

EC centrifugal fan

forward-curved, dual-intake
with housing (without flange)

D3G160-BF60-01 ebmpapst Datasheet
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Nominal data

Type	D3G160-BF60-01	
Motor	M3G074-CF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	1370
Power consumption	W	150
Current draw	A	1.1
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

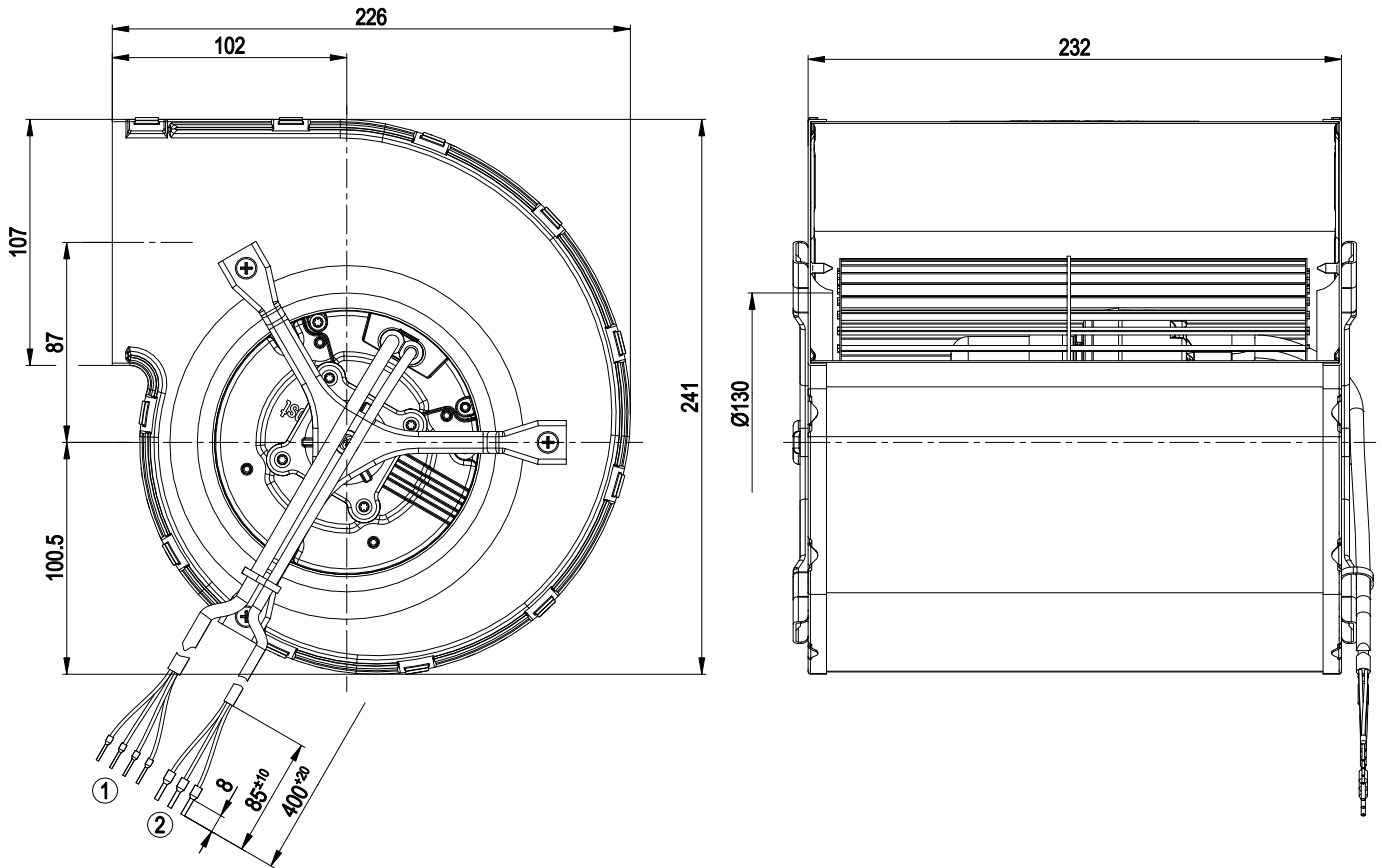
Weight	4.9 kg
Fan size	160 mm
Impeller material	Sheet steel, hot-dip galvanized
Housing material	Sheet steel, hot-dip galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for electronics/motor
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 61000-6-3 (household environment)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 3.5 mA mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1
Approval	CSA C22.2 No. 77; UL 2111



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Product drawing

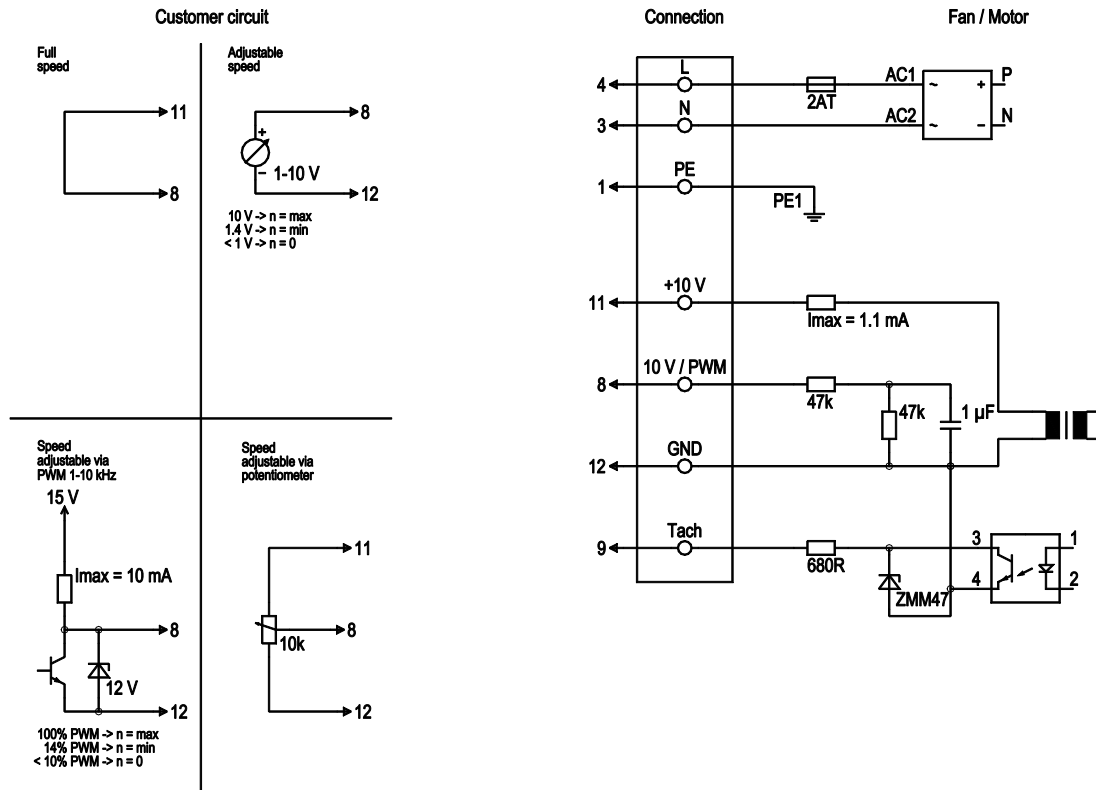


- | | |
|---|----------------------------------|
| 1 | Cable AWG22, 4x crimped ferrules |
| 2 | Cable AWG18, 3x crimped ferrules |

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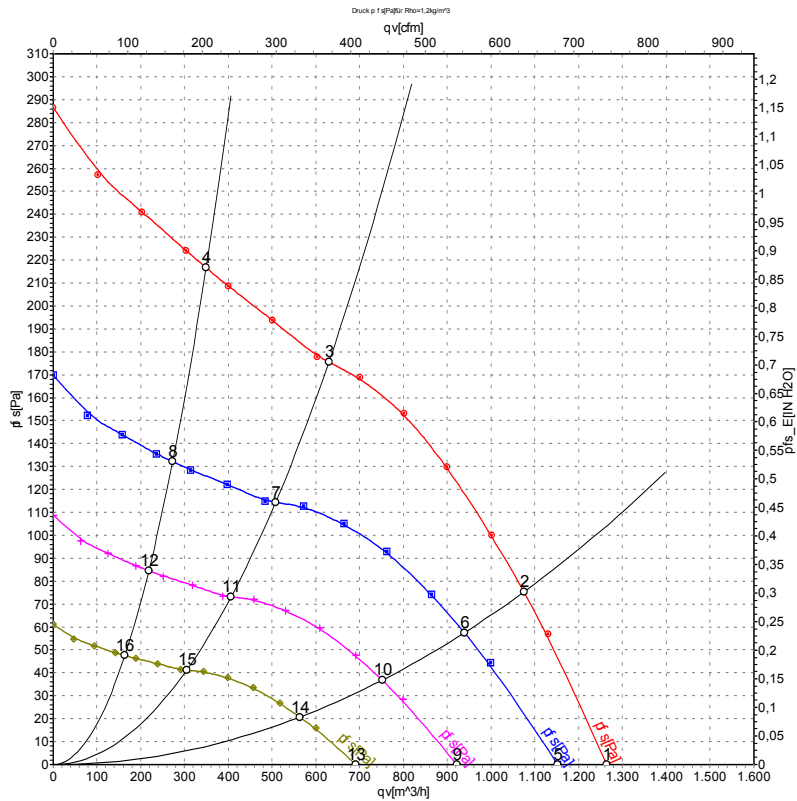
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	4	L	black	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	8	0-10 V PWM	yellow	Control input 0-10 V or PWM, electrically isolated
	9	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated
	11	10V / max 1.1 mA	red	Voltage output 10 V/max. 1.1 mA, electrically isolated
	12	GND	blue	GND connection for control interface

Curves: Air performance 50 Hz



Measurement: LU-109581-1

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	f	n	P _{ed}	I	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH ₂ O
1	230	50	1370	150	1.10	1255	0	740	0.00
2	230	50	1430	131	0.96	1075	75	635	0.30
3	230	50	1550	85	0.63	630	175	370	0.70
4	230	50	1600	62	0.47	350	215	205	0.86
5	230	50	1250	115	0.84	1150	0	680	0.00
6	230	50	1250	88	0.64	940	58	555	0.23
7	230	50	1250	45	0.33	510	114	300	0.46
8	230	50	1250	30	0.22	275	132	160	0.53
9	230	50	1000	59	0.43	920	0	545	0.00
10	230	50	1000	45	0.33	750	37	440	0.15
11	230	50	1000	23	0.17	405	73	240	0.29
12	230	50	1000	15	0.11	220	84	130	0.34
13	230	50	750	25	0.18	690	0	405	0.00
14	230	50	750	19	0.14	565	21	330	0.08
15	230	50	750	9.7	0.07	305	41	180	0.16
16	230	50	750	6.4	0.05	165	48	95	0.19

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