K1G220-AF92-02

EC centrifugal module - ESM

backward-curved

with support bracket



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Nominal data

Type	**K1G220-AF92-02**
Motor	**M1G055-BD**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	
Speed (rpm)	min^{-1}	1600	1200
Power consumption	W	33	-
Current draw	A	0.25	
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	50	50

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	1.4 kg
Fan size	220 mm
Rotor surface	Galvanized
Impeller material	PA6 plastic, glass-fiber reinforced
Support bracket material	PA6 plastic, glass-fiber reinforced
Inlet nozzle material	PA6 plastic, glass-fiber reinforced
Number of blades	11
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
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	On rotor side
Mode	S1
Motor bearing	Ball bearing
Technical features	- Thermal overload protection for motor - Speed selection max./min.
Speed levels	2
EMC immunity to interference	According to EN 61000-6-2
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 61000-6-3 (household environment)
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	II
Conformity with standards	EN 60335-1; CE
Approval	UL 1004-3; CSA C22.2 No. 77; EAC; VDE

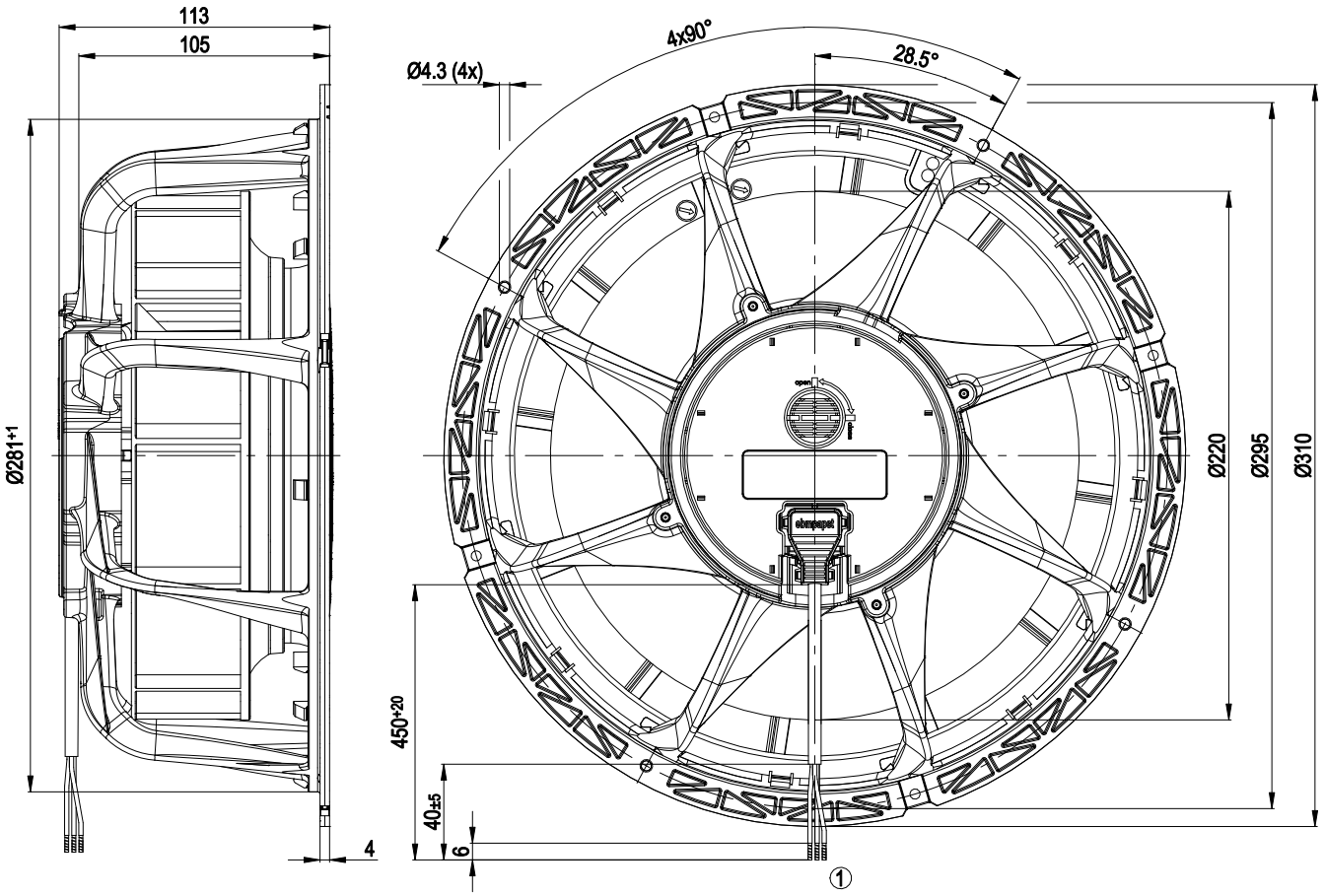
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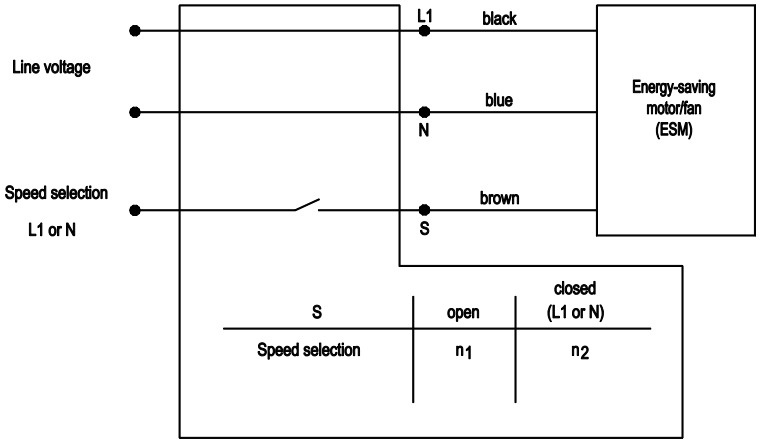
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Product drawing



1	Cable AWG20, 3x crimped splices

Connection diagram



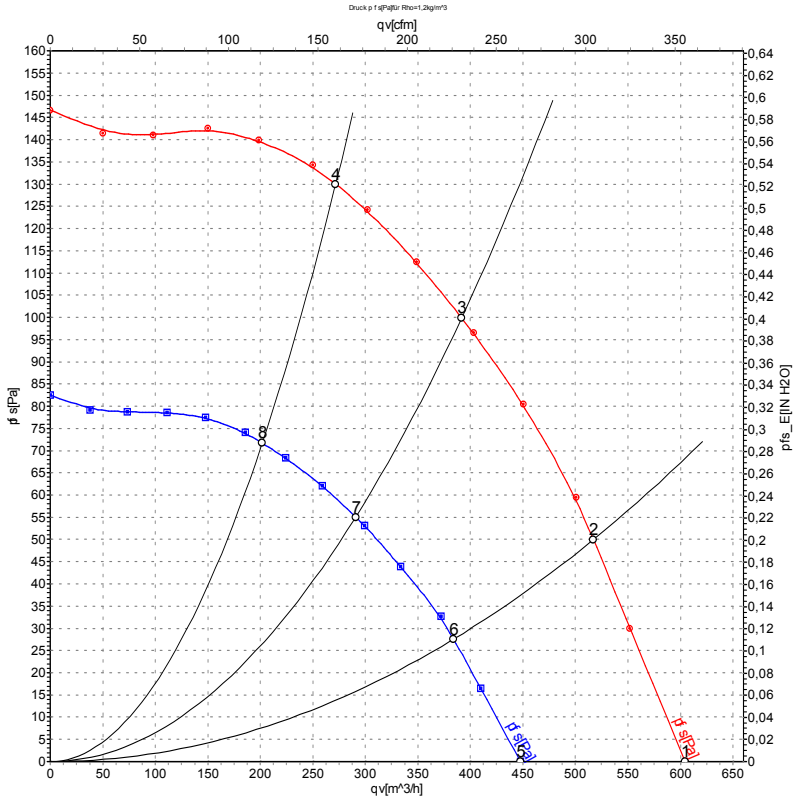
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Curves: Air performance 50 Hz



Measurement: LU-116642-1

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_{ed}	I	LpA_{in}	LwA_{in}	qv	p_{fs}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	CFM	inH2O
1	230	50	1600	18	0.14	51	59	605	0	355	0.00
2	230	50	1600	25	0.20	50	57	515	50	305	0.20
3	230	50	1600	33	0.25	48	55	390	100	230	0.40
4	230	50	1600	30	0.25	49	56	270	130	160	0.52
5	230	50	1200	7.4	0.06	45	52	450	0	265	0.00
6	230	50	1200	10	0.08	43	50	385	28	225	0.11
7	230	50	1200	13	0.10	41	48	290	55	170	0.22
8	230	50	1200	13	0.10	42	50	200	72	120	0.29

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

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