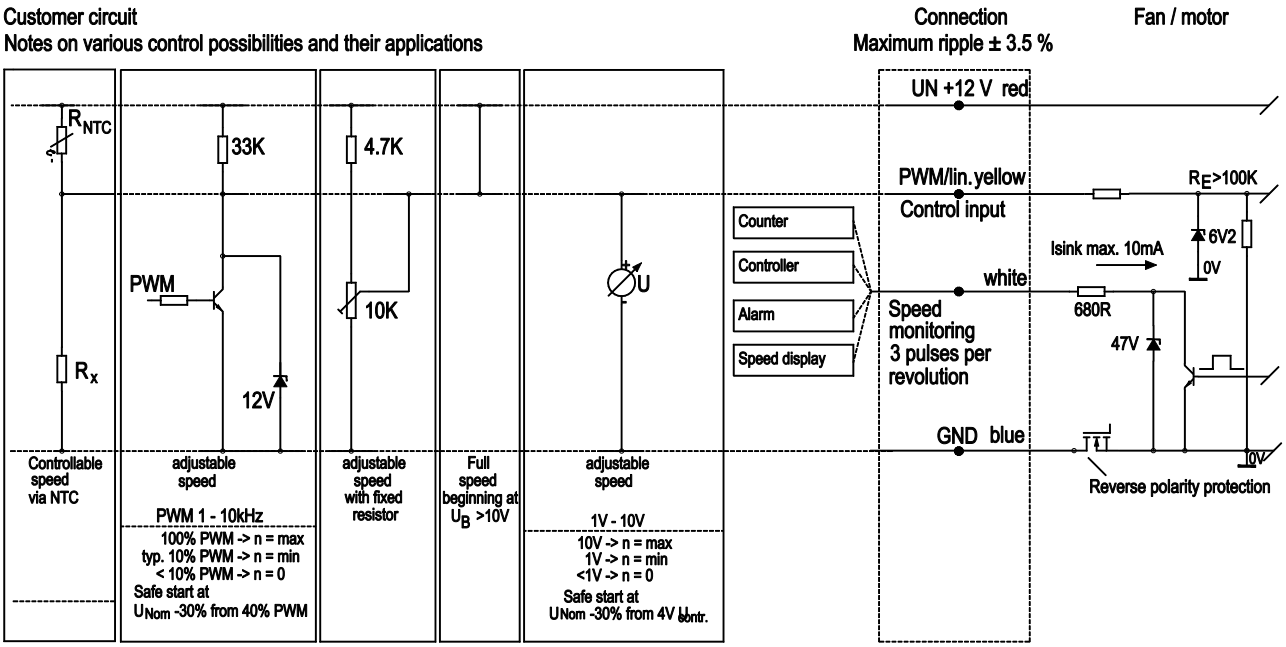
1	Connection line PVC AWG18, 4x brass lead tips crimped
2	Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery
3	Depth of screw max. 6 mm

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Connection screen

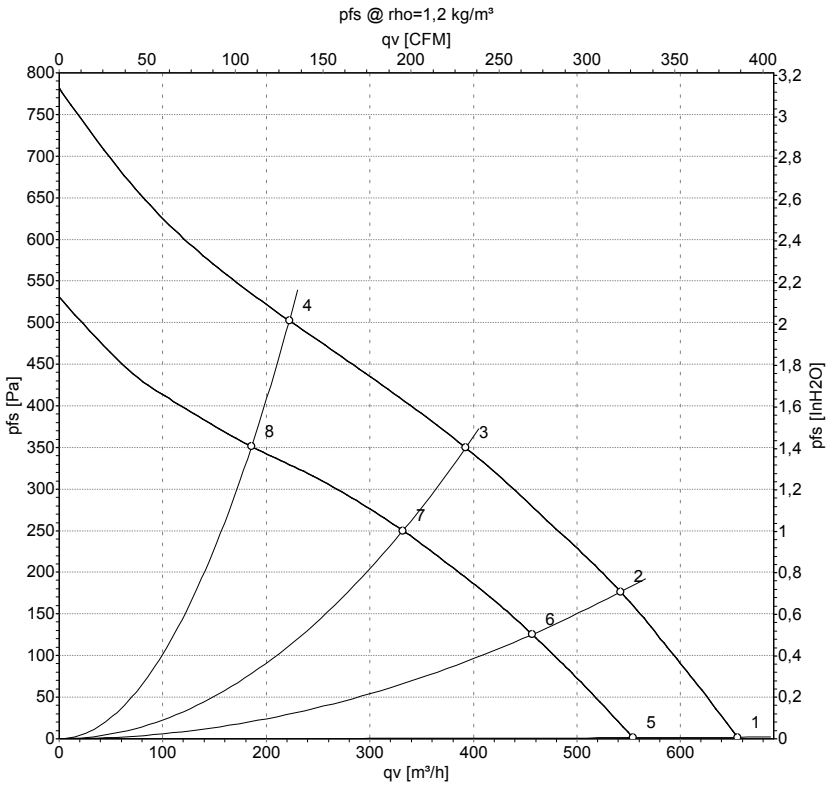


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Charts: Air flow



Measurement: LU-72975
Measurement: LU-72973

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	16	3645	99	6.55	655	0
2	16	3580	101	6.69	540	177
3	16	3550	102	6.77	395	350
4	16	3680	98	6.47	220	502
5	12	3050	60	5.20	555	0
6	12	3015	61	5.43	455	125
7	12	3005	62	5.48	330	250
8	12	3075	58	5.09	185	350

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

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