G1G144-AB53-07

EC centrifugal fan

backward-curved, single-intake

with housing (flange), Gas blower for condensing boilers

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Nominal data

Type	**G1G144-AB53-07**	
Motor	**M1G055-BD**	
Nominal voltage	VDC	12
Nominal voltage range	VDC	10 .. 14
Method of obtaining data		fa
Status		prelim.
Speed (rpm)	min^{-1}	4560
Power consumption	W	62

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

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Technical description

Weight	1.36 kg
Fan size	144 mm
Rotor surface	Thick-film passivated
Cover material	PP plastic
Impeller material	PA plastic
Housing material	Die-cast aluminum
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
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	On rotor side
Mode	S1
Premixing	Not suitable for premixing.
Motor bearing	Ball bearing
Technical features	- PWM control input - Motor current limitation - Tach output
Electrical hookup	With plug
Motor protection	Reverse polarity and locked-rotor protection
Comment	Complete unit must be tested for required approvals.

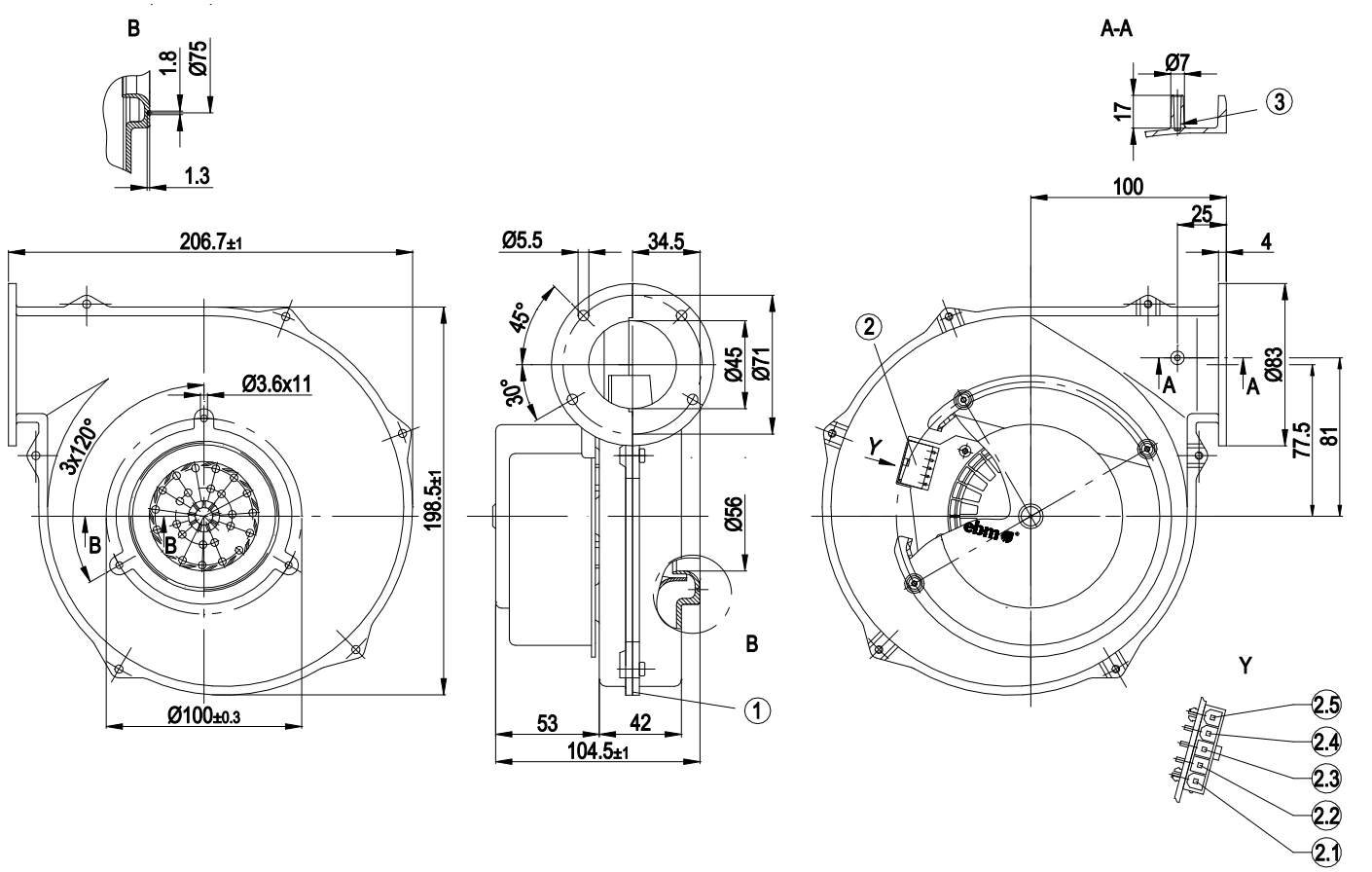
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Product drawing



A-A	Section A-A
B-B	Section B-B
Y	View Y
1	Housing side parts sealed with NBR round cord (pentane-resistant)
2	5-pole header, mating connector (not included in scope of delivery): Molex no. 39-01-4050; socket: Molex no. 39-00-0059
2.1	(+)
2.2	Speed monitoring
2.3	N.C.
2.4	PWM
2.5	(-)
3	Pressure tap sealed (drilled open if required)

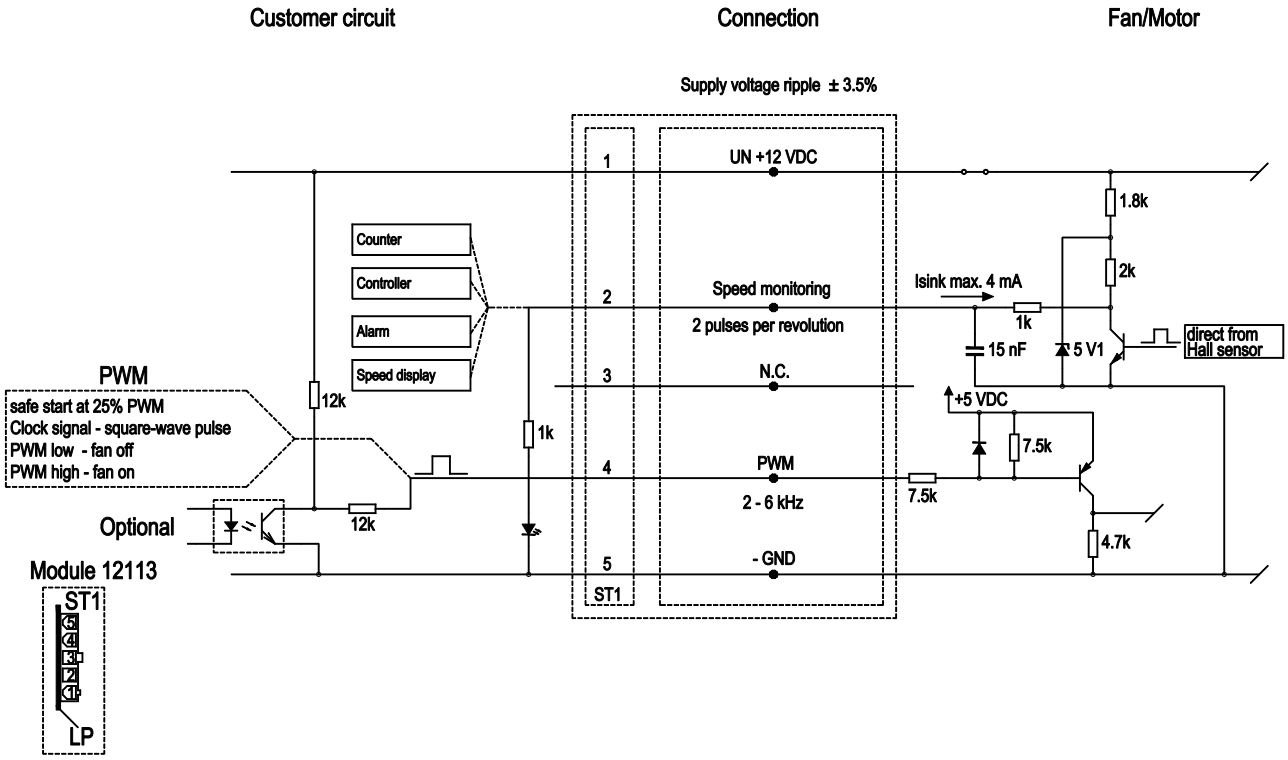
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Connection diagram



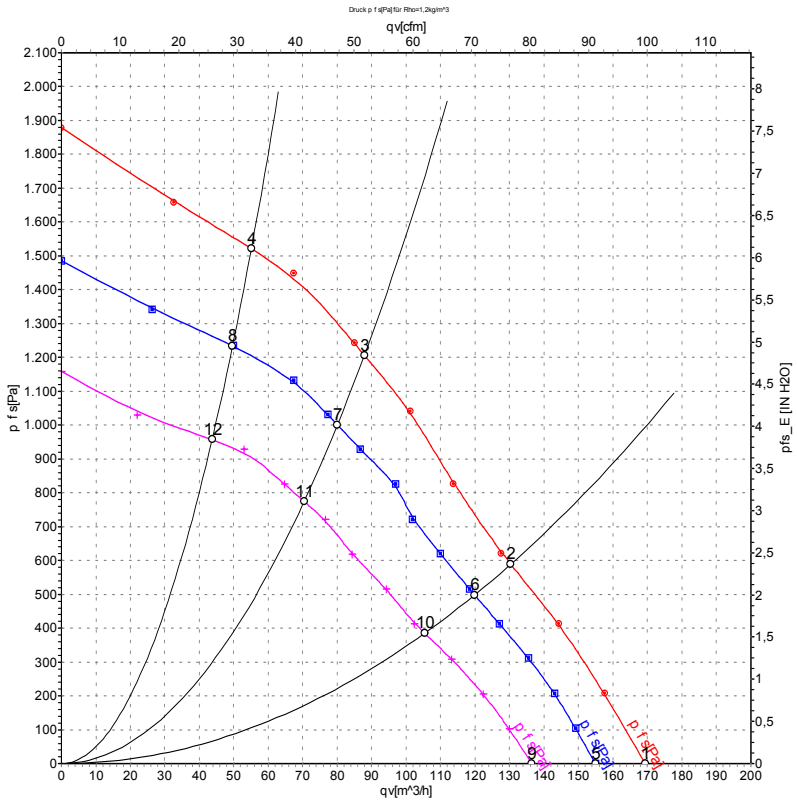
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Curves: Air performance



Measurement: LU-43875-1
Measurement: LU-43873-1
Measurement: LU-43874-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. 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	inH2O
1	14	4965	82	6.28	170	0	100	0.00
2	14	5165	78	5.97	130	587	75	2.36
3	14	5580	71	5.33	90	1207	50	4.85
4	14	5995	62	4.66	55	1522	30	6.11
5	12	4560	62	5.54	155	0	90	0.00
6	12	4750	60	5.24	120	498	70	2.00
7	12	5080	53	4.65	80	1001	45	4.02
8	12	5420	47	4.10	50	1237	30	4.97
9	10	4040	44	4.67	135	0	80	0.00
10	10	4190	41	4.40	105	384	60	1.54
11	10	4475	36	3.85	70	775	40	3.11
12	10	4750	32	3.40	45	959	25	3.85

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

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