

# R3G560-AG07-07

Emerson Network Power S.R. L.

# EC centrifugal fan

backward curved, single inlet



R3G560-AG07-07 ebmpapst Datasheet

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## Nominal data

Type	R3G560-AG07-07	
Motor	M3G150-FF	
Phase		3~
Nominal voltage	VAC	400
Nominal voltage range	VAC	380 .. 480
Frequency	Hz	50/60
Type of data definition		ml
Speed	min <sup>-1</sup>	1350
Power input	W	2300
Current draw	A	3.6
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit  
Subject to alterations

## Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes
Specific ratio*	1.01

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

		Actual	Request 2013	Request 2015
Overall efficiency $\eta_{es}$	%	59.8	51.4	55.4
Efficiency grade N		66.4	58	62
Power input $P_{ed}$	kW	2.36		
Air flow $q_v$	m <sup>3</sup> /h	8010		
Pressure increase $p_{fs}$	Pa	599		
Speed n	min <sup>-1</sup>	1360		

Data definition with optimum efficiency. LU-108580  
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



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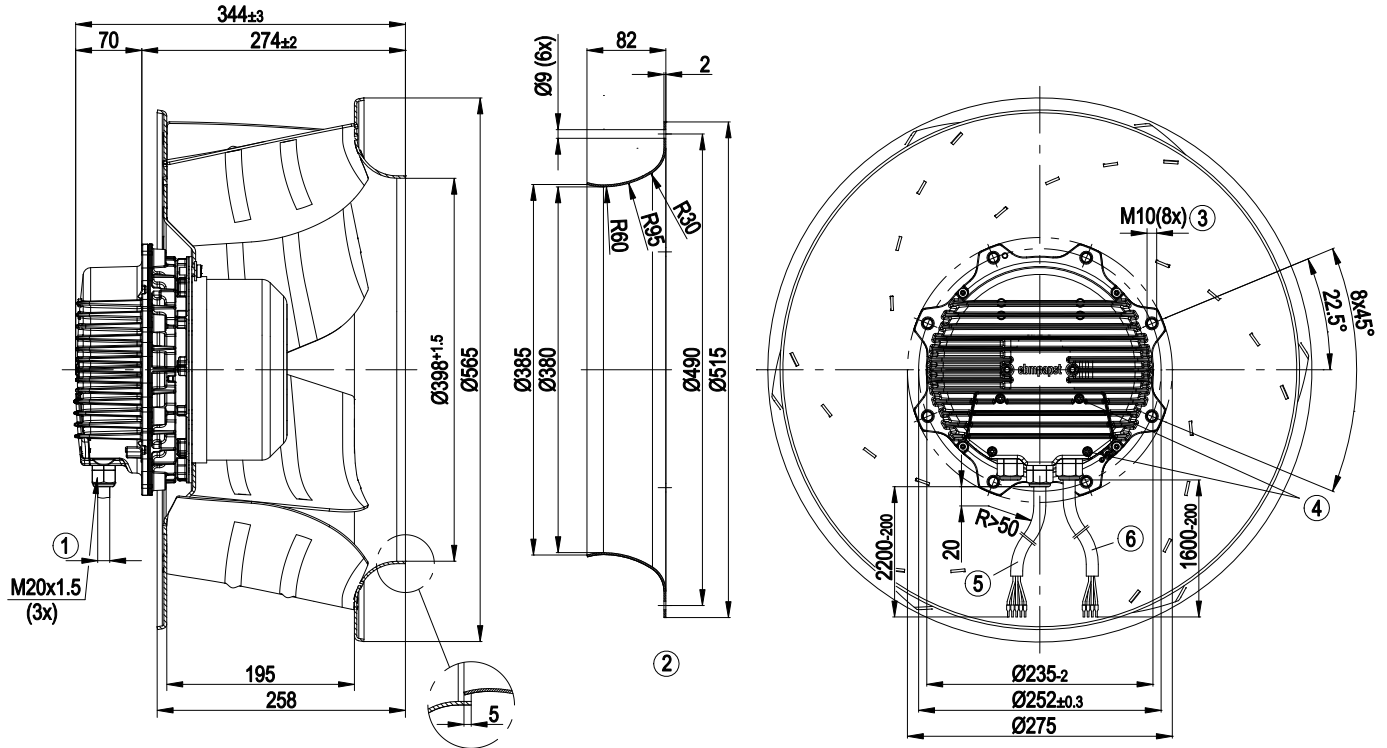
backward curved, single inlet

## Technical features

<b>Mass</b>	24 kg
<b>Size</b>	560 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of electronics housing</b>	Die-cast aluminum
<b>Material of impeller</b>	Aluminium sheet
<b>Number of blades</b>	9
<b>Direction of rotation</b>	Clockwise, seen on rotor
<b>Type of protection</b>	IP 54
<b>Insulation class</b>	"F"
<b>Humidity class</b>	F4-1
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	-40 °C
<b>Mounting position</b>	Any (humidity class I)
<b>Condensate discharge holes</b>	Rotor-side
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Technical features</b>	<ul style="list-style-type: none"><li>- Output 10 VDC, max. 10 mA</li><li>- Output 20 VDC, max. 50 mA</li><li>- Output for slave 0-10 V</li><li>- Input for sensor 0-10 V or 4-20 mA</li><li>- Alarm relay</li><li>- Integrated PID controller</li><li>- Motor current limit</li><li>- PFC, passive</li><li>- RS485 ebmBUS</li><li>- Soft start</li><li>- Control input 0-10 VDC / PWM</li><li>- Control interface with SELV potential safely disconnected from the mains</li><li>- Over-temperature protected electronics / motor</li><li>- Line undervoltage / phase failure detection</li></ul>
<b>EMC interference immunity</b>	Acc. to EN 61000-6-2 (industrial environment)
<b>EMC interference emission</b>	Acc. to EN 61000-6-3 (household environment)
<b>Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)</b>	<= 3.5 mA
<b>Motor protection</b>	Reverse polarity and locked-rotor protection
<b>Cable exit</b>	Lateral
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Product conforming to standard</b>	EN 61800-5-1; CE
<b>Approval</b>	UL 2111; VDE; EAC; CSA C22.2 Nr.77



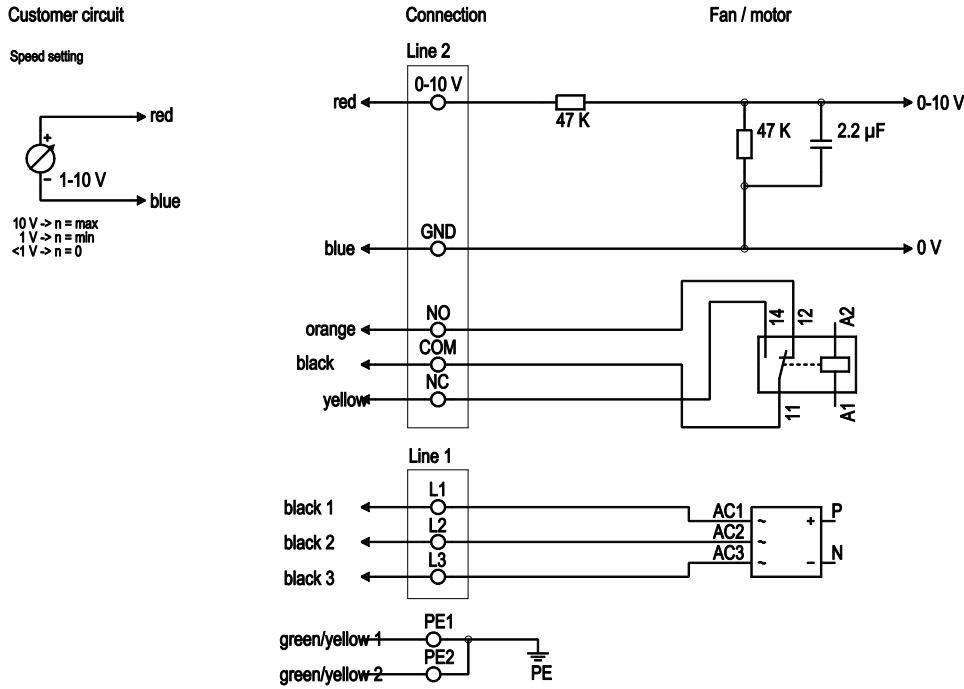
Product drawing



1	Cable diameter: min. 4 mm, max. 10 mm; tightening torque: 4±0.6 Nm
2	Accessory part: Inlet nozzle 63071-2-4013 not included in delivery, other inlet nozzles on request
3	Depth of screw max. 25 mm
4	Tightening torque, terminal box cover 3.5±0.5 Nm
5	Connection line AWG20; 5x end splices, crimped core-end sleeves
6	Connection line AWG18; 4 x crimped core-end sleeves

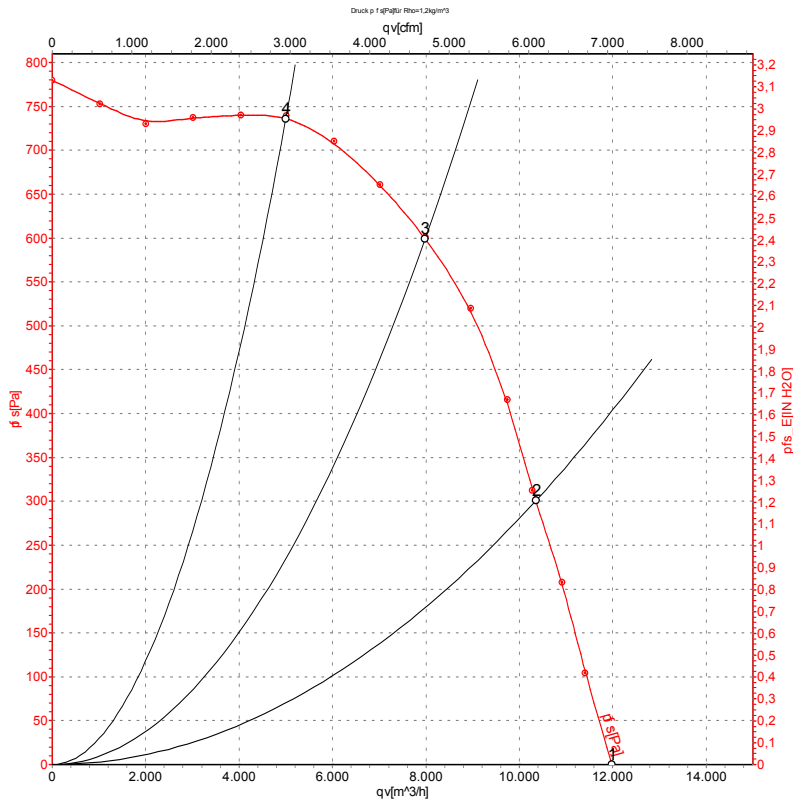


## Connection screen



No.	Conn.	Designation	Colour	Function / assignment
1		PE1	green/yell 1	Protective ground connection
1		PE2	green/yell 2	Protective ground connection
1		L1, L2, L3	black	Supply voltage, 50/60 Hz
2		NC	yellow	Floating status message contact, normally closed connection
2		COM	black	Floating status message contact, changeover contact, common connection (2 A, max. 250 VAC, min. 10 mA, AC1)
2		NO	orange	Floating status message contact, normally open connection
2		GND	blue	Reference mass for control interface, SELV
2		0-10 V	red	Use control / actual value input 0-10 VDC, impedance 100 kΩ only as alternative to 4-20 mA input, SELV

## Charts: Air flow 50 Hz Y



Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

	Conn.	U	f	n	P <sub>ed</sub>	I	qv	P <sub>fs</sub>
		V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	Y	400	50	1350	1332	2.18	11980	0
2	Y	400	50	1350	1787	3.19	10350	300
3	Y	400	50	1350	2300	3.90	7980	602
4	Y	400	50	1350	1882	3.50	5000	739

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P<sub>ed</sub> = Power input · I = Current draw · qv = Air flow · P<sub>fs</sub> = Pressure increase

