G1G140-MW19-07

EC centrifugal fan

forward-curved, single-intake

with housing (without flange)

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Nominal data

Type	**G1G140-MW19-07**	
Motor	**M1G055-CF**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min^{-1}	2440
Power consumption	W	50
Current draw	A	2.3
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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	1.85 kg
Fan size	140 mm
Rotor surface	Painted black
Impeller material	PP-TV40 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	F0
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	None
Cooling hole/opening	On rotor side
Mode	S1
Motor bearing	Ball bearing
Technical features	- Control input 0-10 VDC / PWM - Motor current limitation - Soft start
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 55022 (Class B)
Electrical hookup	With plug
Motor protection	Reverse polarity and locked-rotor protection
With cable	Lateral

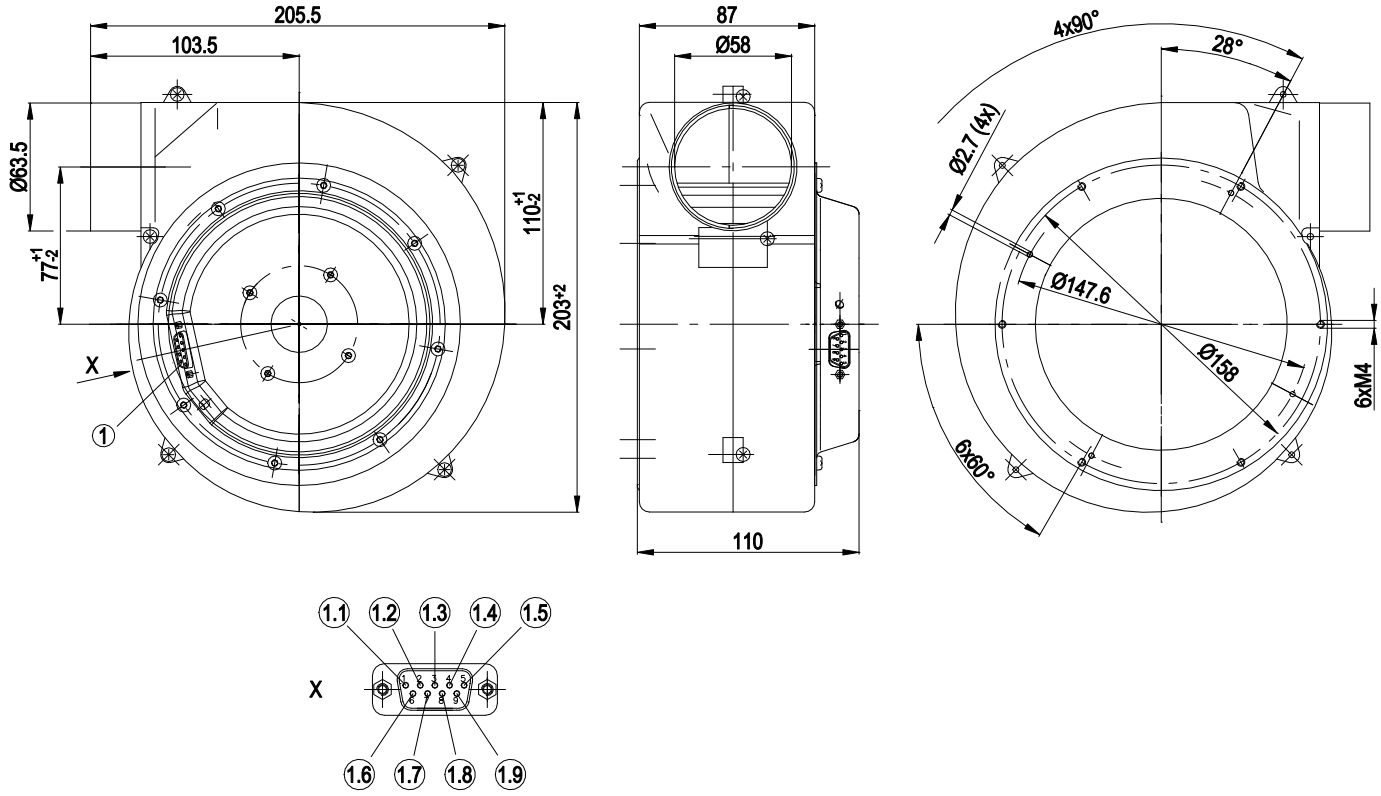
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Product drawing



X	View X
1	Connector housing Spectrum Control no. 56F-701-015LI
1.1	GND
1.2	not used
1.3	not used
1.4	0-10 VDC
1.5	not used
1.6	not used
1.7	not used
1.8	not used
1.9	UN +24 VDC

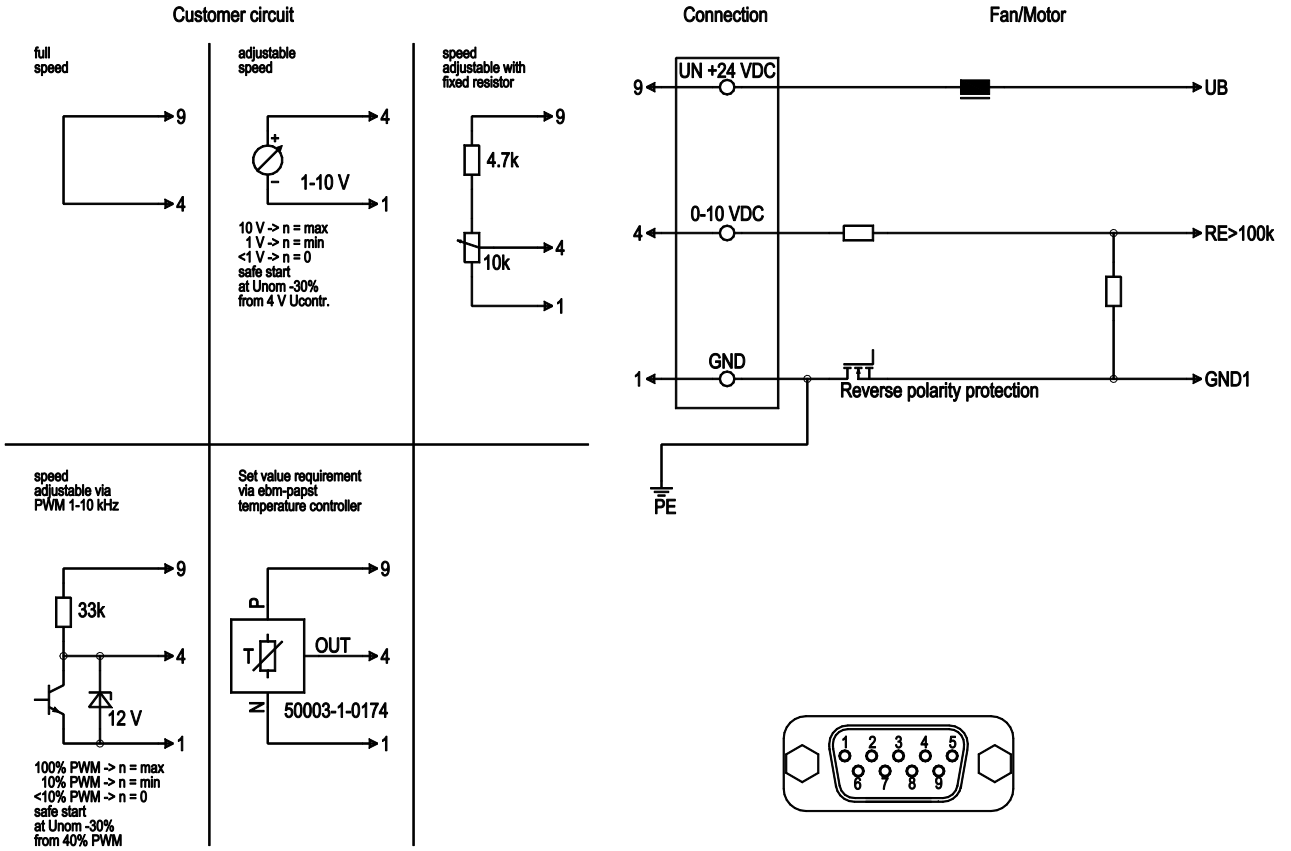
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	1	GND	blue	Reference ground
1	4	0-10 VDC	yellow	Control input Re > 100 k
1	9	UN +24 VDC	red	Power supply 24 VDC, maximum ripple 3.5%

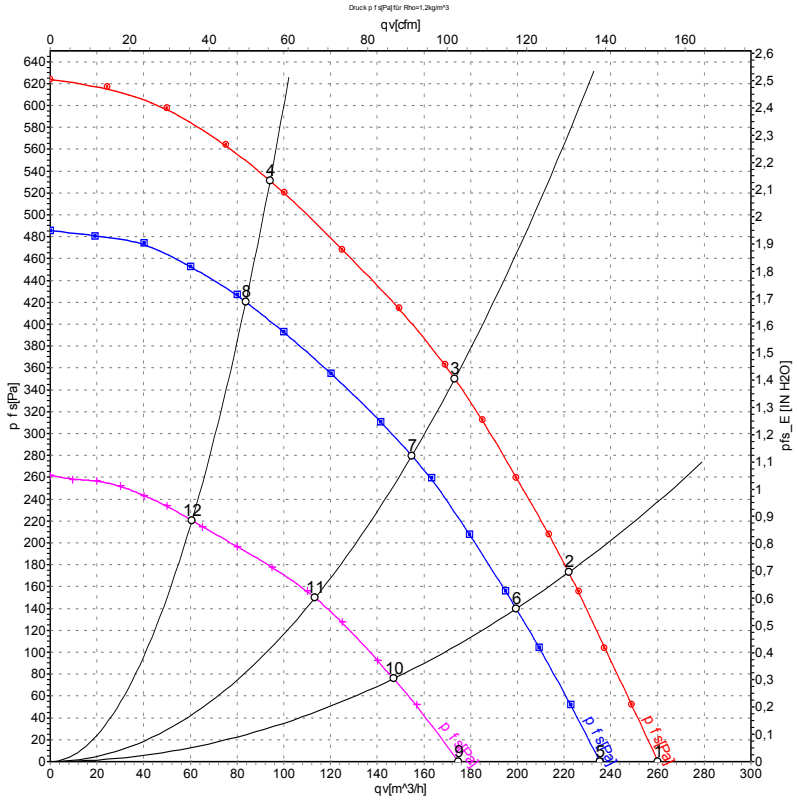
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Curves: Air performance



Measurement: LU-122875-1
Measurement: LU-122868-1
Measurement: LU-122872-1

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	28	2680	67	2.67	260	0	155	0.00
2	28	2810	61	2.45	220	173	130	0.69
3	28	2975	54	2.13	175	350	100	1.41
4	28	3235	42	1.69	95	531	55	2.13
5	24	2440	50	2.30	235	0	140	0.00
6	24	2535	45	2.09	200	140	120	0.56
7	24	2670	39	1.83	155	280	90	1.12
8	24	2885	31	1.46	85	420	50	1.69
9	16	1835	21	1.51	175	0	105	0.00
10	16	1895	19	1.38	145	76	85	0.31
11	16	1980	17	1.23	115	150	65	0.60
12	16	2110	13	1.13	60	220	35	0.88

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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