R4E310-AO32-13

AC centrifugal fan

backward-curved, single-intake



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Nominal data

Type	**R4E310-AO32-13**
Motor	**M4E074-DF**

Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	60	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	UL
Speed (rpm)	min^{-1}	1720	1720
Power consumption	W	155	185
Current draw	A	1.5	
Capacitor	µF	16	16
Capacitor voltage	VDB	220	220
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	65	65

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

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Technical description

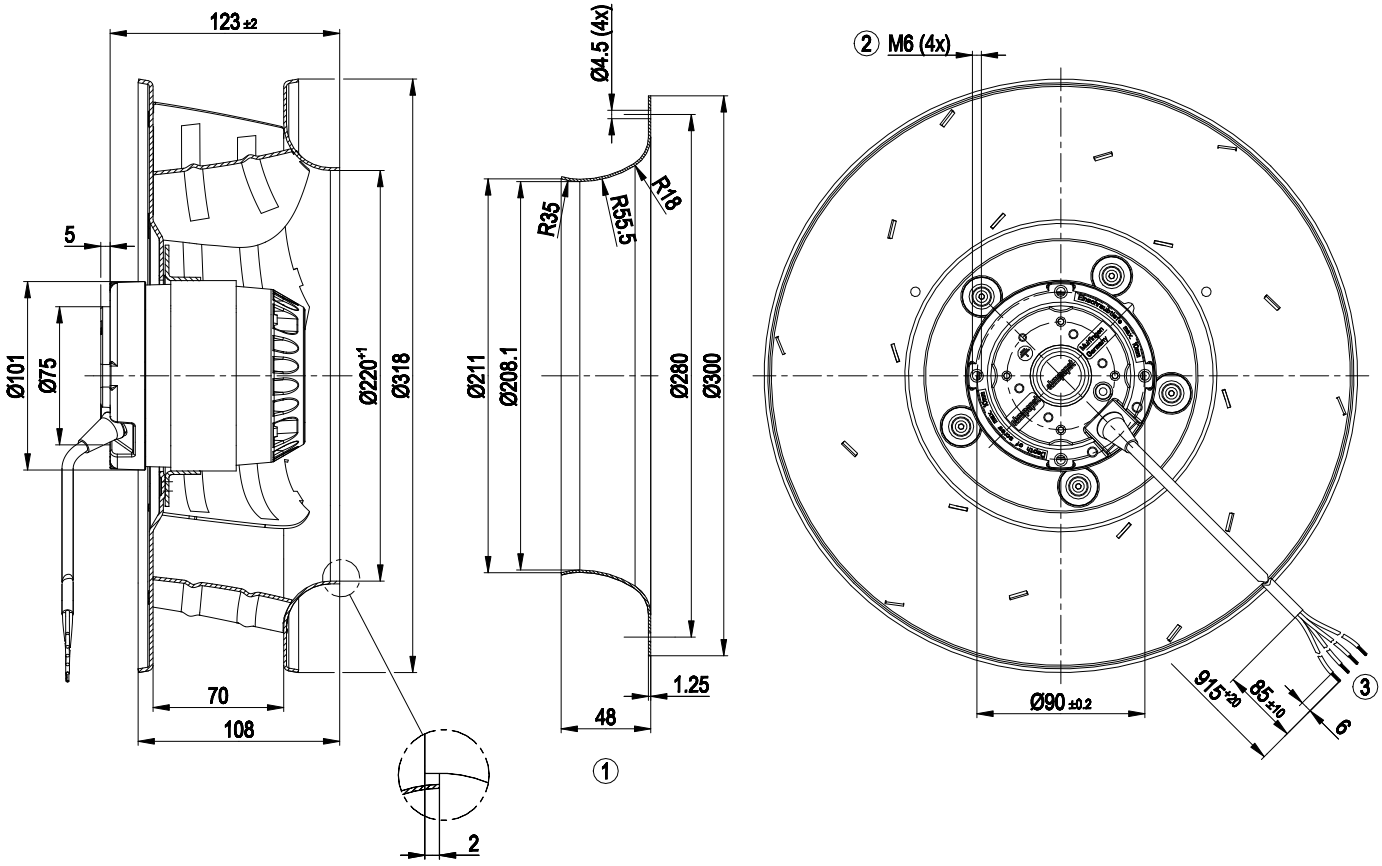
Weight	3.8 kg
Fan size	310 mm
Rotor surface	Painted black
Impeller material	Sheet aluminum
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H0+
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	UL 1004-1; CSA C22.2 No. 100

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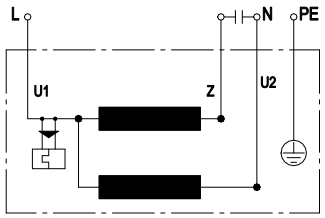
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Product drawing



1	Accessory part: inlet ring 31050-2-4013 not included in scope of delivery. Short nozzle 31051-2-4013 on request.
2	Max. clearance for screw 10 mm
3	Cable PFA 4G 0.5 mm², 4x crimped splices

Connection diagram



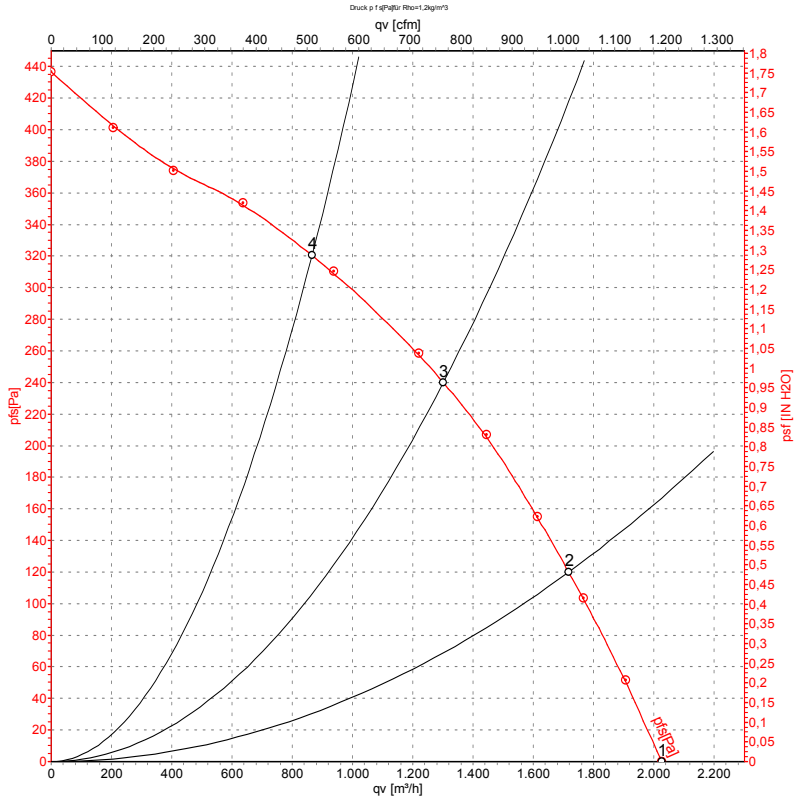
U1	blue	Z	brown	U2	black
PE	green/yellow				

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Curves: Air performance 60 Hz



Measurement: LU-58085-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P_e	I	qv	p_{fs}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	115	60	1720	155	1.50	2025	0	1190	0.00
2	115	60	1695	182	1.69	1715	120	1010	0.48
3	115	60	1675	199	1.81	1300	240	765	0.96
4	115	60	1680	194	1.78	865	320	510	1.28

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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