

W3G350-CG03-32

EC axial fan - HyBlade®

sickled blades (S series)

Wall ring with guard grille

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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

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Nominal data

Type	W3G350-CG03-32	
Motor	M3G055-DF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		me
State		prelim.
Speed	min ⁻¹	1115
Power input	W	85
Current draw	A	0.73
Max. back pressure	Pa	60
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



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Technical features

Mass	4.6 kg
Size	350 mm
Surface of rotor	Thick layer passivated
Material of blades	PP plastic
Material of wall ring	Sheet steel, pre-galvanised and coated in black plastic (RAL 9005)
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None, open rotor
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Over-temperature protected electronics / motor
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 55022 (Class B, household environment), on account of the installation conditions, ferritic damping in the connection line may be required for the application.
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 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	EN 60335-1; CE

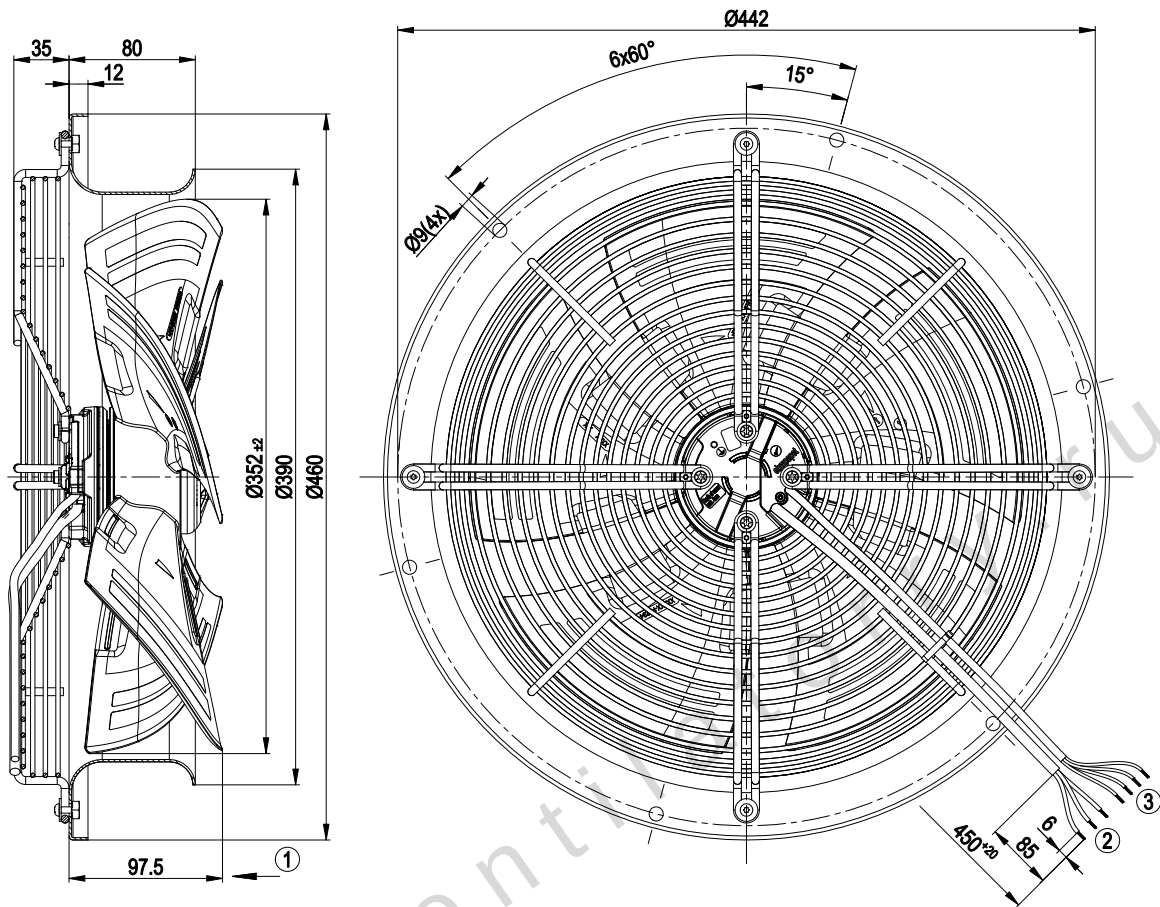
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Product drawing



1	Direction of air flow "V"
2	Connection line PVC 3x AWG20, 3x brass lead tips crimped
3	Connection line PVC 4xAWG22, 4x brass lead tips crimped

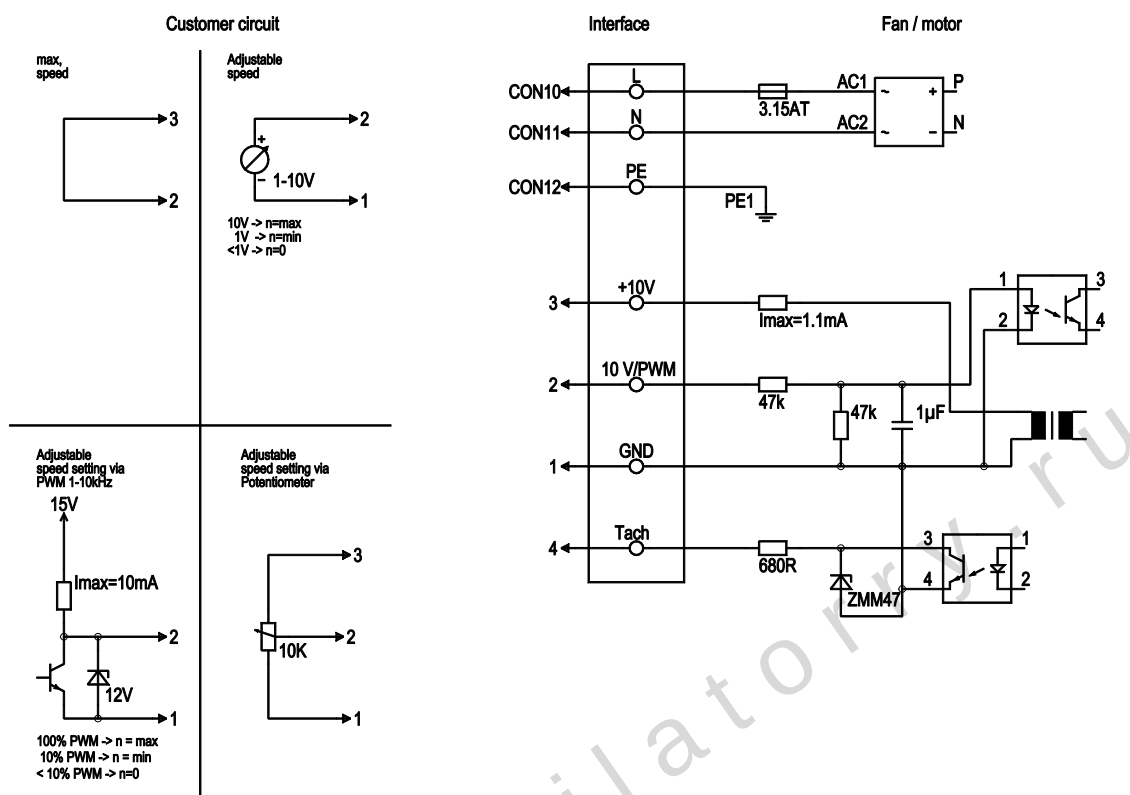
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Connection screen



Line	No.	Signal	Colour	Function / assignment
	CON10	L	black	Power supply 230 VAC, 50-60 Hz, for voltage range refer to rating plate
	CON11	N	blue	Neutral conductor
	CON12	PE	green/yellow	Protective earth
	1	GND	blue	GND - Connection for control interface
	2	0- 10V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	3	10V/ max 1.1mA	red	Voltage output 10V/ 1.1mA, electrically isolated, not short-circuit-proof.
	4	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated

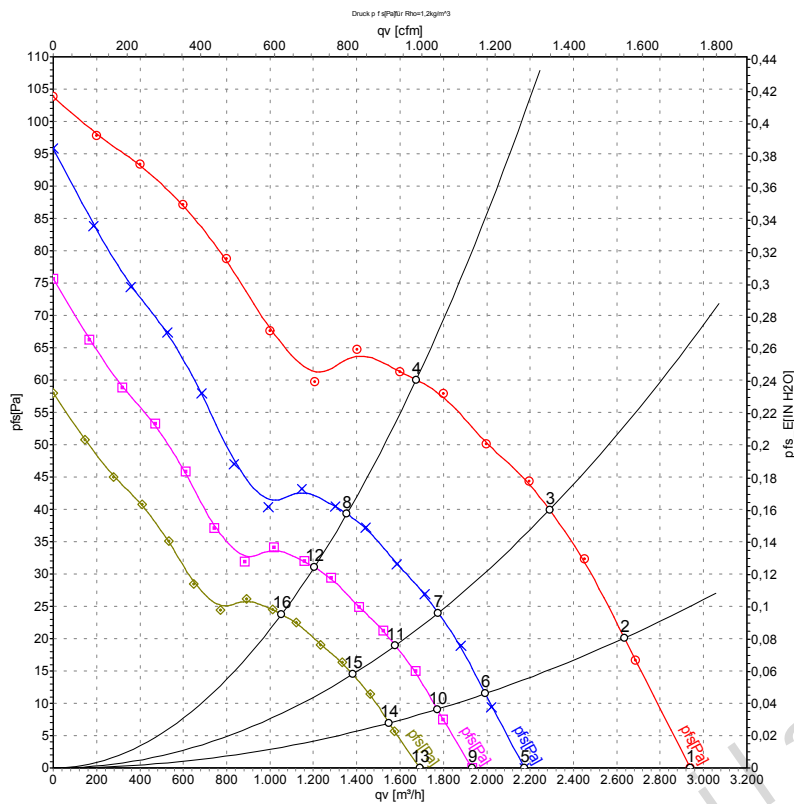
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Charts: Air flow 50 Hz



Measurement: LU-132710

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

	Stage	U	f	n	P _{ed}	I	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa
1	2	230	50	1215	75	0.63	2940	0
2	2	230	50	1190	80	0.67	2635	20
3	2	230	50	1160	84	0.70	2290	40
4	2	230	50	1115	85	0.73	1675	60
5	2	230	50	900	30	0.26	2175	0
6	2	230	50	900	34	0.29	1995	11
7	2	230	50	900	39	0.33	1775	24
8	2	230	50	900	45	0.38	1355	39
9	2	230	50	800	21	0.18	1930	0
10	2	230	50	800	24	0.21	1770	9
11	2	230	50	800	27	0.23	1580	19
12	2	230	50	800	31	0.26	1205	31
13	2	230	50	700	14	0.12	1690	0
14	2	230	50	700	16	0.14	1550	7
15	2	230	50	700	18	0.15	1380	14
16	2	230	50	700	21	0.18	1055	24

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