AC centrifugal fan

backward-curved

Nominal data

Type	**R4E310-AR06-13**
Motor	**M4E068-EC**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min^{-1}	1410	1650
Power consumption	W	95	125
Current draw	A	0.46	0.56
Capacitor	µF	4	4
Capacitor voltage	VDB	400	400
Capacitor standard		S2 (CE)	S2 (CE)
Min. back pressure	Pa	0	0
Min. back pressure	inH2O	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	90	85

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

R4E310-AR06-13 ebmpapst Datasheet FansCo sales@fansco.com www.fansco.com

AC centrifugal fan

backward-curved

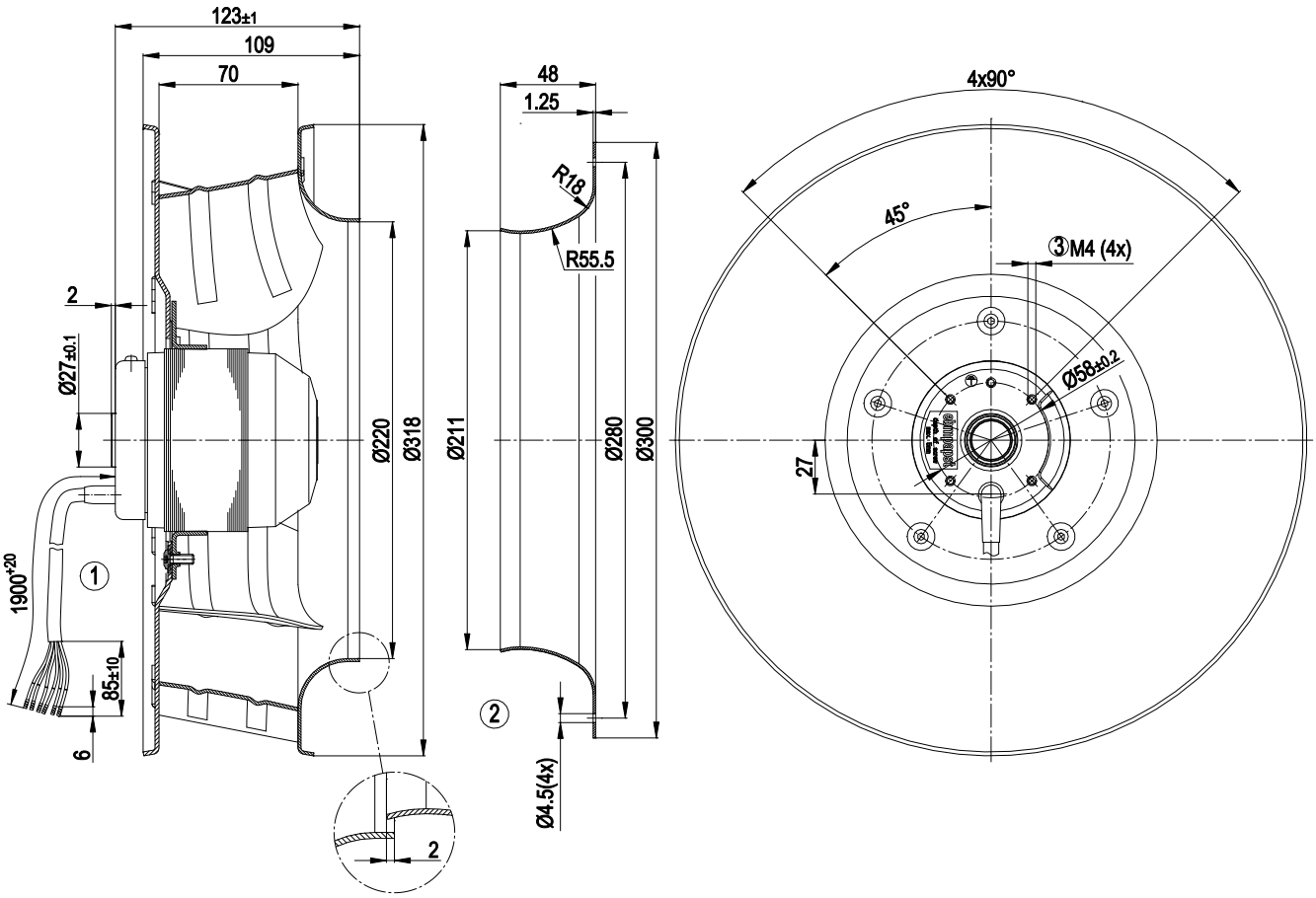
Technical description

Weight	3.4 kg
Fan size	310 mm
Rotor surface	Painted black
Impeller material	Sheet aluminum
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
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	Any
Condensation drainage holes	None
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) with basic insulation
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CSA C22.2 No. 100; UL 1004-1; EAC

AC centrifugal fan

backward-curved

Product drawing

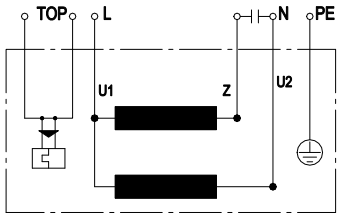


1	Cable silicone 6G 0.5 mm², 6x crimped splices
2	Accessory part: Inlet ring 31050-2-4013, not included in scope of delivery.
3	Max. clearance for screw 5 mm

AC centrifugal fan

backward-curved

Connection diagram

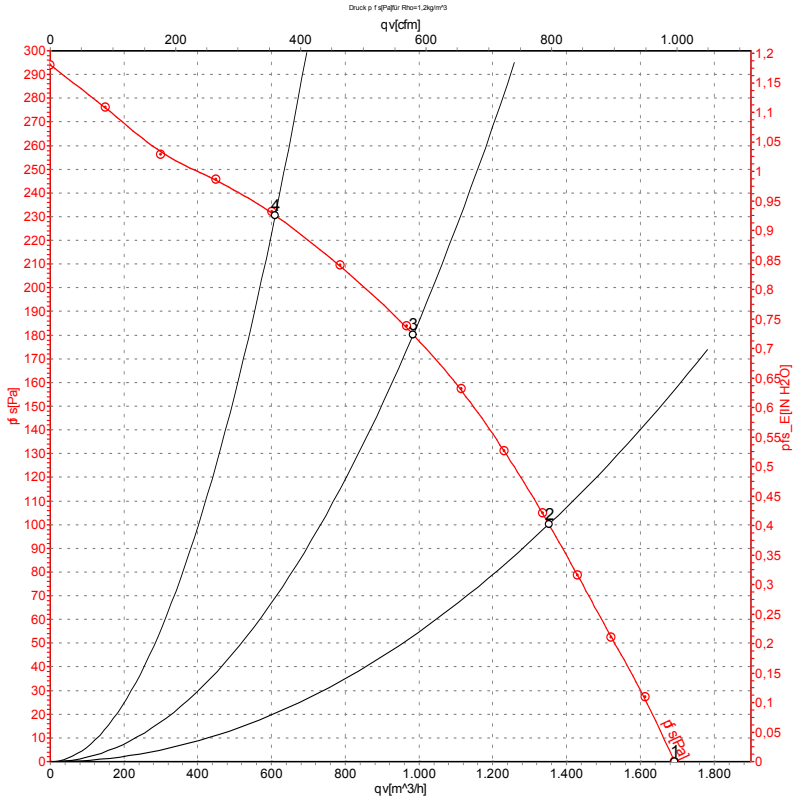


U1	blue	Z	brown	U2	black
PE	green/yellow	TOP	2x gray		

AC centrifugal fan

backward-curved

Curves: Air performance 50 Hz



Measurement: LU-60245-1

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

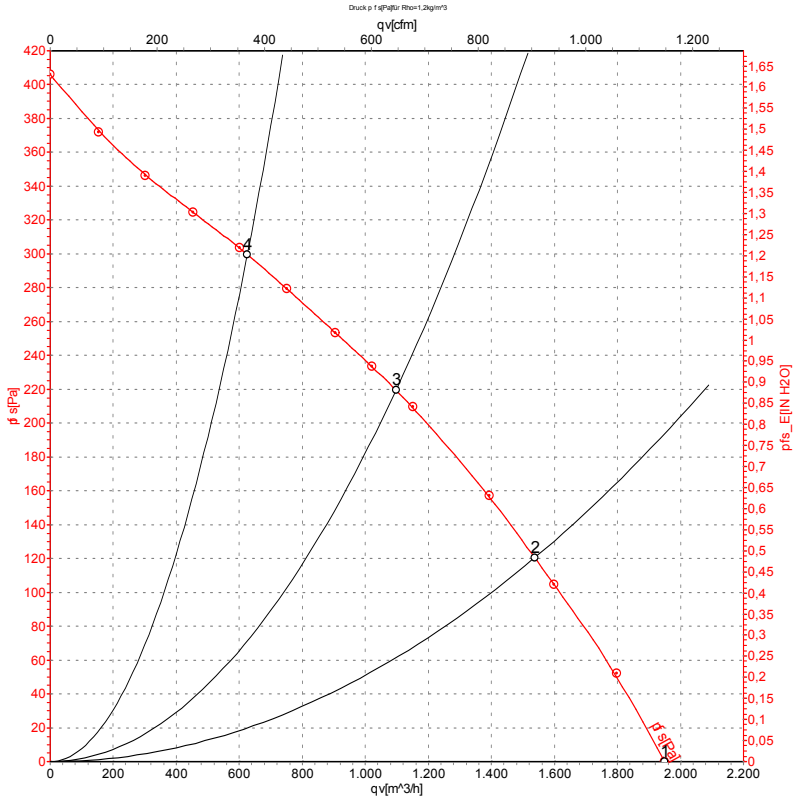
	U	f	n	P_e	I	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	1410	95	0.46	1695	0	995	0.00
2	230	50	1380	114	0.53	1350	100	795	0.40
3	230	50	1365	120	0.55	985	180	580	0.72
4	230	50	1390	114	0.53	610	230	360	0.92

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

AC centrifugal fan

backward-curved

Curves: Air performance 60 Hz



Measurement: LU-60246-1

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	60	1650	125	0.56	1950	0	1150	0.00
2	230	60	1560	152	0.67	1535	120	905	0.48
3	230	60	1515	163	0.71	1095	220	645	0.88
4	230	60	1575	152	0.66	625	300	370	1.20

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