

R3G140-AW17-44

EC centrifugal fan

forward-curved

ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2 · D-74673 Mulfingen

Phone +49 7938 81-0

Fax +49 7938 81-110

info1@de.ebmpapst.com

www.ebmpapst.com

Limited partnership · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	R3G140-AW17-44	
Motor	M3G055-CF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	2750
Power consumption	W	100
Current draw	A	0.75
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

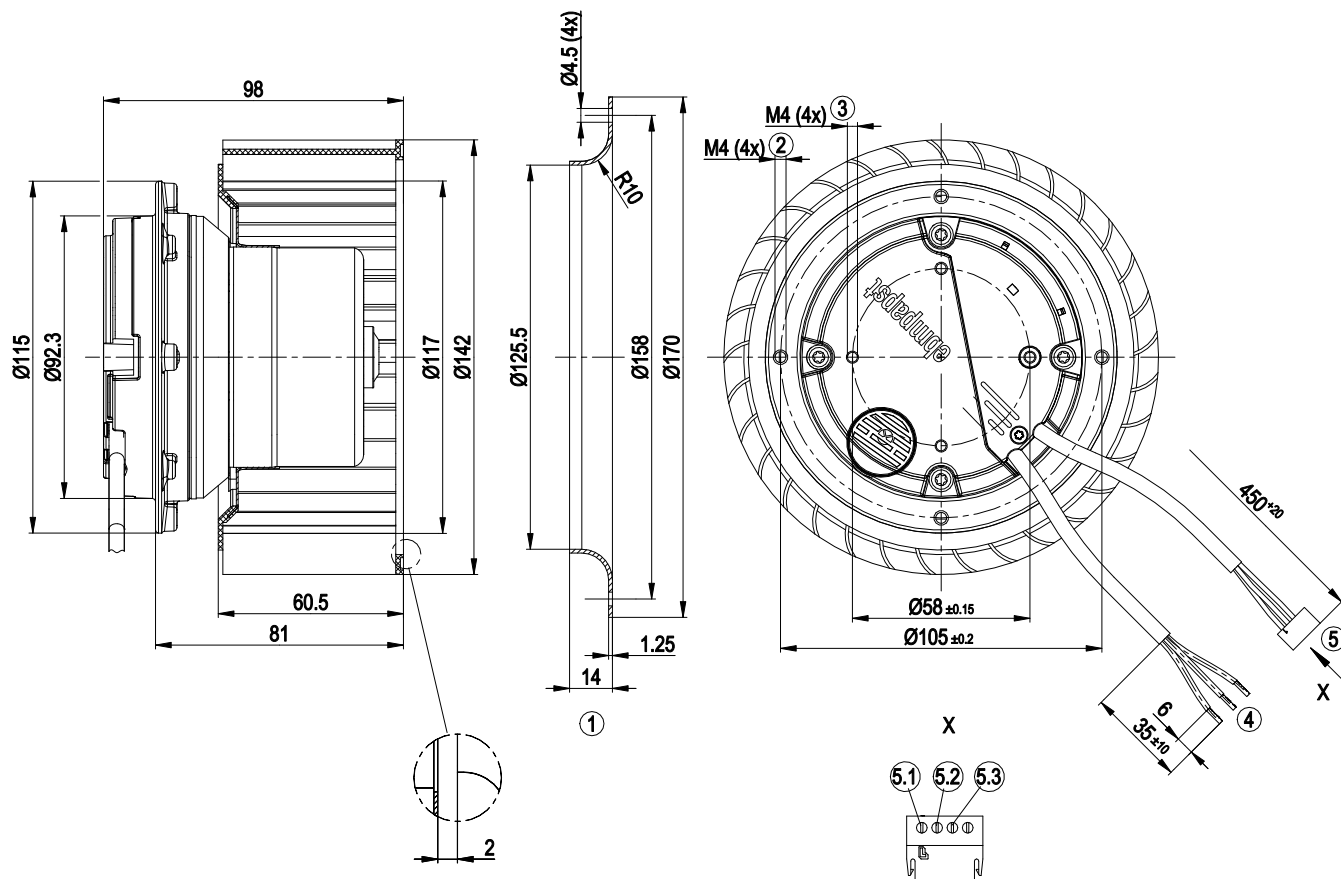
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

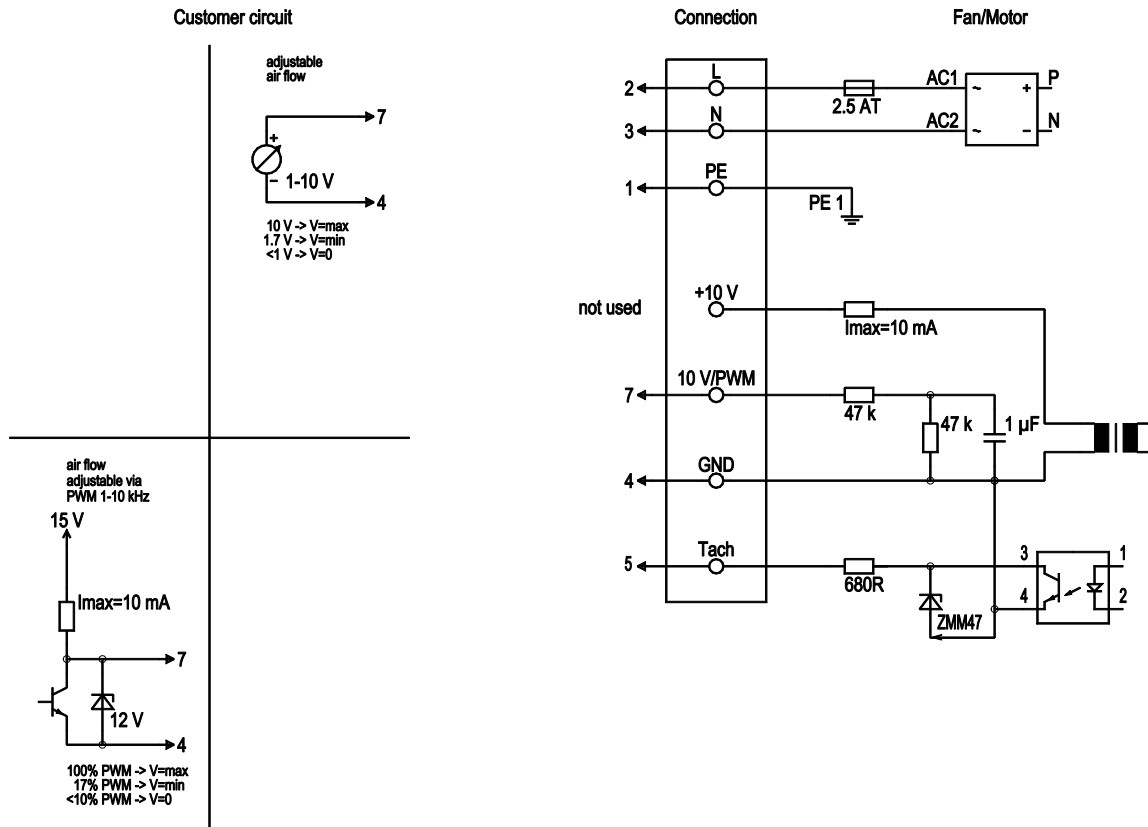
Weight	1.3 kg
Size	140 mm
Motor size	55
Rotor surface	Thick-film passivated
Electronics housing material	Die-cast aluminum
Impeller material	PA plastic
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	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	- Tach output - Motor current limitation - Soft start - Set value input Lin 0-10 VDC / PWM (1.7 V corresponds to V=min, 10 V corresponds to V=max) - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for motor
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Connector with cable
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	VDE

Product drawing



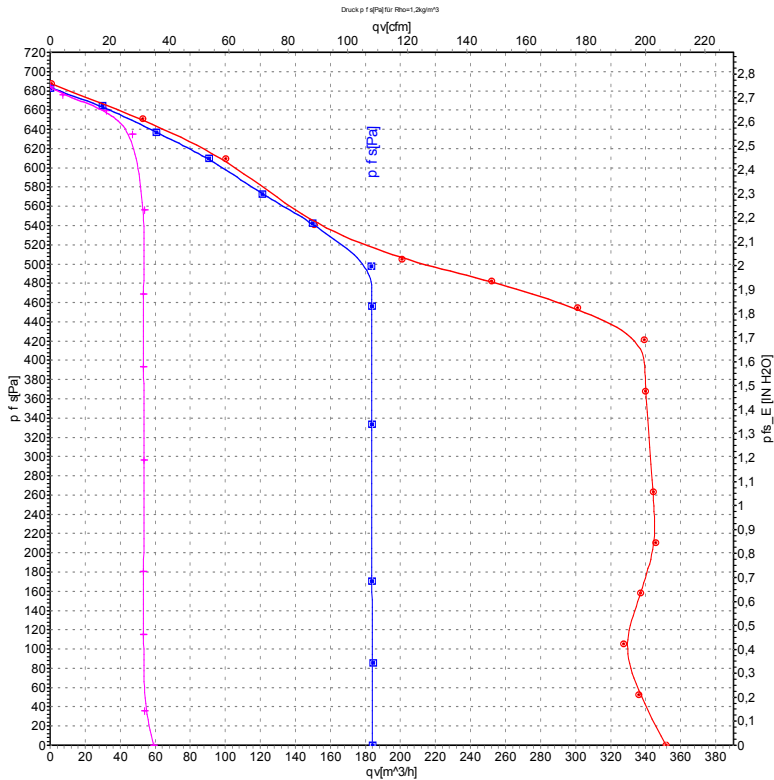
1	Accessory part: Inlet ring: 09576-2-4013 not included in scope of delivery
2	Max. clearance for screw 6 mm
3	Max. clearance for screw 6 mm
4	Cable PVC 3G 0.5 mm ²
5	3x splice
5	Cable PVC 3x 0.25 mm ²
7	4-pole connector Lumberg 3512 04 K13, alternatively Stocko MFMP 7238-004-066-960-000-00-G
5.1	blue (GND)
5.2	yellow (0 - 10 V/PWM)
5.3	white (tach)

Connection diagram



No.	Conn.	Designation	Color	Function/assignment
2	L		brown	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
3	N		blue	Neutral conductor
1	PE		green/yellow	Protective earth
7	0-10 V PWM		yellow	Control input 0-10 V or PWM, electrically isolated
5	Tach		white	Tach output: open collector, 1 pulse per revolution, electrically isolated
6	10V		red	not used
4	GND		blue	GND connection for control interface

Curves: Air performance 50 Hz



Measurement: LU-111232-1
 Measurement: LU-72126-1
 Measurement: LU-72127-1

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 _{ts}	q _v	p _{ts}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa	cfm	in. wg
1	230	50	1495	38	0.29	340	0	200	0.00
2	230	50	1990	57	0.43	340	150	200	0.60
3	230	50	2410	82	0.63	340	300	200	1.20
4	230	50	2740	105	0.79	340	400	200	1.61
5	230	50	790	8.5	0.08	185	0	110	0.00
6	230	50	1735	27	0.20	185	150	110	0.60
7	230	50	2450	48	0.35	185	300	110	1.20
8	230	50	2820	64	0.47	185	400	110	1.61
9	230	50	265	2.80	0.04	50	0	30	0.00
10	230	50	1660	13	0.12	50	150	30	0.60
11	230	50	2775	23	0.17	50	300	30	1.20
12	230	50	2640	34	0.25	50	400	30	1.61

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