

R3G355-AM08-30

EC centrifugal fan

backward-curved, single-intake



R3G355-AM08-30 ebmpapst Datasheet

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Nominal data

Type	R3G355-AM08-30	
Motor	M3G084-FA	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	1560
Power consumption	W	178
Current draw	A	3.7
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

Data according to Commission Regulation (EU) 327/2011

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	64.7	45
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		81.7	62
05 Variable speed drive		Yes	

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

09 Power consumption P_e	kW	0.24
09 Air flow q_v	m ³ /h	1805
09 Pressure increase p_{fs}	Pa	284
10 Speed (rpm) n	min ⁻¹	1525
11 Specific ratio*		1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

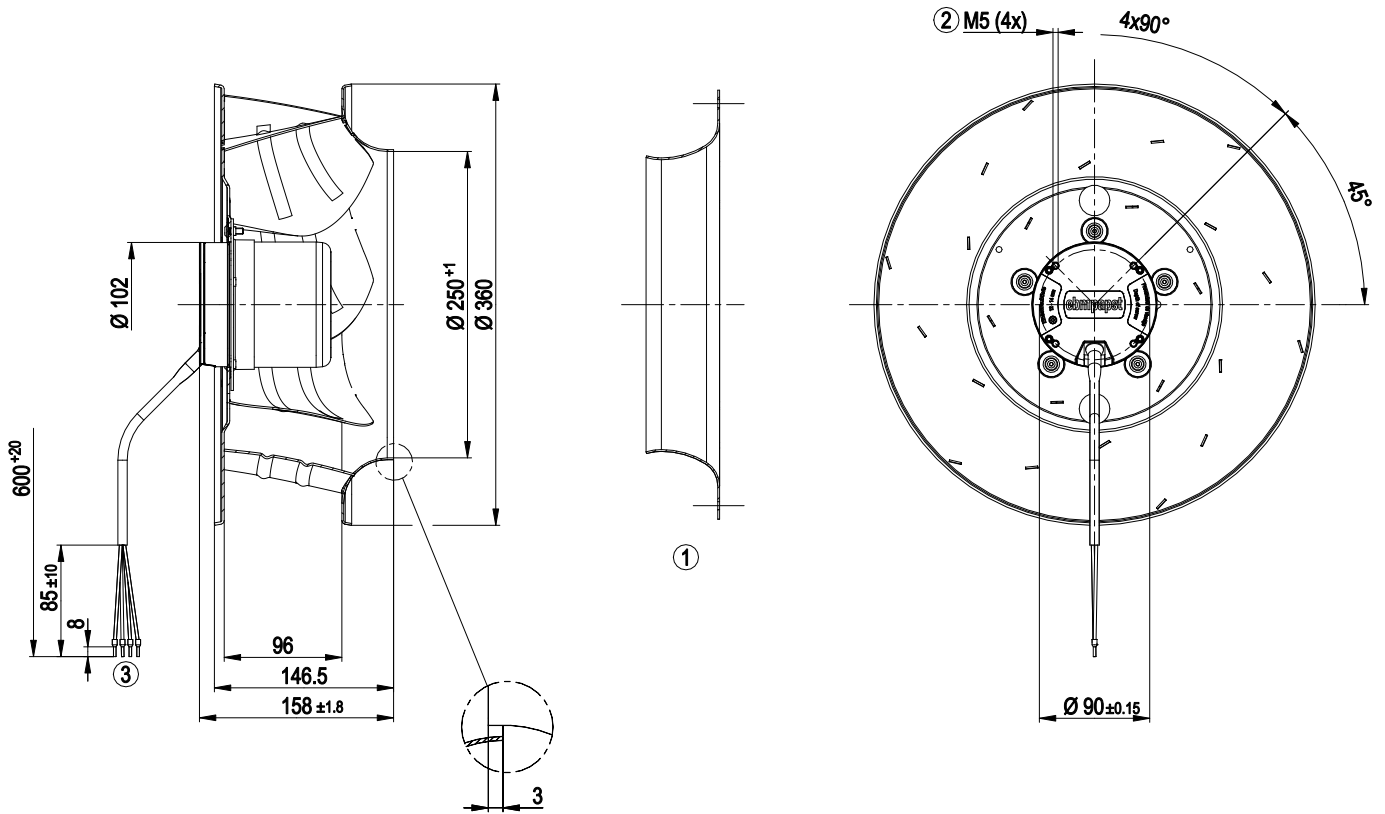
LU-119970



Technical description

Weight	4.9 kg
Fan size	355 mm
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	Sheet aluminum
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP42
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	<ul style="list-style-type: none"> - Tach output - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from supply - Thermal overload protection for motor
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60950-1; CE
Approval	CSA C22.2 No. 100; UL 1004-1; CCC; EAC

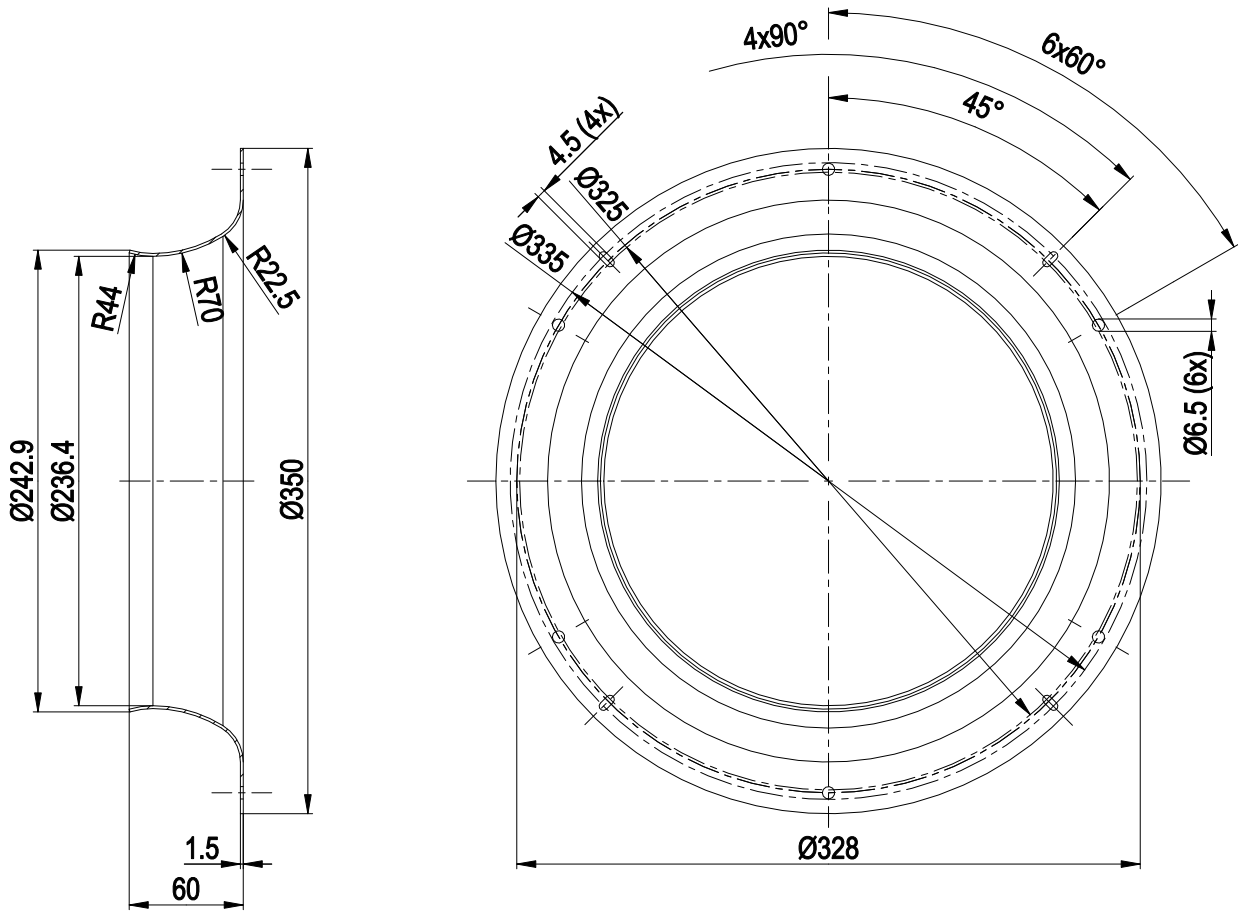
Product drawing



1	Accessory part: inlet ring 35560-2-4013 not included in scope of delivery
2	Max. clearance for screw 14 mm
3	Cable PVC AWG16, 4x crimped ferrules



Accessory part

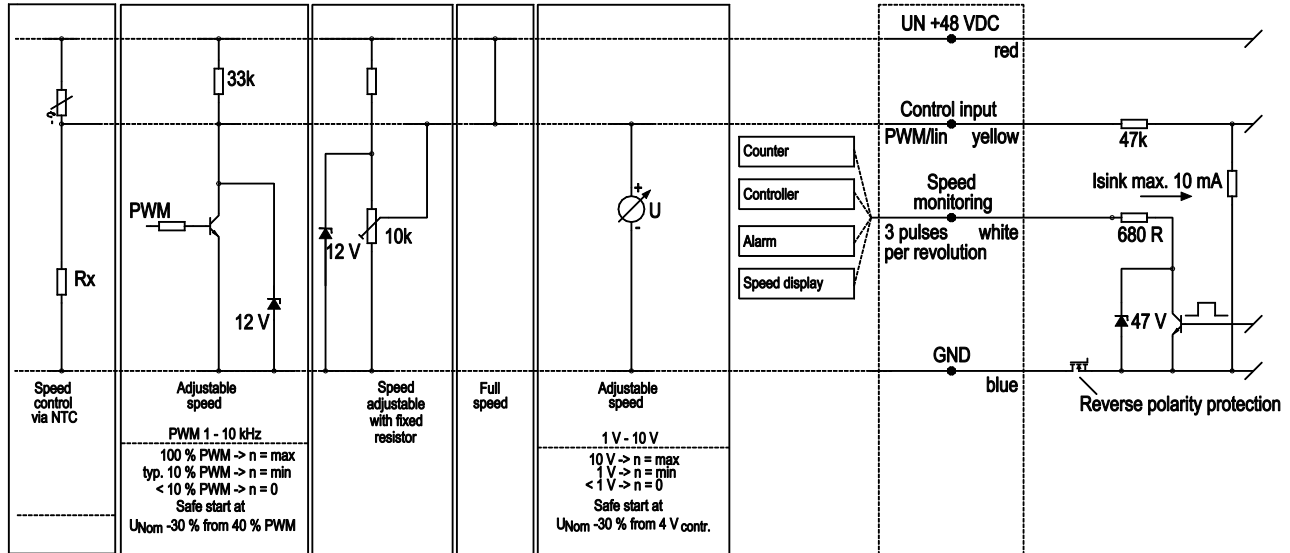


Inlet ring 35560-2-4013

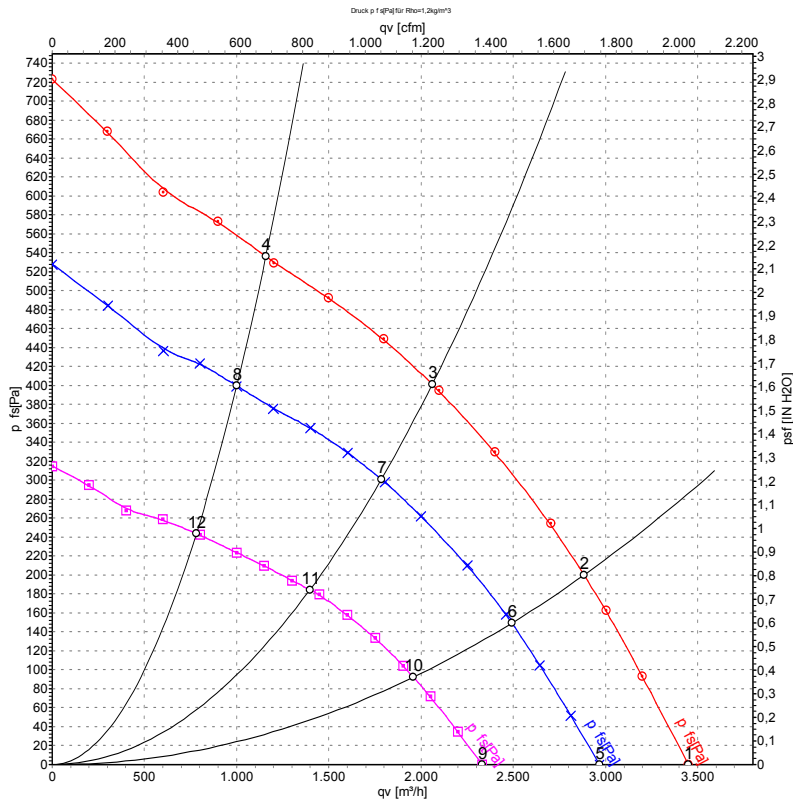


Connection diagram

Customer circuit
Application notes for various control options



Curves: Air performance



Measurement: LU-119983-1
 Measurement: LU-119970-1
 Measurement: LU-119980-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. 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	p _{fs}	q _v	p _{fs}
	V	min ⁻¹	W	A	m ³ /h	Pa	cfm	in. wg
1	57	1825	292	5.20	3450	0	2030	0.00
2	57	1775	350	6.24	2885	200	1695	0.80
3	57	1755	376	6.72	2060	402	1215	1.61
4	57	1790	340	6.06	1160	536	680	2.15
5	48	1560	178	3.70	2970	0	1745	0.00
6	48	1540	231	4.88	2490	150	1465	0.60
7	48	1525	248	5.24	1785	300	1050	1.20
8	48	1550	223	4.71	1000	400	590	1.61
9	36	1230	93	2.60	2330	0	1370	0.00
10	36	1210	113	3.16	1960	92	1155	0.37
11	36	1200	121	3.40	1395	185	820	0.74
12	36	1215	109	3.05	780	244	460	0.98

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

