K1G220-AF90-02

EC centrifugal module - ESM

backward curved

with support bracket



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Nominal data

Type	**K1G220-AF90-02**
Motor	**M1G055-BD**

Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50/60	50/60
Type of data definition		ml	
Speed (rpm)	min^{-1}	1600	1200
Power input	W	32	-
Current draw	A	0.5	
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	50	50

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

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Technical features

Mass	1.4 kg
Size	220 mm
Surface of rotor	Galvanised
Material of impeller	Plastic PA6, fibreglass-reinforced
Material of support bracket	Plastic PA6, fibreglass-reinforced
Material of inlet nozzle	Plastic PA6, fibreglass-reinforced
Number of blades	11
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity (F)/environmental protection class (H)	H1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Over-temperature protected motor - Speed selection max/min
Speed steps	2
EMC interference immunity	Acc. to EN 61000-6-2
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Motor protection	Thermal overload protector (TOP) wired internally
Protection class	II
Product conforming to standard	EN 60335-1; CE
Approval	CSA C22.2 No.77; EAC; UL 1004-3; VDE

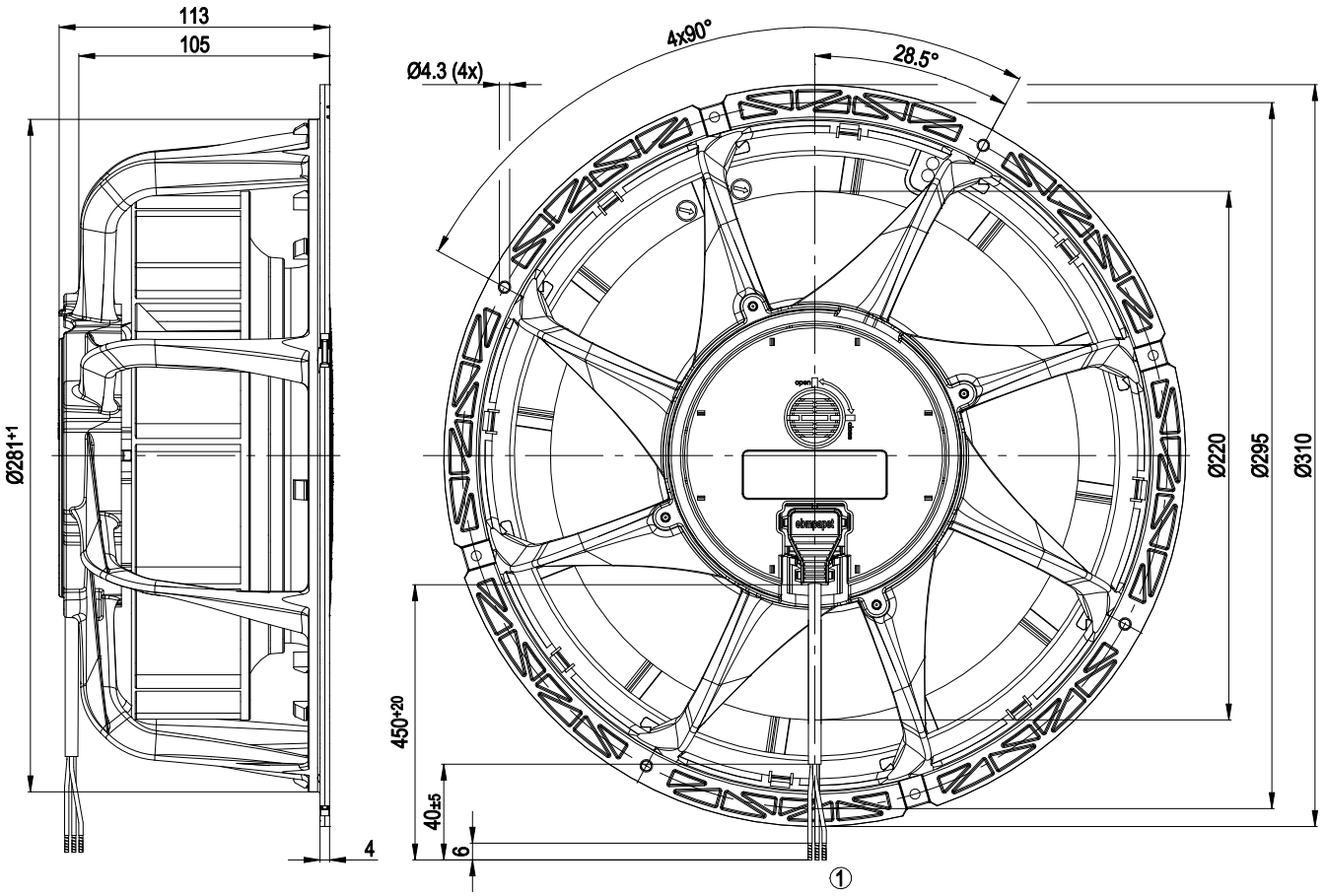
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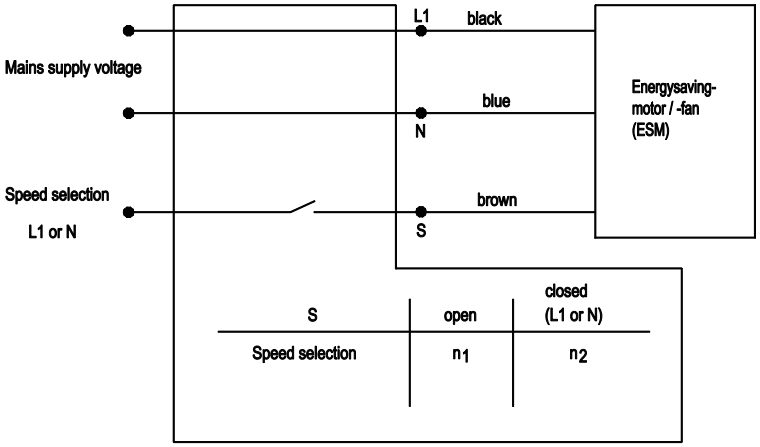
with support bracket

Product drawing



1	Connection line AWG20, 3x brass lead tips crimped

Connection screen



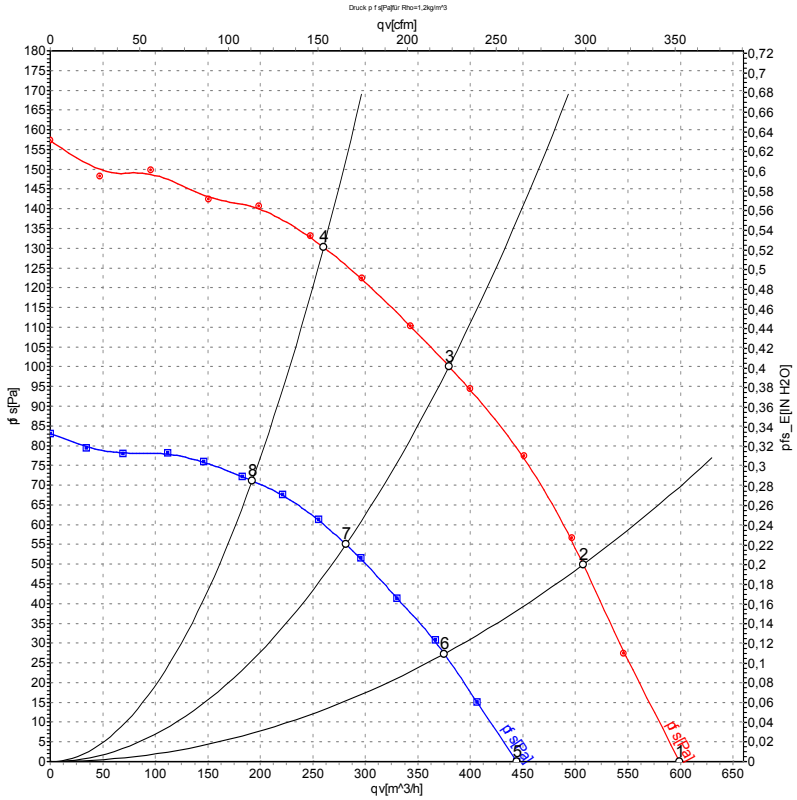
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Charts: Air flow 50 Hz



Measurement: LU-116724-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

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	115	50	1600	18	0.25	51	59	600	0	355	0.00
2	115	50	1600	26	0.37	50	57	510	50	300	0.20
3	115	50	1600	32	0.50	48	55	380	100	225	0.40
4	115	50	1600	30	0.44	48	56	260	130	155	0.52
5	115	50	1200	7.2	0.10	44	52	445	0	260	0.00
6	115	50	1200	11	0.15	43	50	375	27	220	0.11
7	115	50	1200	12	0.18	41	48	280	55	165	0.22
8	115	50	1200	12	0.18	41	50	190	71	115	0.29

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

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