K1G220-AB73-11

EC centrifugal fan

backward-curved, single-intake

with housing (without flange)



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Nominal data

Type	**K1G220-AB73-11**	
Motor	**M1G074-BF**	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Method of obtaining data		fa
Speed (rpm)	min^{-1}	2880
Power consumption	W	110
Current draw	A	2.7
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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	3.1 kg
Fan size	220 mm
Rotor surface	Painted black
Impeller material	PA plastic
Housing material	PA plastic
Support plate material	Sheet steel, galvanized
Guard grille material	Steel, coated with white-aluminum plastic (RAL 9006)
Number of blades	11
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-1
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
Technical features	- Motor current limitation - Soft start
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 55022 (Class B)
Electrical hookup	With plug
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable
Conformity with standards	EN 60335-1
Approval	CSA C22.2 No. 77; UL 1004-1

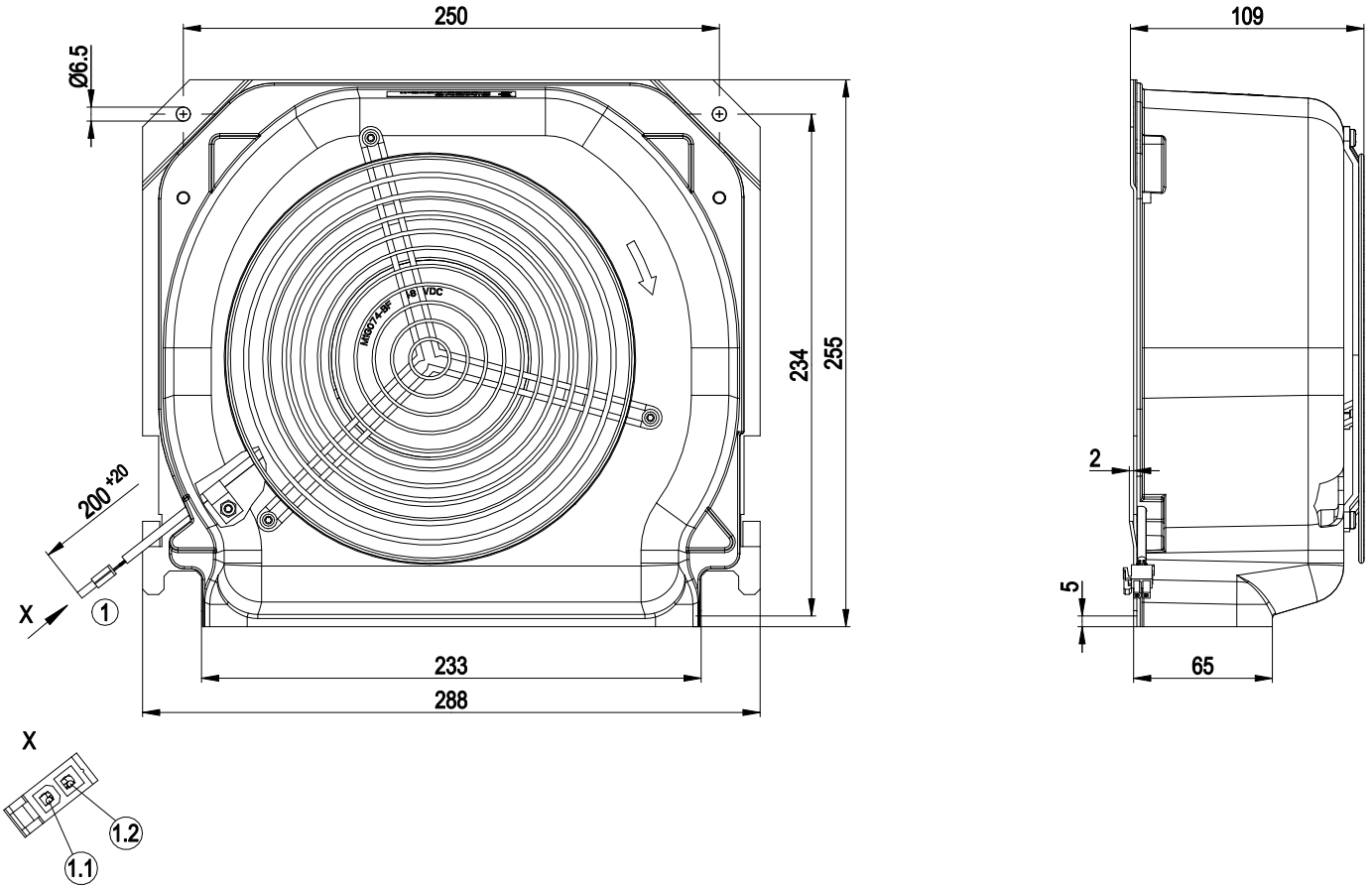
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Product drawing



1	Cable PVC AWG20 with 2-pole connector housing Molex 39-01-2025, 2x socket Molex 39-00-0059
1.1	- (blue)
1.2	+ (red)

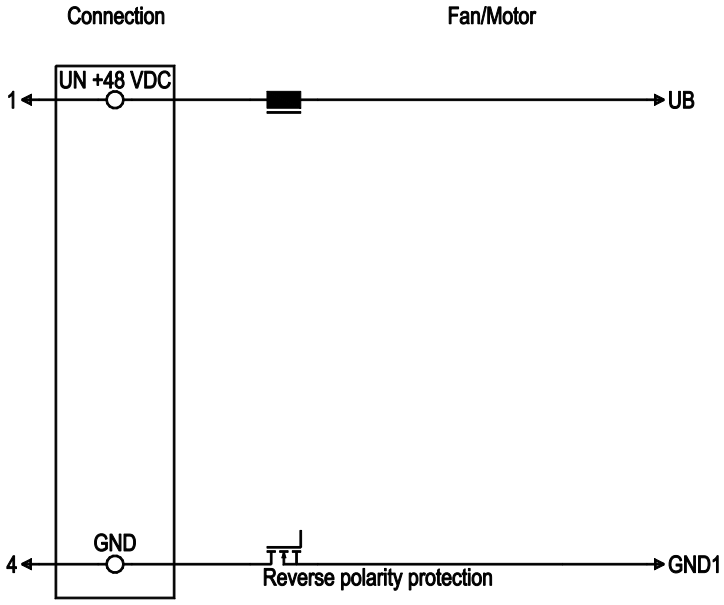
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	1	Un +48 VDC	red	Power supply 48 VDC, maximum ripple 3.5%
	4	GND	blue	Reference ground

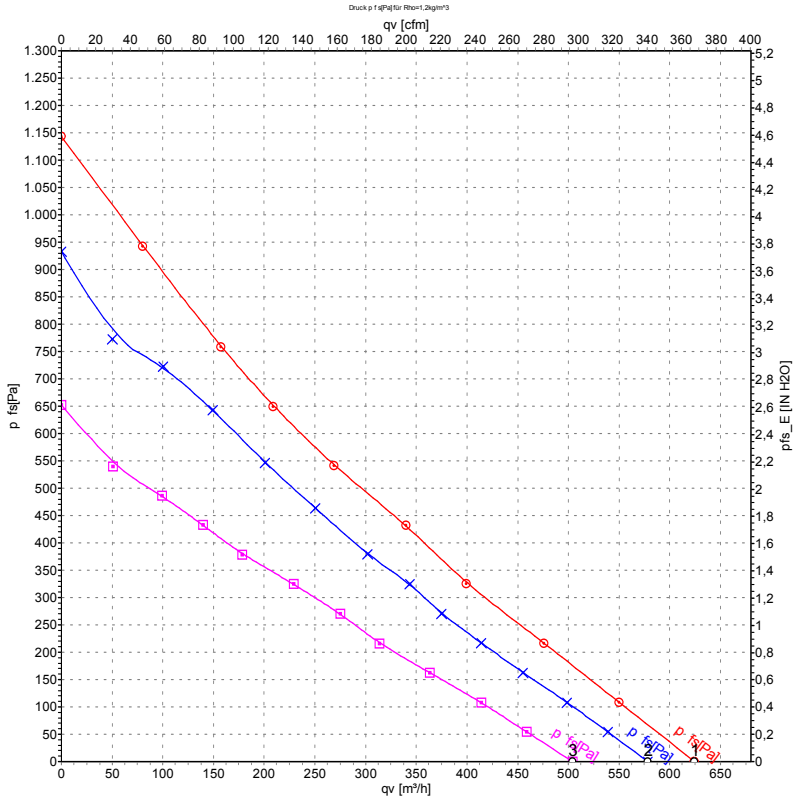
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Curves: Air performance



Measurement: LU-63584-1
Measurement: LU-63582-1
Measurement: LU-63583-1

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	n	P_{ed}	I	q_V	q_V	p_{fs}
	V	min^{-1}	W	A	m^3/h	cfm	inH2O
1	57	3155	131	2.89	625	365	0.00
2	48	2880	110	2.70	580	340	0.00
3	36	2545	70	2.20	505	295	0.00

U = Power supply · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_V = Air flow

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