AC centrifugal fan

backward-curved, single-intake

Nominal data

Type	**R6E400-AE11-10**
Motor	**M6E074-EI**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		ce	ce
Valid for approval/standard		CE	CE
Speed (rpm)	min^{-1}	740	720
Power consumption	W	102	125
Current draw	A	0.45	0.55
Capacitor	µF	3	3
Capacitor voltage	VDB	400	400
Min. back pressure	Pa	0	
Min. back pressure	inH2O	0	
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	65	60

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	5.2 kg
Fan size	400 mm
Rotor surface	Unpainted
Impeller material	Sheet aluminum
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP00
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
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	None, open rotor
Mode	S1
Motor bearing	Ball bearing
Speed levels	5
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; CCC; CSA C22.2 No. 100

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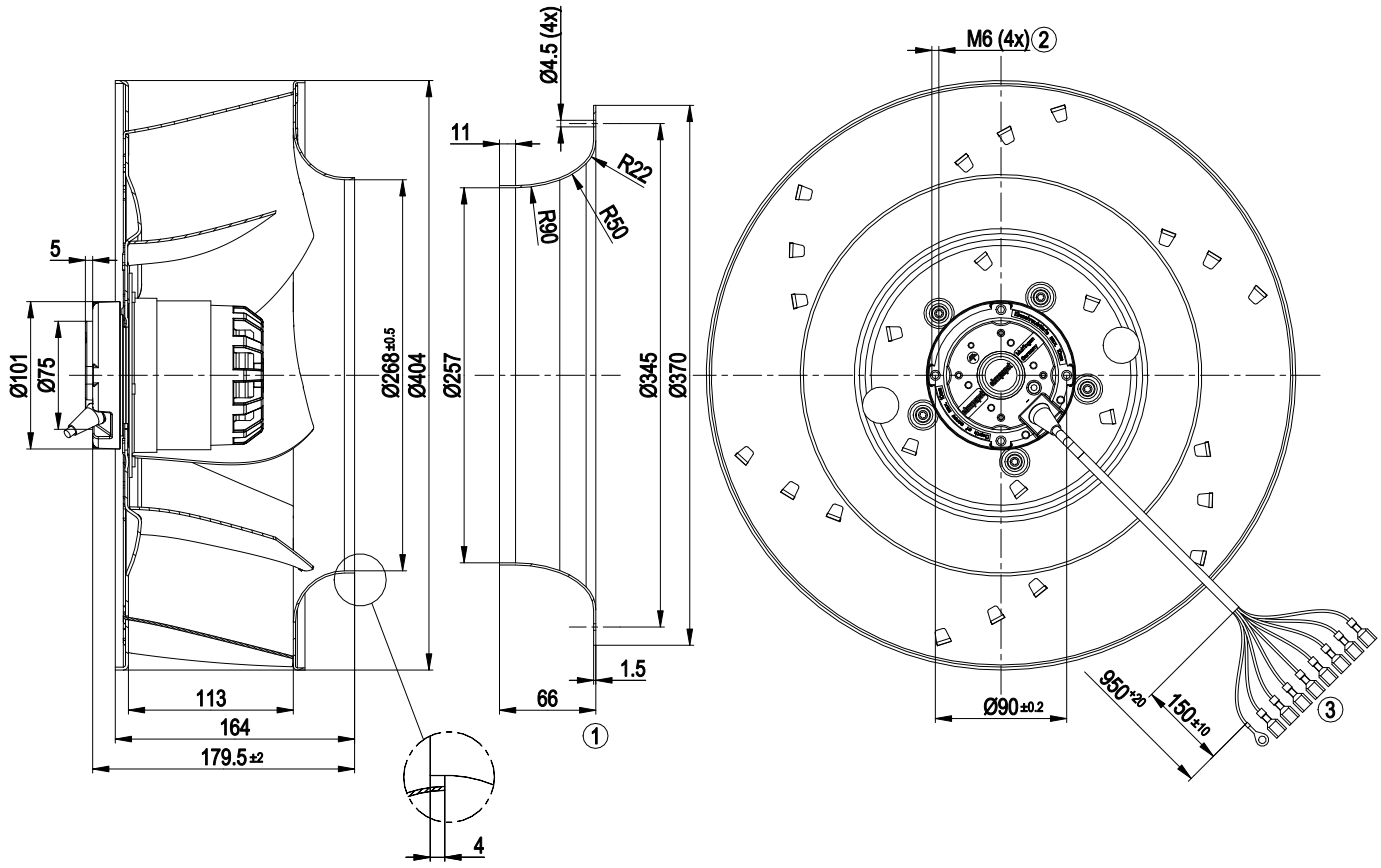
Product drawing



1	Accessory part: inlet ring 54476-2-4013 not included in scope of delivery
2	Max. clearance for screw 10 mm
3	Cable PFA AWG20, 8x crimped flat push-on receptacle 6.3 x 0.8, 1x ring terminal Ø 5.2

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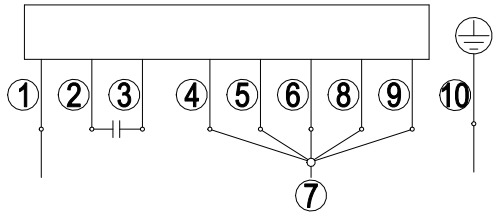
Connection diagram



Note: High speed (step V); low speed (step I)

1	= N = blue	2	brown	3	yellow
4	Step I white	5	Step II red	6	Step III gray
7	L1	8	Step IV orange	9	Step V black
10	PE				

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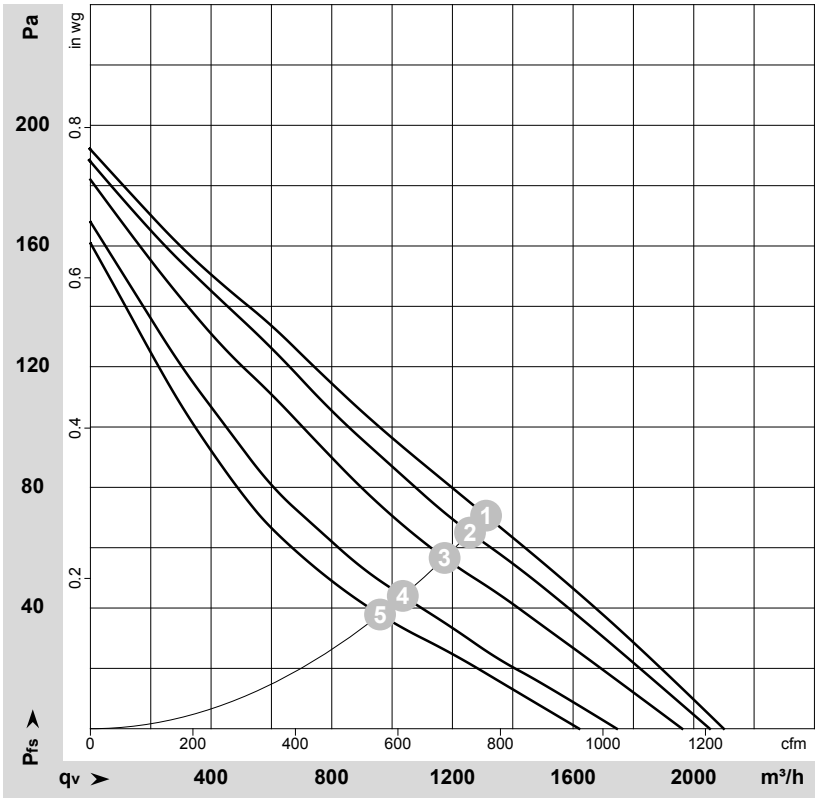
Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-60604-1
Measurement: LU-60609-1
Measurement: LU-60617-1
Measurement: LU-60619-1
Measurement: LU-60612-1

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

	Stage	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	5	230	50	740	102	0.45	1310	71	770	0.29
2	4	230	50	725	99	0.43	1270	65	745	0.26
3	3	230	50	685	96	0.42	1200	56	705	0.22
4	2	230	50	615	89	0.39	1060	44	625	0.18
5	1	230	50	575	86	0.38	990	38	585	0.15

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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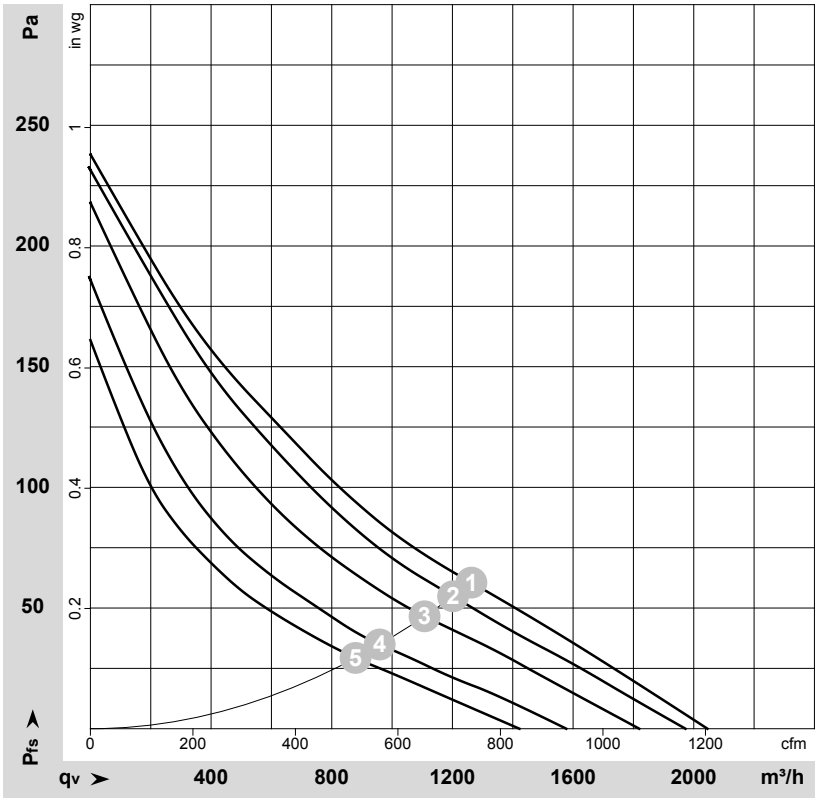
Curves: Air performance 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-60607-1
Measurement: LU-60610-1
Measurement: LU-60618-1
Measurement: LU-60621-1
Measurement: LU-60613-1

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

	Stage	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	5	230	60	720	125	0.55	1265	61	745	0.24
2	4	230	60	695	118	0.51	1210	55	715	0.22
3	3	230	60	645	108	0.48	1115	47	655	0.19
4	2	230	60	560	96	0.43	965	35	565	0.14
5	1	230	60	520	90	0.41	885	29	520	0.12

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