W3G350-DE01-15

EC axial fan

sickled blades (S series)

Wall ring with guard grille

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Nominal data

Type	**W3G350-DE01-15**
Motor	**M3G055-DF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed (rpm)	min^{-1}	1350
Power input	W	85
Current draw	A	0.70
Max. back pressure	Pa	45
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	55

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	3.3 kg
Size	350 mm
Surface of rotor	Thick layer passivated
Material of electronics housing	Die-cast aluminium
Material of impeller	PP plastic
Material of wall ring	Plastic, PP
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54; Depending on installation and position
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
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 10 mA - Output limit - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Over-temperature protected electronics / motor - Line undervoltage detection
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 61000-6-3 (household environment)
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

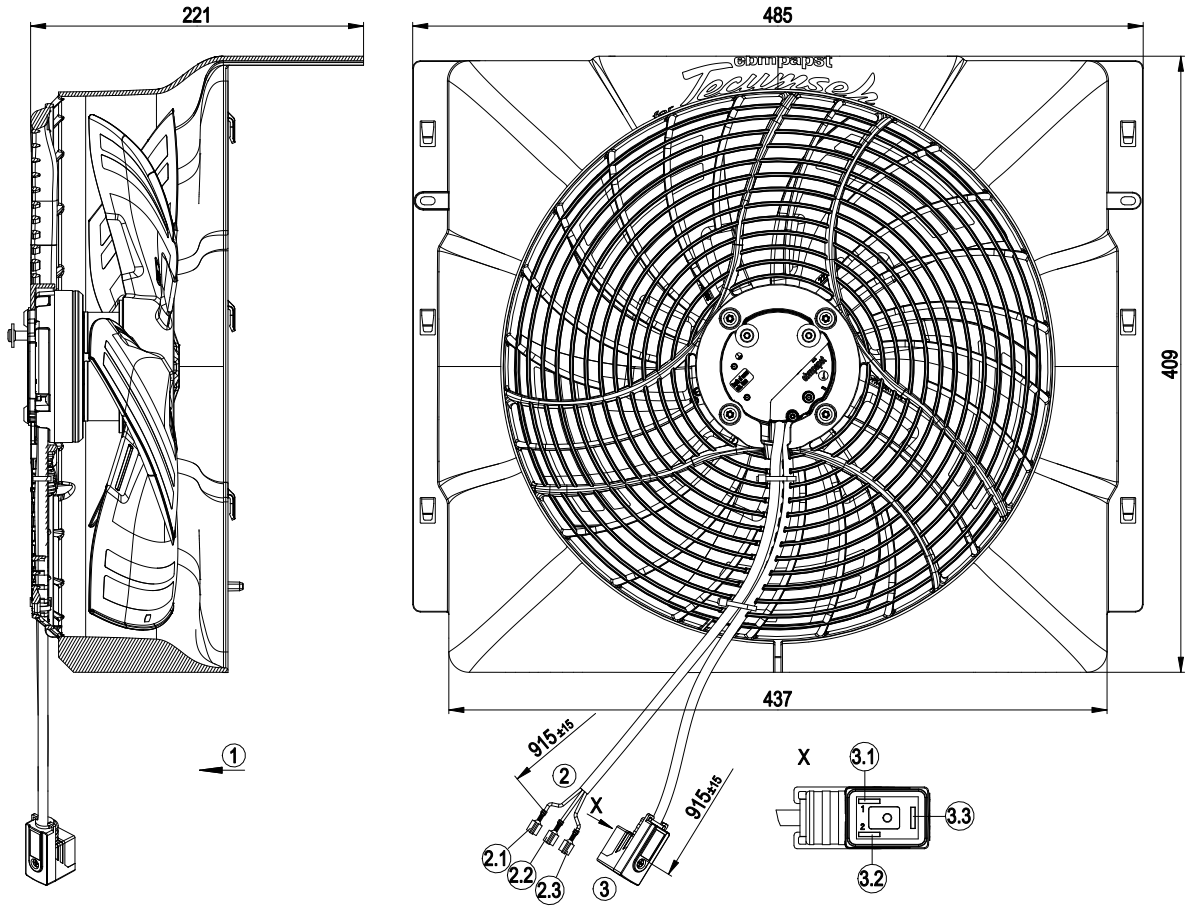
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Product drawing



1	Direction of air flow "V"
2	Mains line AWG20; 3x threaded pin 6.3x0.8 crimped
2.1	black
2.2	green/yellow
2.3	blue
3	Control line with connector housing
3.1	+10 V
3.2	0 V/GND
3.3	0-10 V

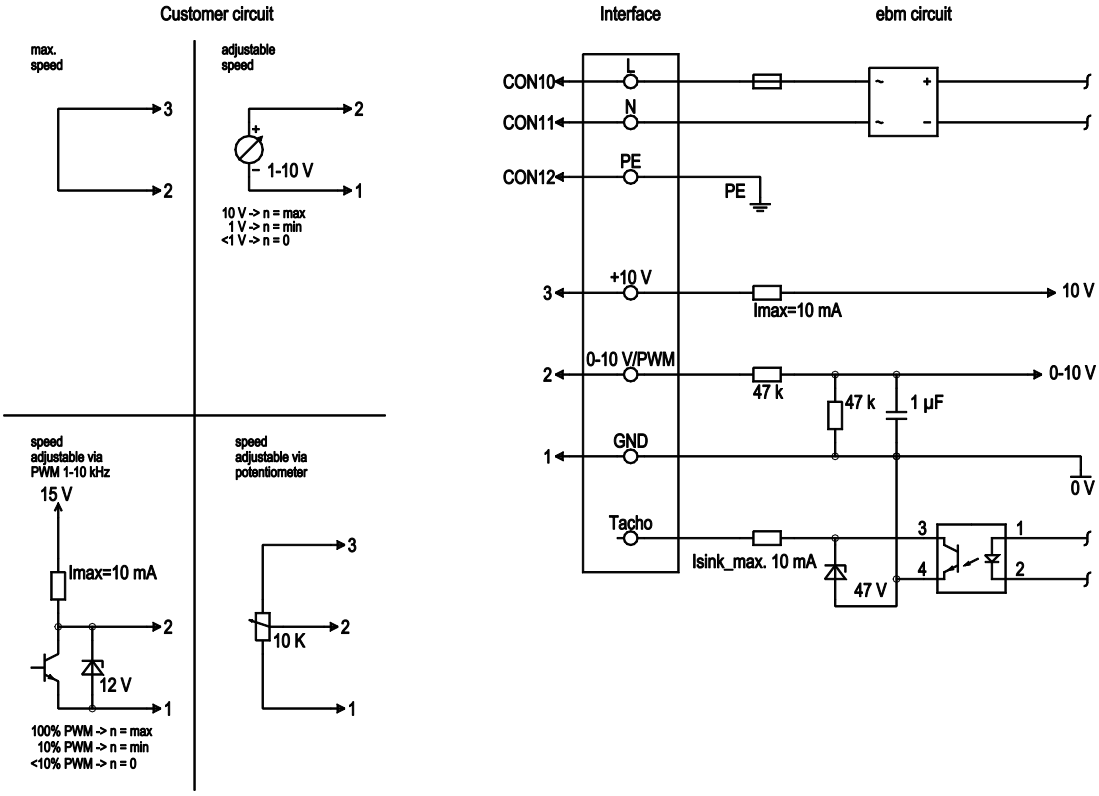
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Connection screen



No.	Conn.	Designation	Colour	Function / assignment
	CON10	L	black	Mains connection, power supply, phase, see type plate for voltage range
	CON11	N	blue	Mains connection, power supply, neutral conductor, see type plate for voltage range
	CON12	PE	green/yellow	Earth connection
	2	0- 10V PWM	black	0-10 V/PWM control input, Ri=100 kΩ, SELV
	3	+10 V	brown	Fixed voltage output 10 VDC +/-3 %, Imax. 10 mA, short-circuit-proof, power supply for ext. devices (e.g. potentiometer), SELV
	1	GND	blue	Signal ground for control interface, SELV

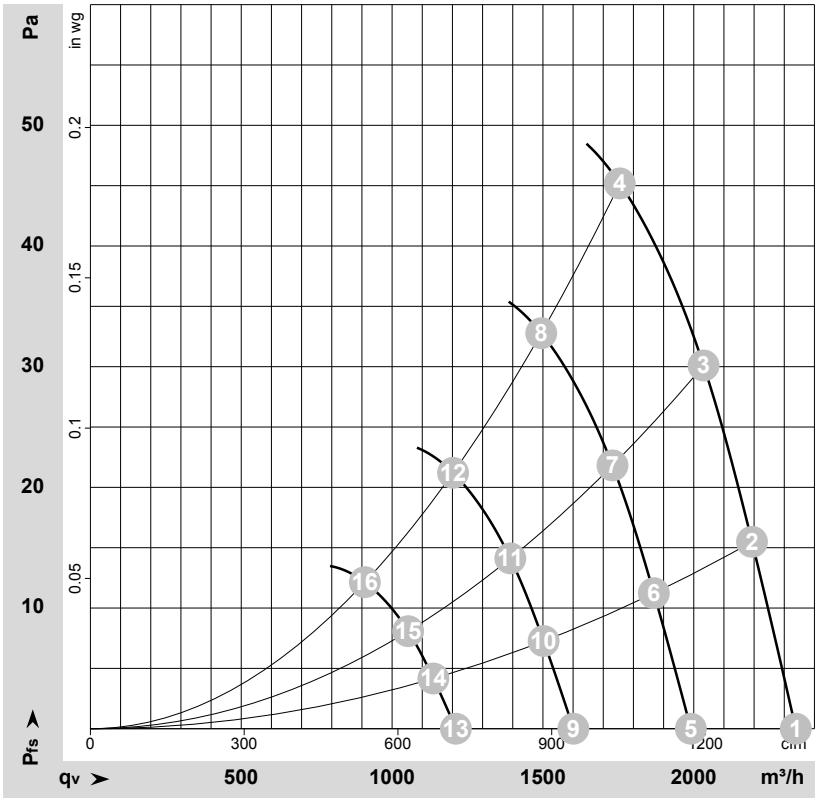
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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-178600-1

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

	U	f	n	P_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	1350	68	0.59	2340	0	1375	0.00
2	230	50	1350	76	0.65	2195	15	1290	0.06
3	230	50	1350	81	0.69	2035	30	1195	0.12
4	230	50	1350	85	0.70	1755	45	1035	0.18
5	230	50	1150	42	0.37	1990	0	1170	0.00
6	230	50	1150	47	0.40	1870	12	1100	0.05
7	230	50	1150	50	0.43	1730	22	1020	0.09
8	230	50	1150	51	0.44	1495	33	880	0.13
9	230	50	925	22	0.19	1600	0	940	0.00
10	230	50	925	24	0.21	1500	8	885	0.03
11	230	50	925	26	0.22	1390	14	820	0.06
12	230	50	925	27	0.23	1200	21	705	0.08
13	230	50	700	9.0	0.08	1210	0	715	0.00
14	230	50	700	11	0.09	1135	4	670	0.02
15	230	50	700	11	0.10	1055	8	620	0.03
16	230	50	700	11	0.10	910	12	535	0.05

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

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