R4E355-AQ09-09

AC centrifugal fan

backward-curved, single-intake



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Nominal data

Type	**R4E355-AQ09-09**
Motor	**M4E094-FA**

Phase		1~	1~
Nominal voltage	VAC	120	120
Frequency	Hz	60	60
Method of obtaining data		cs/ce	cs/ce
Valid for approval/standard		UL 1004-1	-
Speed (rpm)	min^{-1}		1630
Power consumption	W		480
Current draw	A	4.3	4.3
Capacitor	µF	30	30
Capacitor voltage	VDB	370	370
Capacitor standard		UL	S2 (CE)
Min. back pressure	Pa	0	0
Min. back pressure	inH2O	0	0
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	75	75
Starting current	A	11.0	10.0

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

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Technical description

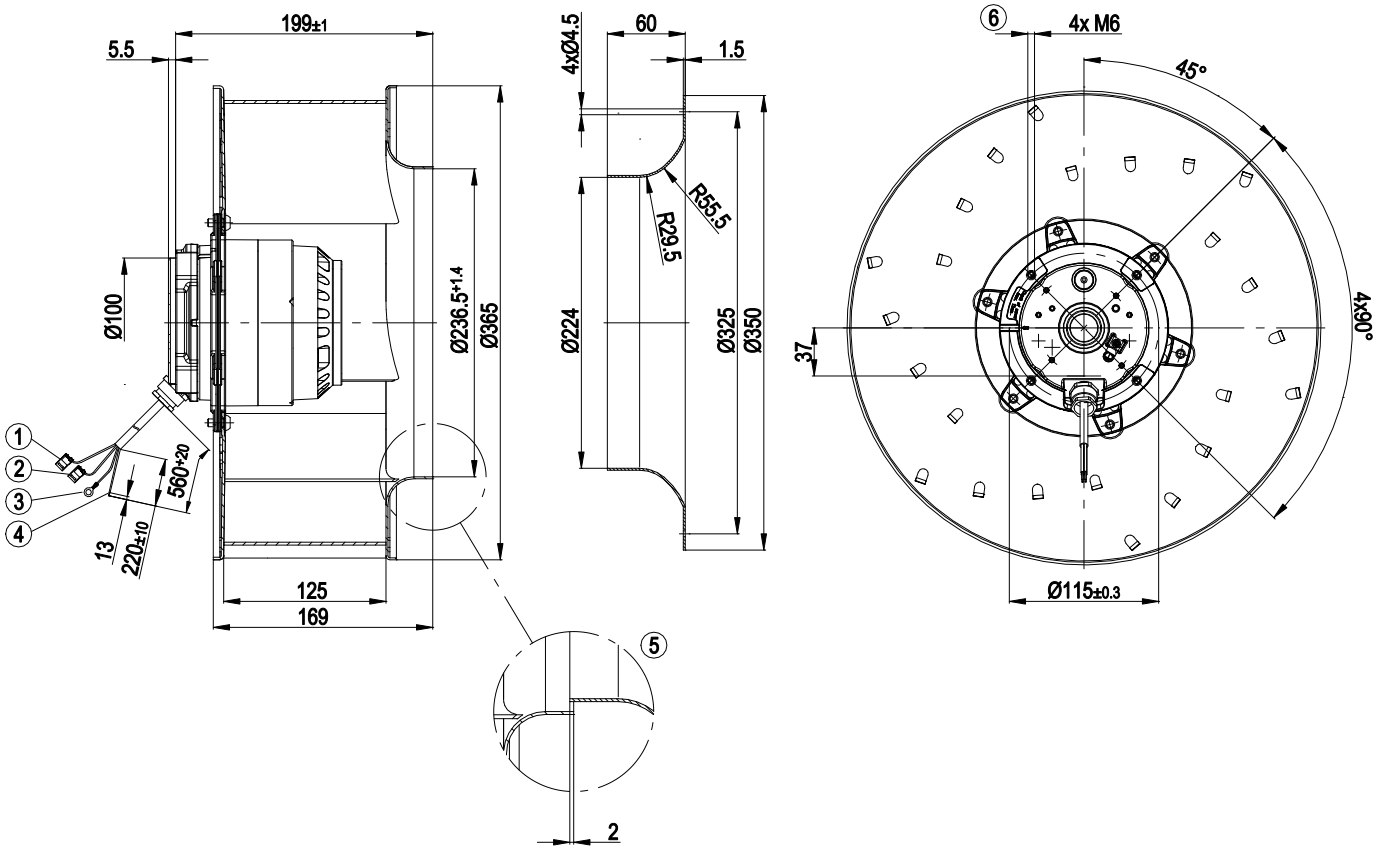
Weight	7 kg
Fan size	355 mm
Rotor surface	Painted black
Impeller material	Sheet aluminum
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F4-1
Max. permitted ambient temp. for motor (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)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Axial
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60034-1 (2004)
Approval	UL 1004-1; CSA C22.2 No. 100

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Product drawing



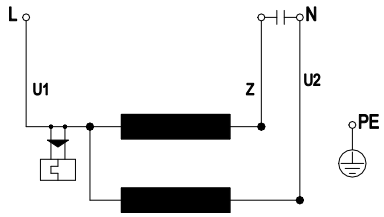
1	Cable PFA, brown wire, crimped flat push-on receptacle
2	Cable PFA, black wire, crimped flat push-on receptacle
3	Cable PFA, green/yellow wire, crimped ring terminal
4	Cable PFA, blue wire, wire end stripped
5	Accessory part: inlet ring 51357-2-4013 not included in scope of delivery
6	Max. clearance for screw 12 mm

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Connection diagram



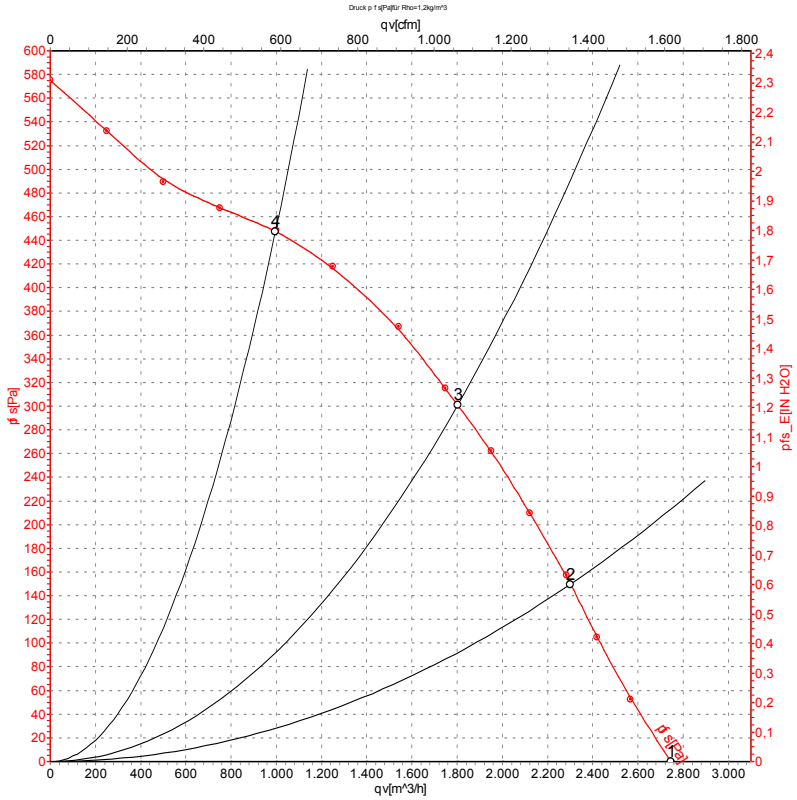
U1	blue	Z	brown	U2	black
PE	green/yellow				

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Curves: Air performance 60 Hz



Measurement: LU-69397-1

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	115	60	1650	450	4.09	2745	0	1615	0.00
2	115	60	1640	463	4.19	2300	150	1355	0.60
3	115	60	1630	480	4.30	1805	300	1060	1.20
4	115	60	1660	428	3.88	995	449	585	1.80

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

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