

K2E190-RA26-01

AC centrifugal module - RadiCal®

backward-curved, single-intake
with housing



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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	K2E190-RA26-01		
Motor	M2E068-BF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		ml	ml
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2350	2500
Power consumption	W	52	65
Current draw	A	0.23	0.29
Capacitor	µF	1.5	1.5
Capacitor voltage	VDB	400	400
Capacitor standard		P0 (CE)	P0 (CE)
Min. back pressure	Pa	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	65	75
Starting current	A	0.37	0.37

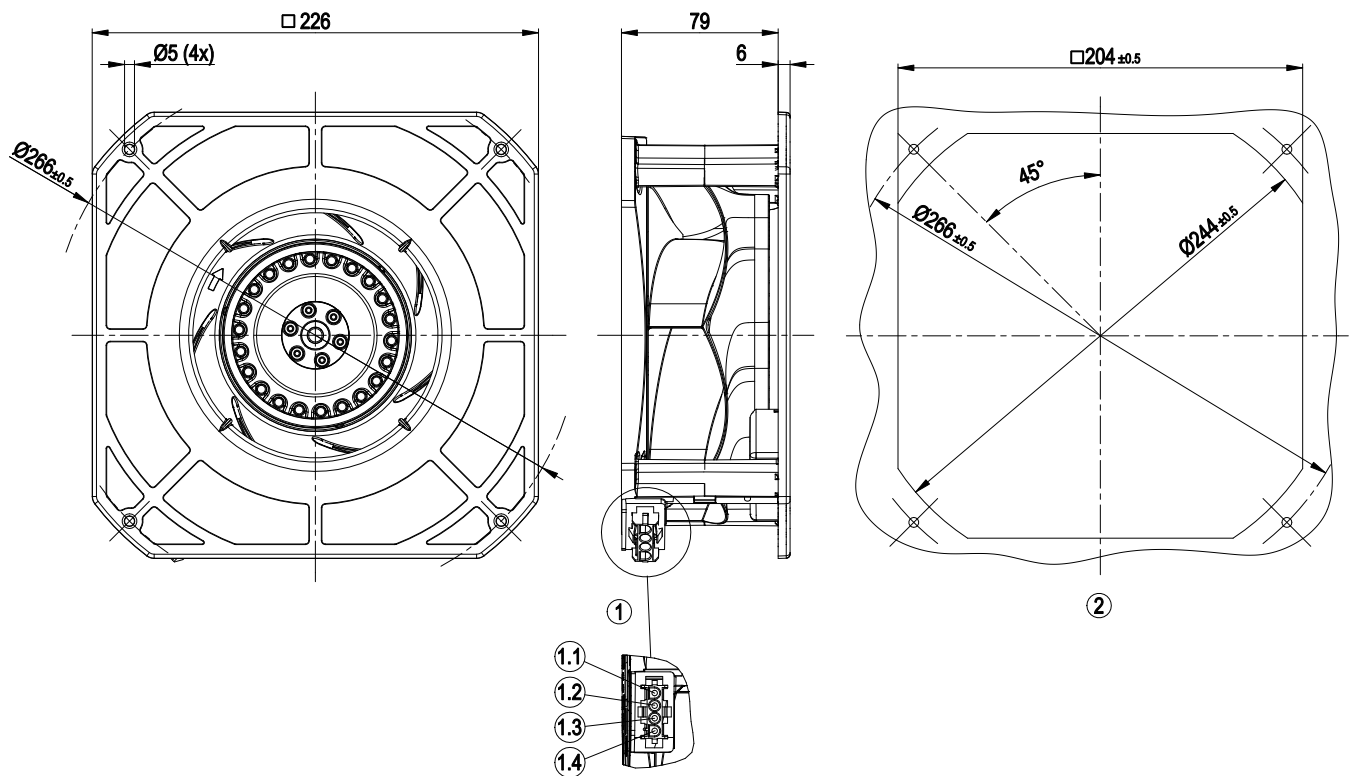
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

Weight	1.7 kg
Motor size	190 mm
Rotor surface	Painted black
Impeller material	PA plastic
Housing material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP 44; installation- and position-dependent as per EN 60034-5
Insulation class	«B»
Moisture protection class	F1-2
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 for motor	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical connection	With plug connector
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	CCC

Product drawing



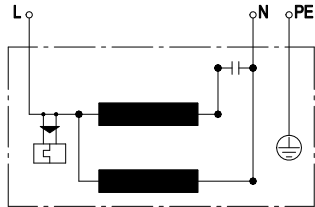
1	Coded plug system AMP Universal-Mate-N-Lok
	Plug housing: AMP 350 780-1
	4 pins: AMP 926 885-1
	Mating connector (not included in scope of delivery):
	Plug housing: AMP 350 779-4
	4 sockets: AMP 926 884-1
1.1	PE
1.2	L
1.3	N + capacitor
1.4	Capacitor
	(capacitor internally connected)
2	Mounting dimensions

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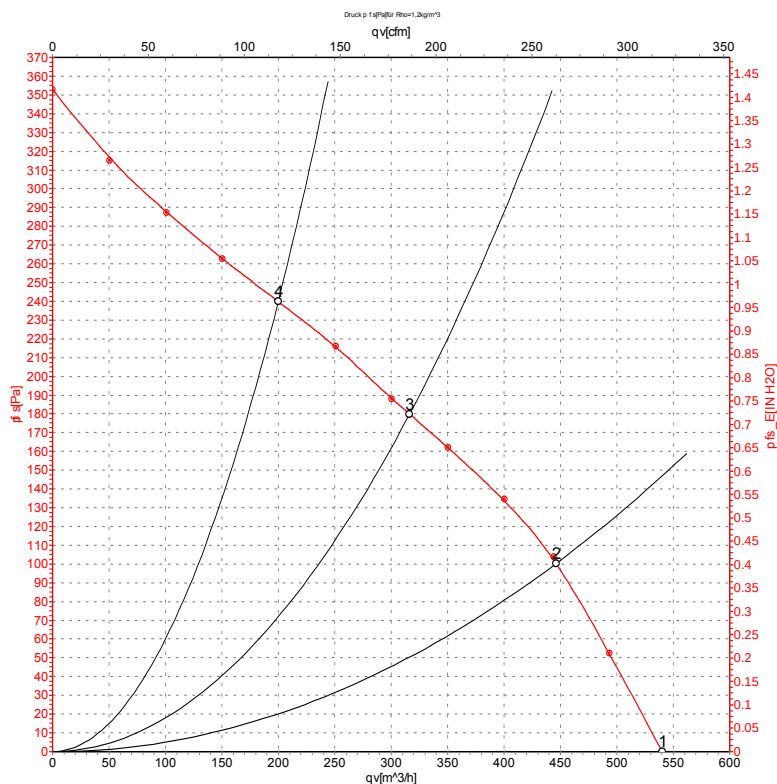
Connection diagram



L	blue	N	black	PE	green/yellow
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Curves: Air performance 50 Hz



Measurement: LU-125749

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 must be checked in the installed unit.

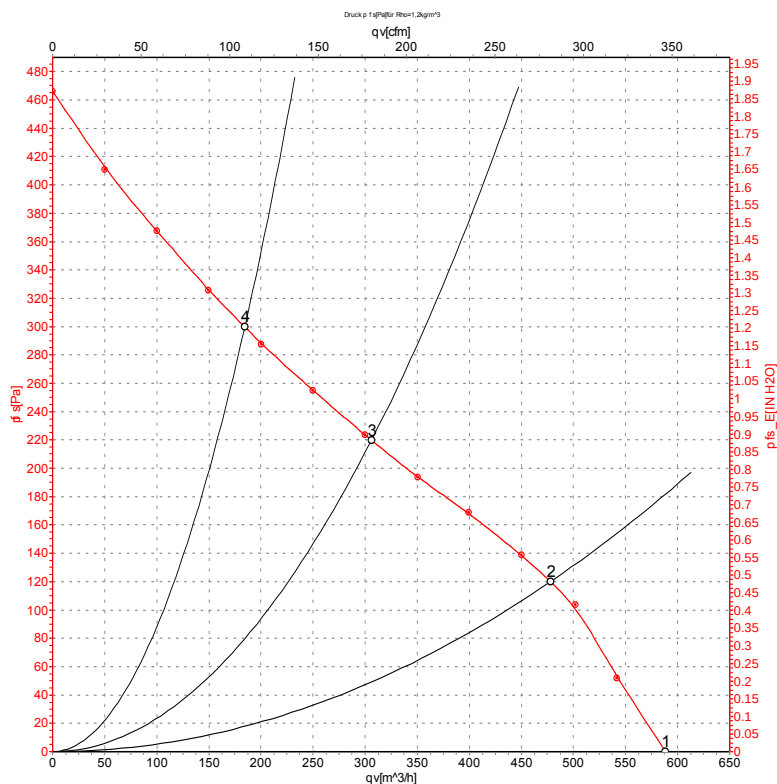
Measured values

	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	P _{ts}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa
1	230	50	2480	48	0.22	58	66	540	0
2	230	50	2440	49	0.22	55	63	445	100
3	230	50	2350	52	0.23	52	60	315	180
4	230	50	2435	50	0.22	54	62	200	240

U = Power supply · f = Frequency · n = Speed (rpm) · P

LwA_{in} = Intake sound power level · qv = Air flow · pP_e = Power consumption · I = Current draw · LpA_{in} = Intake sound pressure levelP_{ts} = Pressure increase

Curves: Air performance 60 Hz



Measurement: LU-125753

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 must be checked in the installed unit.

Measured values

	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	P _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa
1	230	60	2720	60	0.27	60	68	590	0
2	230	60	2635	62	0.27	58	65	480	120
3	230	60	2500	65	0.29	54	61	305	220
4	230	60	2670	61	0.27	59	66	185	300

U = Power supply · f = Frequency · n = Speed (rpm) · P

LwA_{in} = Intake sound power level · qv = Air flow · pe = Power consumption · I = Current draw · LpA_{in} = Intake sound pressure levelp_s = Pressure increase