8317082563
VFS0140XSLDS

EC centrifugal fan

forward-curved, single-intake

Nominal data

Type	8317082563
Motor	E06004-17 (M3G060-BH)

Phase		1~
Nominal voltage	VAC	220
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min^{-1}	2692
Power consumption	W	119
Current draw	A	0.9
Min. back pressure	Pa	0
Min. back pressure	in. wg	0
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	1.50 kg
Fan size	140 mm
Rotor surface	Thick-film passivated
Impeller material	Plastic
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
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10VDC, max. 10 mA
	- Tach output
	- Power limiter
	- Motor current limitation
	- Soft start
	- Control input 0-10 VDC / PWM
	- Control interface with SELV potential safely disconnected from the mains
	- Overvoltage protection
	- Thermal overload protection for electronics / motor
	- Line undervoltage detection
EMC immunity to interference	According to EN 61000-6-2(industrial environment)
EMC interference emission	According to EN 61000-6-3(household environment)
Touch current acc.IEC 60990	<=3.5 mA
Motor protection	Locked-rotor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	GB12350, EN60034-1, EN60335-1,CCC, CE
Approval	-

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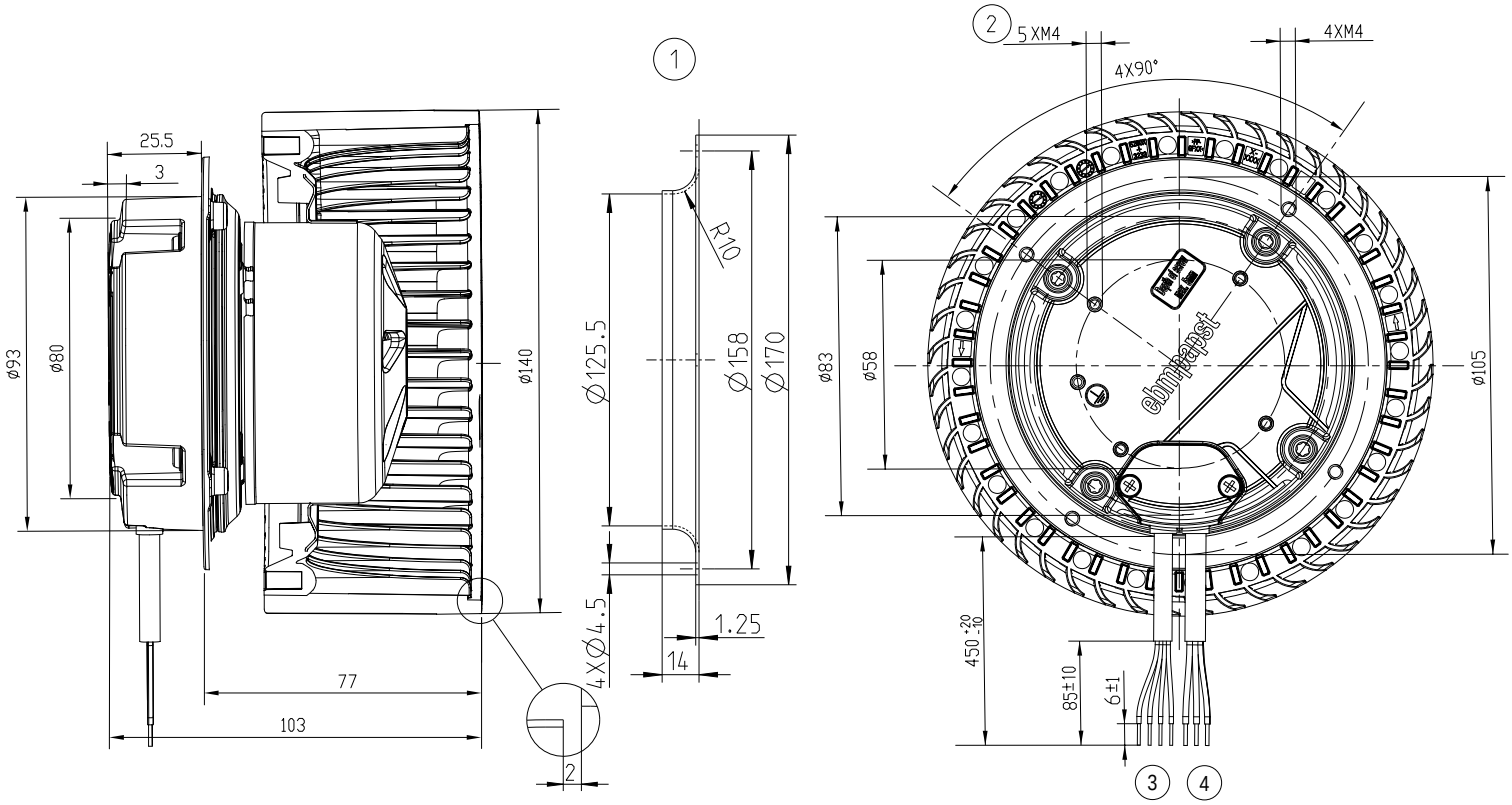
Product drawing



1	Accessory part: Inlet ring 09576-2-4013, not included in scope of delivery
2	Max. clearance for screw 5 mm
3	Cable PVC 4x0.25 mm^2
4	Cable PVC 3x0.5 mm^2

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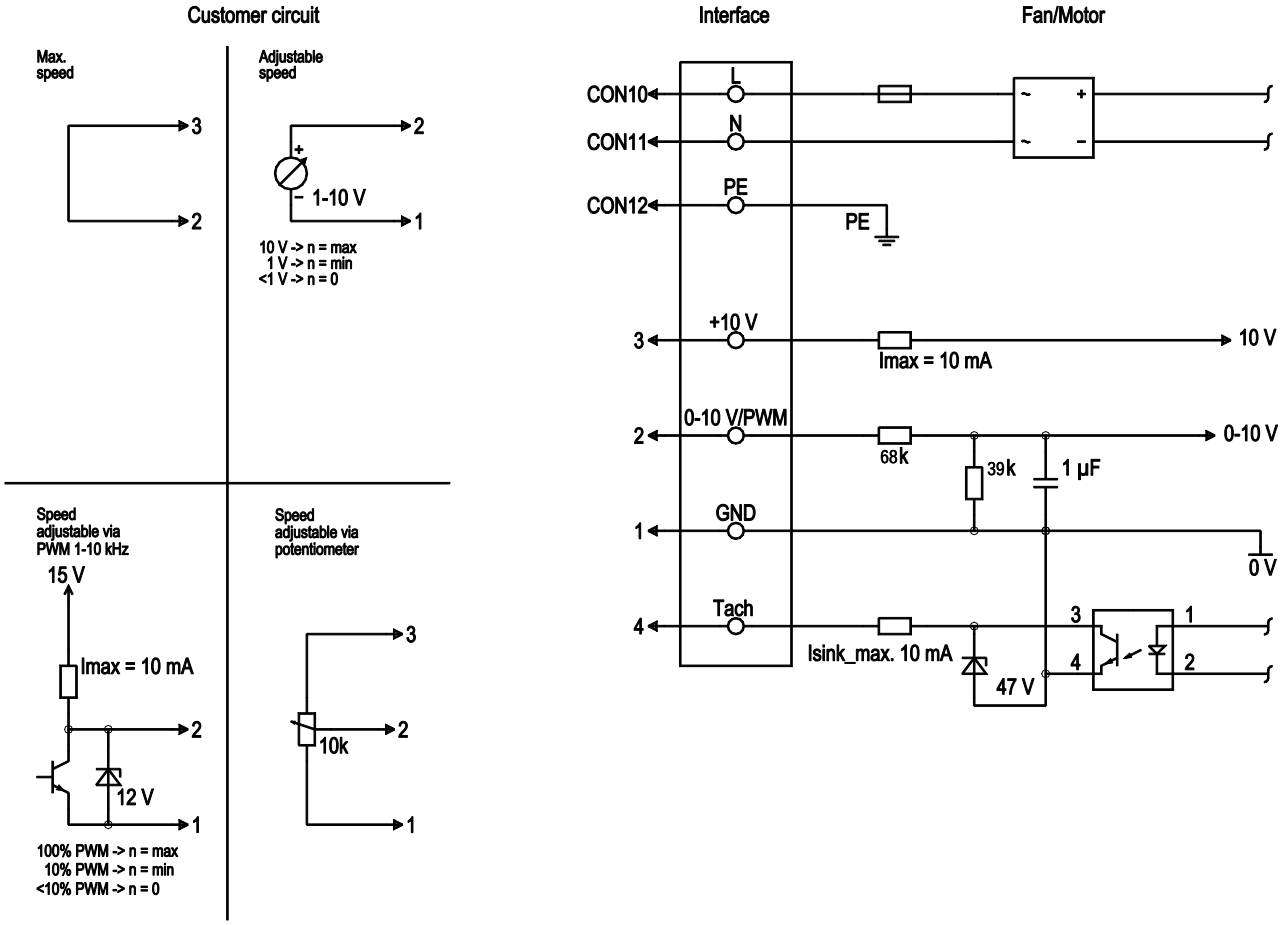
Connection diagram



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	Protective earth
	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
	2	0-10 V / PWM	yellow	0-10 V / PWM control input, Ri=100 kΩ, SELV
	1	GND	blue	Reference ground for control interface, SELV
	4	Tach	white	Tach output, open collector, 1 pulse per revolution, Isink max = 10 mA, SELV

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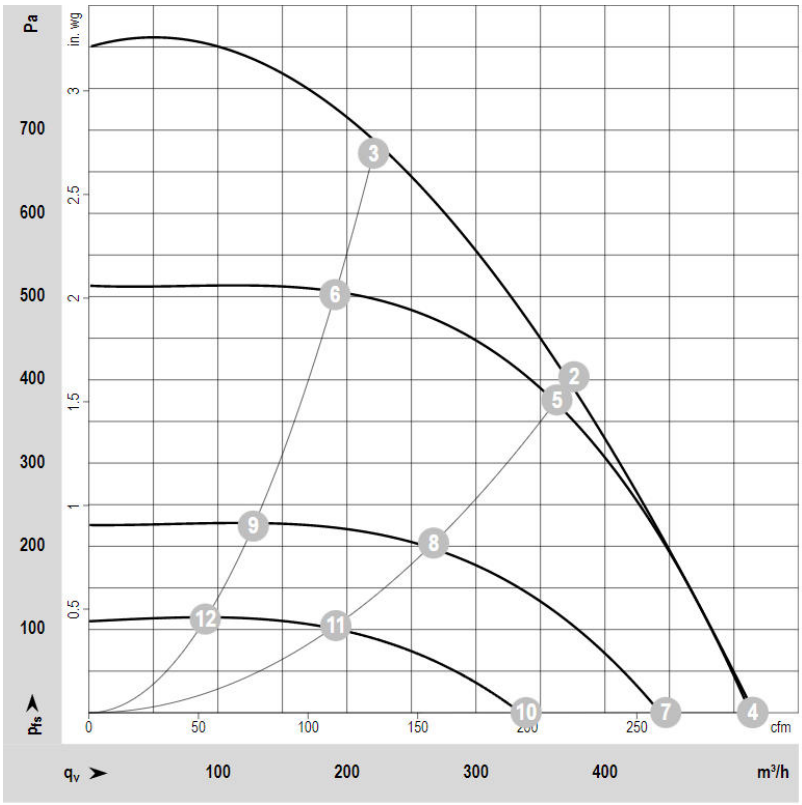
Curves: Air performance 50 Hz



ρ = 1.2 kg/m3 ± 2 %

Measurement: ID 16247

Test housing: AL Housing PN: 37007-2-2517 (36950-2-2517+03489-2-2517)
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.

Fan performance

Index	U	f	n	Ped	I	LpAin	LwAin	qv	pfs	qv	Pfs
	V	Hz	min-1	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in.wg
1	230	50	1913	104.0	0.79	67	73	515	0	303.4	0
2	230	50	2692	118.5	0.91	68	73	376	407	221.5	1.6
3	230	50	3454	118.9	0.90	71	76	221	671	130.2	2.7
4	230	50	1920	104.9	0.80	67	73	514	0	302.8	0
5	230	50	2604	107.7	0.82	67	72	363	380	213.8	1.5
6	230	50	3006	76.7	0.61	67	72	191	503	112.5	2.0
7	230	50	1679	69.9	0.56	64	69	447	0	263.3	0
8	230	50	1937	44.0	0.37	59	65	267	205	157.3	0.8
9	230	50	2044	26.9	0.23	57	62	127	225	74.8	0.9
10	230	50	1275	31.0	0.27	57	63	339	0	199.7	0
11	230	50	1401	18.5	0.17	50	57	191	105	112.5	0.4
12	230	50	1466	12.2	0.12	47	53	90	113	53.0	0.4

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
q_V = Air flow · p_{fs} = Pressure increase