R3G560-AH07-09

EC centrifugal fan

backward curved, single inlet



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Nominal data

Type	**R3G560-AH07-09**
Motor	**M3G150-IF**

Phase		3~
Nominal voltage	VAC	200
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed	min^{-1}	1510
Power input	W	2900
Current draw	A	9.2
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	45

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

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Technical features

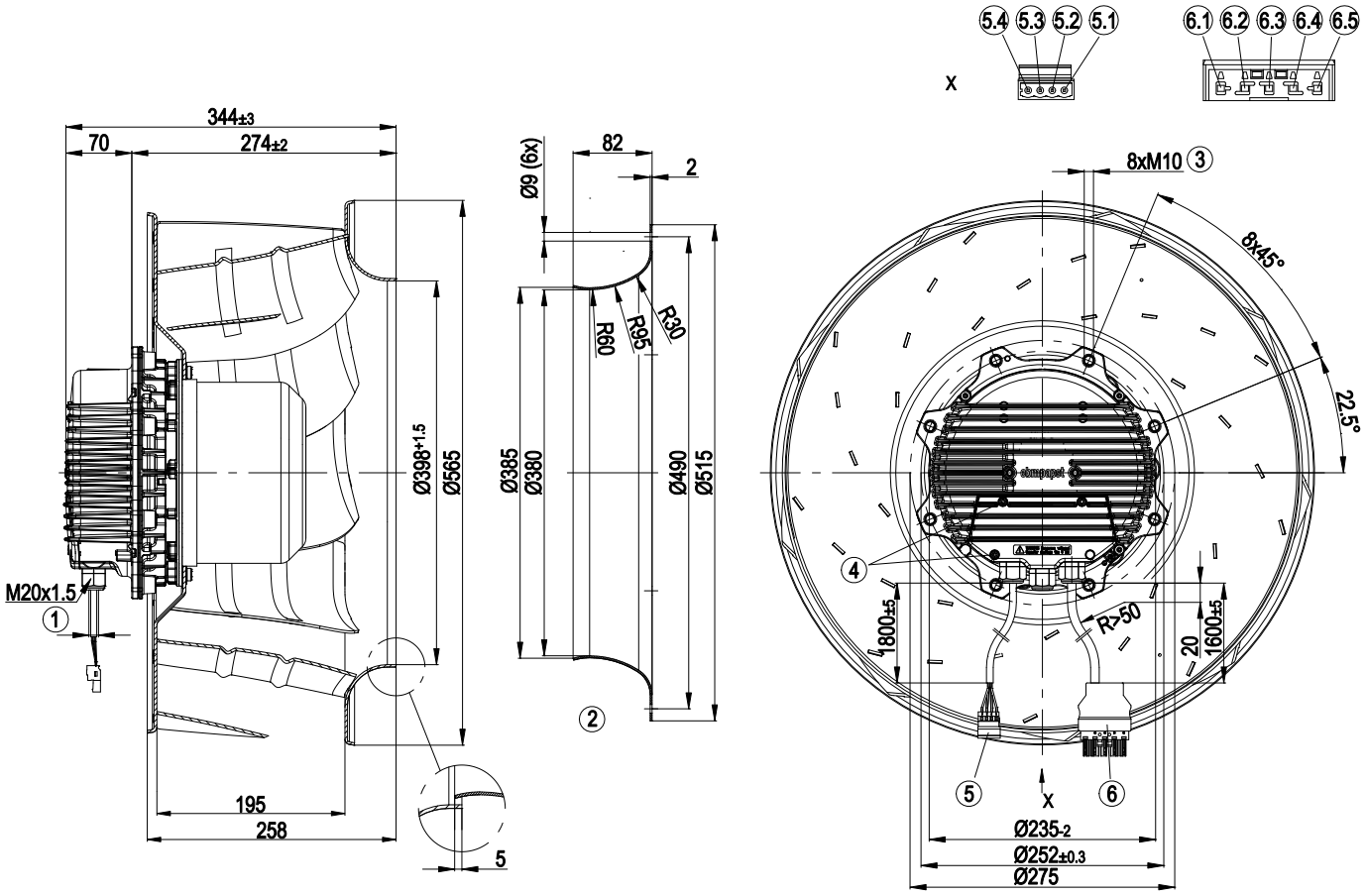
Mass	29.5 kg
Size	560 mm
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium
Material of impeller	Aluminium sheet
Number of blades	9
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity class	F4-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal or rotor on bottom
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 10 mA - Output 20 VDC, max. 50 mA - Output for slave 0-10 V - Input for sensor 0-10 V or 4-20 mA - Alarm relay - Integrated PID controller - Run monitoring - Motor current limit - PFC, passive - RS485 ebmBUS - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Over-temperature protected electronics / motor - Line undervoltage / phase failure detection
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Electrical leads	With plug
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; CE
Approval	EAC

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Product drawing



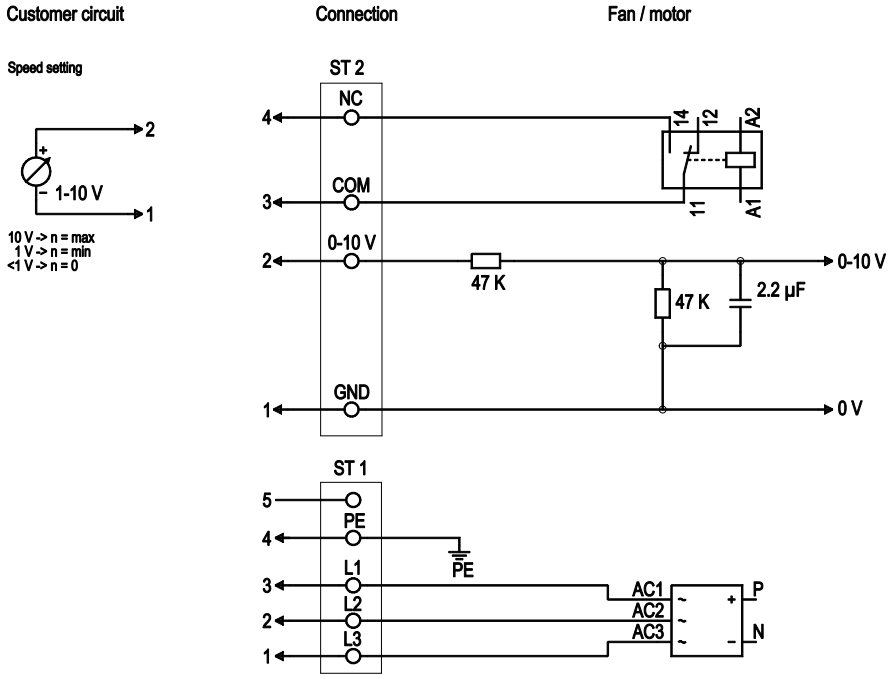
X	View X
1	Cable diameter: min. 4 mm, max. 10 mm; tightening torque: 4±06 Nm
2	Accessory part: Inlet nozzle 63071-2-4013 not included in the standard scope of delivery, other inlet nozzles on request
3	Depth of screw max. 25 mm
4	Tightening torque, terminal box cover 2.5±0.4 Nm
5	4-pole strip, Wago no. 231-604
5.1	GND
5.2	0 - 10 V / PWM
5.3	COM
5.4	NC
6	Plug with strain relief, Wago no. 0770-001/K011-0174/0000-0300
6.1	- (Not assigned)
6.2	PE
6.3	L1
6.4	L2
6.5	L3

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Connection screen



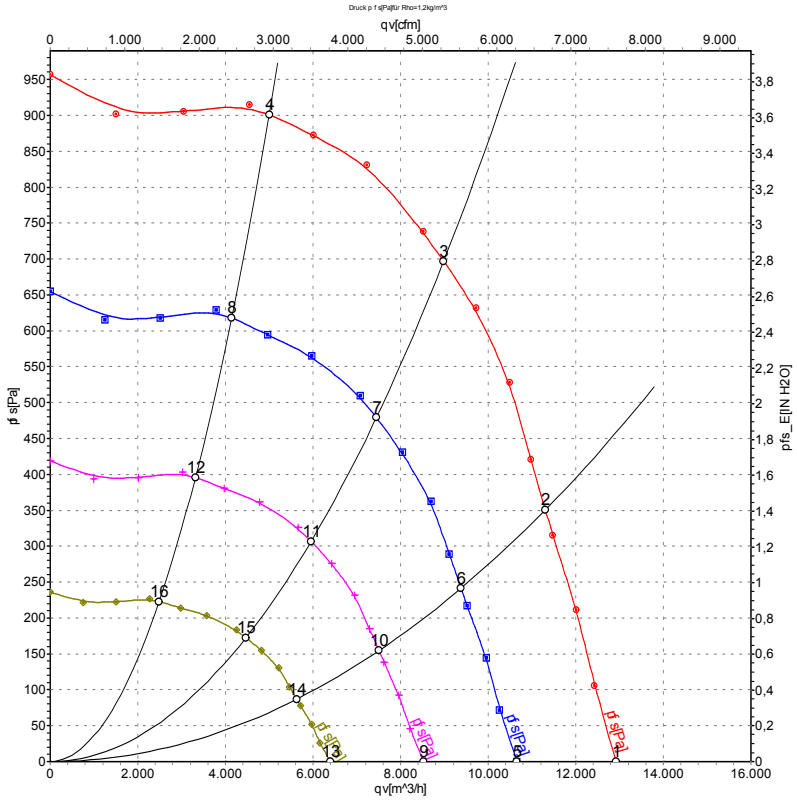
No.	Conn.	Designation	Function / assignment
ST 1	1, 2, 3	L1, L2, L3	Supply voltage, 50/60 Hz
ST 1	4	PE	Protective ground connection
ST 1	5	-	not assigned
ST 2	1	GND	Reference mass for control interface
ST 2	2	0-10 V	Use control / actual value input 0-10 VDC, impedance 100 kOhm only as alternative to 4-20 mA input, SELV
ST 2	3	COM	Floating status message contact, changeover contact, common connection (2 A, max. 250 VAC, min. 10 mA, AC1)
ST 2	4	NC	Floating status message contact and run monitoring, normally closed connection or n<80 rpm

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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 ebm-papst. 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_{ed}	I	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	Y	200	50	1510	1840	5.95	12920	0
2	Y	200	50	1510	2445	7.87	11310	350
3	Y	200	50	1510	2900	9.20	8985	700
4	Y	200	50	1510	2444	7.77	5005	900
5	Y	200	50	1250	1034	3.34	10660	0
6	Y	200	50	1250	1396	4.49	9380	241
7	Y	200	50	1250	1658	5.28	7450	480
8	Y	200	50	1250	1388	4.41	4145	619
9	Y	200	50	1000	529	1.71	8525	0
10	Y	200	50	1000	715	2.30	7505	154
11	Y	200	50	1000	849	2.70	5960	307
12	Y	200	50	1000	711	2.26	3315	396
13	Y	200	50	750	223	0.72	6395	0
14	Y	200	50	750	302	0.97	5630	87
15	Y	200	50	750	358	1.14	4470	173
16	Y	200	50	750	300	0.95	2485	223

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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