

R2D190-AC08-10

AC centrifugal fan

backward curved

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Nominal data

Type	R2D190-AC08-10		
Motor	M2D068-BF		
Phase		3~	3~
Nominal voltage	VAC	415	415
Connection		Y	Y
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed	min ⁻¹	2500	2700
Power input	W	43	53
Current draw	A	0.09	0.09
Min. back pressure	Pa	0	0
Max. ambient temperature	°C	55	55

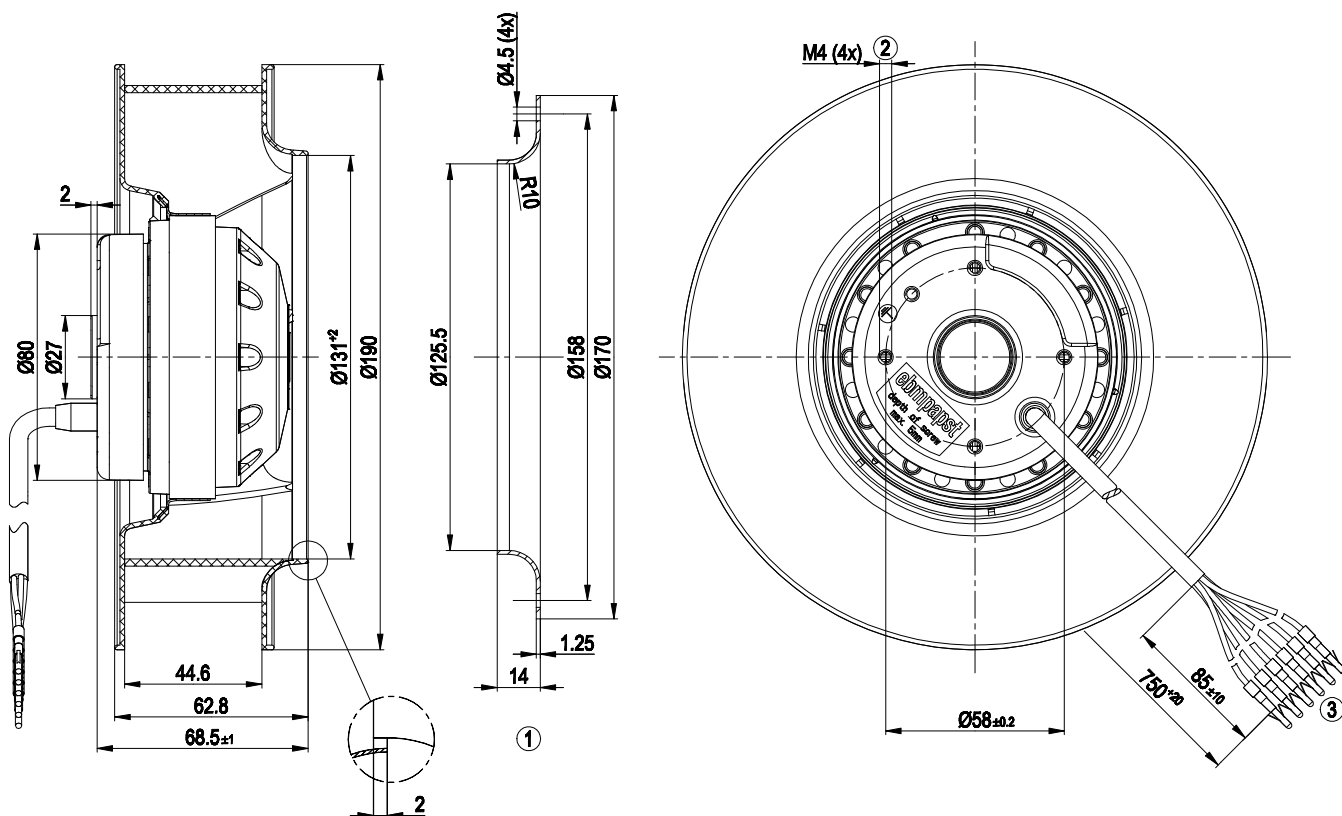
ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations



Technical features

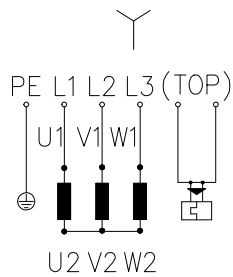
Mass	1.2 kg
Size	190 mm
Surface of rotor	Coated in black
Material of impeller	Plastic PA6, fibreglass-reinforced
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"B"
Humidity class	F2-2
Max. permissible ambient motor temp. (transp./ storage)	+ 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
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CCC

Product drawing



- | | |
|---|---|
| 1 | Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery |
| 2 | Depth of screw max. 5 mm |
| 3 | Connection line Dipotherm, 6x plug pin AMP 926885-1 crimped |

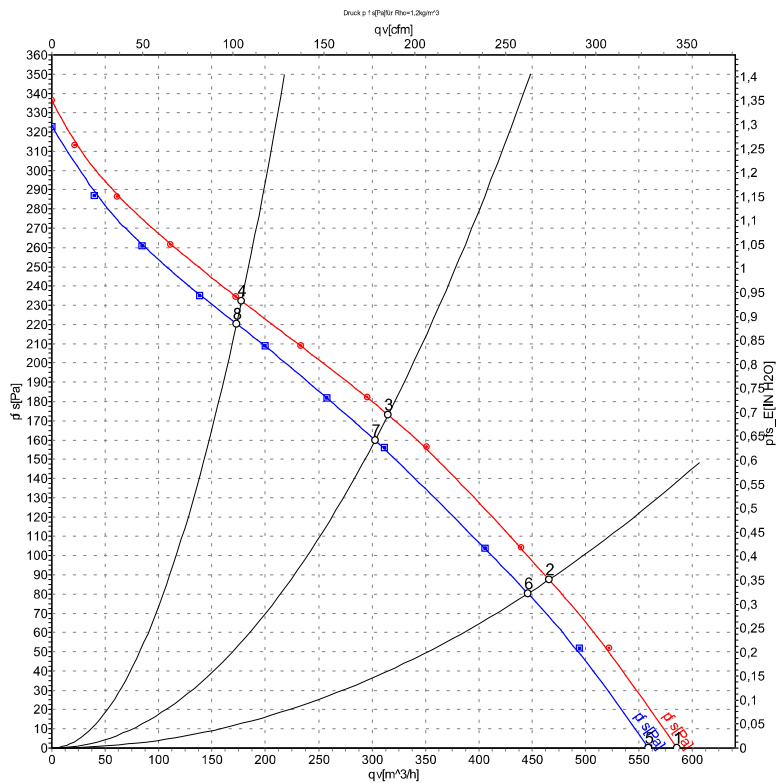
Connection screen



Y	Star connection	L1	black	L2	blue
L3	brown	U1	black	V1	blue
W1	brown	U2	green	V2	white
W2	yellow	TOP	grey		



Charts: Air flow 50 Hz



Measurement: LU-50948
Measurement: LU-50798

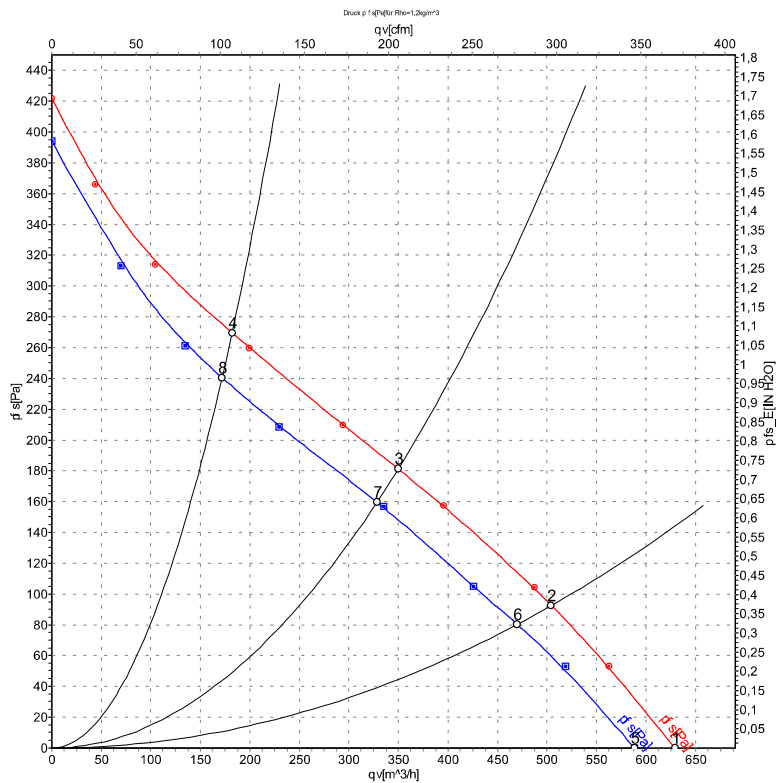
Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions 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	f	n	P _e	I	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	440	50	2550	51	0.11	585	0
2	440	50	2455	55	0.11	465	88
3	440	50	2400	58	0.11	315	173
4	440	50	2460	54	0.10	180	232
5	400	50	2450	43	0.09	560	0
6	400	50	2375	47	0.09	445	80
7	400	50	2310	50	0.09	305	160
8	400	50	2385	46	0.09	175	220

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

Charts: Air flow 60 Hz



Measurement: LU-50949
Measurement: LU-50800

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: L_{wA} measured as per ISO 13347 / L_{pA} 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	f	n	P _e	I	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	440	60	2700	58	0.09	630	0
2	440	60	2615	63	0.10	505	93
3	440	60	2525	67	0.10	350	181
4	440	60	2635	62	0.10	180	269
5	400	60	2600	53	0.09	590	0
6	400	60	2475	58	0.10	470	80
7	400	60	2375	61	0.10	330	160
8	400	60	2490	57	0.09	170	240

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