K2E200-AA12-01

AC diagonal module

with support bracket

K2E200-AA12-01 ebmpapst Datesheet
sales@fansco.com
www.fansco.com

Nominal data

Type	**K2E200-AA12-01**			
Motor	**M2E068-CF**			
Phase		1~	1~	1~
Nominal voltage	VAC	115	115	115
Frequency	Hz	50	60	60
Method of obtaining data		fa	fa	fa
Valid for approval/standard		CE	CE	UL 2111
Speed (rpm)	min^{-1}	2650	2910	2910
Power consumption	W	64	88	92
Current draw	A	0.56	0.77	0.78
Capacitor	µF	6	6	6
Capacitor voltage	VDB	250	250	250
Min. back pressure	Pa	0	0	0
Max. back pressure	Pa	200	240	240
Min. back pressure	in. wg	0	0	0
Max. back pressure	in. wg	0.8	0.96	0.96
Max. ambient temperature	°C	65	65	65
Starting current	A	1.25	1.25	1.27

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

K2E200-AA12-01 ebmpapst Datesheet sales@fansco.com www.fansco.com

AC diagonal module

with support bracket

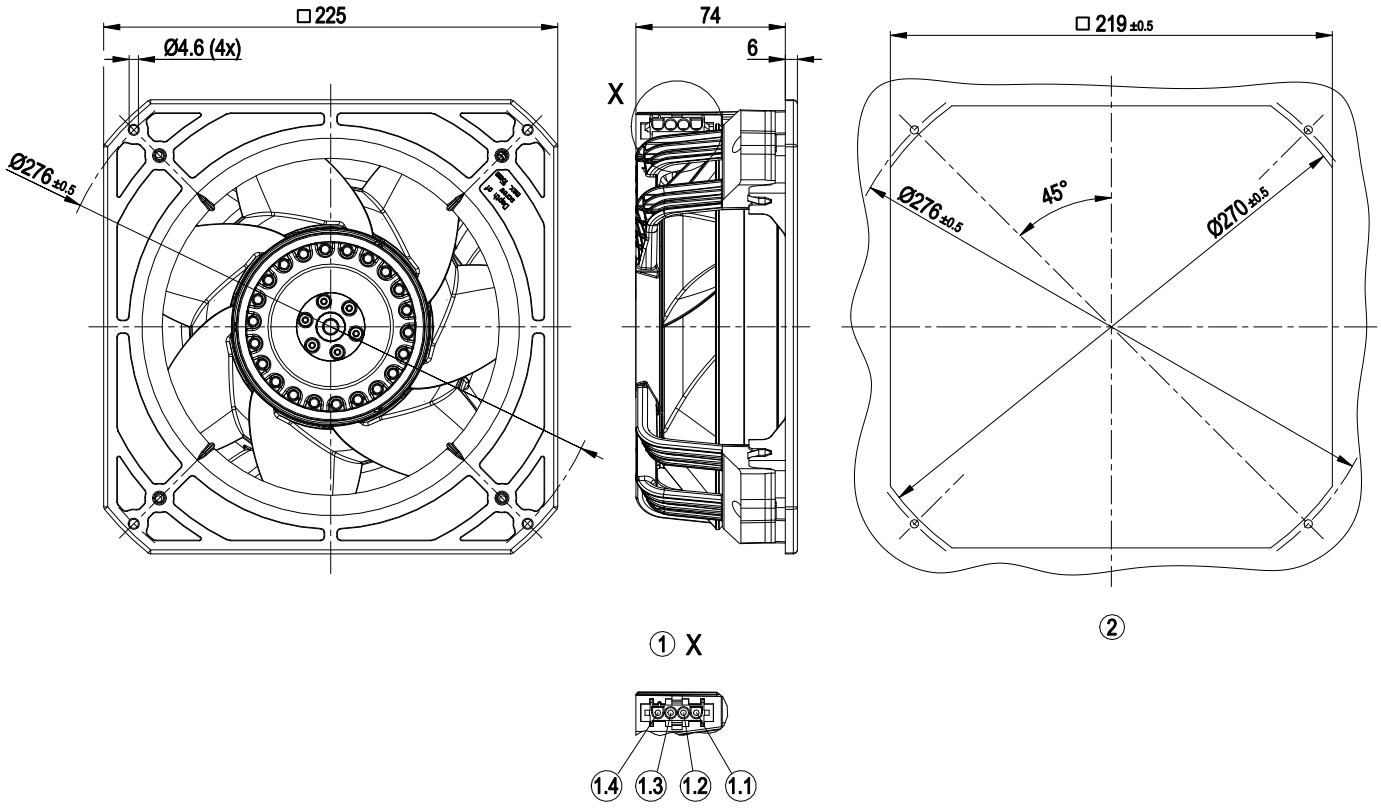
Technical description

Weight	2.1 kg
Size	200 mm
Motor size	68
Rotor surface	Painted black
Impeller material	PA plastic
Housing material	PA plastic
Support bracket material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	Motor IP44, plug IP20; installation- and position-dependent
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H1 = Moist – occasional or constantly high level of humidity
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
Electrical hookup	Plug; Capacitor mounted
Motor protection	Thermal switch auto reset, internally connected
With cable	Lateral
Protection class assignment	I; If a protective earth is connected. The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60335-1; CE
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.
Approval	UL 1004-3; EAC; CSA C22.2 No. 77

AC diagonal module

with support bracket

Product drawing

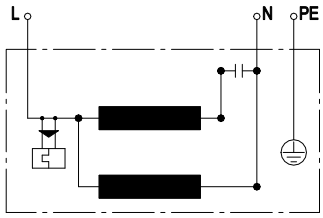


	tyco coded plug system
	4-pole connector housing tyco 926305-7
	3x plug pin tyco 926885-1
	Mating connector (not included in scope of delivery):
	4-pole connector housing tyco 350779-1
	3x socket tyco 926884-1
1.1	PE = green/yellow
1.2	L (blue)
1.3	N (black)
1.4	not used
2	Mounting dimensions

AC diagonal module

with support bracket

Connection diagram

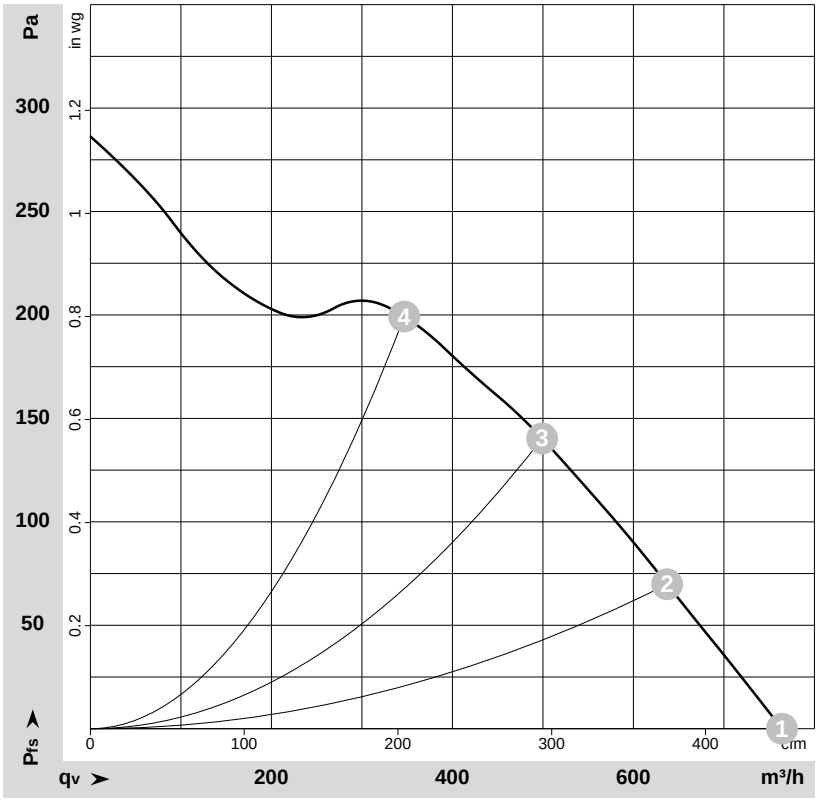


L	blue	N	black	PE	green/yellow

AC diagonal module

with support bracket

Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-124895-1
Date: 2010-03-03
Nozzle: 20211-2-2911

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

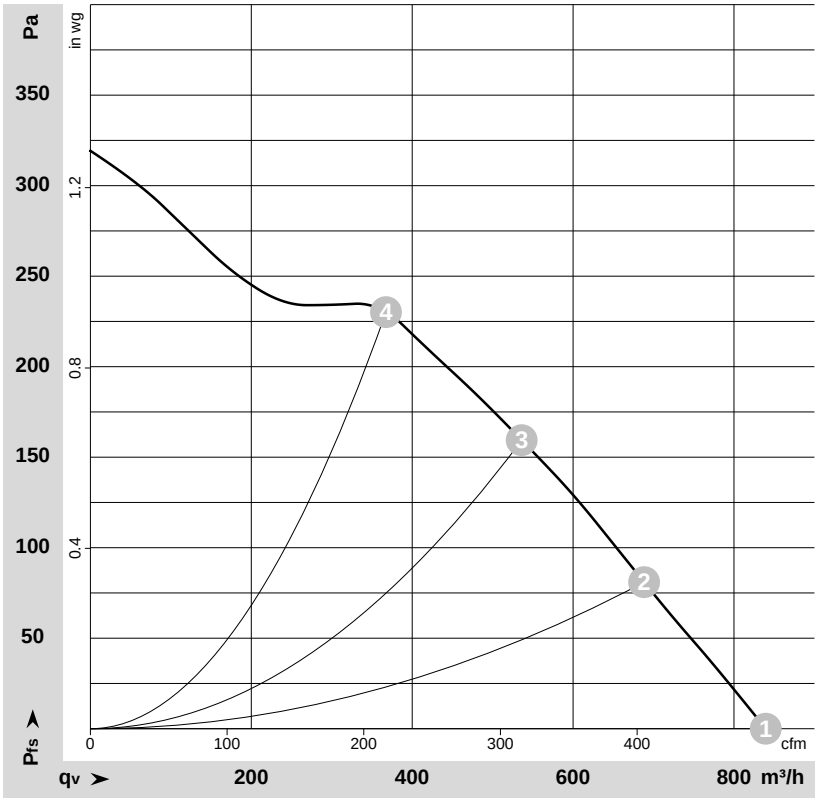
	U	f	n	P_e	I	LpA_{in}	LwA_{in}	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	cfm	in. wg
1	115	50	2650	64	0.56	62	70	765	0	450	0.00
2	115	50	2610	67	0.59	60	67	635	70	375	0.28
3	115	50	2580	70	0.61	59	67	500	140	295	0.56
4	115	50	2595	68	0.60	61	69	345	200	205	0.80

U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_V = Air flow · p_{fs} = Pressure increase

AC diagonal module

with support bracket

Curves: Air performance 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-124896-1
Date: 2010-03-03
Nozzle: 20211-2-2911

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	LpA_{in}	LwA_{in}	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	cfm	in. wg
1	115	60	2910	88	0.77	64	72	840	0	495	0.00
2	115	60	2810	93	0.82	61	69	690	80	405	0.32
3	115	60	2755	96	0.84	61	69	535	160	315	0.64
4	115	60	2780	95	0.83	63	71	365	230	215	0.92

U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_V = Air flow · p_{fs} = Pressure increase