

Nominal data

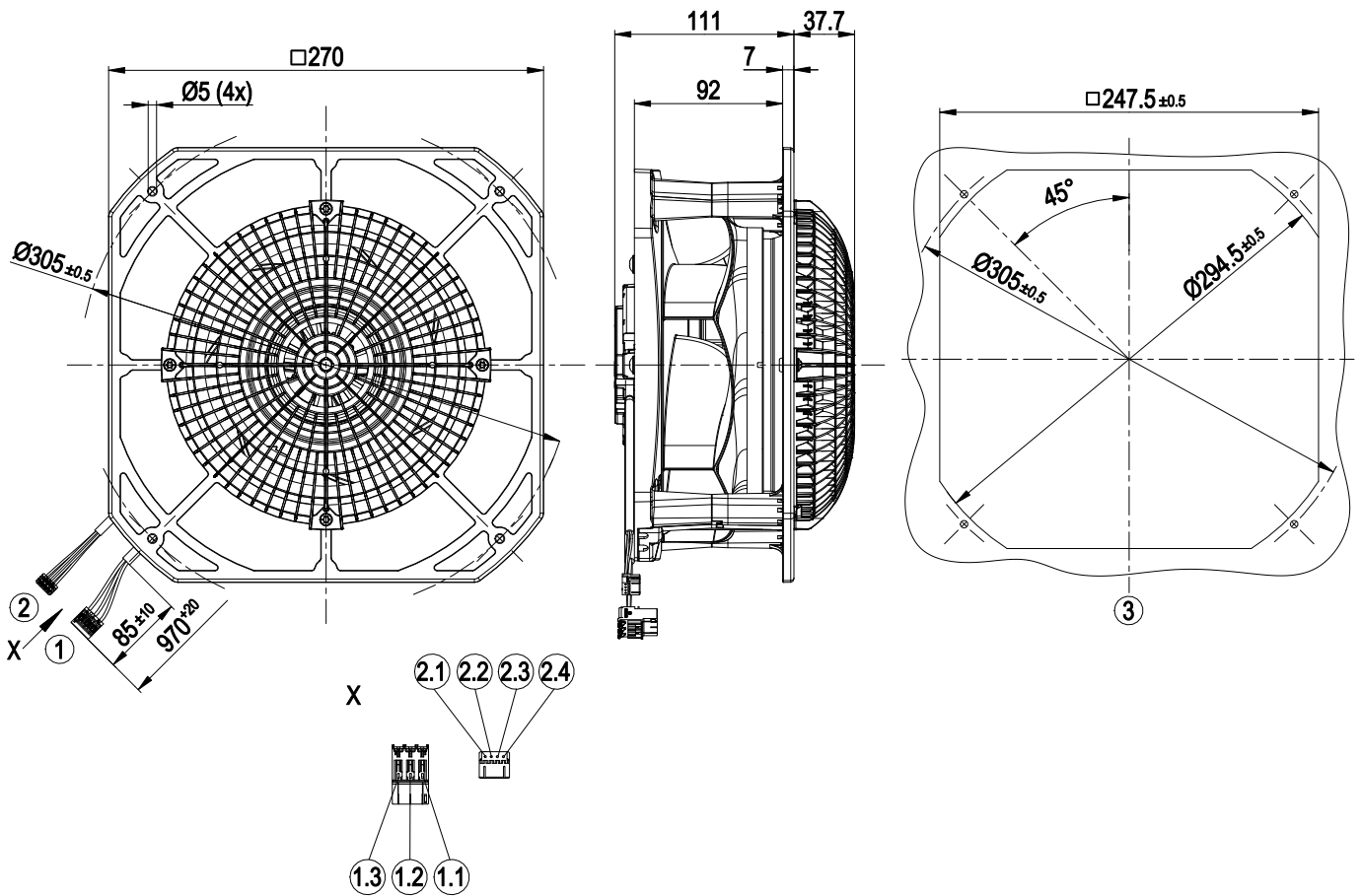
Type	K3G220-RD49-15	
Motor	M3G055-CF	
Phase		1~
Nominal voltage	VAC	115
Nominal voltage range	VAC	100 .. 130
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	3250
Power consumption	W	170
Current draw	A	2.4
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

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

Technical description

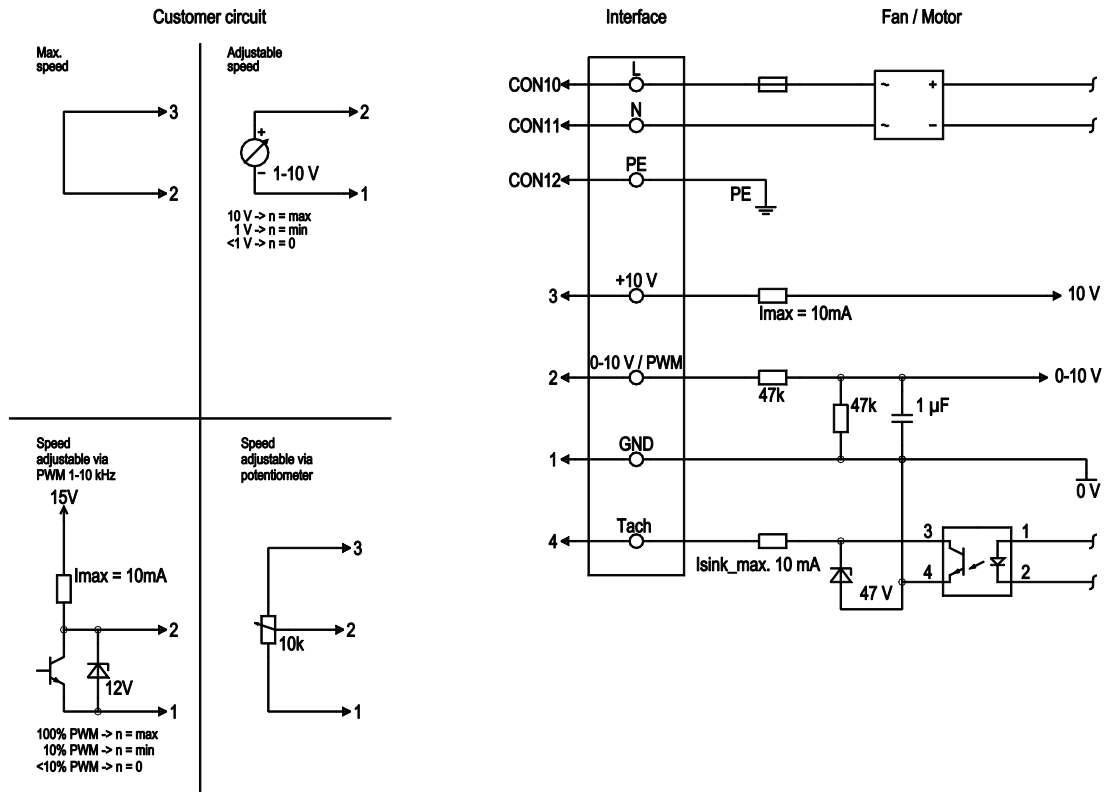
Weight	2.1 kg
Fan size	220 mm
Rotor surface	Thick-film passivated
Impeller material	PA plastic
Housing material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None, open rotor
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 10 mA - Power limiter - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Thermal overload protection for electronics/motor - Line undervoltage detection
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Electronic motor protection
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE

Product drawing



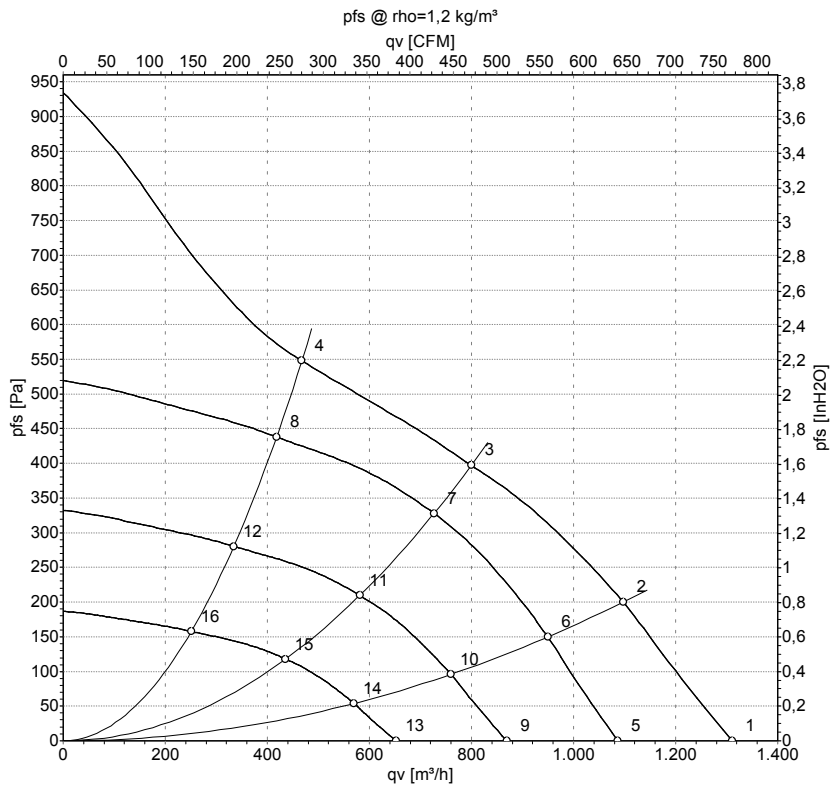
1	Cable PVC AWG20, 3-pole connector housing Stocko MFMP 9586-003-80D-960-000-00
1.1	L (black)
1.2	N (blue)
1.3	PE (green/yellow)
2	Cable PVC AWG22, 4-pole connector housing Stocko MFMP 7238-004-566-960-000-00-G
2.1	GND (blue)
2.2	0-10 V PWM (yellow)
2.3	10 V, 1.1 mA (red)
2.4	Tach (white)
3	Mounting dimensions

Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	CON10	L	black	Supply connection, power supply, phase, see nameplate for voltage range
	CON11	N	blue	Supply connection, power supply, neutral conductor, see nameplate for voltage range
	CON12	PE	green/yellow	Ground connection
	2	0- 10V PWM	yellow	0-10 V / PWM control input, Ri=100 kΩ, SELV
	4	Tach	white	Tach output, open collector, 1 pulse per revolution, Isink max = 10 mA, SELV
	3	+10 V	red	Fixed voltage output 10 VDC +/-3 %, Imax. 10 mA, short-circuit-proof, power supply for ext. devices (e.g. pot), SELV
	1	GND	blue	Reference ground for control interface, SELV

Curves: Air performance 50 Hz



Measurement: LU-142152-1

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	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	115	50	3620	170	2.40	1310	0	770	0.00
2	115	50	3470	170	2.40	1095	200	645	0.80
3	115	50	3250	170	2.40	800	400	470	1.61
4	115	50	3355	170	2.40	470	550	275	2.21
5	115	50	3000	97	1.24	1085	0	640	0.00
6	115	50	3000	112	1.43	950	151	560	0.61
7	115	50	3000	130	1.66	725	329	430	1.32
8	115	50	3000	120	1.55	420	438	245	1.76
9	115	50	2400	49	0.63	870	0	510	0.00
10	115	50	2400	57	0.73	760	97	445	0.39
11	115	50	2400	67	0.85	580	210	340	0.84
12	115	50	2400	62	0.79	335	280	195	1.12
13	115	50	1800	21	0.27	650	0	385	0.00
14	115	50	1800	24	0.31	570	55	335	0.22
15	115	50	1800	28	0.36	435	118	255	0.47
16	115	50	1800	26	0.34	250	158	150	0.63

U = Power supply · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase